

# CONCRETE FORMING & ACCESSORIES



OVER 90 YEARS OF EXPERIENCE AND QUALITY PRODUCTS



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# SAFETY FACTORS & SAFE WORKING LOADS

M A S C O . N E T

Masons Supply Company has placed increasing emphasis on ensuring that material supplied meets or exceeds the normal safety requirements for concrete construction. Do not use any Masons product before first reading and understanding the instructions shown in the appropriate handbook. For safety, quality assurance must be extended to field personnel with the contractor making sure that his employees are properly instructed in the use and installation of the products we represent.

The safety factor to be applied to a particular product is a variable, depending on the degree of hazard or risk involved in the application of that product. In concrete construction, various job site conditions can often increase the degree of risk. Concentrated loads of reinforcing bars or storage of other types of construction materials on formwork, unsymmetrical placement of concrete, uplift,

impact, use of motorized carts, formwork height, jerking of a crane during the lifting of concrete elements, use of a crane adequate for the job, bouncing of the concrete elements after it has been lifted, are some of the conditions that have a high risk factor. Safety factors must be increased by the user to reduce these risks. It is for this reason that we state the minimum safe working loads of the products we represent. Masons recommends that the provisions of the American National Standards Institute's (ANSI A 10.9), OSHA (Occupational Safety and Health Administration Act, Part 1926) and the American Concrete Institute's Guide to Formwork for Concrete (ACI 347) be strictly followed when considering safety factors and safe working loads. We especially advise that the minimum safety factors listed below be adhered to. When there are unusual job conditions, these minimum safety factors must be increased by the user.

## RECOMMENDED MINIMUM SAFETY FACTORS

ACCESSORY	SAFETY FACTOR	TYPE OF CONSTRUCTION
Form Tie	2 to 1	All applications
Form Anchor	2 to 1	Formwork supporting form weight and concrete pressures only
	3 to 1	Formwork supporting weight of forms, concrete construction live loads and impact
Form Hangers	2 to 1	All applications
Anchoring Inserts (Used as Form Ties)	2 to 1	Precast concrete panels when used as formwork
Brace Anchors	2 to 1	Bracing of tilt-up or precast concrete wall panels
Inserts	3 to 1	Inserts used to make permanent connection between tilt-up or precast concrete elements
Lifting Inserts	2 to 1	Tilt-up construction
	4 to 1	Precast concrete elements
Lifting Plates & Related Items	5 to 1	Hardware used for lifting and handling of tilt-up or precast concrete elements

**WARNING! WHEN IN DOUBT ABOUT THE PROPER USE OR INSTALLATION OF MASONS ACCESSORIES AND HARDWARE, CONTACT MASONS FOR CLARIFICATION. FAILURE TO DO SO MAY RESULT IN EXPOSURE OR WORKERS TO UNSAFE CONDITIONS OR HAZARDS, RESULTING IN THE POSSIBILITY OF INJURY OR DEATH TO WORKERS IN THE VICINITY OF THE JOBSITE.**

DISCLAIMER OF WARRANTIES AND LIMITATIONS OF LIABILITY: MASONS SUPPLY CO. (SELLER) WARRANTS THAT IF ANY GOODS SUPPLIED PROVE DEFECTIVE IN WORKMANSHIP OR MATERIAL, THAT SELLER SHALL REPLACE THEM OR REFUND THEIR PURCHASE PRICE. THIS WARRANTY IS MADE IN LIEU OF ANY AND ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND/OR FITNESS WHICH ARE HEREBY DISCLAIMED. IT IS UNDERSTOOD AND AGREED THAT BUYER'S SOLE REMEDY, AND THEREFORE SELLER'S LIABILITY, WHETHER IN CONTRACT, TORT, UNDER ANY WARRANTY, IN NEGLIGENCE, OR OTHERWISE SHALL BE LIMITED TO THE RETURN OF THE PURCHASE PRICE PAID BY PURCHASER OR REPLACEMENT OF ANY DEFECTIVE GOOD'S SOLD BY SELLER AND UNDER NO CIRCUMSTANCES SHALL SELLER BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES. THE PRICE STATED FOR THE GOODS IS A CONSIDERATION IN LIMITING SELLER'S LIABILITY. BEFORE APPLICATION, THE USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR HIS INTENDED USE AND USER ASSUMES ALL RISKS AND LIABILITIES WHATSOEVER IN CONNECTION THEREWITH. THE TERMS OF THIS PARAGRAPH MAY NOT BE ORALLY MODIFIED. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE HEREOF.

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# WE SERVE PROFESSIONAL TRADES ONLY



## FORMING/SYSTEMS

**Masons Supply Company** offers the largest inventory of concrete and masonry accessories in the Northwest. With the addition of concrete forming systems, for sale and rent, Masons is your source for all your concrete needs.

Masons has two major distribution facilities located in Portland, Oregon and Woodinville, Washington. Thirteen warehouse outlets and a large multi function concrete forming, shoring and custom fabrication facility in Ridgefield, WA.

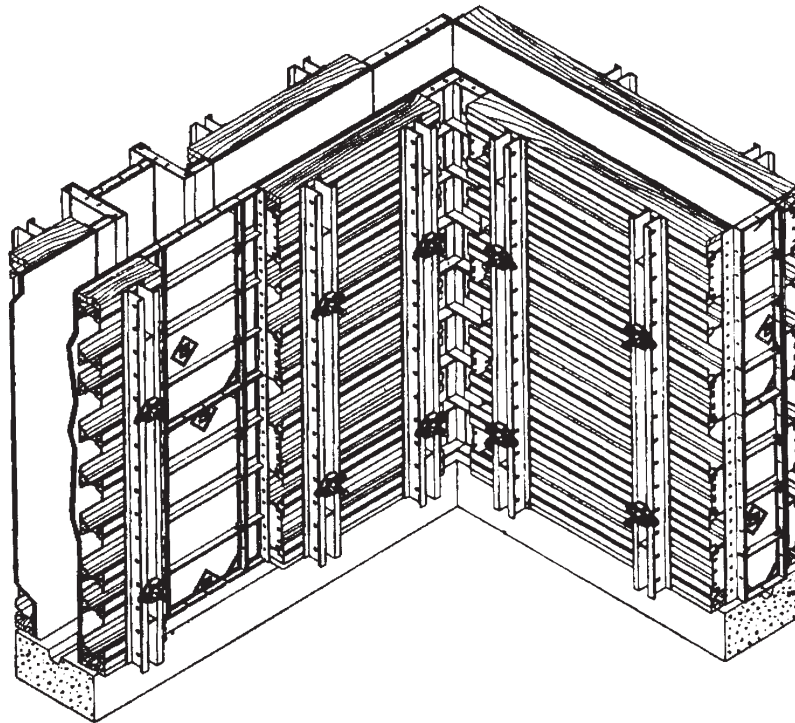
Masons forming and shoring facilities offer and stock the best selection of different concrete forming and shoring systems in the western United States. Modular hand set panels, all steel faced panels, Euro clamp, all steel round and radius forms, aluminum beam, plywood faced gang forms for straight and radius walls. All steel or aluminum tube frame shoring systems. Hand set plywood forming systems are also available. Masons has forming systems for all heavy and light requirements.

Our forming department can also manufacture custom fabricated forms and accessories to fit any job or requirements. A full service distribution center make it possible to pre-assemble forming systems for delivery anywhere in North America, Canada, Alaska, Mexico and the Pacific Rim.

In the 2000's Masons has become the premier specialty company for concrete and masonry products in the Northwest. Our only business is servicing professional contractors on all commercial, industrial and infrastructure projects.

Masons Supply Company, a locally owned and operated business, is growing with the Northwest to better serve our customers. We're proud of our history and our reputation for excellence.

**EXPERTISE · PROBLEM SOLVING**  
**MULTIPLE LOCATIONS · FAST DELIVERY**



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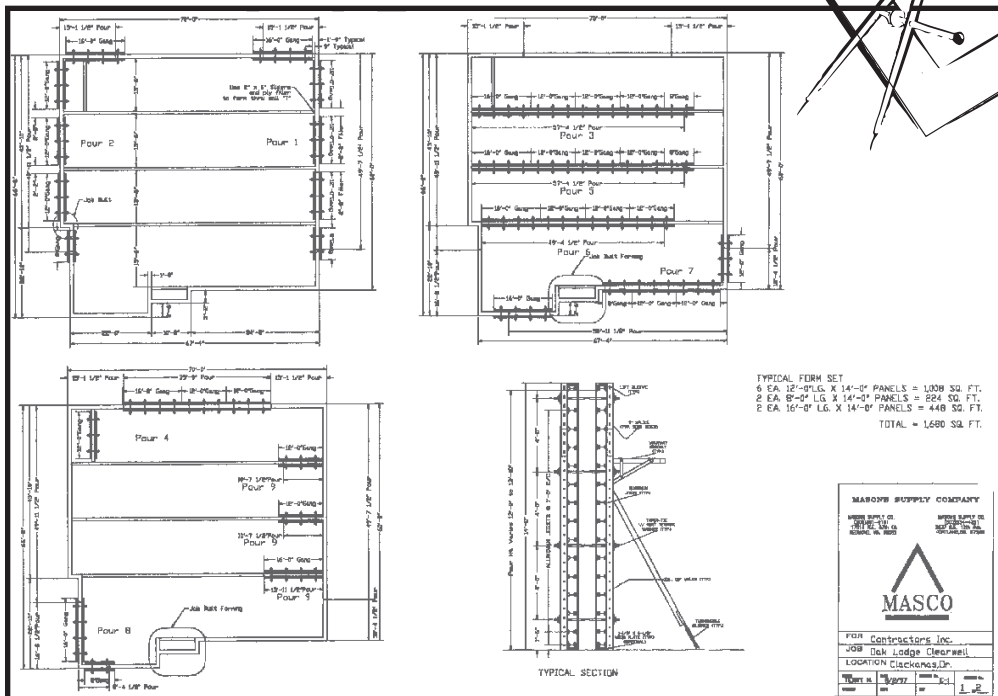
Having top quality products is only part of Masons' story. We have the service and expertise to help you get your job done on time and budget. Masons' factory trained specialists work with your project personnel every step of the way.

When you need building materials and forming systems, Masons can help you select the best products for your requirements and offer on-site technical assistance, as well as specialized equipment.

Our experienced drafting and sales staff, complete with multiple autocad stations are available to prepare clear and accurate computer generated sales, lay-out and detail drawings to fit your projects requirements.

Before you turn the first shovelful of dirt, Masons can be on site, unloading geotextile fabric and safety fence. Our forming department can put the final drawing together on your concrete forming layouts. Masons delivers only the best nationally recognized products and we get it to you on time.

Masons has made the investment in distribution facilities, inventory and trucks to ensure you get what you need when you need it. Masons is committed to supplying professional contractors with the best service and products available.



# BEST PRODUCTS AVAILABLE



Masons has the largest inventory of masonry specialties, concrete forms, and accessories in the Northwest. With over 90 years of experience, Masons knows what works and offers only the best products available in the United States. We have everything you need to complete your project. Masons' comprehensive inventory includes:

## CONCRETE CHEMICALS AND POWDERS

- Concrete Admixtures
- Curing and Sealing Compounds
- Epoxy Adhesives and Coatings
- Grouts and Hardeners
- Patching Material
- Sealant and Waterproofing
- Surface Retarders

## CONCRETE FORMING SYSTEMS AND ACCESSORIES

- Column and Form Treatments
- Form Releases
- Forming Systems
- Tying and Handset
- Slab and Horizontal
- Tilt-Up
- Inserts
- Plastic Accessories

## NEW CONSTRUCTION PROJECTS

Masons has the product and supplies to meet your total concrete and masonry requirements for every stage of your project. Masons carries a full line of products such as chemicals, admixtures, waterproofing and tools.

We offer **forming products** such as modular wood faced forming, standard steel forming, aluminum beam gang, heavy duty forming, bridge deck forming, precast curb and gutter forms, and architectural form liners. We can supply all your vertical and horizontal forming requirements.

## RENOVATION PROJECTS

90 years of experience working with manufacturers and supplying **construction materials** has given us the knowledge to work with architects, engineers and contractors. We can provide the materials to restore buildings and structures to their original appearance and structure integrity.

## MASONRY SPECIALISTS

- Cement and Mortars
- Color and Admixtures
- Flashing and Waterproofing
- Seismic Ties for New and Retrofit
- Seismic Anchors - Chemical and Mechanical
- Wall Ties and Reinforcing

## SUB GRADE PRODUCTS

- Drainage Boards
- Geotextile Fabric and Silt Fence
- Safety Fence
- Sheet Membrane
- Vapor Barrier

## TOOLS

- Concrete Placing and Finishing
- Masonry Placing and Finishing
- Power Trowels, Screeds, Mixers and Saws
- Safety Supplies

## RENTAL AND SALES OF:

- Adjustable Radius Walers
- Aluminum Beams
- Column Forms
- Crane Set Forms
- Euro Clamp Wall Forms
- Euro Drop Head Deck Forms
- Handset Forms
- Overhang Brackets
- Safety Rail Post
- She Bolts and Taper Ties
- Shoring
- Soldier Beam
- Snap Ties and Accessories
- Steel Column Forms
- Steel Forms
- Steel Ply
- Ties
- Tilt-Up Braces and Accessories
- Walers

## INDUSTRIAL PROJECTS

With Masons' experience, knowledge and large inventory of dependable products and supplies, we can meet your immediate requirements for **emergencies**, shut-downs and additions.

Our expert personnel can work with your engineering, construction and maintenance departments and **get you into production**. Our specialists are experts in emergency repairs on floors, walls, ceilings, and machinery bases.

## CIVIL PROJECTS

Masons can support you on your road, bridge, dam, water-treatment, reservoir, and other **concrete structural projects**. Whether new construction or repair, Masons has the products you need, delivered when you need them. Our expertise is backed by over 90 years of serving the Northwest.

Whether you are in the planning, building or construction phase, keep you job on schedule with innovative ideas and proven products at competitive prices.

## CALL AND ASK TO GET ANY OF OUR OTHER CATALOGS:

- ◆ Construction Liquid & Powder
- ◆ Concrete and Masonry Tools for the Trade
- ◆ Forming and Shoring

ALSO AVAILABLE ON CD & ONLINE

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## MASONS SUPPLY COMPANY

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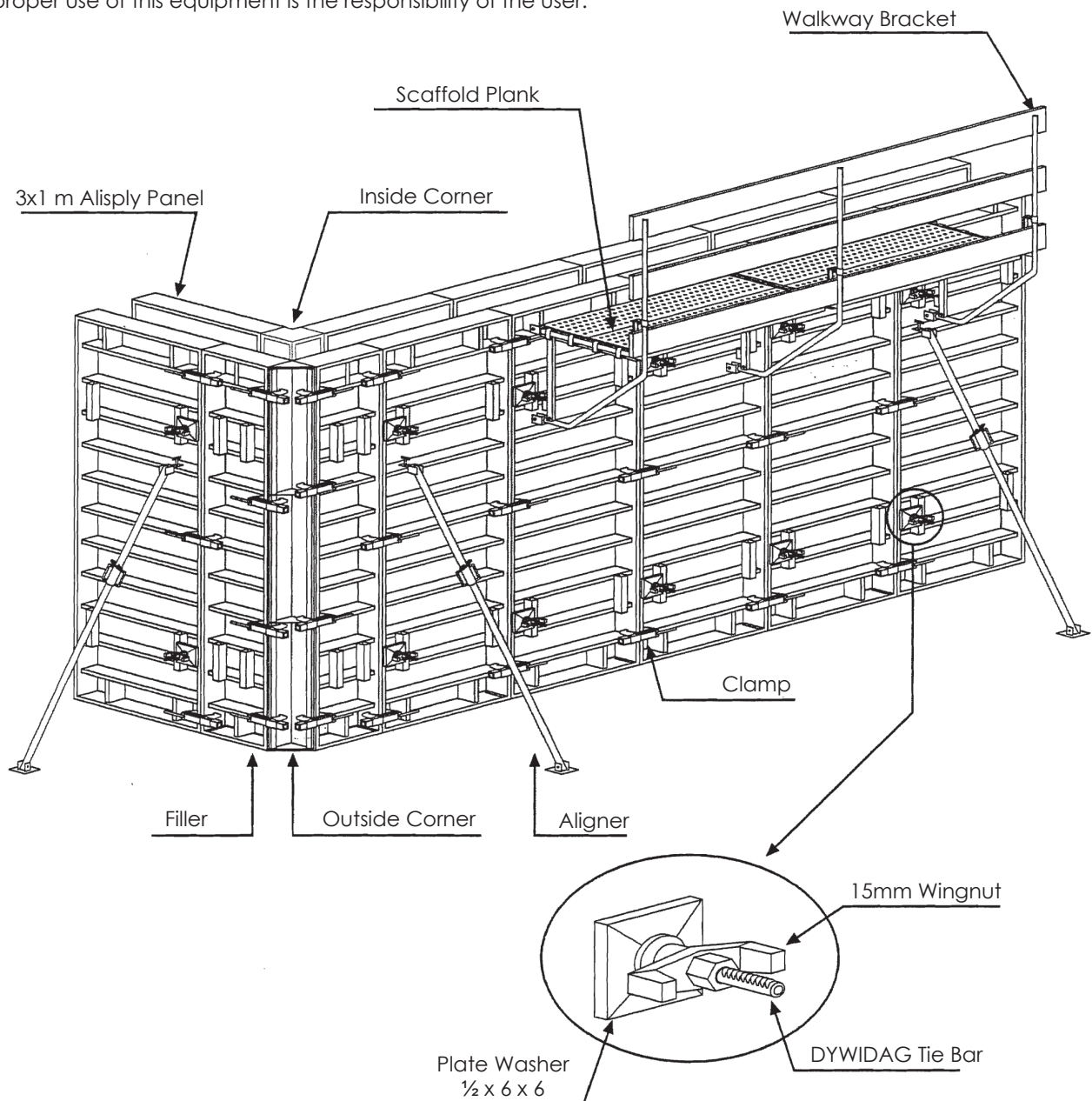
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Alisply™ components and accessories illustrated herein have been designed with safety and performance in mind to help achieve a safe and productive forming operation. It is recommended that all construction personnel thoroughly familiarize themselves and comply with the applicable industry standards and safe practices established by the American Concrete Institute, the Occupational Safety and Health Administration and the Scaffold, Shoring and Forming Institute.

All Alisply components and accessories must be inspected regularly for damage or excessive wear. Equipment found to be in these conditions must be replaced immediately and not reused.

Note: The procedures outlined in this catalog describe standard application procedures for the Alisply concrete forming system. Since field conditions vary and are beyond the control of Masons Supply Company, safe and proper use of this equipment is the responsibility of the user.

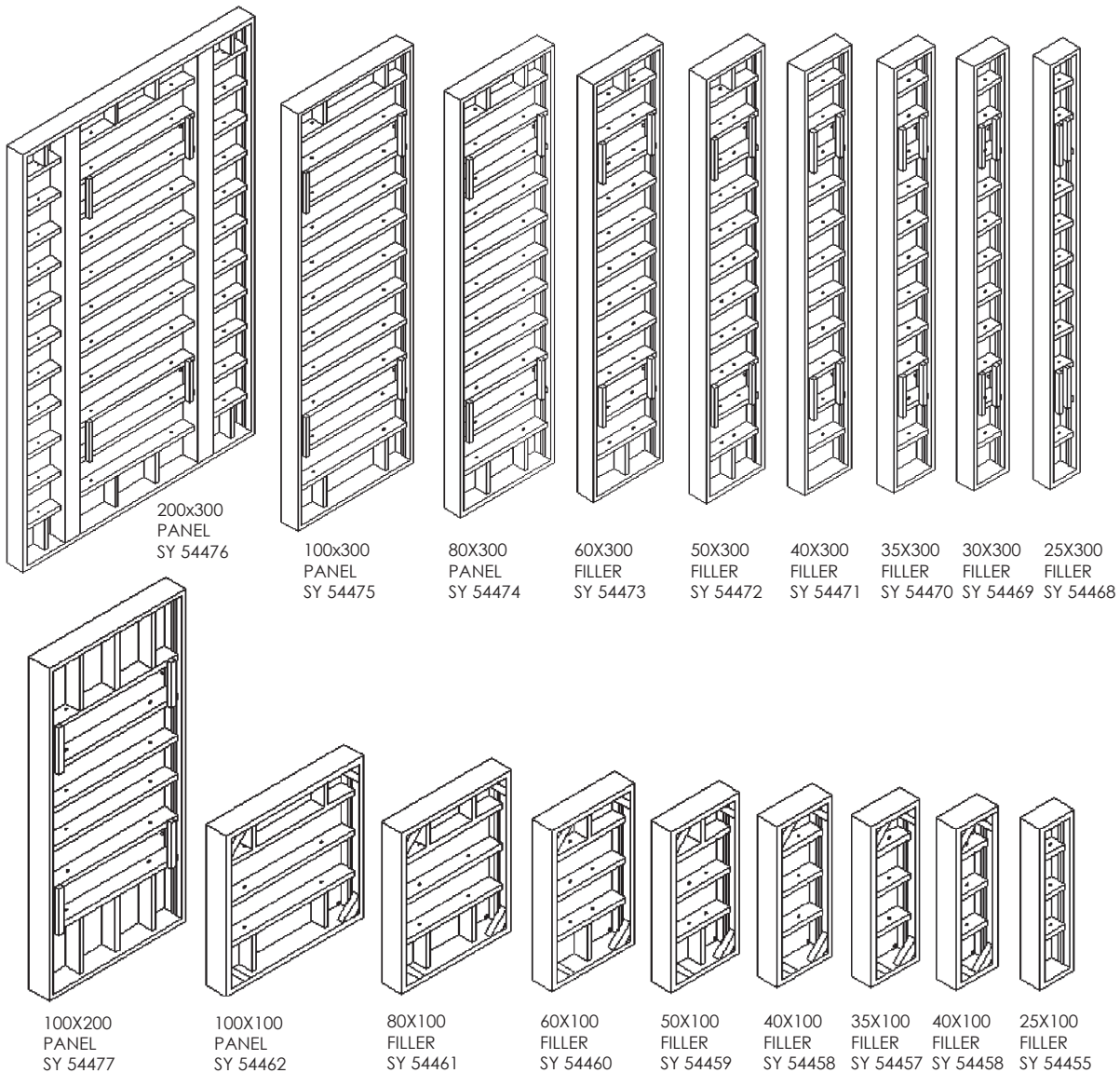


## VERTICAL FORMING SYSTEMS

### Panels and Fillers

**Alisply™**, a modular metric system, consists of a galvanized steel frame and a phenolic resin coated 15 mm (5/8") plywood face. The plywood face is recessed into the steel frame and silicone caulk joint filler around the perimeter protects the face from moisture and edge damage. Panels and fillers are designed based on a maximum allowable concrete pressure of 1250 psf. **Note:** 1140 psf allowable when 200x300 panel is used.

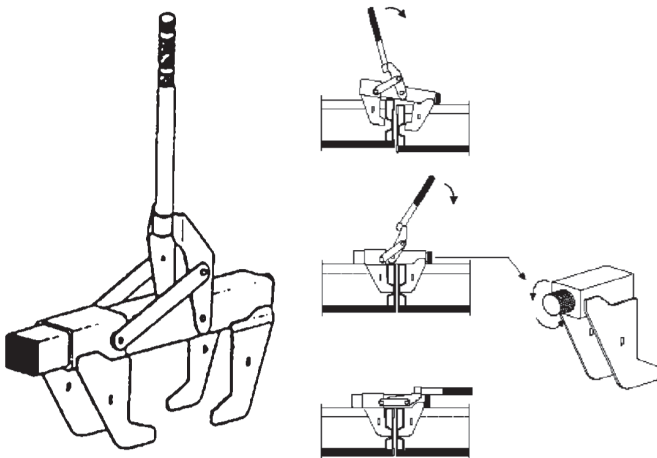
The Alisply system is available in widths from 25 to 200 cm, and heights of 1 and 3 meters. A 100 x 200 cm panel is also available, but without the filler heights. Crossmembers are spaced at approximately 25 cm (10 inches) on centers with four tie locations per panel and filler. Alisply forms can be used horizontally or vertically, even within the same gang. The siderail of the Alisply panels and fillers are uniquely designed to accept the Alisply connecting clamps. The gang size determines the number of clamps required.



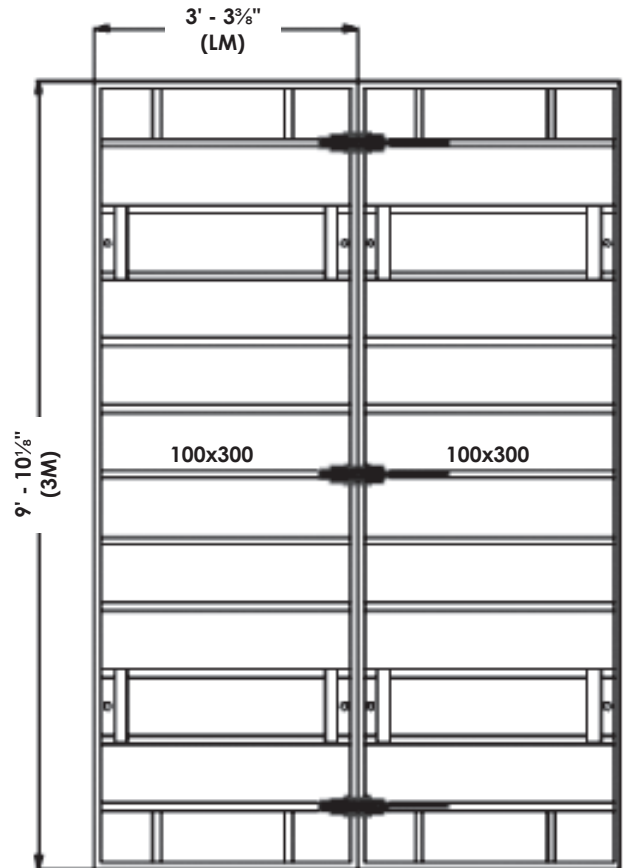
Alisply Panel & Filler Sizes

## Connecting Clamps

Alisply clamps connect panels and fillers, and eliminate the need for sockets wrenches or any other special tools typically required for other forming systems. The number of clamps will depend on the size of the gang. Typically, three clamps are required for a vertical 300 cm panel or filler. Additional clamps are required at horizontal joints due to the forces transferred by the weight and size of the gang.

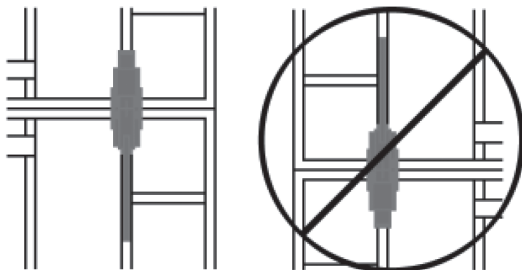


Connecting Clamp and Attachment  
SY 54550



Typical Connecting Clamp Configuration  
for Vertical Joints

**Caution:** To avoid disengagement from the panel, all clamp handles must be pointed in the down position at all horizontal joints.

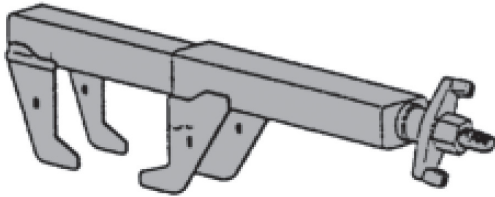


Clamp Orientation for Horizontal Joints

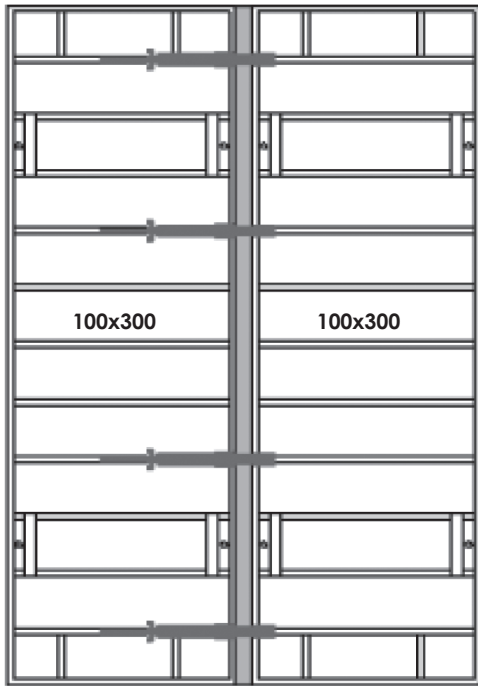
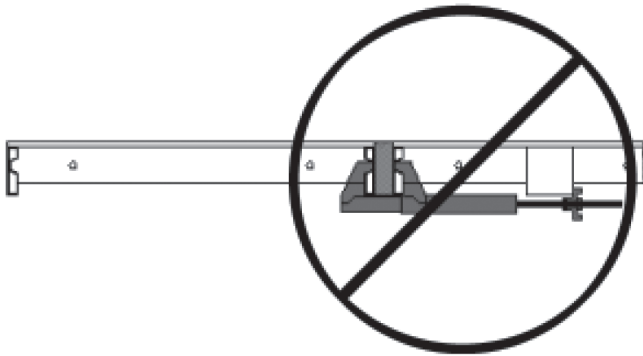
## Adjustable Clamps

The Adjustable Clamp connects wood fillers up to 25 cm (10") wide. The number of clamps required depend on the size of the gang. Typically, four Adjustable Clamps are required for a vertical 300 cm panel or filler. The threaded end of the Adjustable Clamp only requires a standard wing nut for final adjustment.

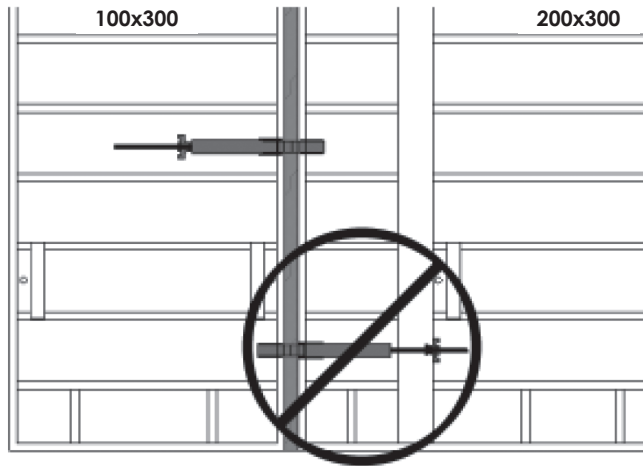
Note: Due to the clamp and panel interference, the Adjustable Clamp should not be used with the 200 cm x 300 cm panel unless used at end rail locations or the handles are pointed away from the 200 cm x 300 cm panel.



Adjustable Clamp  
SY 54551



Typical Adjustable Clamp Configuration

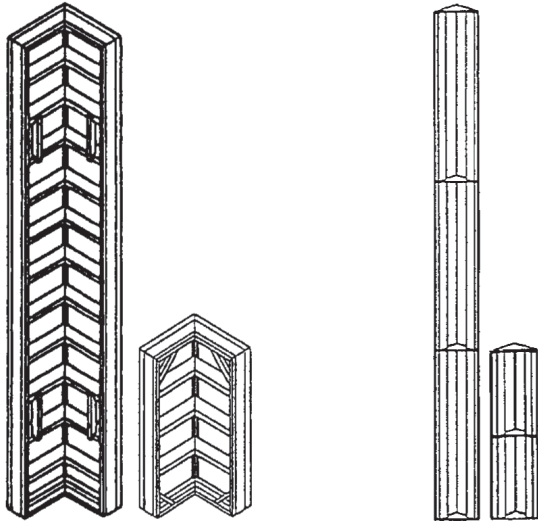


Adjustable Clamp Orientation  
for Vertical Joints

Note: Adjustable clamp cannot be used adjacent to a 40cm filler when wing nut end is oriented towards 40cm filler.

## Standard Corners

Alisply™ Standard 90° Inside and Outside Corners are available in 1 m and 3 m heights. The Inside Corners come in three face size dimensions, 25 cm x 25 cm, 30 cm x 30 cm, and 35 cm x 35 cm (approximately 10" x 10", 12" x 12", and 14" x 14"). Outside Corners are constructed of reinforced galvanized steel.



Inside Corners

Outside Corners

Standard 90° Corners

## Inside Flex Corner

This 30cm x 30cm flexible inside corner for the Alisply™ forming system helps alleviate stripping issues associated with the standard rigid inside corners for Alisply™.

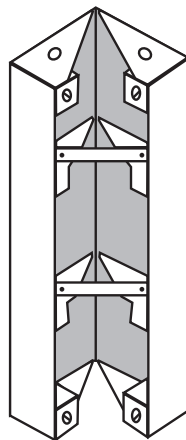
It has the ability to flex up to 3° after the attached pins are placed in the unlocked position. These pins can be unlocked but stay with the form to eliminate lost pieces. The corner comes in the 2 standard heights of 1 meter and 3 meters.

**SY 54535**

30 x 30 x 100 | Inside Flexible Corner

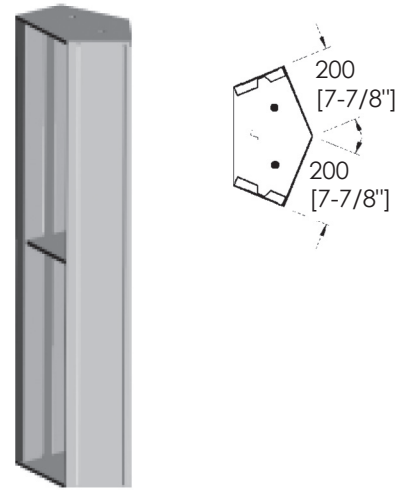
**SY 54536**

30 x 30 x 300 | Inside Flexible Corner



## Bay Corners

Inside Bay Corners opposite Outside Hinge Corners form a 135° angle corner. The Inside Bay Corner has a 20 cm x 20 cm (approximately 7-7/8" x 7-7/8") face dimension, and are available in 1 m, 2 m and 3 m heights. Bay Corners can be used horizontally or vertically to form 135° corners or to form wall haunches and "Y" Walls

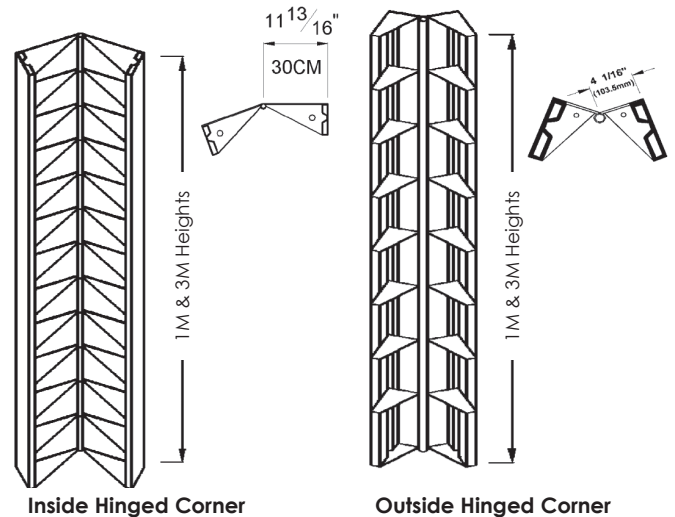


Bay Corners

## Hinged Corners

The Inside Hinged Corner may be used to form inside corners from 90° down to 295°. They are 30 cm x 30 cm (approximately 11-13/16" x 11-13/16") and are available in 1 m and 3 m heights. The Outside Hinged Corner forms outside corners from 200° down to 29°. The Outside Hinge has a dimension of 10.35 cm x 10.35 cm (4" x 4"), and are available in 1 m and 3 m heights.

**Caution:** Due to the inherent flexibility of hinges, corner forms must be braced and blocked as required.



Inside Hinged Corner

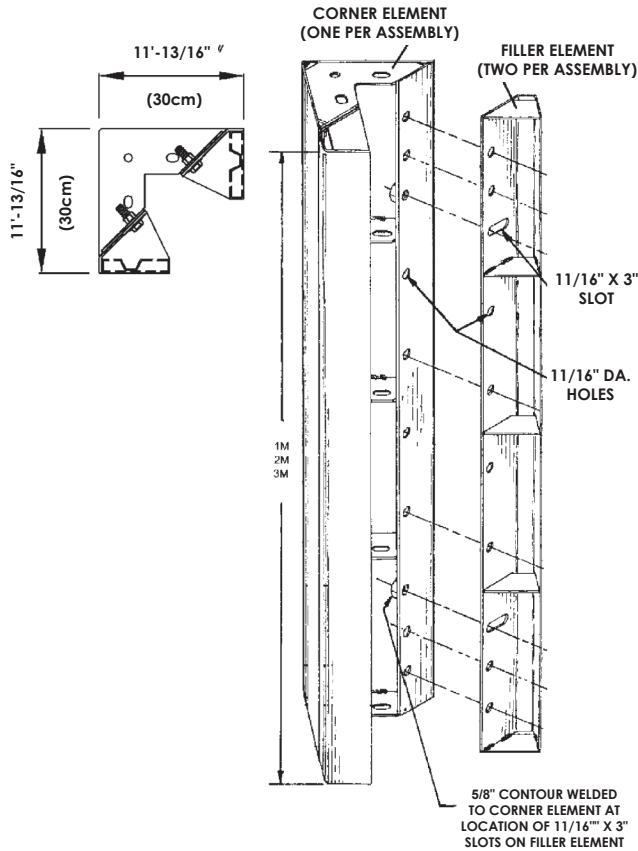
Outside Hinged Corner

Hinged Corners

## VERTICAL FORMING SYSTEMS

### Three-Piece Stripping Corner

Three-Piece Stripping Corners for Alisply™ are used when gangs are confined between pilasters, intersecting walls or core walls.



**THREE-PIECE STRIPPING CORNER**

The 30 cm x 30 cm (11-13/16" x 11-13/16") Stripping Corner consist of three elements: the 10½" x 10½" corner element, and two 15/16" filler elements. The fillers are attached to the corner element with 5/8" Fit-Up Bolts and nuts.

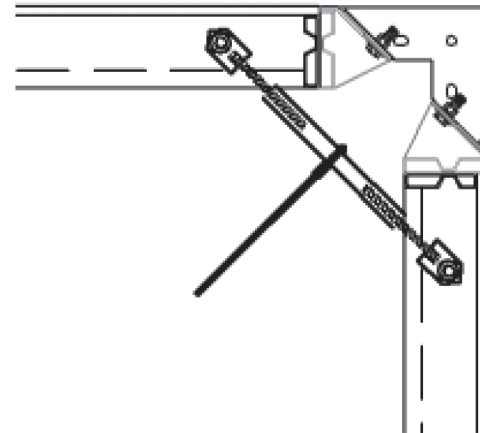
The filler elements have 11/16" x 3" slots at the same elevations where there are 5/8" nuts welded to the inside of the corner element that allow the inside corner element to slide inward during the form stripping sequence.

In the set position 5/8" x 2" bolts and nuts must be bolted at the hole at each end and at 30 cm (12") centers. In the set position, the Three-Piece Stripping Corner is equivalent to a standard 30 cm x 30 cm rigid corner.

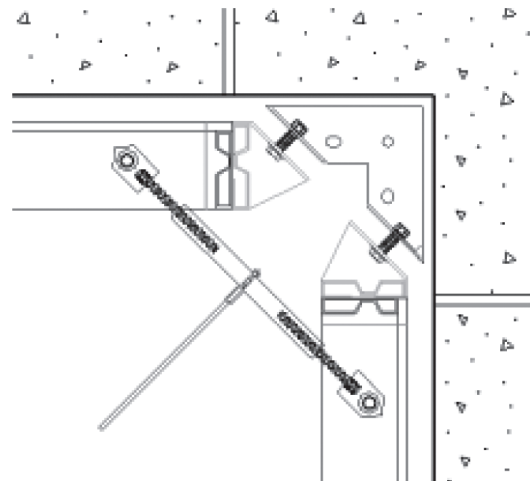
### TO STRIP THE THREE-PIECE STRIPPING CORNER:

Remove all Fit-Up Bolts except the Fit-Up Bolts at the location where the filler element has the slotted hole and at the corner element that has the welded nut. Back off the remaining Fit-Up Bolts until the point of the bolt is flush with the welded nut in the corner element. Retract the gangform inward with turnbuckles or ratchets until stripping clearance is about 2" between the poured wall and form.

**Caution:** During the stripping procedure, back the tie nuts about 2" toward the end of the tie and do not remove the ties until the crane is hooked to the gang and the gang is free from the poured wall.



SET POSITION



STRIP POSITION

**STRIPPING PROCEDURE**

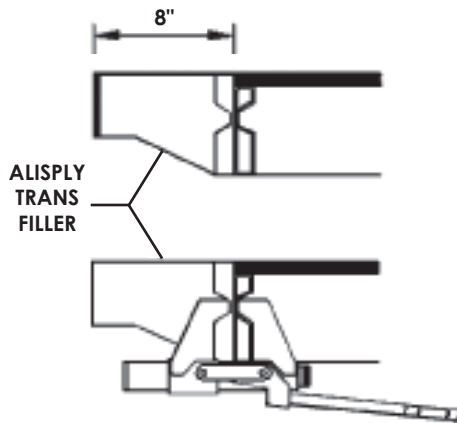
## Transition Filler

The all-steel 8" Transition Filler provides a convenient connection between Alisply™ to Steel-Ply®, Versiform®, and the Max-A-Form® concrete forming systems. The most common use of the Transition Filler is for forming details, such as corners and pilasters.

One side rail of the Transition Filler is clamped to an Alisply panel or filler and the other side rail is either wedged bolted or bolted to the adjacent panel. A vertical row of flat ties is required at the connection between the Transition Filler and Steel-Ply.



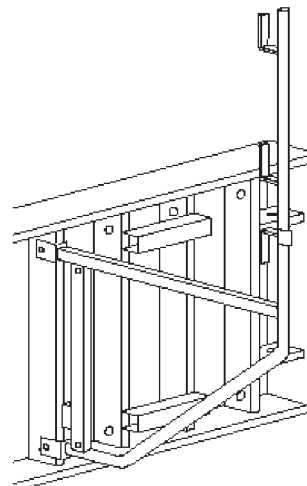
No.	Description	Wt (lbs)
SY 722308	8" x 8'-0" Trans. Filler	128
SY 722306	8" x 6'-0" Trans. Filler	96
SY 722304	8" x 4'-0" Trans. Filler	67



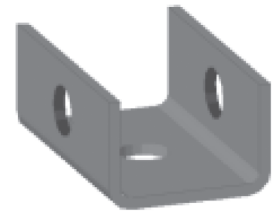
Transition Filler and Application

## Walkway Bracket

The Alisply Walkway Bracket is manufactured with a guardrail post. The guardrail post has two "L" brackets with nail holes welded to it for attachment of lumber guardrails. At the bottom of the post is a sliding "L" bracket with nail holes to attach a toeboard. The Walkway Bracket is attached to the forms at one of the accessory holes on vertical crossmembers with the attached pin. If the crossmembers are running in the horizontal direction, the Walkway Connector is bolted to the crossmember and the Walkway Bracket is attached to the Walkway Connector. The capacity of the Walkway Bracket is 400 lbs. at a 4:1 safety factor (5 ft. maximum spacing).



WALKWAY BRACKET ATTACHED TO VERTICAL CROSSMEMBERS  
SY 54554

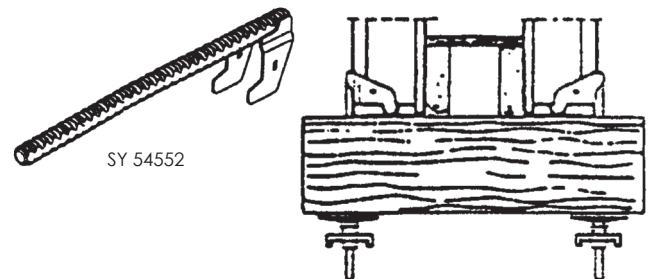


WALKWAY CONNECTOR  
SY 722300

Walkway Bracket Application

## Bulkhead Rod

The Bulkhead Rod is used with double 2x lumber or steel walers, plywood or solid lumber and plate & nut to create a job-built bulkhead. The capacity of the Bulkhead Rod is 4400 lbs. at a 2.5:1 safety factor.



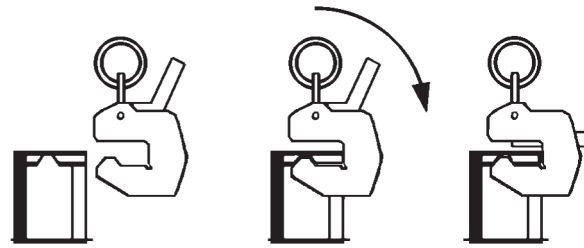
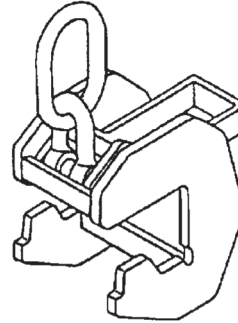
BULKHEAD ROD AND TYPICAL APPLICATION

## Lift Bracket

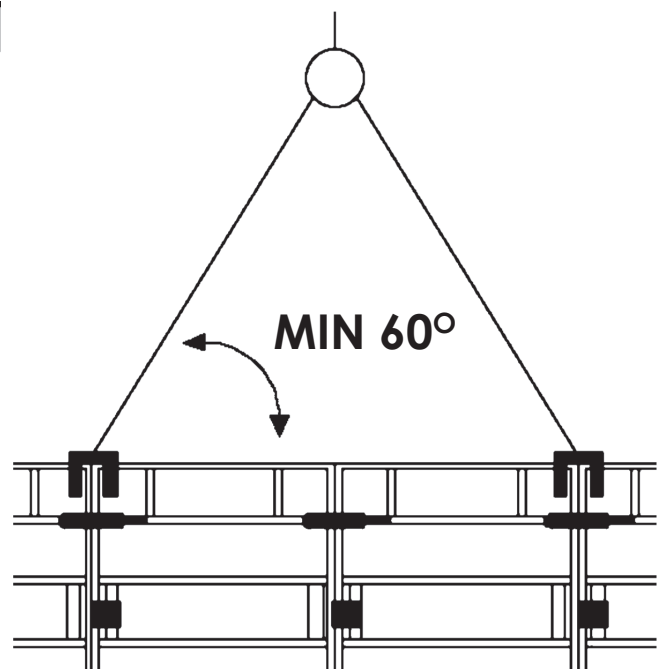
The Alisply™ Lift Bracket is attached by lifting the release handle as shown, sliding the Lift Bracket onto the form and, with a downward motion of the lever, securing the Lifting Bracket to the panel. The Lift Bracket can be attached anywhere along the endrails or siderails.

The safe load rating of the Alisply Lift Bracket is 2200 lbs at a 5:1 safety factor. The number of Lift Brackets required shall be determined by the contractor based upon the weight of the gang to be lifted. The rigging must be designed by the contractor to assure that any one Gang Lifting Bracket is not overloaded. Load equalizer beams are recommended for all but simple two point lifts. A minimum of two lift lines must be used to control movement of the gang form. Do not allow personnel on or directly under any gang form while it is being moved or suspended in air.

**Caution:** Do not initiate breaking a gang form loose from a wall by lifting or tugging backward through the Alisply Lift Bracket.



Lift Bracket and Attachment  
SY 54553



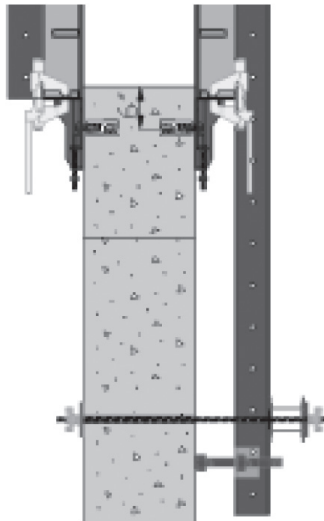
Typical Lift with Two Lines



## Walers

Alisply™ is designed as a waterless forming system, but there are forming situations where a water would be required or may be added as an option:

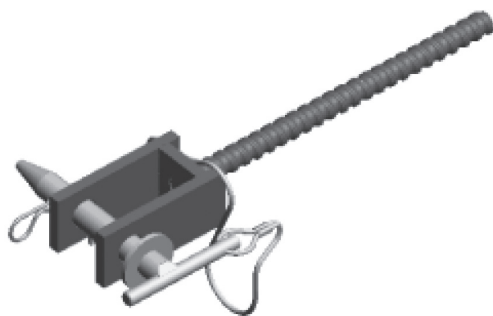
1. If a project is to be poured in multiple lifts, a trailing water could be added to the gang for aligning purposes.



**Typical Trailing Water Application  
for Walls with Multiple Lifts**

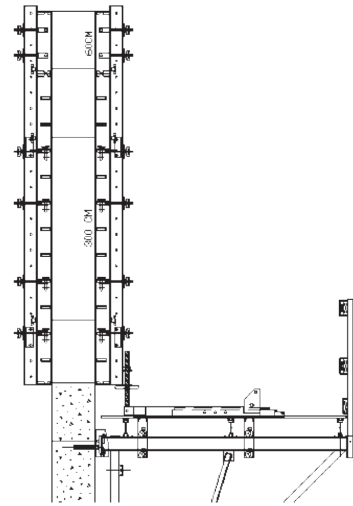
3. Gang heights exceeding 16 feet may require walers. Contact Masons Technical Service for application information.

A Water Connector with plate and wing nut is required to attach the Versiform Water to Alisply.

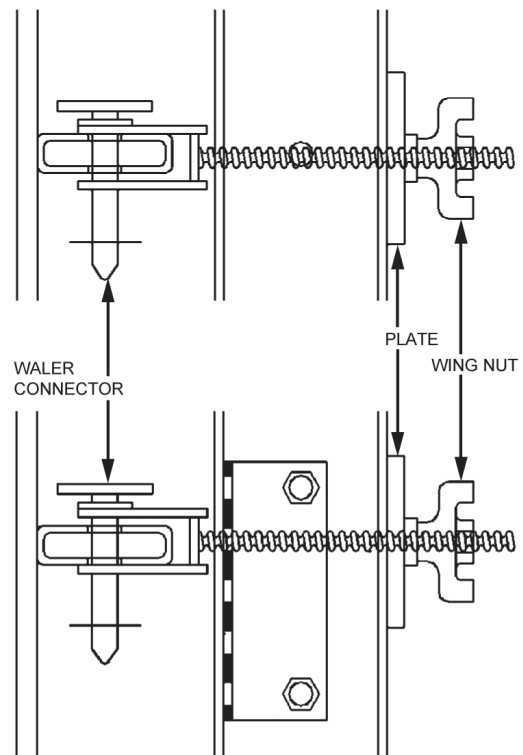


**WALER CONNECTOR**  
SY 722302

2. If Alisply is used with the Sky-Lift™ system, 5" Versiform® Walers must be added to the gang.



**Typical Waler Attachment with Sky-Lift System**



**Typical Waler Connector Applications**

## Wall Ties

Wall Ties and their installation must be in compliance with industry standards and safe practices established by the American Concrete Institute, The American National Standards Institute, The Occupational Safety and Health Administration, and the Scaffolding, Shoring and Forming Institute. Illustrations and capacities of Taper Ties, Euro Thread Bar, Top Tie and She-Bolt Ties are shown below.

### 15MM THREAD BAR TIE

SWL Capacity = 19,100 lbs

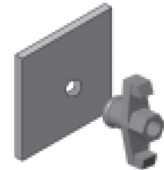
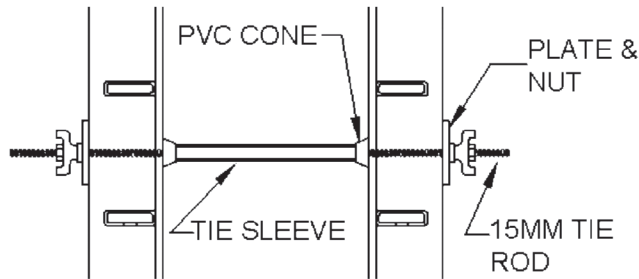


PLATE AND NUT

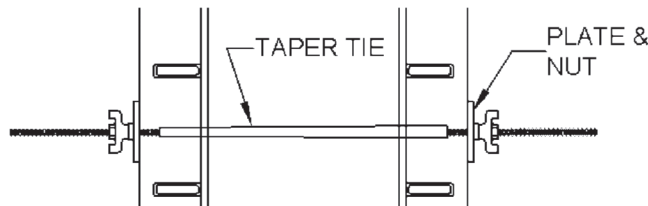
### 15MM DCR BAR TIE

SWL Capacity = 18,400 lbs

### 15 MM TAPER TIE

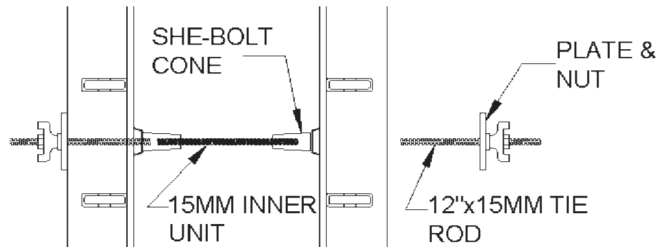
$\frac{5}{8}$ " to  $\frac{3}{4}$ " taper  
(41" & 49" Lengths w/ 11½" threading  
each side + 1" ends)

SWL Capacity = 18,400 lbs



### SHE-BOLT CONE TIE

SWL Capacity = 19,100 lbs

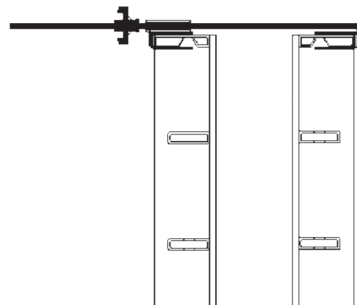


SHE-BOLT CONE

### TOP TIE

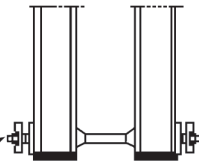
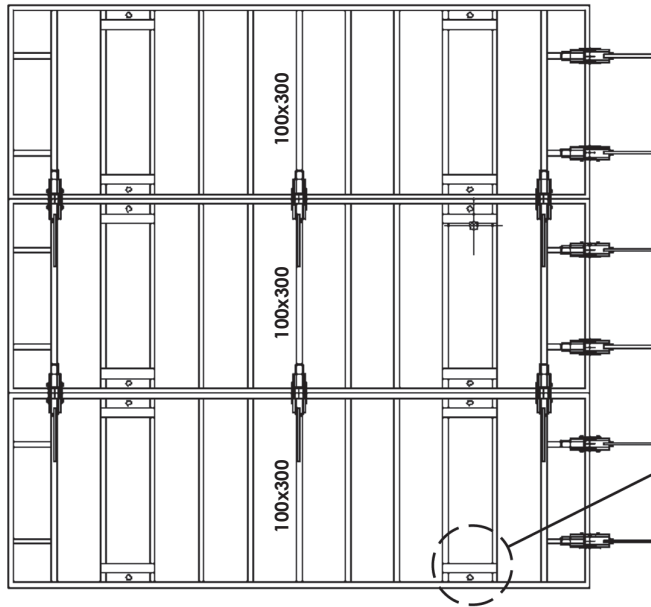
SWL Capacity = 4,134

SY 54500 - 0" TO 18" WALL THICKNESS  
SY 54501 - 18" TO 36" WALL THICKNESS

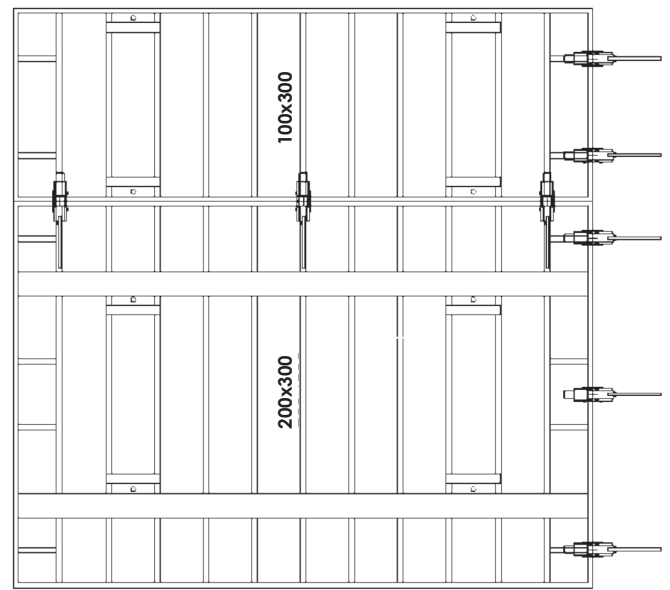
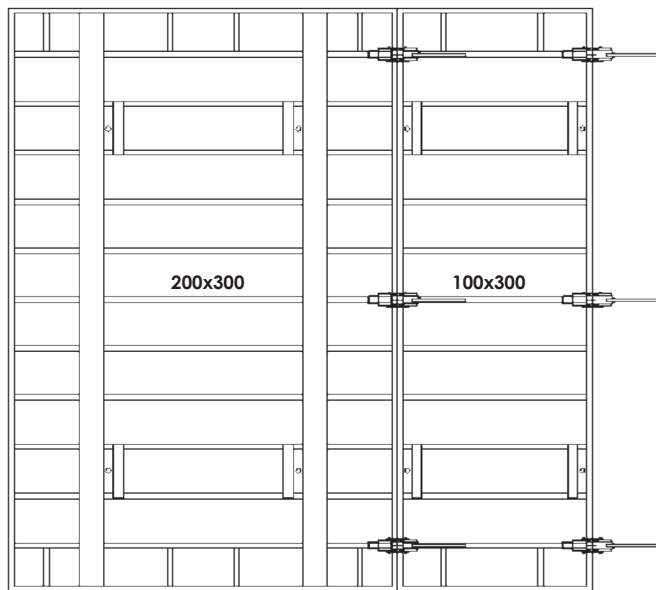


TOP TIE

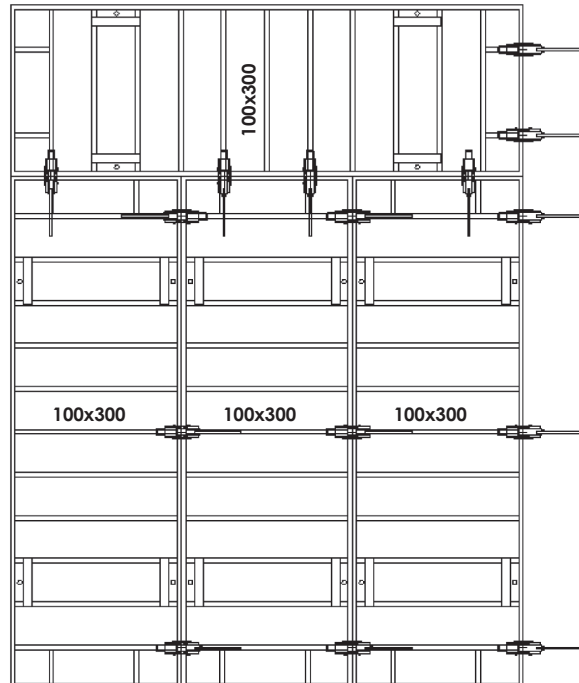
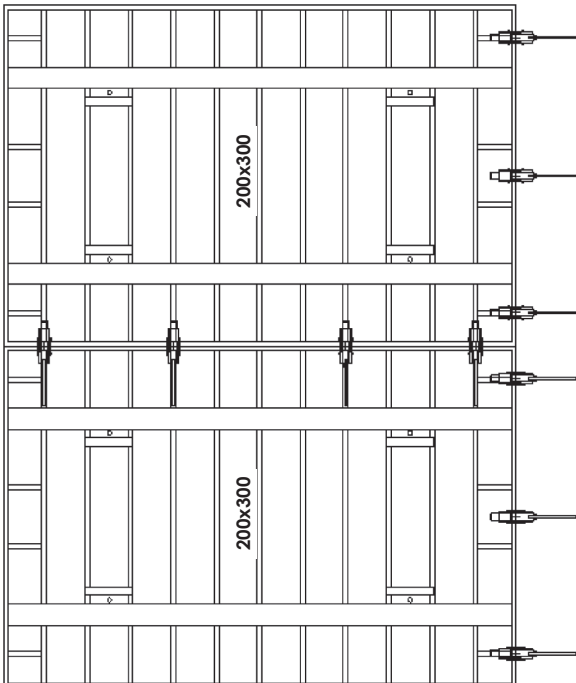
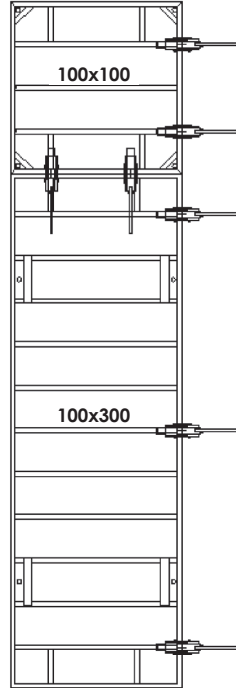
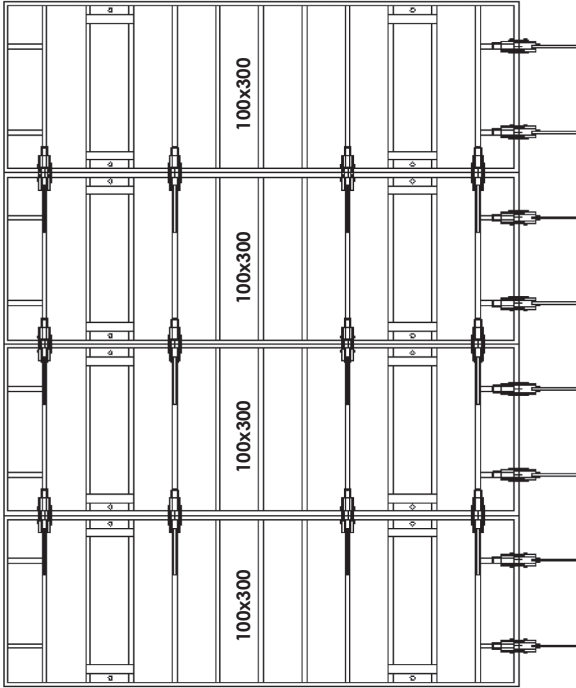
## 3 Meter Height Clamp Distribution



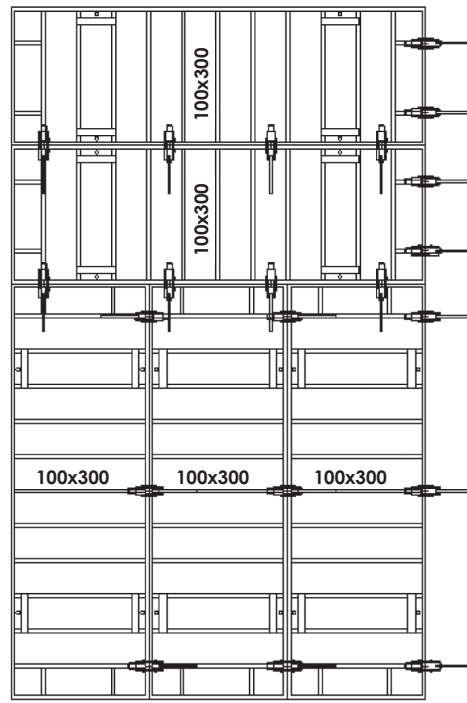
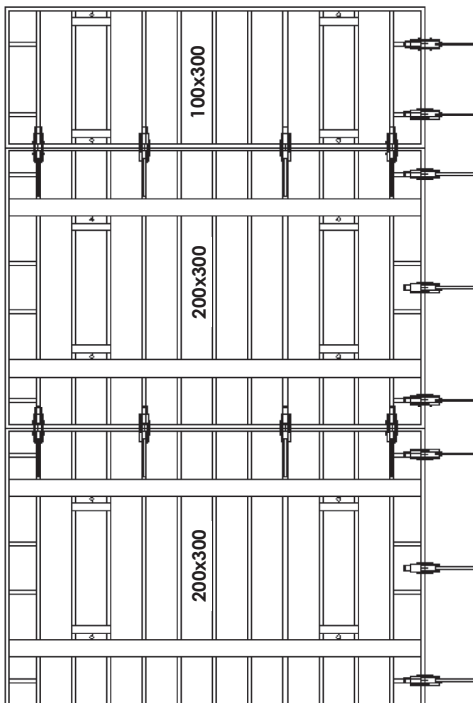
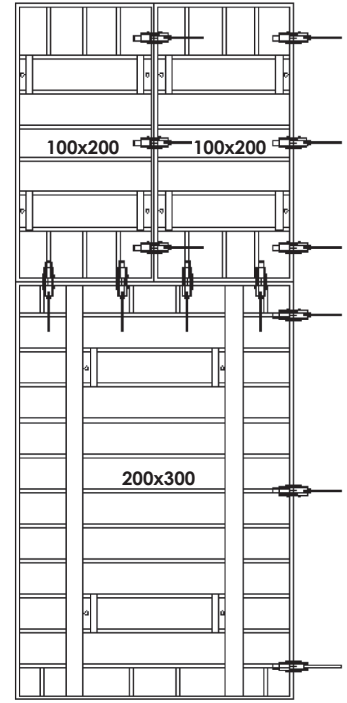
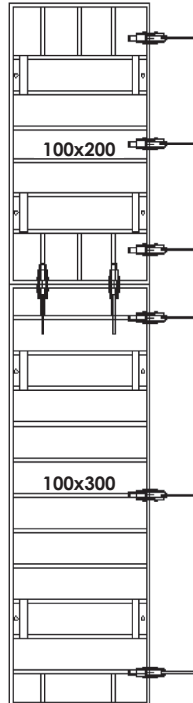
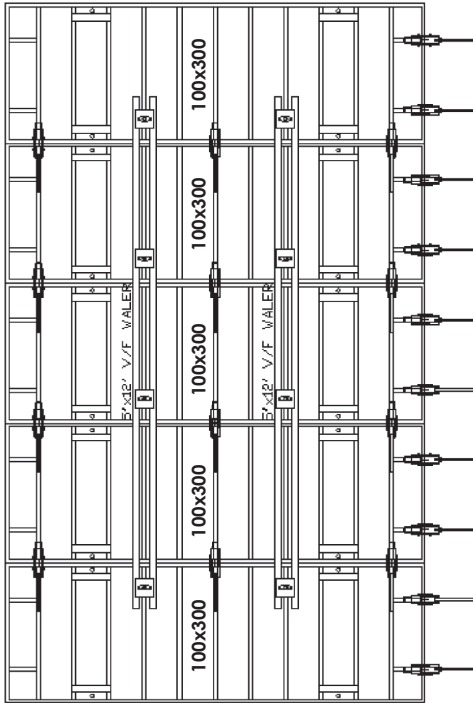
**Note:** A plate is required to prevent tie plate obstruction when Alisply™ forms are laid horizontally.



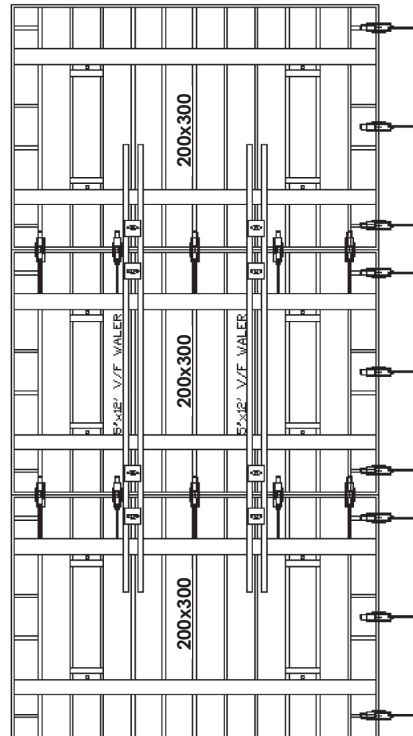
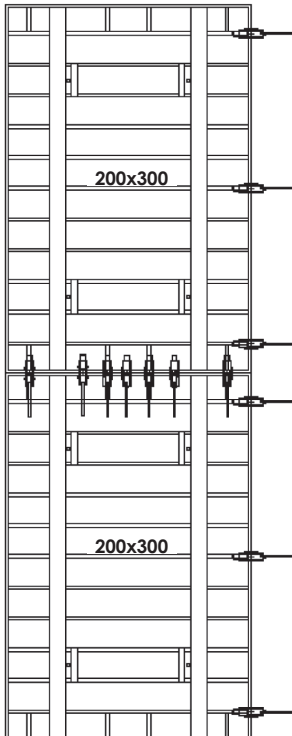
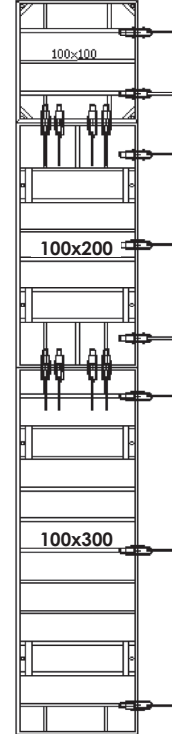
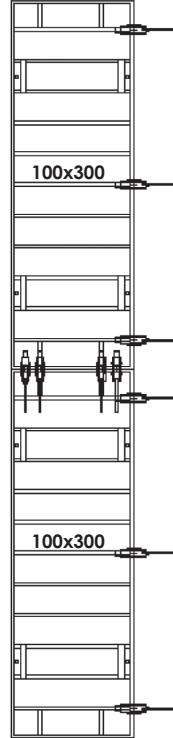
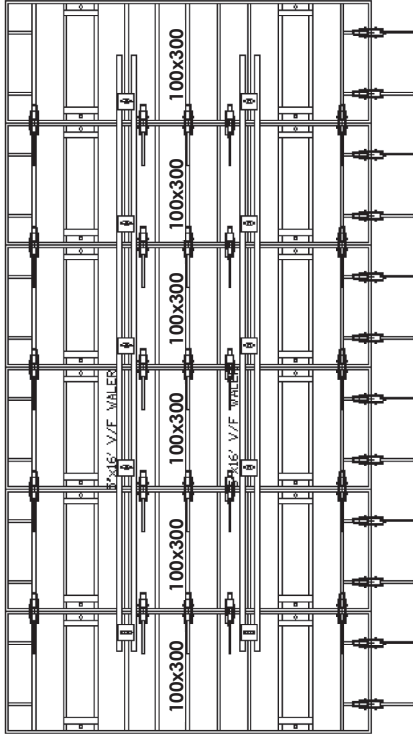
## 4 Meter Height Clamp Distribution



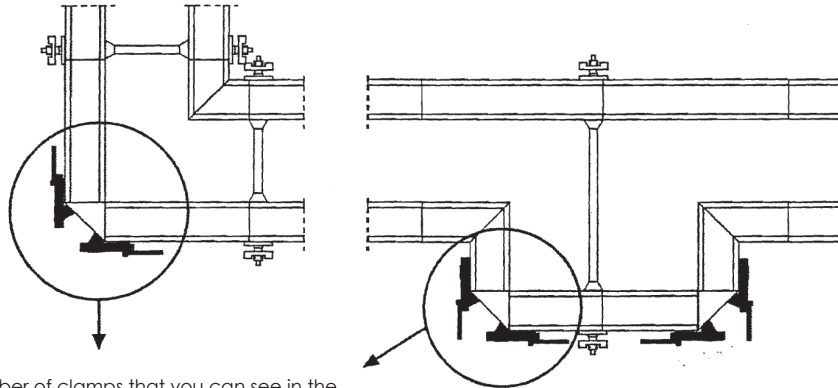
## 5 Meter Height Clamp Distribution



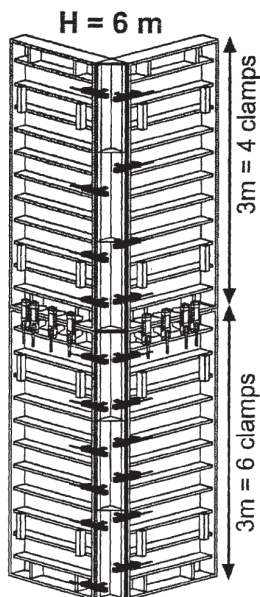
## 6 Meter Height Clamp Distribution



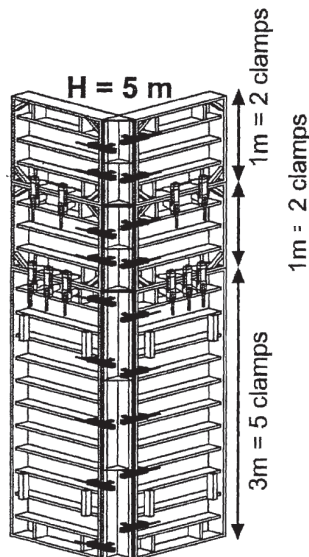
## Position and number of clamps on outside corners



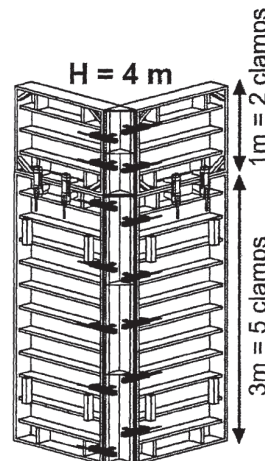
The number of clamps that you can see in the tables correspond to the joints of the outside corners on each panel.



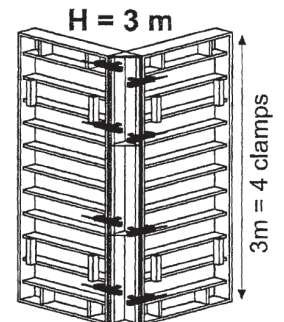
Height = 6m  
Panels = 3+3 m  
Clamps = 6 lower panel  
+ 4 upper panel



Height = 5m  
Panels = 3+1+1 m  
Clamps = 5 lower panel  
+ 2 middle panel  
+ 2 upper panel



Height = 4m  
Panels = 3+1 m  
Clamps = 5 lower panel  
+ 2 upper panel



Height = 3m  
Panels = 3 m  
Clamps = 4 panel

## VERTICAL FORMING SYSTEMS

### Steel-Ply® Features

Steel-Ply® is today's superior form. The reinforced, high-carbon steel frame means edges stay straight and corners stay square, so panels are quickly aligned and easily stacked. Built-in handles make moving and placing the panels easy, too.

The long-lasting plywood facing have a heavy-duty overlay and aluminum-filled polyurethane edge sealer to keep out moisture and prevent delamination and swelling. When needed, refacing is simple and inexpensive.

All these factors combine to create a 1,000 psf rated system that will save you time in setup, last longer and give you better results.

### Panels and Fillers

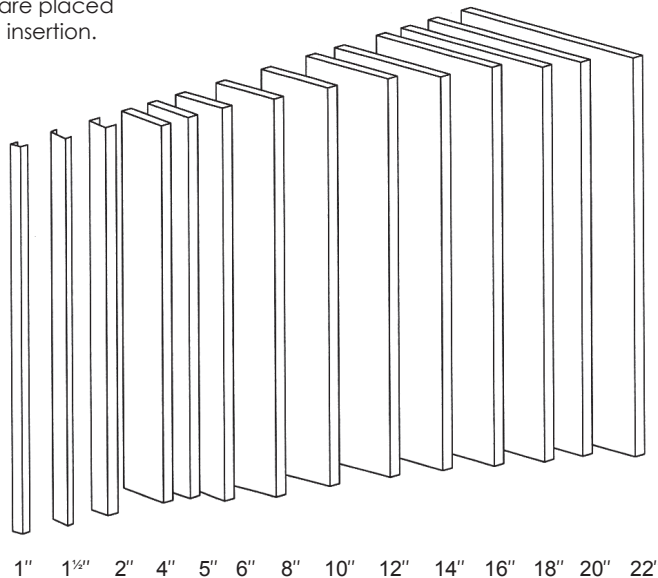
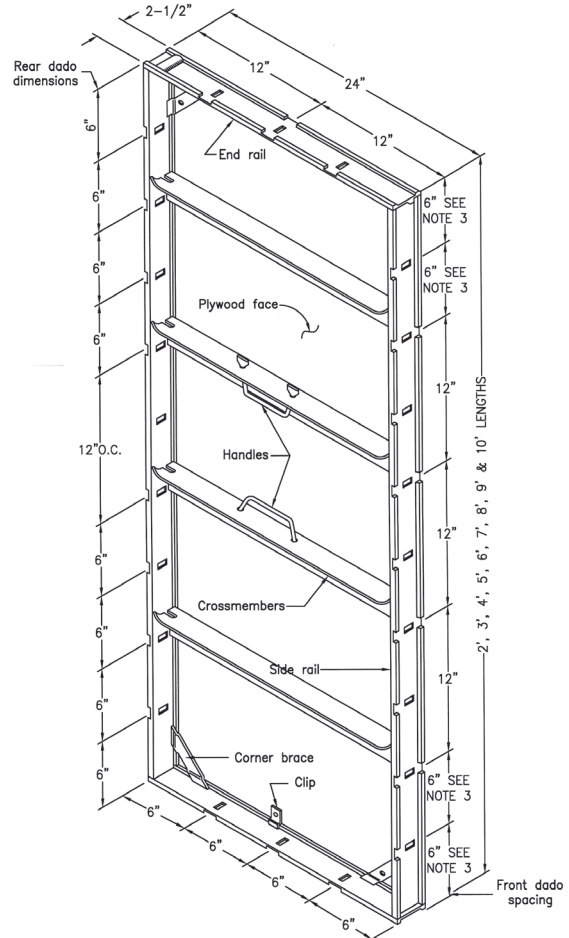
There are 80 sizes available for fast erection of virtually any layout by combining panel and filler sizes and erecting vertically or horizontally. This eliminates the sawing, drilling, measuring and nailing common with job-built forming. Quick and easy handling, no tops, bottoms, lefts or rights makes for improved labor productivity.

Steel-Ply® owners commonly report 200 to 300 reuses from panels and filler before re-ply is necessary.

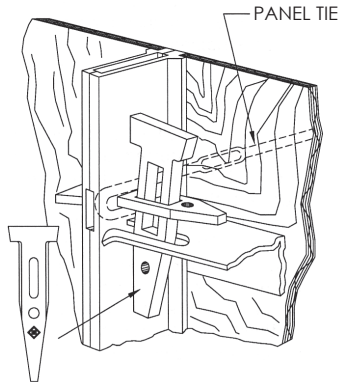
Special 1/2" HDO Plywood is edge-and surface-sealed to prevent deterioration and to prolong form life.

Durable, high carbon steel frames are reinforced for rigidity and strength to surround and protect the plywood.

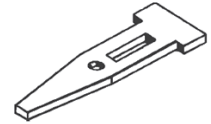
No measuring or drilling for ties-dado slots are placed 12" on center and 6" from each end for tie insertion.



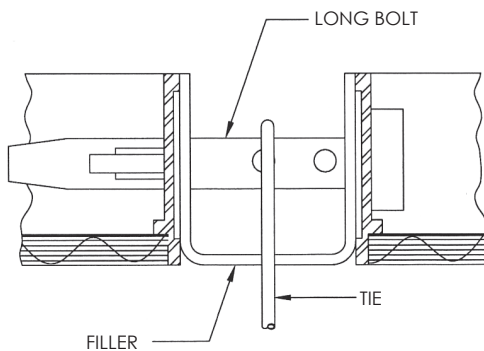




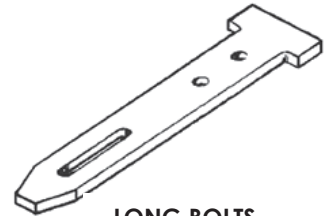
**Wedge Bolt** connections enable unskilled laborers to become consistently productive. No special tools are required, just a hammer. Wedge Bolts connect panels and capture ties at the same time.



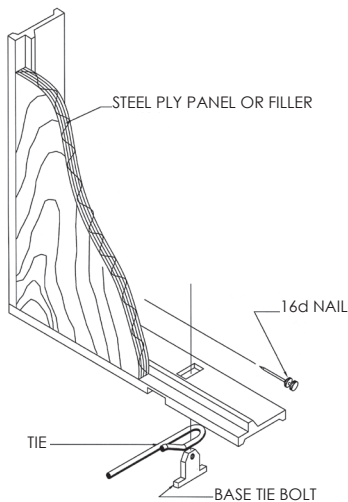
**WEDGE BOLTS**  
SY 60058



The **Long Bolt** similar to the Wedge Bolt, is used to connect the 1", 1½" and 2" steel filler to adjust panels and filler.



**LONG BOLTS**  
SY 60052



SY 60087

With a shorter length and slot than a Wedge Bolt, the **Short Bolt** can be used to attach the pilaster form to a Steel-Ply form.

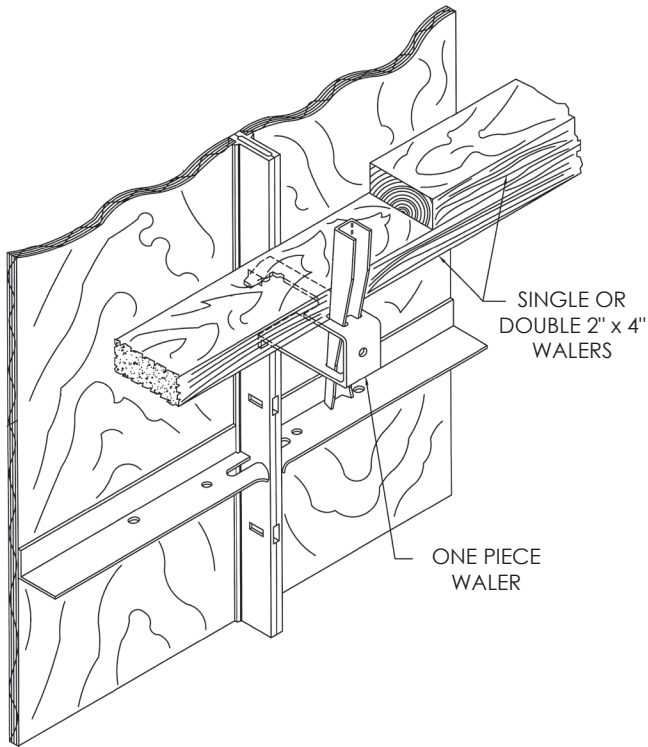


**SHORT BOLTS**  
SY 60049

The **Base Tie Bolt** secures either a panel tie or a flat tie to an end rail or a side rail (1) when resting on a footing, or (2) where panels butt against existing vertical surface.

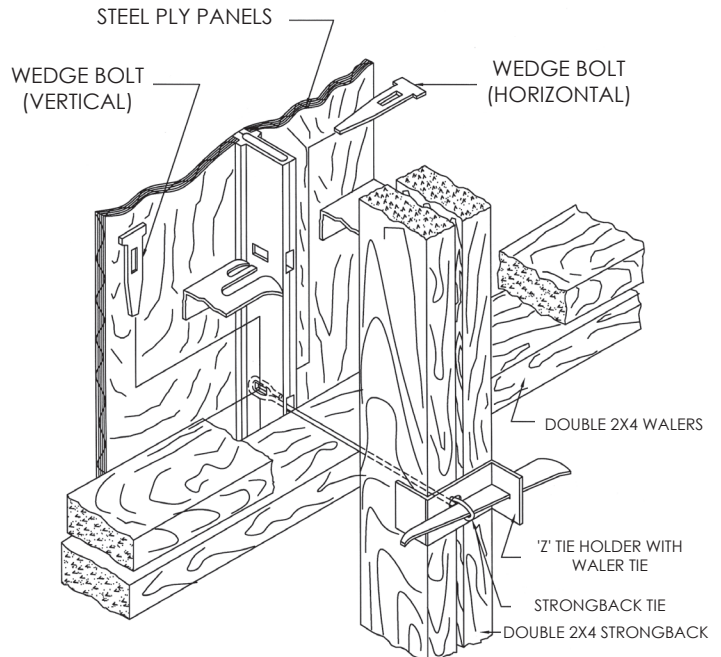
## Waler Attachment

Standard 2" x 4" or 2" x 6" lumber can be used as walers for the Steel-Ply® Forming System. With specially designed hardware, the walers are quickly fastened to bring form work into alignment. Only one row of walers is required per tier of forms for handset applications.



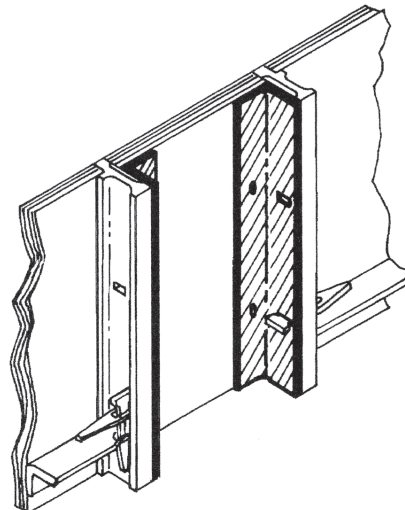
## Strongback Attachment

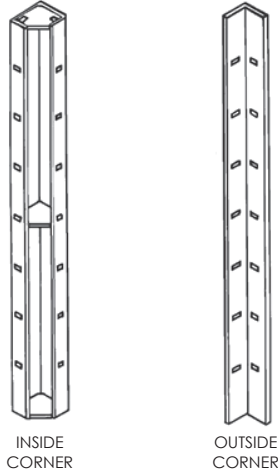
Additional tiers of forms will require strongbacks for vertical alignment of the form work. Strongbacks are required only on one side of the forms for handset hardware to make stacking easy.



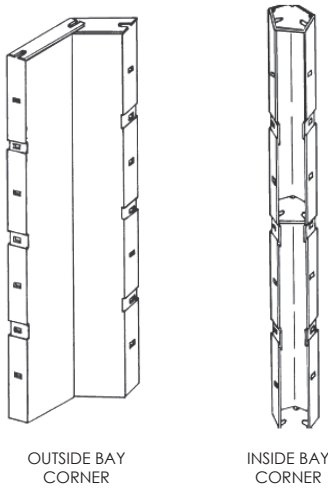
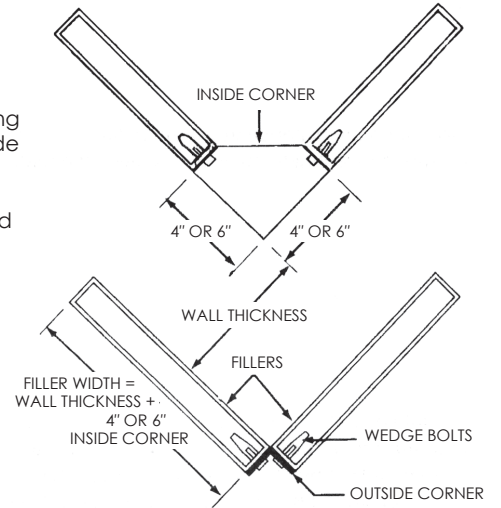
## Job Built Filler

Filling Angles provide a means to construct a custom size filler of 3/4" plywood that can be connected to side rails of adjoining forms.

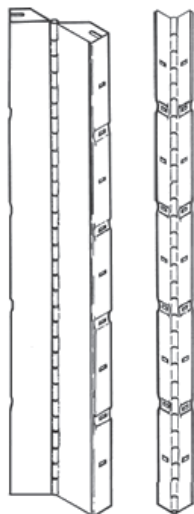
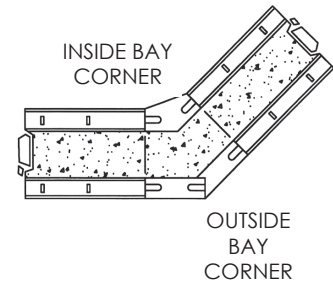




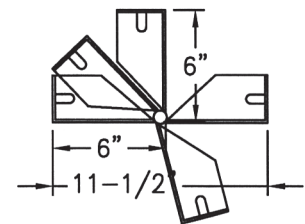
**Inside and Outside Corners**  
Reusable steel corners, built to precise tolerances, minimize errors by eliminating measures, sawing and fitting. Both Inside and Outside Corners are available in five lengths and can be set with either end up or down to reduce the time and labor required.



**Bay Corners**  
Standard 135 Inside and Outside Bay Corners simplify forming. Attach them to Steel-Ply® panels and fillers with Wedge Bolts for quick and easy assembly. Inside and Outside Bay Corners are available in five standard lengths.



**Hinged Corners**  
In most wall applications, Inside Hinged Corners are used opposite Outside Hinged Corners to achieve the desired angle. The Inside Hinged Corner may be used to form inside corners as narrow as 45°. The Outside Hinged Corner will form outside corners from 5° to 135°. Filler sizes needed to make up dimensions will vary depending on the angle being formed.

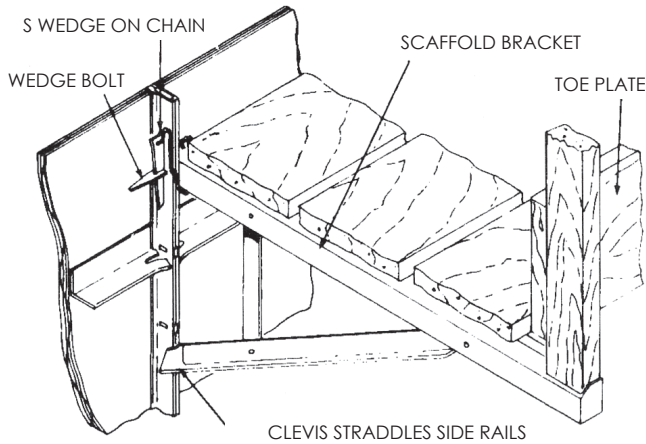


## VERTICAL FORMING SYSTEMS

### Scaffold Bracket

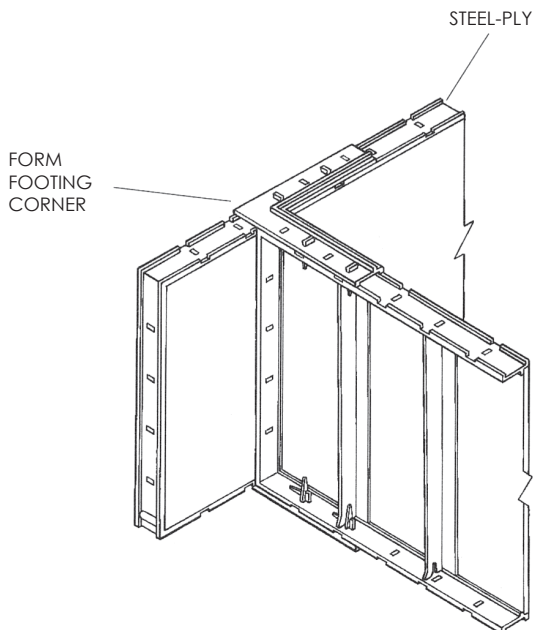
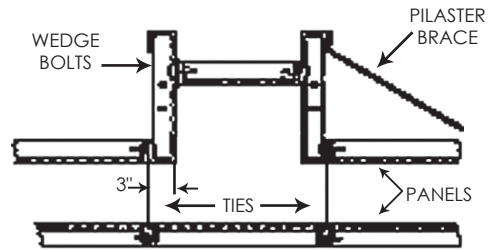
The Steel-Ply® Scaffold Bracket assembly provides a safe access platform for above-grade applications. The Scaffold Bracket is quickly attached to form work with a Wedge Bolt and the attached S-Wedge. Scaffold planking, toe boards and guard rails (by contractor) complete the work platform.

**Note: Do not use the Scaffold Bracket to support concrete soffit forms or for temporary storage of equipment and materials.**



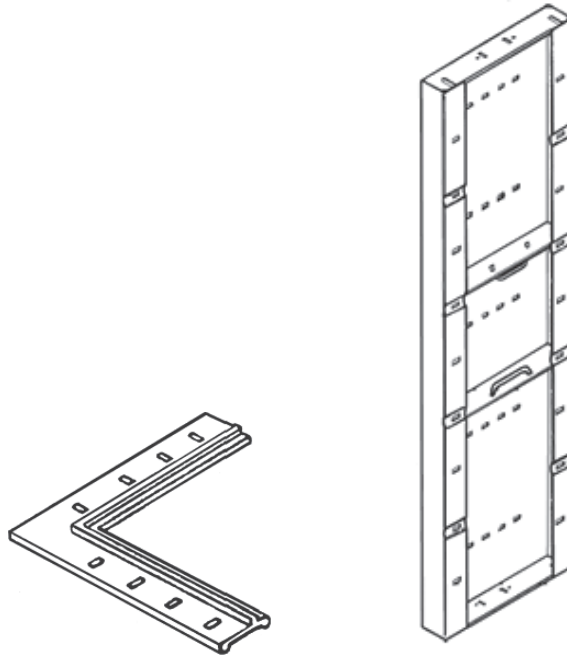
### Pilaster Forms

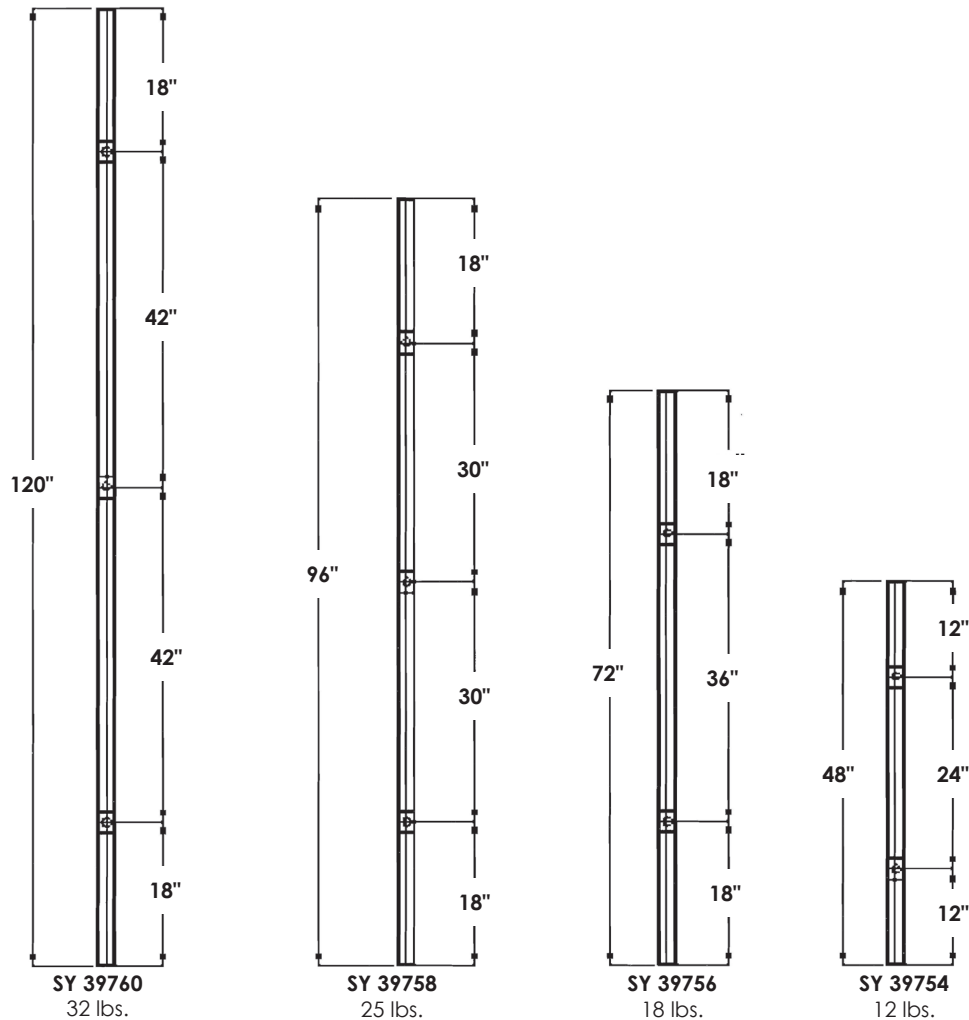
Pilaster of less than 12 inches are formed quickly and easily using the Steel-Ply® Forming System and Pilaster Forms. The Pilaster Form eliminates the need for using inside and outside corners with specific filler sizes. Pilaster Forms can be used to form concrete pilasters from 1 to 12 inches deep in 1 inch increments.



### Footing Corner Bracket

Footing, pad and slab forming with Steel-Ply is made easy with the Footing Corner Bracket and the Stake Plate. Two Footing Corner Brackets at each corner, one on top and one on the bottom hold the panels firmly, and at virtually any dimension that your job requires (2" increments). The Stake Plates are then positioned along the top edge of the Steel-Ply panels as needed for steel stakes to hold the forms in place against the concrete pressure. Either 3/4" round or I-beam steel stakes can be used with the Stake Plate. The Stake Plates can be located midway between Steel-Ply crossmembers and end rails to provide access for a stake puller.





**The Steel Ply Gang Filler is designed to increase productivity by reducing the number of ties required in conventional gangforming.**

This 2" steel filler features preset tie hole locations in the face to accept 15 mm Taper Ties (3/4" to 5/8"), She Bolts or Tie Rods with 15 mm Tie Nuts to secure the tie.

The Steel Ply Gang Filler is placed between each Steel Ply panel and connected with a 3/4" x 4" flat coil bolt and nut (two connections are required per filler).

The Steel Ply Gang Filler is available in four lengths: 4', 6', 8', and 10'. Fillers can be stacked for gangs taller than 10'.

All standard accessories are compatible with the gang filler, including the Double-Duty Lift Bracket, the One-Piece Waler, Walkway Brackets and Turnbuckles.

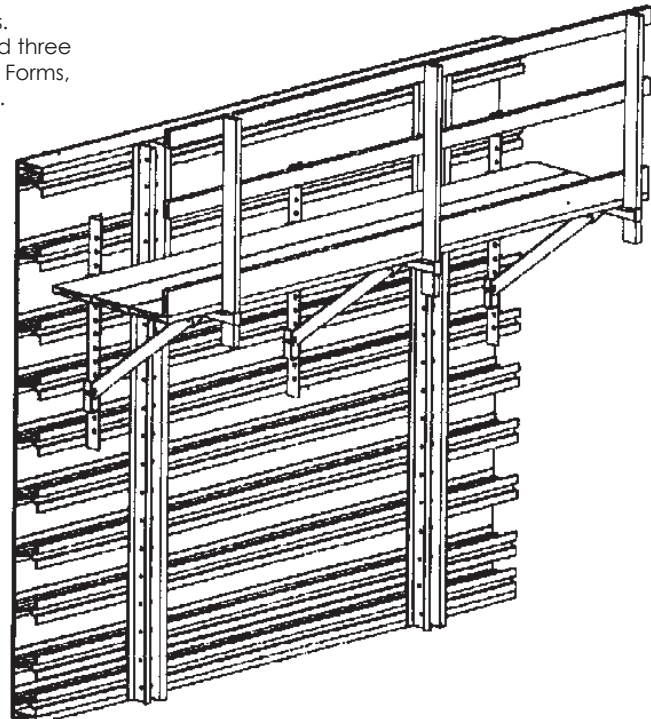
# ALUMINUM BEAM GANGS



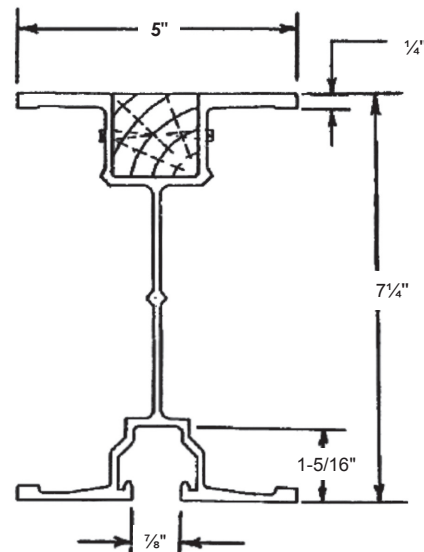
## VERTICAL FORMING SYSTEMS

**Aluminum Beam Gang Form System** offers unsurpassed forming versatility and a host of unique features, benefits and advantages. At the heart of this system is our computer-optimized aluminum beam which features an extremely high strength-to-weight ratio. The Aluminum Beams or Joists are fastened to steel or aluminum walers by means of our unique beam attachment clamps.

A suitable plywood is attached to the resulting rigid, compact and lightweight lattice to create the basic gang form. The use of any of the Masons accessories enhances the versatility of the Aluminum Beam Gang Form to achieve a wide range of forming conditions. Because Masons has several aluminum beam and waler sizes and three capacities of ties available for use on the Aluminum Beam Gang Forms, a wide variety of beam spacings and tie patterns can be utilized.



No.	Length	Wt (lbs)
SY 36803	3'-0"	13.8
SY 36804	4'-0"	18.4
SY 36805	5'-0"	23.0
SY 36806	6'-0"	27.6
SY 36807	7'-0"	32.2
SY 36808	8'-0"	36.8
SY 36809	9'-0"	41.4
SY 36810	10'-0"	46.0
SY 36811	11'-0"	50.6
SY 36812	12'-0"	55.2
SY 36813	13'-0"	59.8
SY 36814	14'-0"	64.4
SY 36815	15'-0"	69.0
SY 36816	16'-0"	73.6
SY 36818	18'-0"	82.8
SY 36820	20'-0"	92.0
SY 36822	22'-0"	101.2
SY 36824	24'-0"	110.4
SY 36826	26'-0"	119.6
SY 36828	28'-0"	128.8



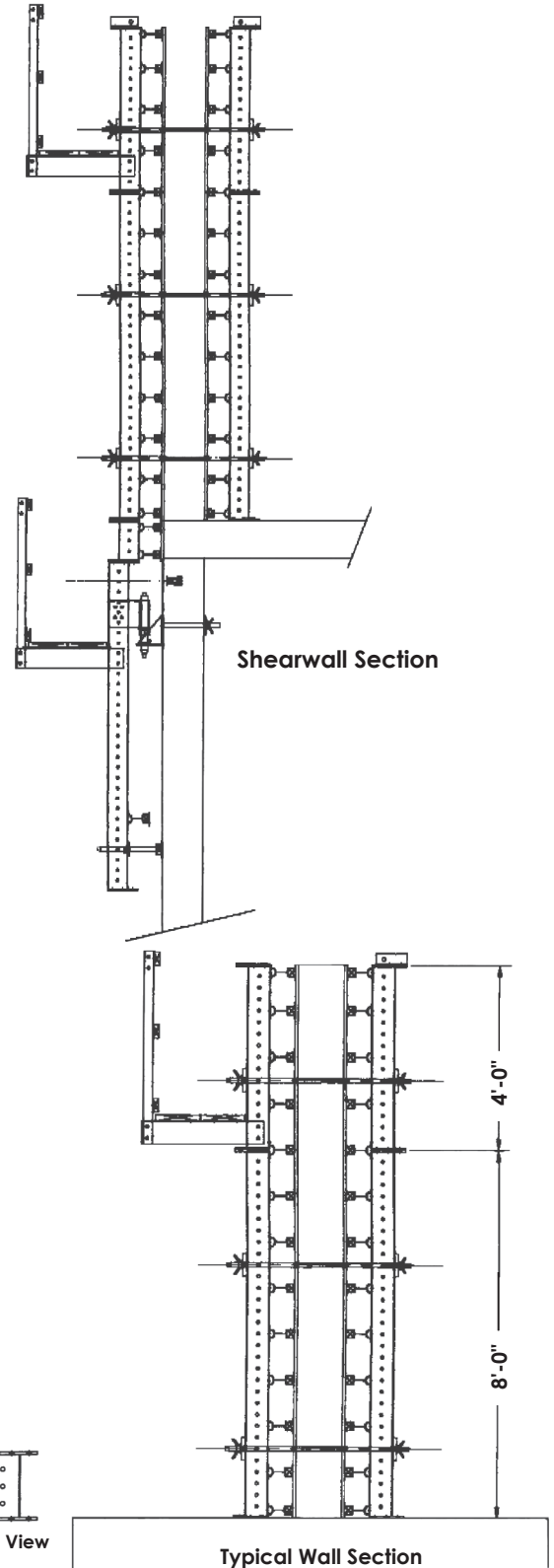
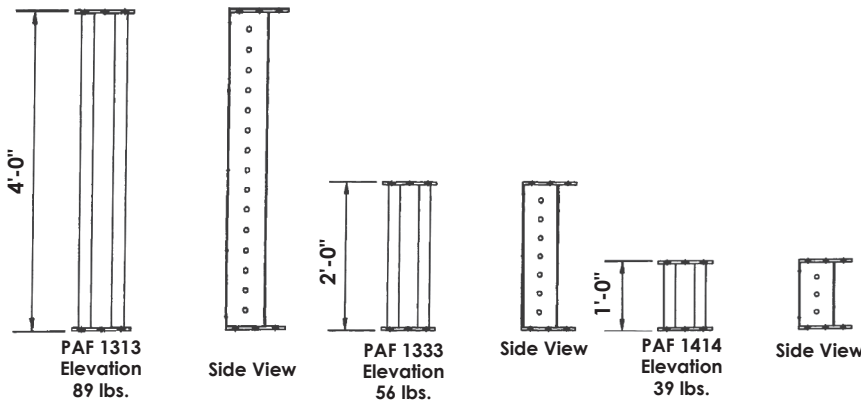
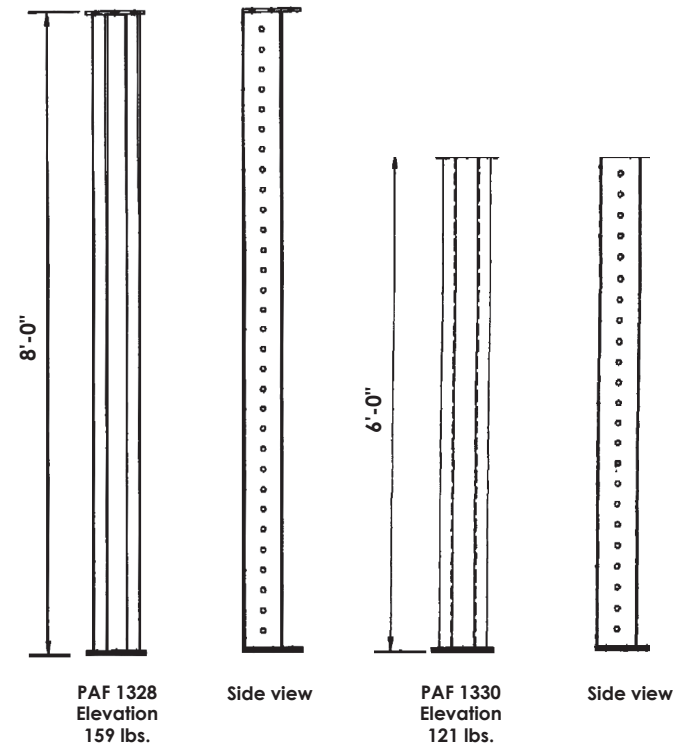
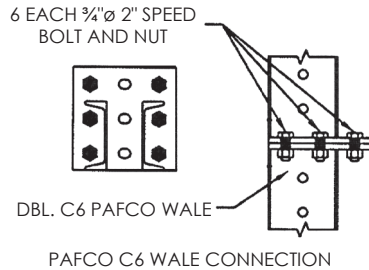


# WONDERWALE SYSTEM

M A S C O . N E T

VERTICAL FORMING SYSTEMS

The Wonderwale system bridges the gap between all-wood forms and plate girder type steel panels by combining the best of both systems into one modular package. Wonderwale merges the versatility of wood, its lighter weight per square foot and its simplicity of onsite modification, with large tie spacing, modularity and ease of accessory attachment of steel forms. The typical wonderwale panel will weigh 50% less than the steel panel it replaces and will be capable of handling the same pour pressure.



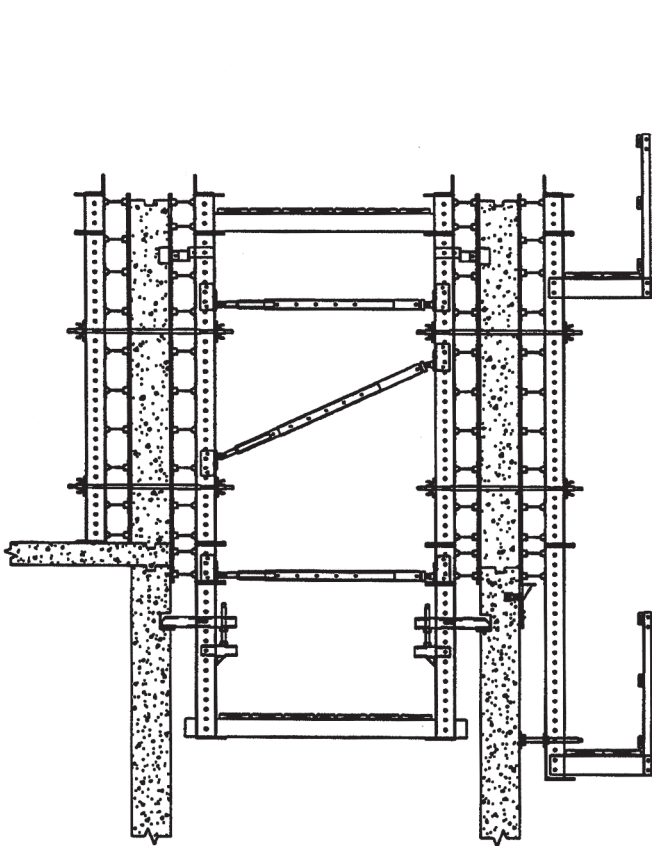
**MASONS SUPPLY COMPANY**

Oregon (800) 537-3407 ♦ Washington (800) 537-6216

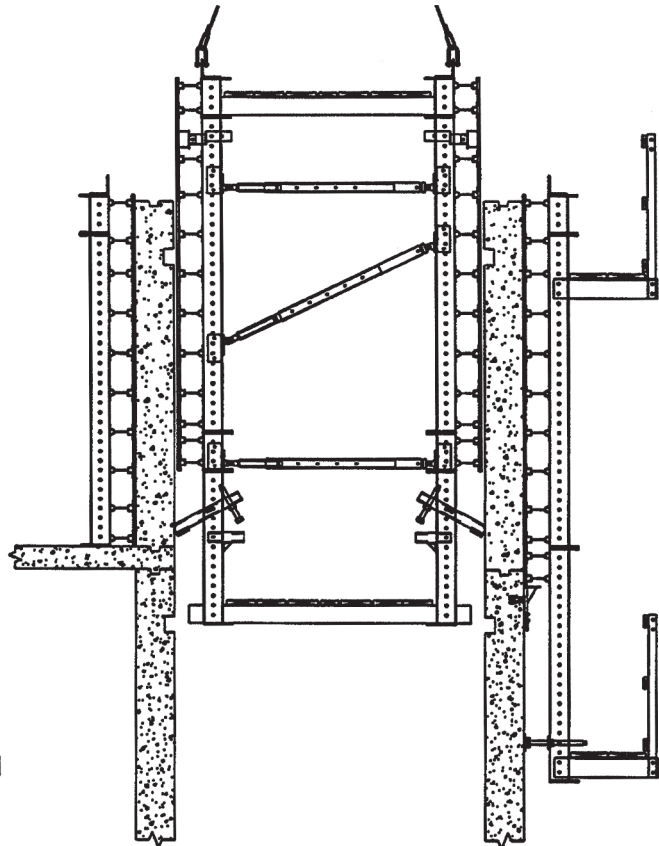
29

# ELEVATOR SHAFT FORMING

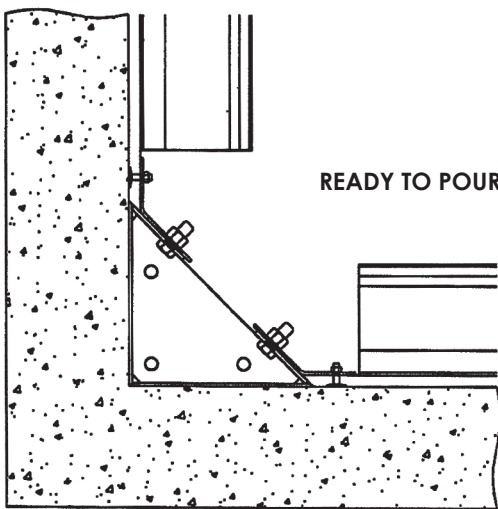
VERTICAL FORMING SYSTEMS



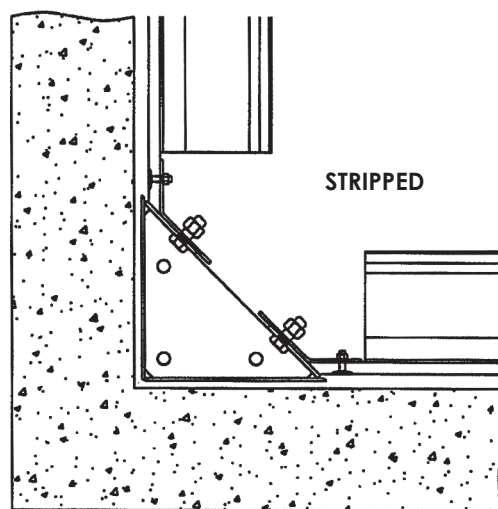
READY TO POUR POSITION



STRIP AND RAISED POSITION



READY TO POUR



STRIPPED



**Flex-Form®** gives you all the strength and versatility you need. Has 4" deep vertical stiffeners with 3/16" steel skin plate to provide a 1000 psf system that handles any radius 5' and over.

### Pre-Rolled Steel Ribs Set the Radius

Rolled top and bottom ribs bolt to flexible panels to shape and securely hold the form in the radius you require. Panels conform precisely to the radius of the ribs - this design assures that you'll get the correct radius every time. And with a straight rib, you can produce a straight wall if needed.

### Perfectly Smooth Concrete

Because the steel skin plate flexes to form the desired arc, there's no chording effect in the poured concrete surface. Conventional panel systems produce form joint marks that require grinding and rubbing. Flex-Form® produces smooth concrete surfaces that require little or no finishing labor.

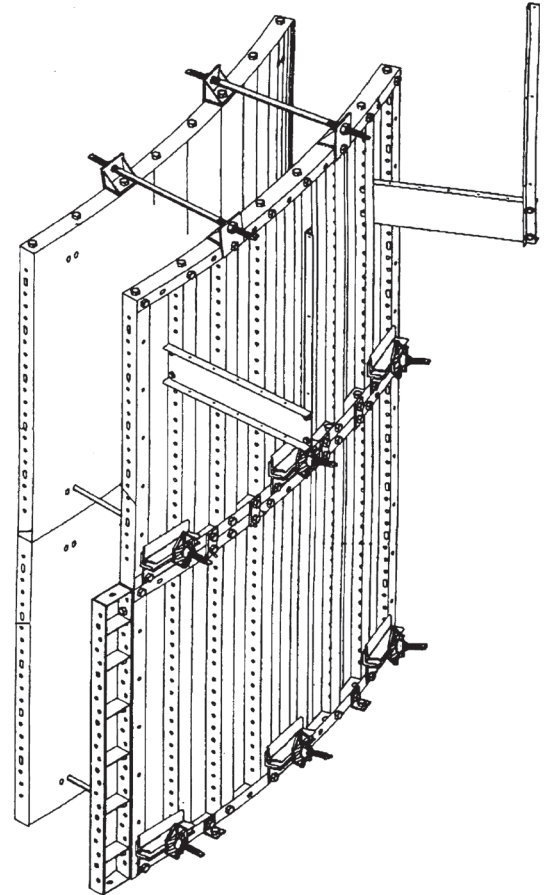
### Fast and Simple Erection

Panels are delivered to the job site pre-assembled to your required radius. There are no expensive templates to build; no need to torque bolts; just begin erection labor.

If the job requires more than one radius, simply order extra rolled ribs for use with the same forms. Change over is quick and simple - done on the site by job personnel. The new rolled ribs will automatically set the new radius to the forms; this will speed assembly and increase forming productivity.

### Stacking Panels

Panels can be stacked by bolting the top and bottom ribs of adjacent forms with 3/4" fit-up bolts and nuts. Steel walkway brackets may also be bolted to the vertical stiffeners to provide vertical alignment. Pipe Form Aligners bolt directly to vertical stiffeners as well.



### Specifications

<b>Skin plate thickness:</b>	3/16"
<b>Pressure rating:</b>	1,000 psf
<b>Panel/filler heights:</b>	2', 3', 4', 5', & 6'
<b>Width:</b>	Panels - 4', 8', & 12' Fillers - 4", 6" & 8"
<b>Approximate Weight:</b>	20 psf (assembled)
<b>Thickness of panel:</b>	4 1/4"
<b>Minimum radius:</b>	5'

# ADJUSTABLE RADIUS WALER

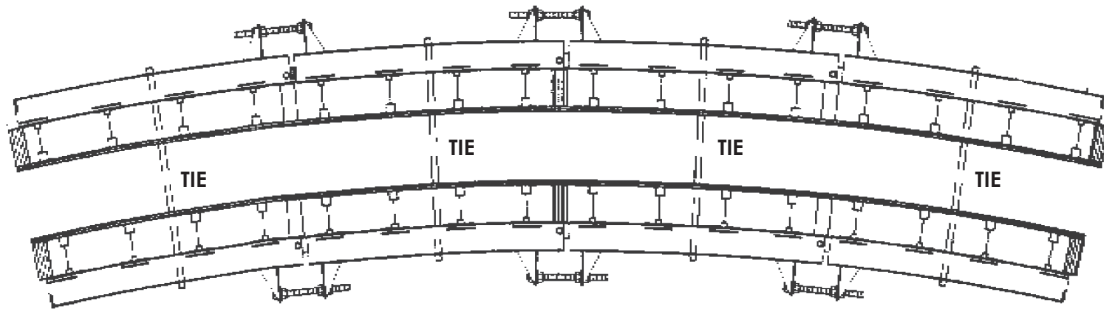
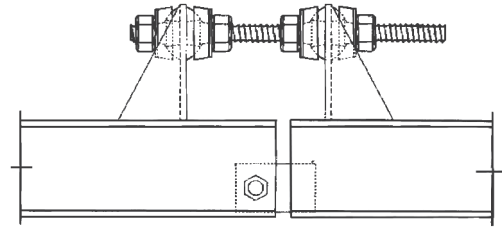
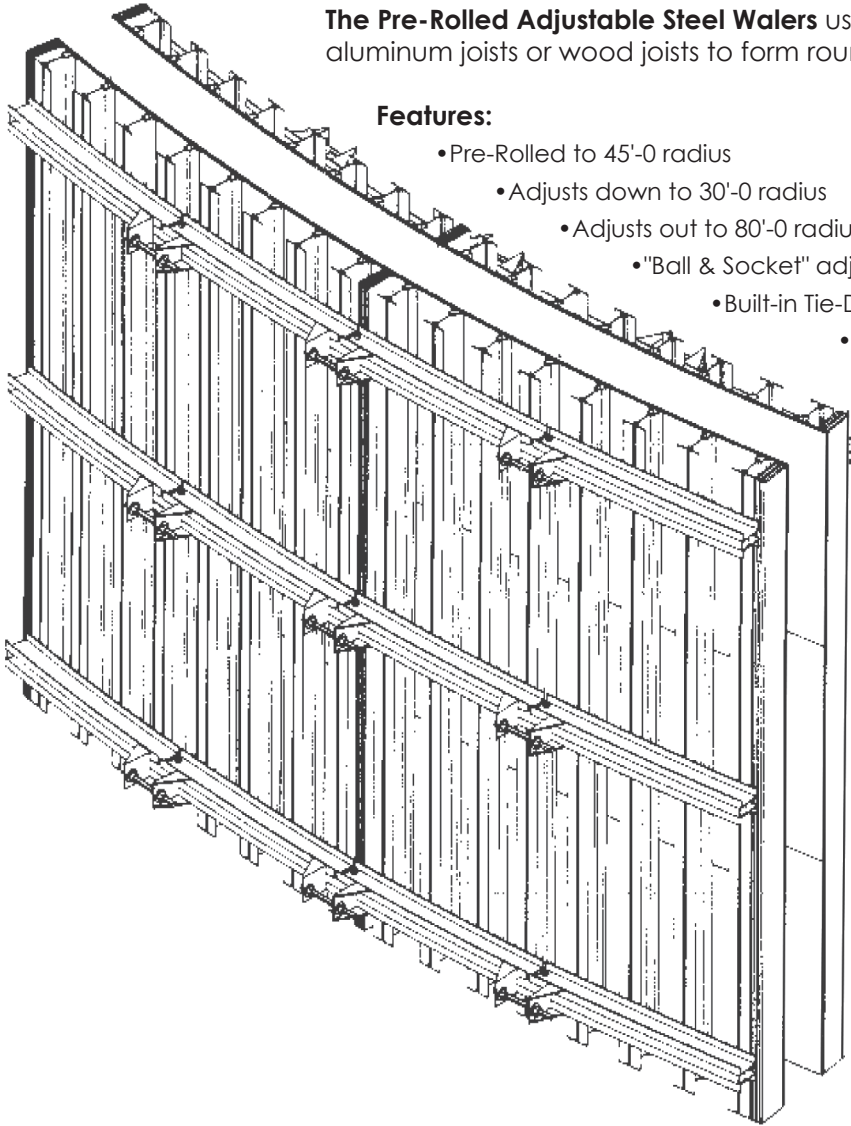


VERTICAL FORMING SYSTEMS

The Pre-Rolled Adjustable Steel Walers used horizontally with vertical aluminum joists or wood joists to form round tanks and curved walls.

**Features:**

- Pre-Rolled to 45'-0 radius
- Adjusts down to 30'-0 radius
- Adjusts out to 80'-0 radius
- "Ball & Socket" adjustable
- Built-in Tie-Down Bars
- All Hardware Attached

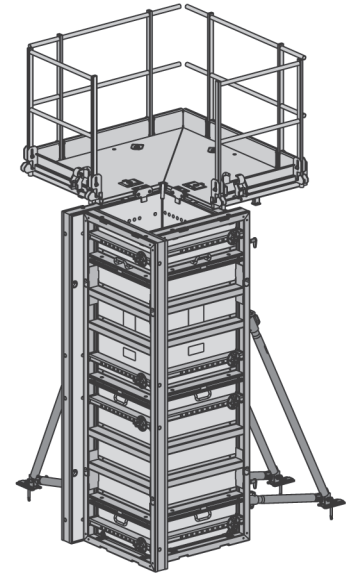


## FRAMAX XLIFE

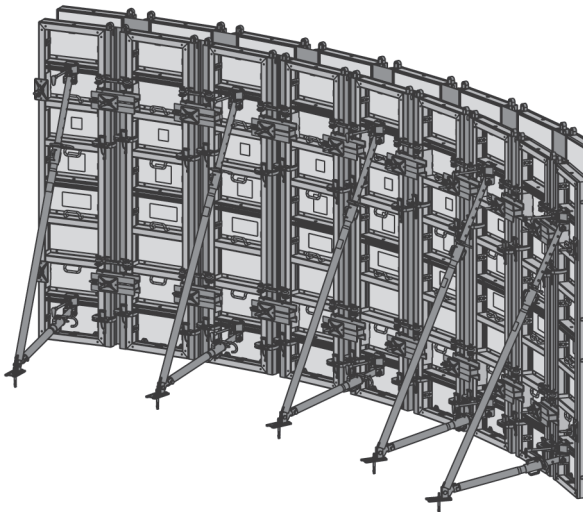
Framax Xlife is a framed formwork system that was developed specially to meet US formwork requirements. It is used for gang forming using the crane. Framax Xlife assembles using only a hammer and two lightweight clamps. Gang assembly can easily approach 100 sq. ft. per man-hour.

Xlife plywood gives an excellent finish and lasts two times longer than all birch plywood. Modular and symmetrical panels ensure the best possible utilization of formwork. The special pattern of holes makes these panels ideal for the economical forming of outside corners, wall connections, bulkheads & columns.

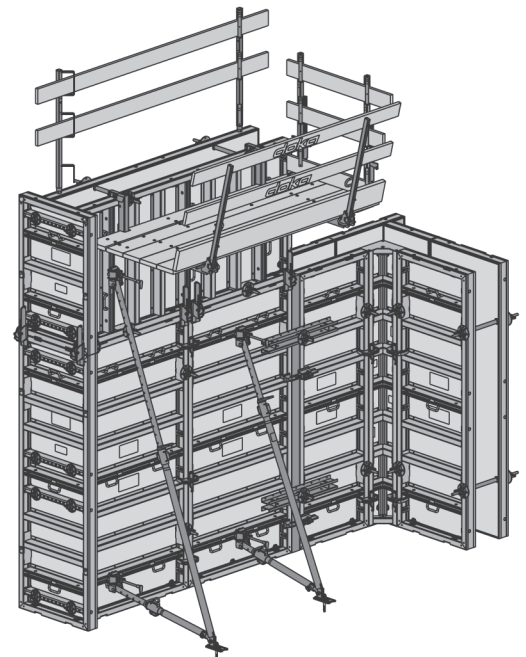
### COLUMN FORMWORK



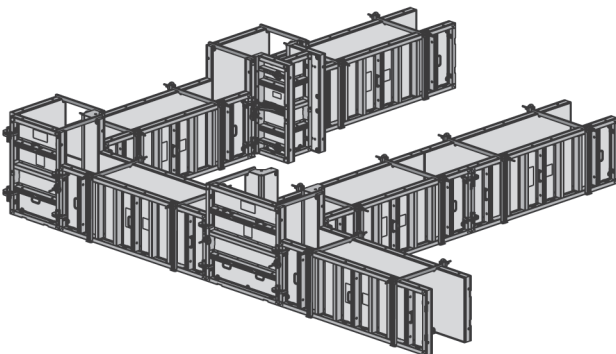
### CIRCULAR FORMWORK



### WALL FORMWORK



### FOOTING AND GRADE BEAM FORMWORK



# FRAMAX X-LIFE

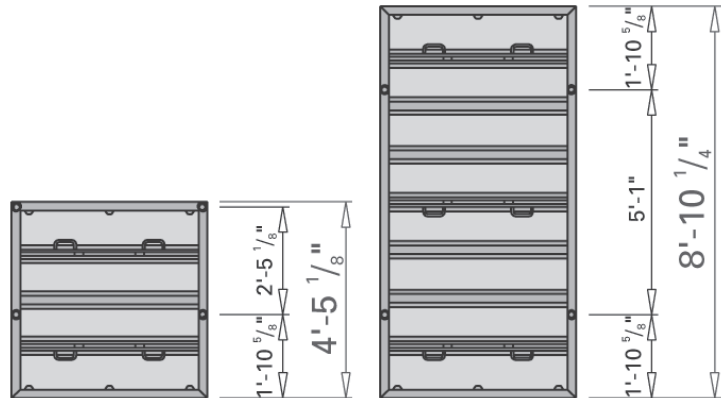


## VERTICAL FORMING SYSTEMS

### WIDTHS OF PANELS

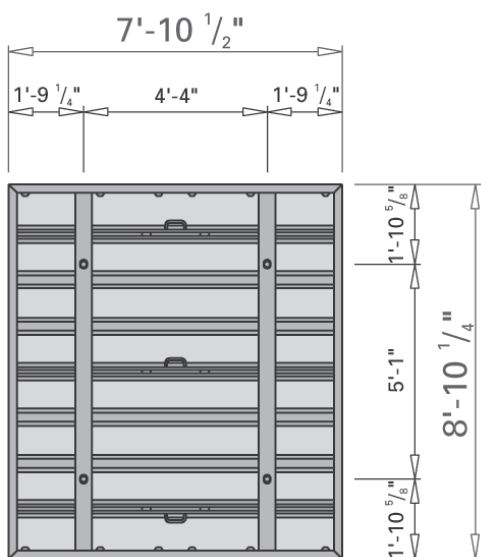


### HEIGHTS OF PANELS

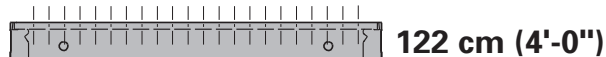


### EXTRA LARGE PANEL

For large gang form units or for use with support frames, fewer connectors. The panel can be used upright and facing each other. The large panel is ideal when less joints are desired.

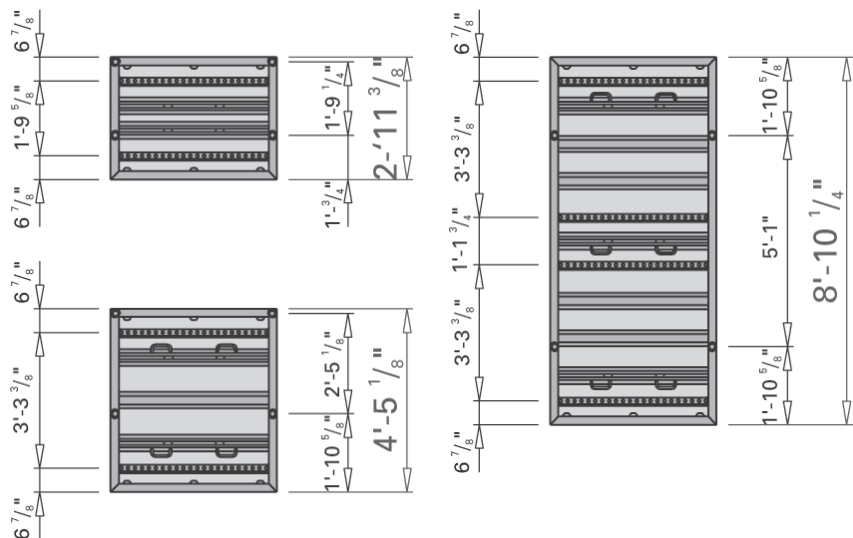


### WIDTHS OF PANELS



### FRAMAX XLIFE UNIVERSAL PANELS

The universal panel SCC permits self-compacting concrete (SCC) to be pumped into the formwork from below.

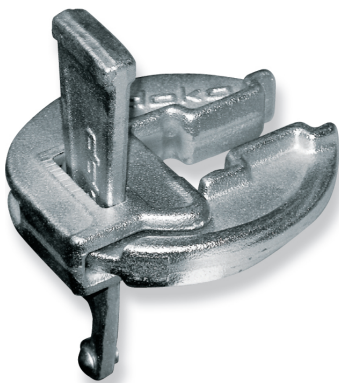


## FRAMI

Frami is a lightweight clamp system designed in feet and inches. It is comprised of high-performance safety and workplace accessories. It is the complete system for walls, columns and footings. The Frami panels are lightweight and easy to handle, so they can be erected very quickly by hand. Frami lets you form extremely quickly and economically, without the use of a crane.

On sites with a crane, it is also possible to lift several panels at a time, in a gang-form. The ingenious modular design (with six different widths and three different heights of panel) makes for optimum adaptability to all job site conditions.

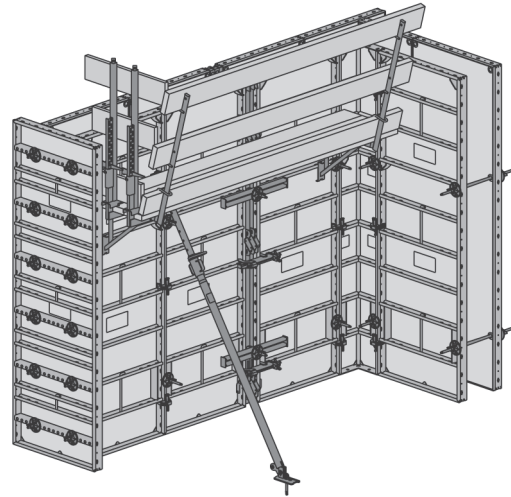
The ingenious modular design gives you unlimited possible combinations, in both width and height. You can use the panels either upright or horizontal, and the 6" increment together with the steel fillers (2", 1½", 1") gives you optimum adaptability of the formwork to the dimensions of the structure, at all times.



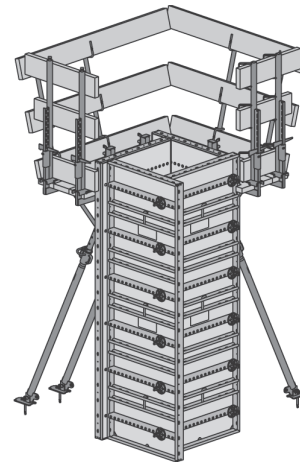
### QUICK PANEL CONNECTION

Save time in assembly with only 3 lightweight Frami clamps per 9 ft. vertical joint. Just one blow with a hammer and the panels are jointed and aligned.

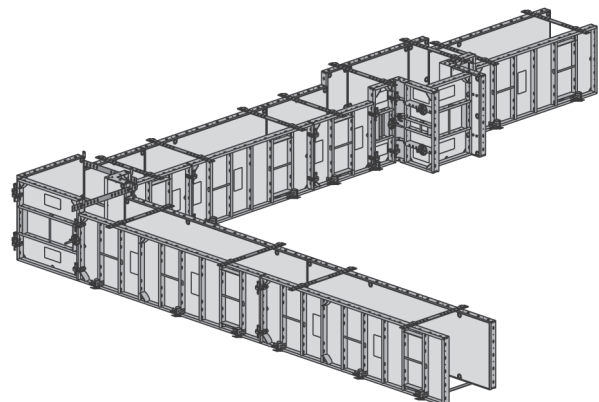
### WALL FORMWORK



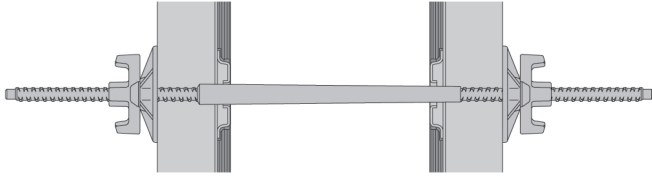
### COLUMN FORMWORK



### FOOTING AND GRADE BEAM FORMWORK



## VERTICAL FORMING SYSTEMS



### FRAMI TIES

Frami uses a lightweight high strength taper tie 1"-3/4" with 5/8" ends.

### WIDTHS OF PANELS

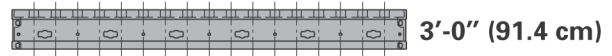


### FRAMI UNIVERSAL PANELS

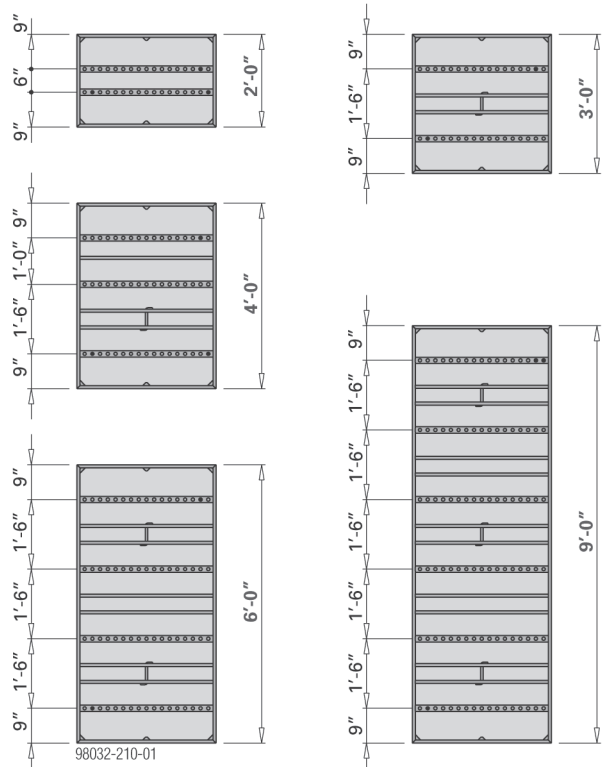
The 3'-0" wide panels are also available as Universal panels with heights of 2'-0", 3'-0", 4'-0", 6'-0" and 9'-0".

- Corners
- Wall Junctions
- Bulkheads
- Columns

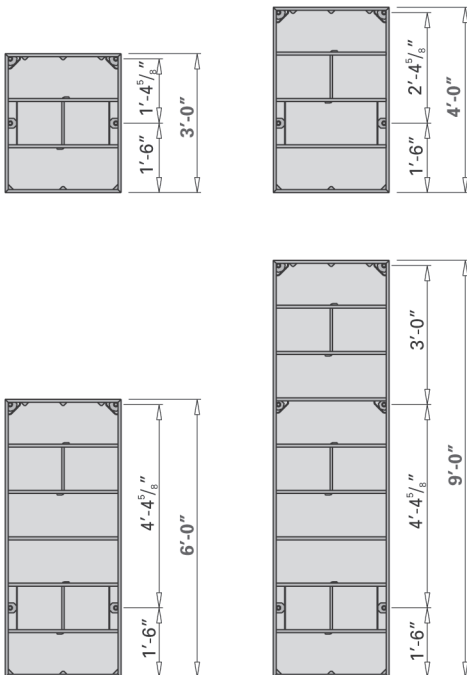
### PANEL WIDTH



### HEIGHTS OF PANELS



### HEIGHTS OF PANELS





# MF 240 CLIMBING FORMWORK

M A S C O . N E T

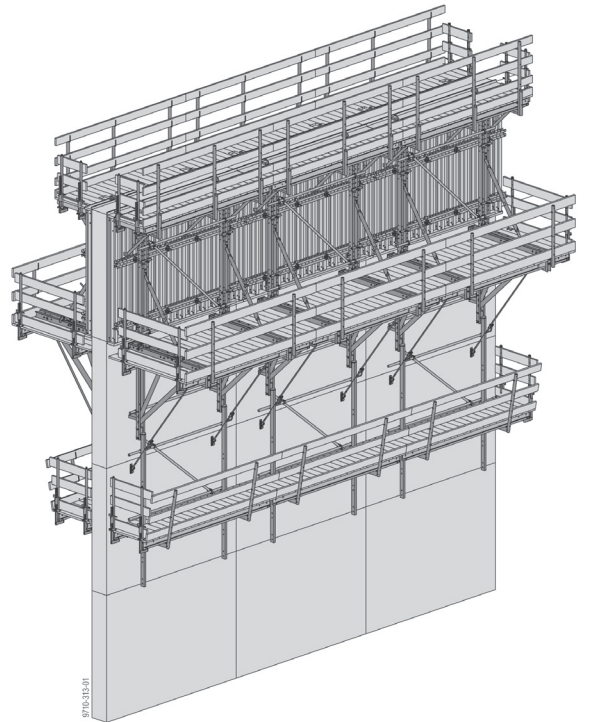
VERTICAL FORMING SYSTEMS

## MF 240 CLIMBING FORMWORK

The MF 240 is the crane-lifted climbing formwork for structures of any shape and any angle of inclination. Designed with a high load-bearing capacity, it is built for precision construction and efficient operations on all high-rise building and high wall applications. Components are available to accommodate any angle of wall inclination.

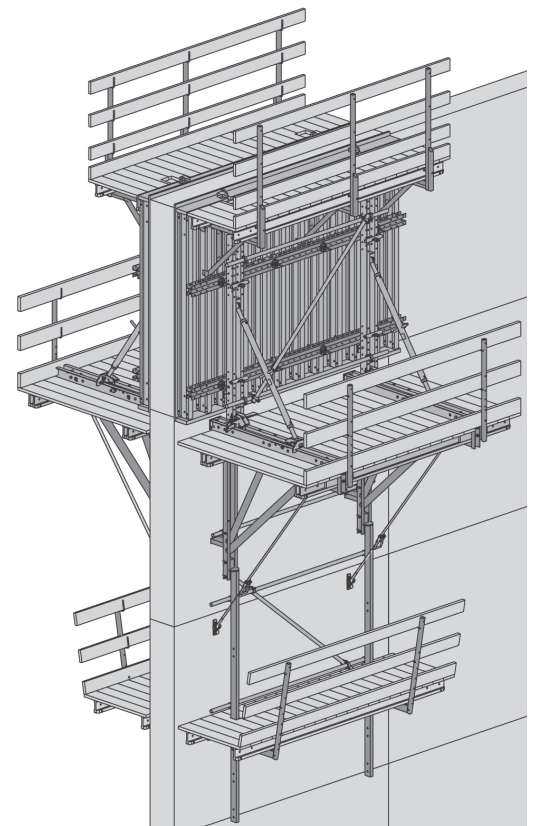
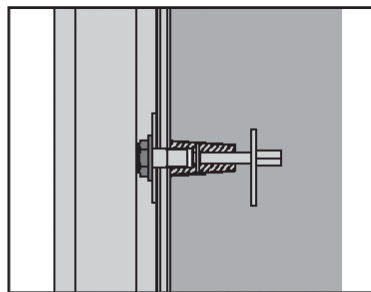
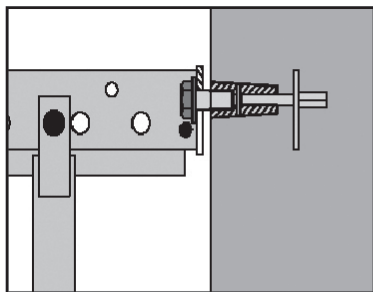
Formwork and climbing scaffold are connected to each other, so the entire unit can be raised in a single crane lift, reducing crane time to an absolute minimum.

The MF 240 Climbing Formwork is ideal for all residential and industrial high-rise projects, bridge piers, silos, and any high multi lift structures.



## WORKING WITH MF 240

Strong and durable anchor components ensure the secure connection between structure and climbing formwork.



## AREAS OF USE

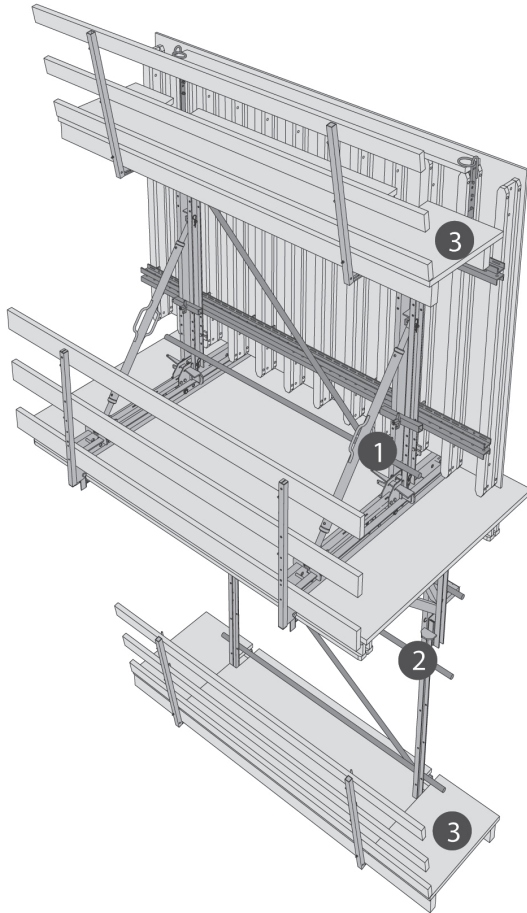
Where formwork needs to be lifted and reset in several casting steps, e.g. on:

- High-rise residential & industrial structures
- Bridge Piers
- Silos
- Telecommunications & TV towers

# MF 240 CLIMBING FORMWORK



VERTICAL FORMING SYSTEMS



## MF 240 CLIMBING FORMWORK

### 1 MF TRAVELING UNITS

- The main operating deck platform is 8' wide for safe and convenient formwork operations.
- The formwork can roll back 2'-6" for easy cleaning of the formwork and for working on the reinforcement.

### 2 MF CLIMBING BRACKETS

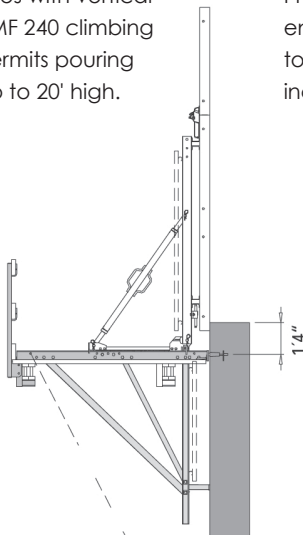
- Combines with all DOKA wall formwork systems.
- High load-bearing capacity 11,250 lbs. per climbing bracket.
- Accessories available to accommodate an angle of inclination  $\pm 15^\circ$  from vertical.
- Enables climbing formwork to pass concrete lips projecting up to 9-3/4".

### 3 WORKING PLATFORM BRACKETS

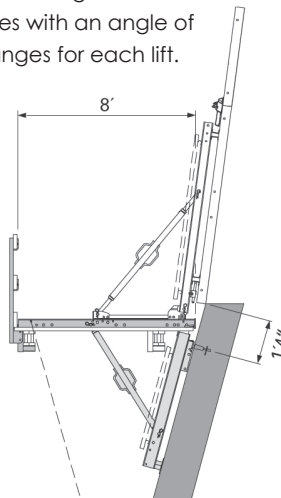
- Modular principle for versatility: These brackets can be used as pouring, intermediate and suspension platform brackets.

## ADJUSTABLE ANGLE OF INCLINATION

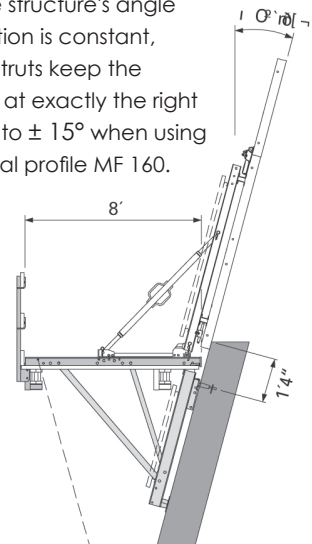
On structures with vertical walls, the MF 240 climbing bracket permits pouring sections up to 20' high.



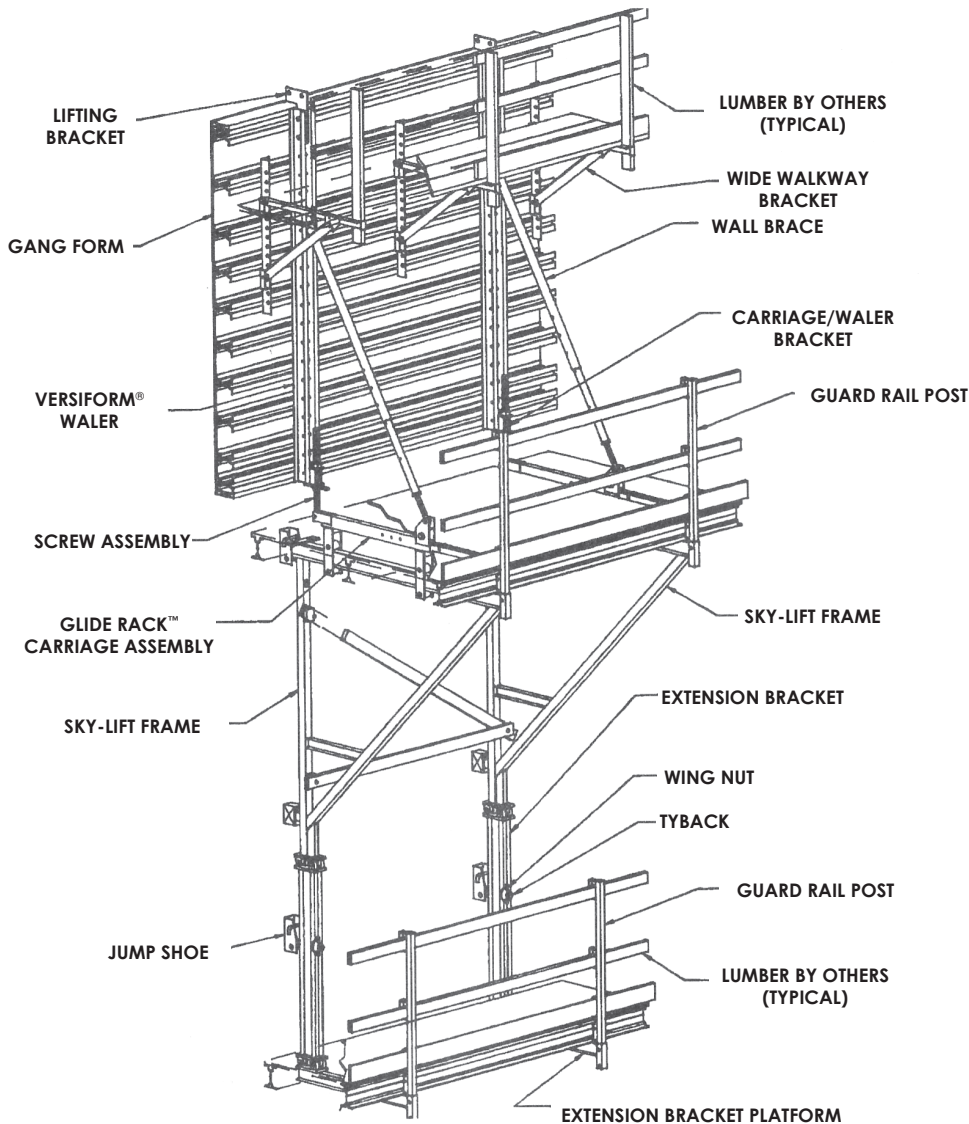
Pressure spindles are available to enable the MF 240 climbing formwork to adjust to structures with an angle of inclination that changes for each lift.



When the structure's angle of inclination is constant, pressure struts keep the formwork at exactly the right angle up to  $\pm 15^\circ$  when using the vertical profile MF 160.





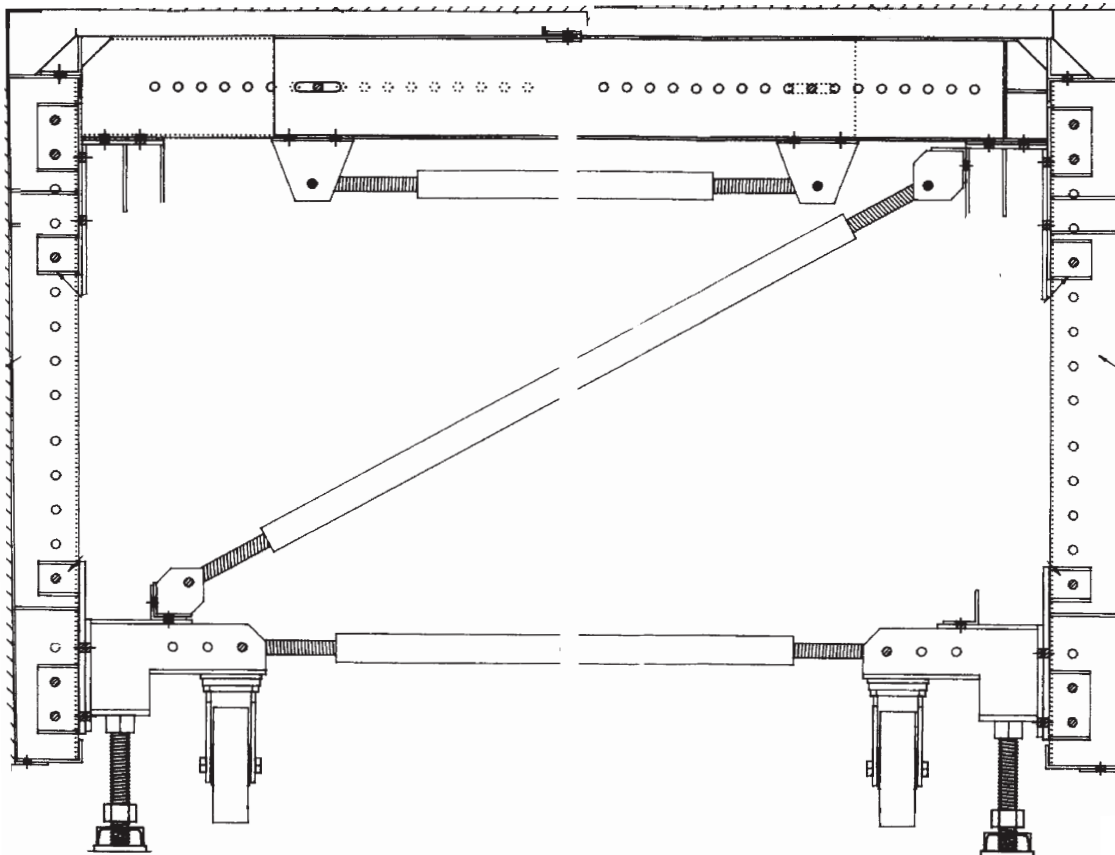


**Productive Roll Back system** for mid-rise and high-rise concrete structures and shear walls.

Roll Back is an engineered "jump form" system designed for use on elevated concrete forming applications. The system supports any gang form system, including Steel Ply®, Max-A-Form®, and Aluminum Beam Gang.

The Roll Back system consists of a frame and carriage assembly suspended from jump shoes and anchored in the concrete. The carriage allows the gang form to be retracted and cleaned without any crane assistance.

# BOX CULVERT



The **Box Culvert Traveler** is a fast, reusable traveler system that can be stripped as one unit and moved on its own wheels to the next pour. No additional accessories are required for setting, stripping, or moving.

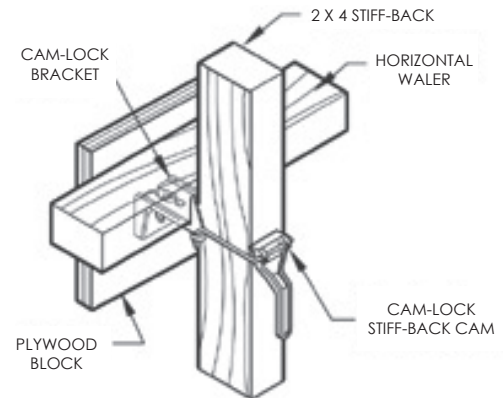
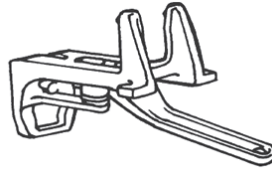
The Box Culvert Traveler design utilizes steel headers and uprights to create the complete frame. Jacks, turnbuckles and a deck slip plate are integrated into the frame design to facilitate stripping. Large 10" diameter wheels make the entire assembly easy to move.

The Box Culvert Traveler can be used with Steel-Ply®, Versiform®, Aluminum Beam Gang and Max-A-Form® forming systems. Forms are attached to the traveler frame for the inside wall, and gang forms are used for the outside. High capacity ties are typically used to improve tie spacing and reduce labor costs.

## Camlock

The Gates camlock forming system embodies the use of common forming materials, 2x4 walers with 3/4" plywood. When used for built-in-place forming no ribbing or special hardware attached to the panels is necessary and the use of stiff backs and walers is cut in half. The rigidity makes it adaptable to all types of construction and especially desirable for high wall forming. Camlock bracket holds loop end of ties and walers. Malleable iron coating with hardened steel wedge.

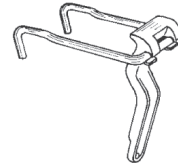
No.	Wt (lbs)
GT 76001	1.8



## Stiffback Bracket

Stiffback bracket is designed to accommodate a single liner system of 3/4" plywood and 2x4 horizontal waler. The cam-action eccentric is capable of taking up the variations in lumber size. Bracket is designed to be used with the camlock bracket.

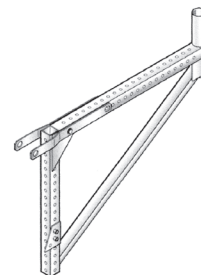
No.	Size	Wt (lbs)
GT 77024	2 x 4	0.5



## Scaffold Bracket

Provides space for walkways of two 2x10 planks beyond the strongbacks. 2x4 guard rail supports are easily attached to the bracket. Space jacks at 6' - 0" maximum centers. A stiffback bracket must always be placed above and below each scaffold bracket. All 2x4 stiff backs used to attach the scaffold bracket must extend to a solid base. Never use short pieces of 2x4's under the scaffold bracket.

No.	Wt (lbs)
GT 78111	10.6



# CAMLOCK SYSTEM



## VERTICAL FORMING SYSTEMS

### Guardrail Post

Attaches to a scaffold bracket.  
1 post per bracket.

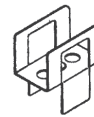
No.	Wt (lbs)
GT 78112	6.0



### Ply Clip

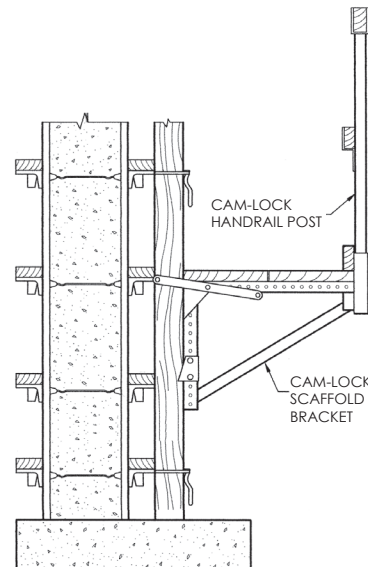
Steel Clips for quick, easy installation between plywood panel joints. Allows panels to be stacked easier and faster before floating waler and stiffback bracket are installed.

No.	Size	Wt (lbs)
CT 34PC	3/4"	.40



### Scaffold Bracket Attachment

The vertical 2 x 4 stiffback must always extend from a solid base and never use a short piece of 2x4 under the scaffold bracket. Never attach the scaffold bracket to the top row of CamLock Brackets and Form Ties. A 2x4 Stiffback Cam must always be attached to the CamLock Bracket directly above the Scaffold Bracket. A second 2x4 Stiffback Cam must be attached directly below the Scaffold Bracket. On all walls, scaffold brackets **must be** spaced within 6'x0". 42" guard rail with toe plate, mid rail and top rail must be used.



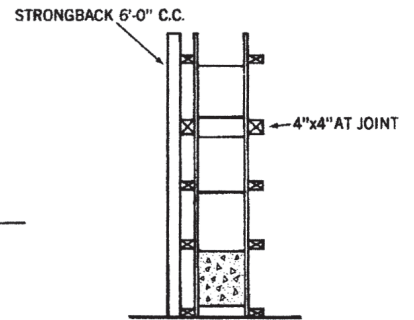
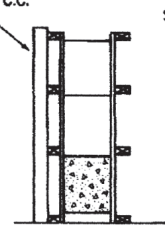
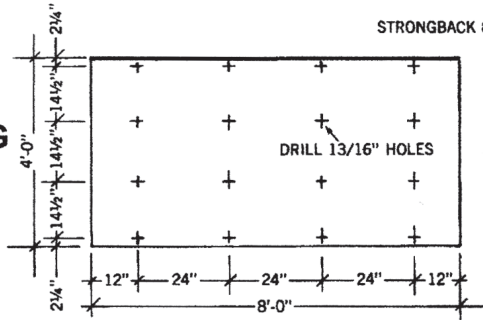


M A S C O . N E T

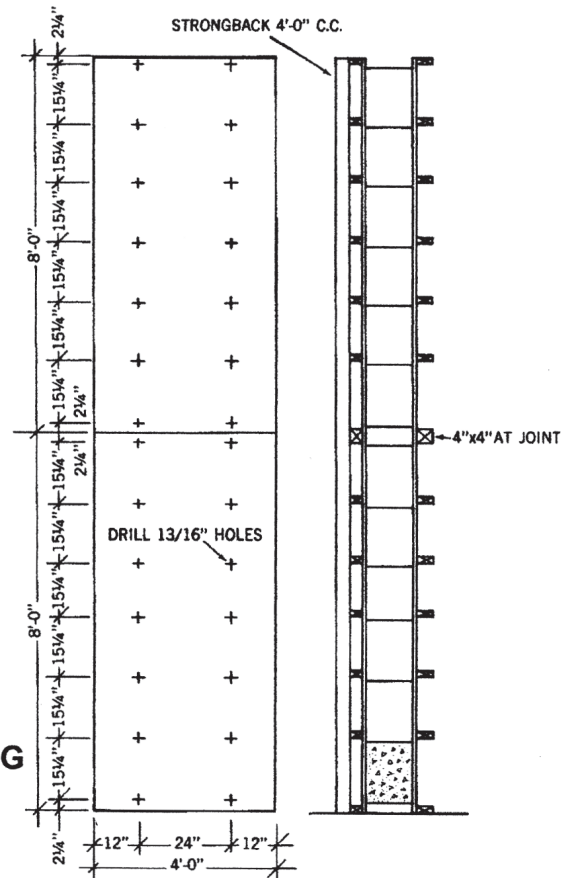
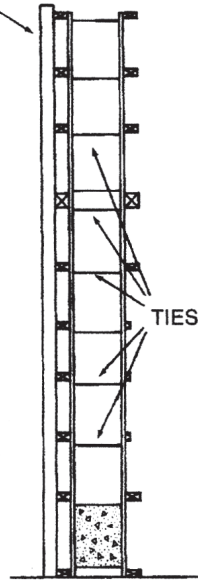
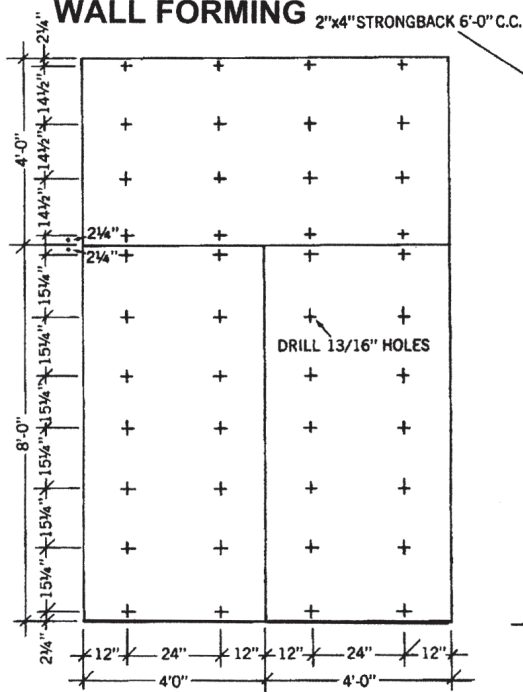
# CAMLOCK SYSTEM

VERTICAL FORMING SYSTEMS

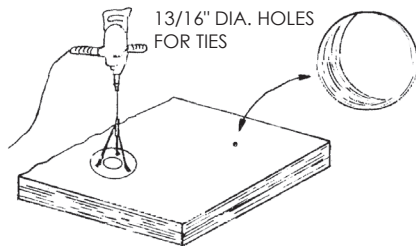
## LOW WALL FORMING



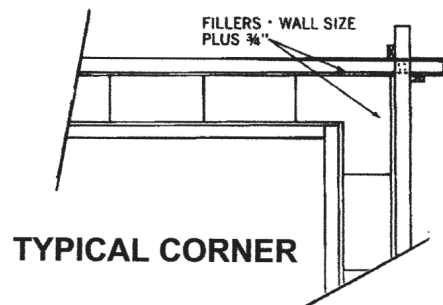
## MEDIUM WALL FORMING



## HIGH WALL FORMING



Gang drilling of plywood panels may be done with a Drill Stand. Stack the panels neatly one directly above the other and drill. We recommend you never drill more than five or six sheets of plywood at a time.



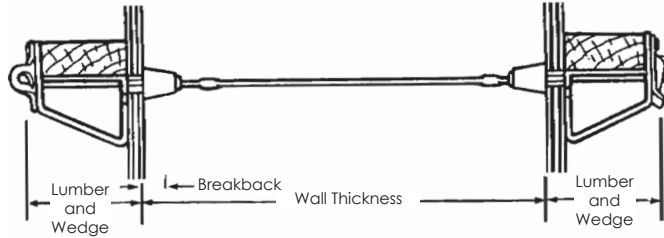
## TYPICAL CORNER

**MASONS SUPPLY COMPANY**

Oregon (800) 537-3407 ♦ Washington (800) 537-6216

# SNAPTIE SYSTEM

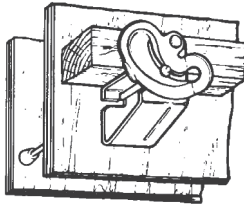
## VERTICAL FORMING SYSTEMS



### Single Liner Bracket (JAHN-A®)

Bracket is made of high strength steel with a cadmium plated eccentric and painted body which is rust resistant. Designed for use with single 2 x 4 waler. Can be installed either before or after walers are in place. Can be used for any type of wall forms and may be used repeatedly.

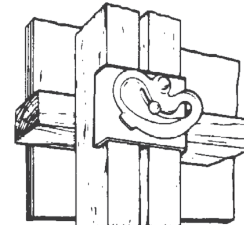
No.	Wt (lbs)
DS 30275	1.4



### Strongback Bracket (JAHN-C®)

Jahn C® bracket is used to attach vertical strongbacks for form work alignment. Designed for use with single 2 x 4 walers and 8-1/4" end. Eccentric securely holds form work while compensating for minor variations in lumber sizes. Bracket can also be used to support a horizontal plywood joint.

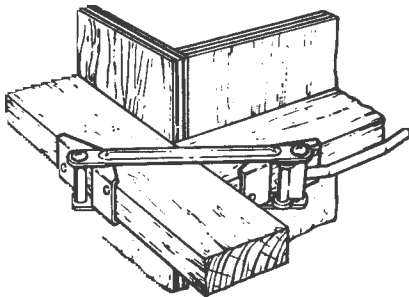
No.	Wt (lbs)
DS 30286	1.1



### Corner Lock Bracket

The Corner Lock Bracket is used at outside corners to secure the 2 x 4 walers. Only two nails are needed for attachment, while barbed plates grip the side of the 2 x 4's for positive non-slip action. The locking handle has a "Cam Action", drawing the walers together at true right angles. No special tools are needed for either installation or stripping.

No.	Wt (lbs)
DS 30285	2.0



### Snaptie Extender

Converts short end snapties to standard end snapties. With the Jahn® C bracket and 2 x 4's, vertical strongbacks are possible at any point in the form. SWL of 2,250 lbs. Safety Factor is 2:1.

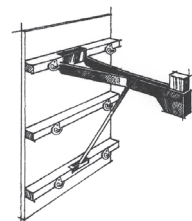
No.	Wt (lbs)
DS 30300	0.2



### Single Liner Scaffold Bracket

The all steel unit designed to fit 24" x 24", 16 x 24" tie and waler spacings. This jack has a built in guardrail receptacle and is designed to hold two 2 x 10 planks for a comfortable working platform. Space jacks at 8'-0" maximum centers. **Note: Snapties are not designed to carry scaffold bracket loads.**

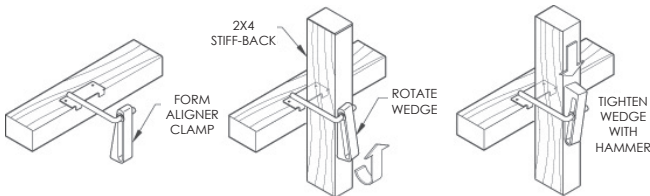
No.	Description	Wt (lbs)
DS 30305	A-89	17.0



## Liner Clamp

Designed for use with a single 2x4 strongback for vertical form alignment, this liner clamp can be installed after erection of the forms and is not limited by form-tie spacing. Sturdy, galvanized construction reduces maintenance and replacement, and speedy installation reduces forming costs. Strongbacks are used to align and not to strengthen forms. They are normally used on one side only, spaced 6' horizontally. Liner clamps should attach the strongback to every other single waler.

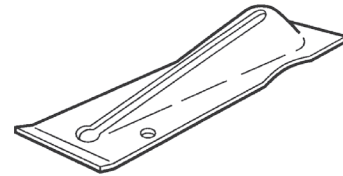
No.	Wt (lbs)
CFA LC	1.1



## Steel Wedge

The steel tie holder is fabricated from high carbon steel and heat treated for added strength. Easily installed and removed; will not turn or fall off. 50 pieces/carton.

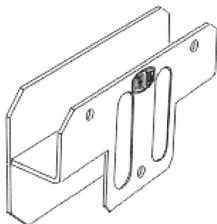
No.	Wt (lbs)
CFA SW5	0.88



## Panel Clip

A thin, strong clip used primarily for adding extra height to form panels. A common use of the Panel Clip is as an aid to setting standard narrow filler panels horizontally on the top of a wall of form panels. Standard wall ties can be used to tie the wall at the joint between the fillers and the normal wall panels. 50 pieces per carton.

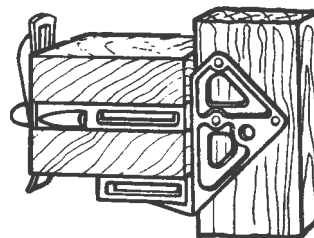
No.	Size	Wt (lbs)
CT PC34	3/4"	0.40
CT PC118	1-1/8"	0.40



## Waler Bracket

Unsafe toenail connections can be eliminated and waler lumber saved by using this bracket. Fasten to studs with double head nails, insert walers and secure with Steel Wedge. Normal spacing 4' on center. Designed for double 2 x 4 or 2 x 6 strongbacks, used with a heavy duty snaptie wedge. 25/carton.

No.	Description	Wt (lbs)
CFA WB24	2x4	0.88
CFA WB26	2x6	1.00



# SNAPTIE SYSTEM

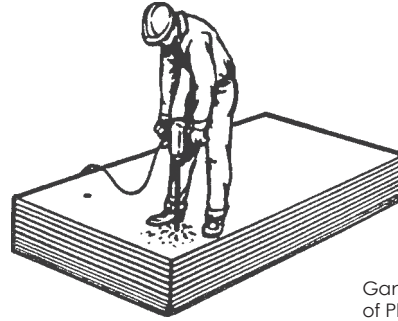


## VERTICAL FORMING SYSTEMS

### Jahn® Forming System

#### Preparation:

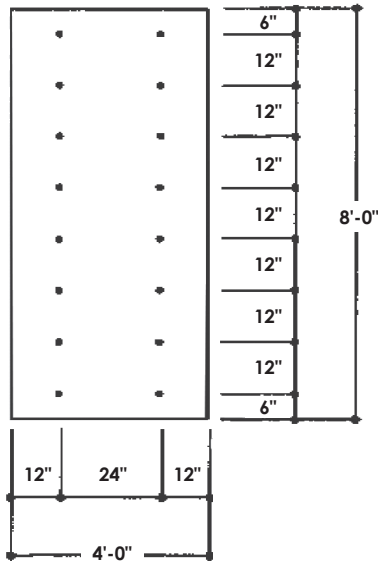
Gang drilling the plywood is the only preparation required. Holes need to be drilled 1/8" larger than the snap tie head. Normally a 9/16" diameter drill bit will be required. We recommend you drill a maximum 5 plywood panels. The 5/8" take-up of the eccentric on the Jahn "A" Bracket allows a snap tie with a L&W dimension of 4-3/4" to be used with a 5/8" or 3/4" plywood. The 5/8" take-up on the "C" bracket allows it and 8 1/4" snap ties to be used on 5/8" plywood.



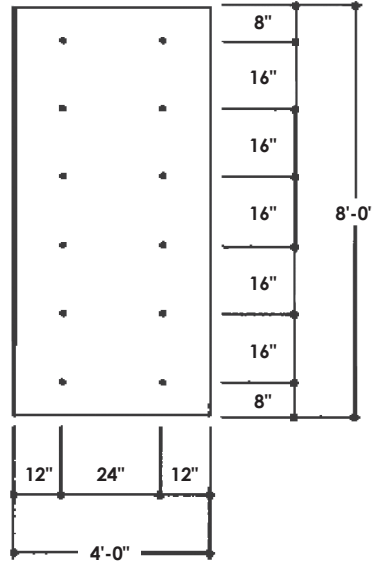
Gang Drilling of Plywood

#### Snaptie Spacing and Rate Placement:

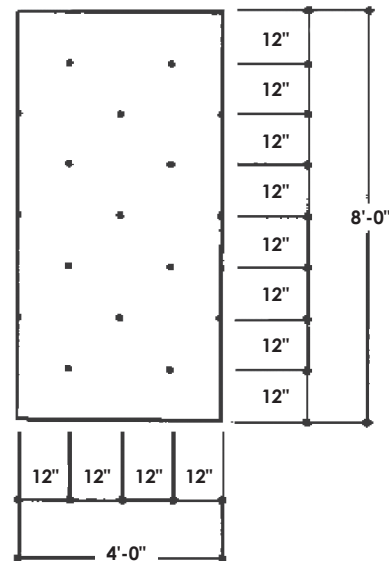
The most common snap tie spacings being used with the Jahn Forming System are shown below. For different rates or pour and/or other tie spacing, contact Masons Supply. Refer to the back cover for addresses and phone numbers.



12" vertical x 24" horizontal Snaptie Spacing.



16" vertical x 24" horizontal Snaptie Spacing.



12" vertical x 12" horizontal Snaptie Spacing.

#### Plywood Used Strong Way (Face Grain Parallel to Spacing)

**Notes:** The above recommendations are based on the use of 3/4" Plyform Class I, and 2x4 S4S studs (Douglas Fir-Larch, Southern Pine or equal having a minimum allowable fibre stress of 1,200 psi). Design is based on all formwork members being continuous over four or more supports. Normal weight concrete made with type 1 cement, no admixtures or pozzolan, slump no more than 4 inches and vibration limited to 4 lineal feet or less.

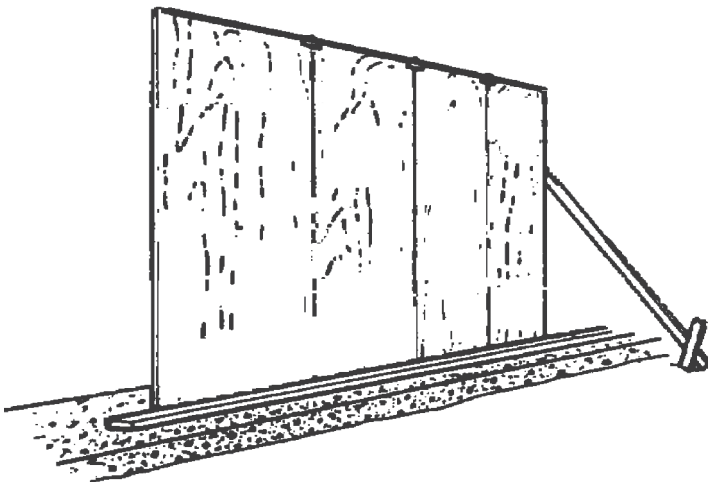
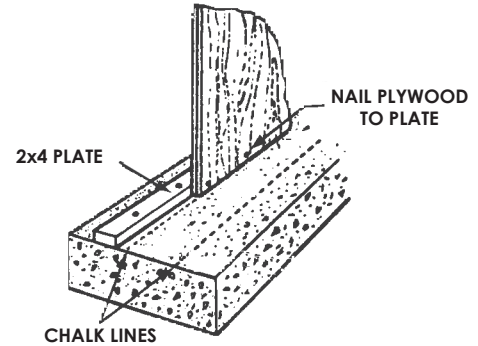


## Jahn® Forming System (continued)

### Footings Plates:

Good forming practices require that a level footing be used as a starting point for all forming applications.

Snap a chalk in back of the plywood thickness and nail down a 2x4 plate.



### Plywood Panel Erection:

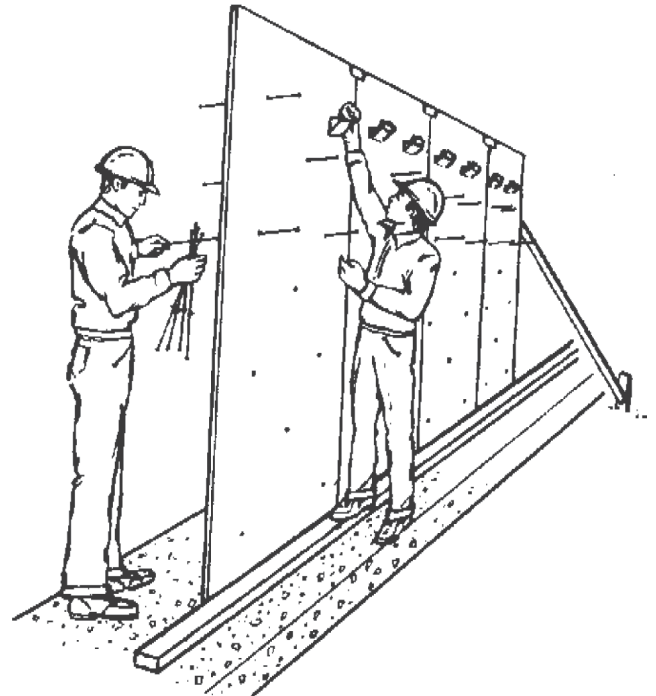
Erect, plumb, nail to plate and temporary brace the first sheet of plywood.

Erect additional sheets of plywood by nailing them to the 2x4 plate and temporary wood cleats at the top corners. Make sure the joints are tight. If panels are to be stacked, ensure that the panel tops are level.

### Installation of Snapties and "A" Brackets:

Place the ends of the Snapties through the holes in the plywood. The 4<sup>3</sup>/<sub>4</sub>" L&W Snaptie, Standard is recommended for use with the Jahn "A" Brackets, 5/8" or 3/4" plywood and 2x4 wales.

Two workmen can install the snap ties with speed and economy. One inserts the tie through the tie hole and the other attached the "A" bracket.






# SNAPTIE SYSTEM

## VERTICAL FORMING SYSTEMS

### Jahn® Forming System (continued)

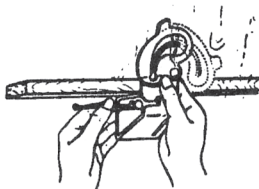


#### Proper "A" Bracket Installation:

**Without Water In Place:**

1. Place the "A" bracket on the tie end by slipping the tie end into the slots in the bracket.
2. Rotate the eccentric loosely over the tie end.
3. Drop 2x4 waler in place. Seat 2x4 with hammer, if necessary.

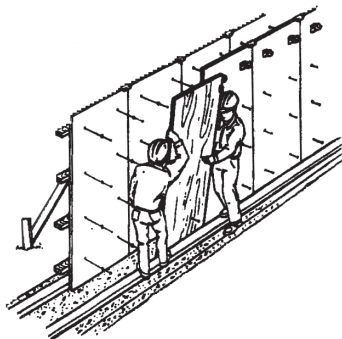
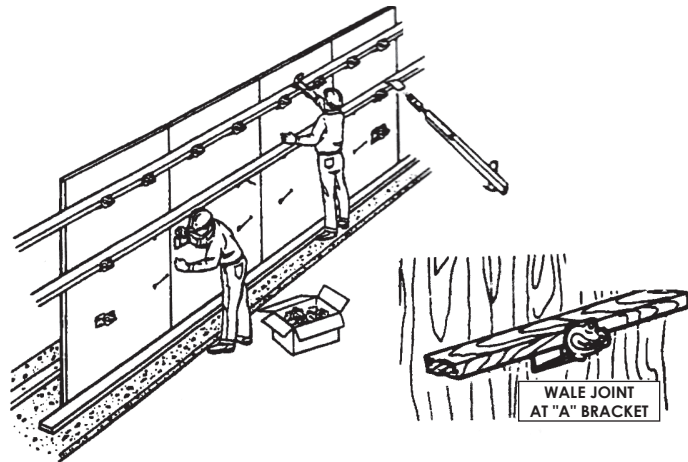
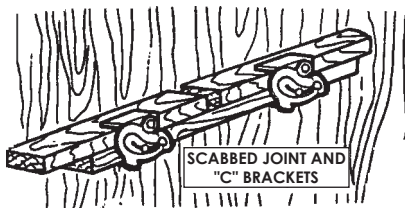
**With Water In Place:**

1. Slip the back slot in the bracket body over the tie directly behind the head.
2. Push the bracket toward the plywood until the tie head emerges through the front of the bracket.
3. Rotate the eccentric over the tie head and tighten.

#### Installation of Wales:

Install the Wales into the brackets working from top to bottom of the panel and tightening the eccentric as you go. Waler joints should occur at a bracket or a scab should be utilized to reinforce the joint (see sketch).



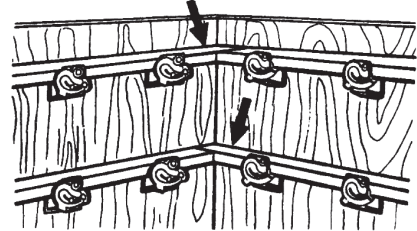
#### Inside Wall Panel Erection:

The inside panel sequence is the same as the outside panel described above except for the placement of the plywood panels over the tie ends. This can be accomplished by two workmen by starting at the bottom and moving the panel from side to side and up and down to align the snap ties with the holes in the plywood.

## Jahn® Forming System (continued)

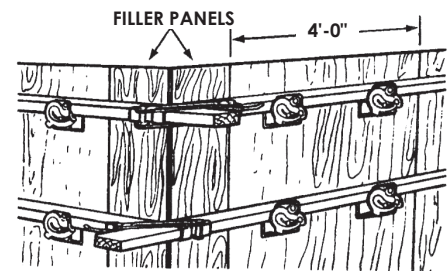
### Inside Corner Forming:

No special treatment is required for inside corners other than the alternating of the wales as shown in the sketch. It is advantageous to start the inside corners with full size plywood panels to facilitate forming the outside corners.



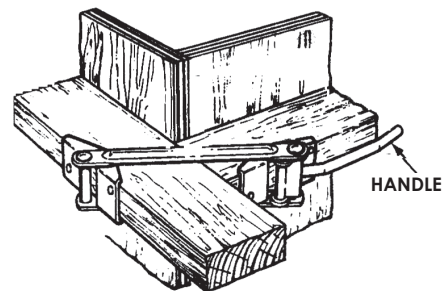
### Outside Corner Forming:

Install the first outside panel in line with the first inside panel. Filler panels, the same thickness as the wall plus the plywood thickness, are then used to fill out the exterior corner.



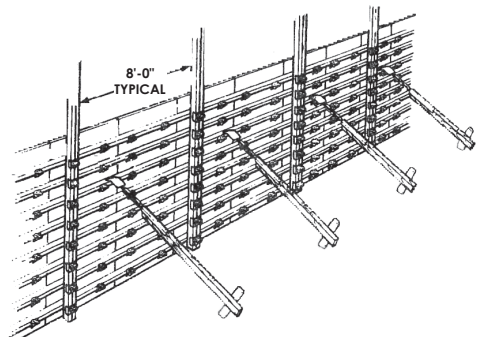
### Installation of Jahn Cornerlock:

The cornerlock eliminates costly overlapping and blocking of the wales. Its cam action draws the wales securely together. Place one wale flush at the corner and let the other extend past the flush one. Slip the cornerlock into place with the handle perpendicular to the wale. Nail the cornerlock in place and rotate the handle 90° toward the wale. A snug, tight outside corner is accomplished.



### Installation of Strongbacks:

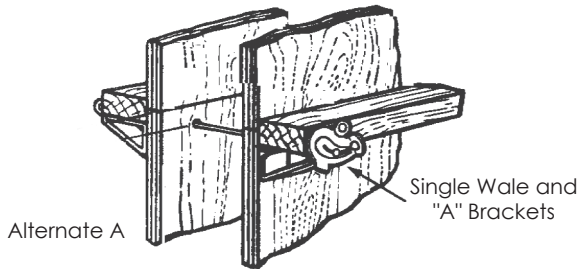
Strongbacks are used to aid in form alignment and to tie stacked panels together. Loose 2x4's are used in conjunction with Jahn "C" Brackets and 8<sup>1</sup>/<sub>4</sub>" L&W snap ties or 4<sup>3</sup>/<sub>4</sub>" L&W snap ties with the Jahn Tie Extenders to strongback the forms. Normal strongback spacing is 8'-0" on center.



# SNAPTIE SYSTEM

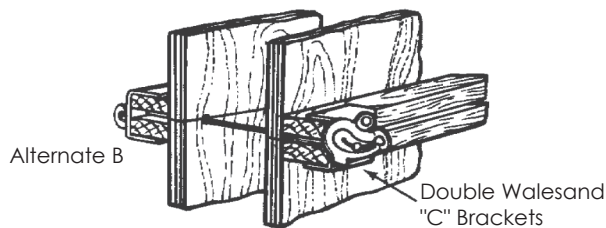
## VERTICAL FORMING SYSTEMS

### Jahn® Forming System (continued)

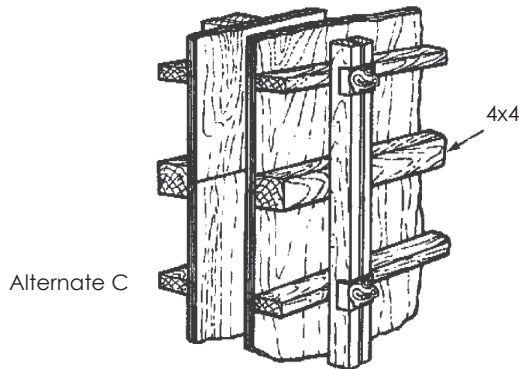


#### Joint Cover Details:

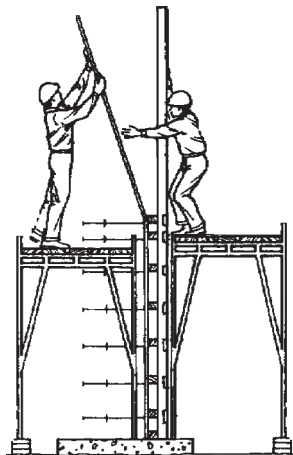
**Alternate A** - Drill 9/16" diameter hole 1 1/8" down from top edge of the lower sheet of plywood. Install snap tie, "A" Brackets and wale and then the upper sheet of plywood. Nail the upper sheet of plywood to the wale.



**Alternate B** - Install snap tie in the joint between the panels. Add double wales and a "C" Bracket.



**Alternate C** - Nail 4x4 wale to lower sheet of plywood, hold the wale in place with strongbacks and add upper sheet of plywood



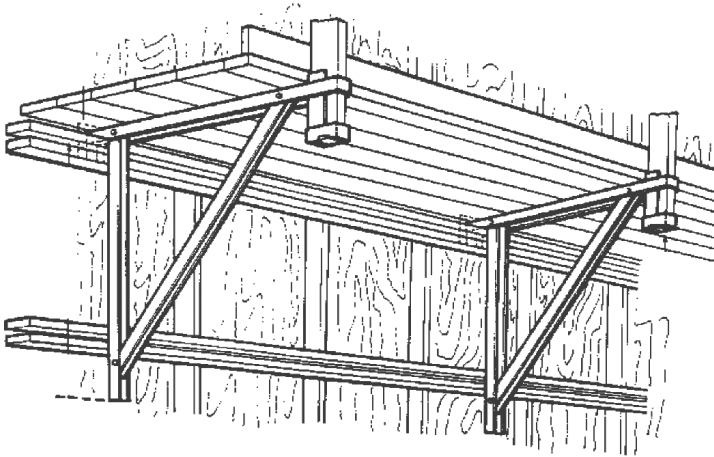
#### Installation Of Second Lift Of Plywood:

Lift the plywood sheet and place it into position. Hold the sheet in place with a short 2x4 spacing block, snap tie and "C" Bracket placed toward the top of the panel and nail the bottom of the sheet to the joint cover wale.

Set additional panels by nailing them to the joint cover wale and securing them to the previous panel with a small wood cleat.

Install the snapties, brackets and wales - working bottom to top.

**Note:** Snap ties are not designed to carry scaffold bracket loads.



## Scaffold Jack Bracket

Scaffold Jack Bracket meets state building codes and OSHA minimum requirements and is used to support scaffolding on nearly any type of formwork. By changing the position of the pins in the vertical and horizontal members the bracket can be quickly adjusted to fit 2x4, 2x6 or 2x8 horizontal wales by changing hook position.

Attachment can be made to a concrete wall through 1" diameter pipe to either thru-bolt or exposed coil tie end, insert, or other appropriate method.

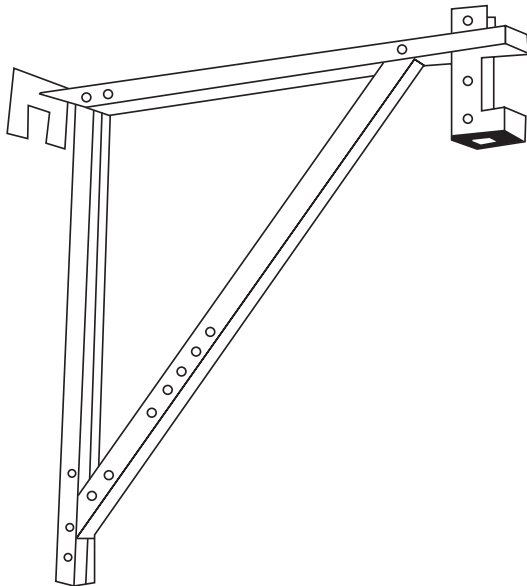
It is designed to support walkway only and fits most walkway planks to make a convenient working platform. Heavy loads placed on this bracket may cause tie failure. The built-in guard rail receptacle for 2x4 handrail post makes it easy to install a safe and economical safety rail.

Replacement parts for brackets are available on special order, please contact Masons Supply for cost and availability.

**The A-90 Scaffold Jack Bracket is rated with a safe working load of 47 psf, based on a minimum factor of safety of 4 to 1. The maximum bracket spacing should be limited to 8'-0" on center.**

**2.667' x 8.0' x 47 psf = 1,000 lbs.**

**This bracket is intended for use as a carpenter scaffold bracket only.**



No.	Wt (lbs)
DS 30306	23.0

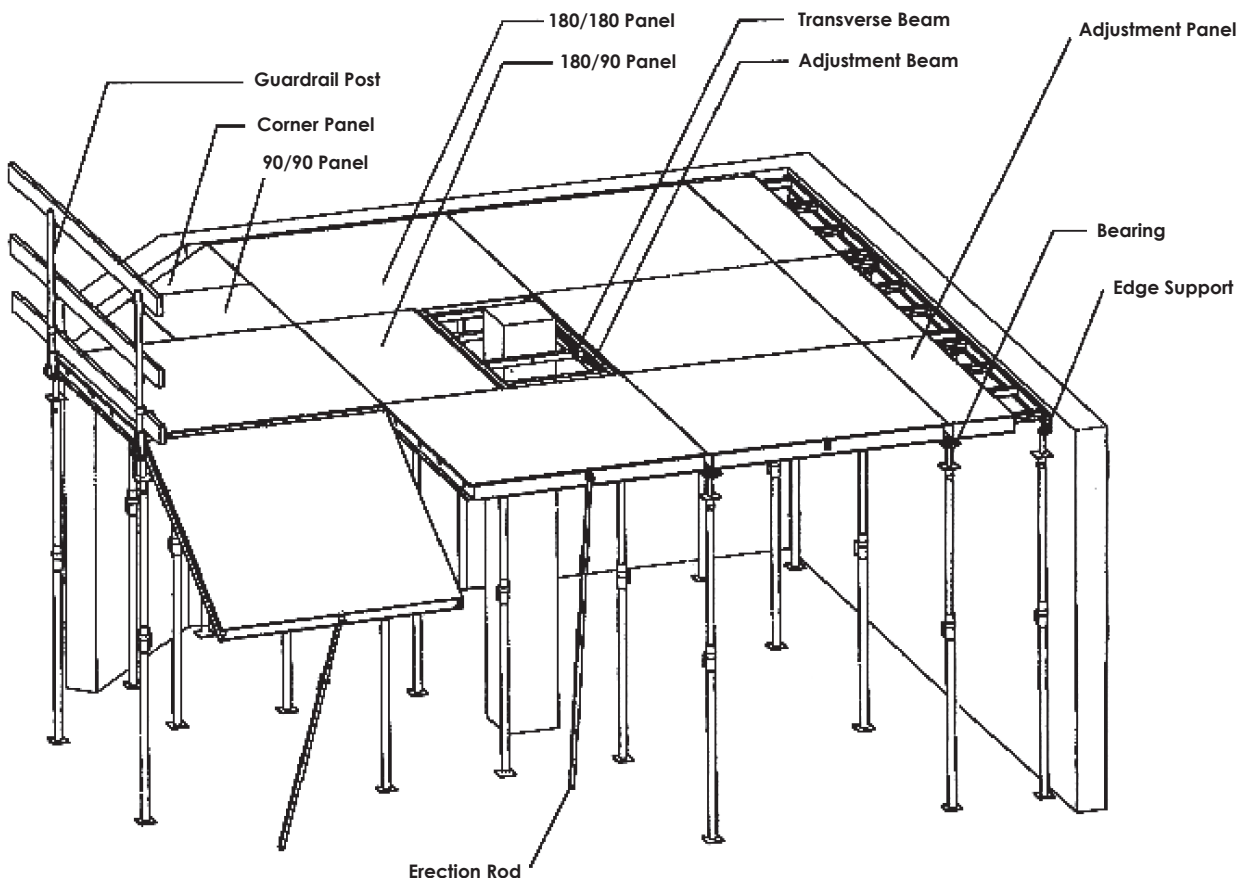
**DeckFast™**, formerly Topec™ Deck System, is a modular slab formwork system that is used for commercial and industrial applications. The system will support slabs up to 22" and heights up to 19' above the floor or ground.

The basic DeckFast system consists of tubular post shores that are adjustable to 18', bearing supports and modular forming panels. The uniqueness of this system lies with bearing supports that capture and support corner clusters of four panels. When the bearing supports are fastened to flat top post shores, the panels and post shores can be erected individually from below, simplifying the erection process.

The easy-to-use DeckFast system, with two basic components and two support rods, can be erected with a minimal amount of training. Even workers

who are not familiar with the system can achieve high production rates per worker per day. Even infill sections can be easily formed and economically installed using DeckFast components. Forming panels are made from 5-ply bonded veneers with 10 mm plywood. Edges are protected by specially designed powder-coated aluminum framing members that not only minimize the gap between panels but also add to panel strength. Powder-coated aluminum frames minimize maintenance cleaning efforts and reduce cleanup costs.

Standard DeckFast Panel size is a nominal 5.9' x 5.9' (34.8 ft<sup>2</sup>) but weighs only about 100 lbs. Other sizes are also available to fit your needs.



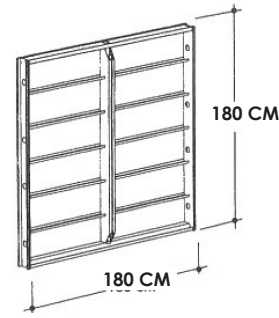
Typical Application

## Basic Components

### Panel

All panel frames are lightweight aluminum and are powder-coated to reduce cleaning. Sizes include:

No.	Size
SAF T554000	180 x 180 cm* (6' x 6' nominal)
SAF T548001	180 x 90 cm* (6' x 3' nominal)
SAF T548012	180 x 75 cm* (6' x 2'-6" nominal)
SAF T548023	180 x 60 cm* (6' x 2' nominal)
SAF T548034	180 x 45 cm* (6' x 1'-6" nominal)

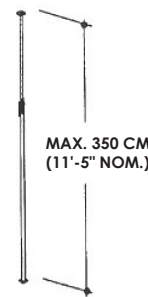


**180 x 180 Panel  
SAF T554000**

### Post Shore

350 and 550 Post Shores are completely galvanized inside and out including external threads. A built-in stop prevents removal of inner tube.

No.	Size
SAF T552147	350: L = 6'6" - 11'5" nominal
SAF T463087	550: L = 10'1" - 18' nominal
	Inner tube diameter: 2.45" nominal
	Outer tube diameter: 3" nominal



**350 Post Shore  
SAF T552147**

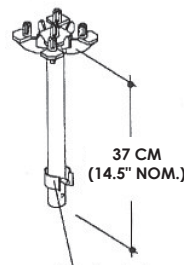


**550 Post Shore  
SAF T463087**

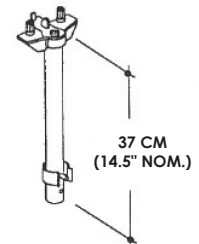
All shores are complete with quick-release pins. One tap with the hammer is usually enough to release the shore from its load.

### Bearing

The support for the DeckFast Panels is inserted into the steel shore and secured with an integrated T-Spring Bolt or Bearing Retainer.



**T-SPRING BOLT  
Bearing  
SAF T465410**



**Edge Support Bearing  
SAF T487673**

### Edge Support Bearing

It is inserted into the shore like the DeckFast Bearing. The Edge Support facilitates flush connections of the DeckFast Panels along side walls.

## ASSEMBLY AIDS

### Post Shore Tripod

The Post Shore Tripod is designed for steadying the 350 and 550 Post Shores during erection procedures (maximum 3" diameter post).

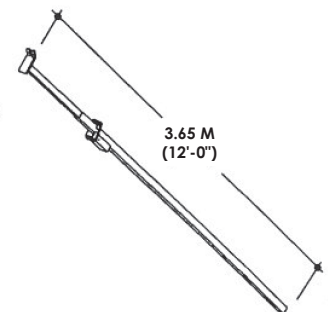
The Hinged design accommodates all angular patterns, such as 90°, 180°, and 360°.

### DF Erection Rod

Facilitates the erection and disassembly of the DeckFast Panels. For ceiling heights up to 3.65 m (12'-0" nom.) Adjustable in steps of 5 cm (2").



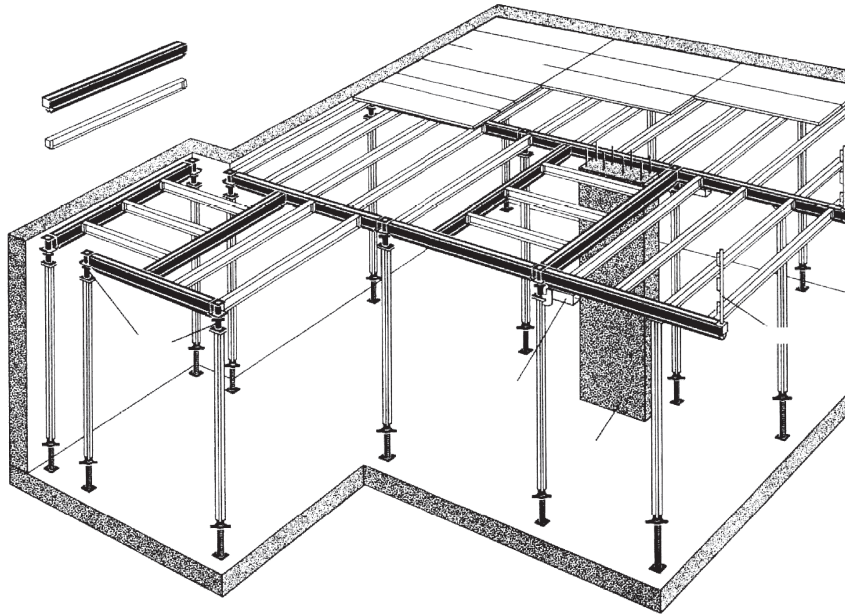
**Post Shore Tripod  
SAF T587377**



**DF Aluminum Erection Rod  
SAF T443371**

# HV DECK SYSTEM

**HORIZ. FORMING & SHORING**



The HV decking system provides a rapid, versatile and efficient means of casting onsite concrete decks in a wide variety of applications. Lightweight and easy to use, HV comprises just 3 main components and can be erected and dismantled by a team of two operatives without the need for special tools, making it one of the least labor intensive systems on the market.

With all erection and dismantling undertaken from beneath the deck itself, HV minimizes requirements for working at height and makes a major contribution to site safety.

The system's modular nature simplifies the entire process, naturally creating a 1.8 m (6 ft.) grid that self-sets. This simplicity in use, combined with the system's drop-head, allows for early stripping and re-use of beams and panels, thus enhancing site productivity while maintaining automatic back propping.

Versatility is also a key feature of the HV; columns, wall corners, curved walls and many other potentially problematic features can be accommodated with ease by means of simple positioning and adjustment of panels and infill beams.

## Features and Benefits

- Lightweight components facilitate rapid erection and dismantling
- Enhances safety on site
- Minimizes labor requirements and costs
- Self-sets to save time
- Early stripping maximizes equipment re-use
- Single panel with GRP synthetic cover
- Continual back-propping improves productivity

## Main and Secondary Beam

Flexibility with Main and Secondary Beams  
 Main Beams 2.40 m (8 ft.); 1.80 m (6 ft.) and 1.15 m (4 ft.)  
 Secondary Beams 1.80 m (6 ft.) and 1.15 m (4 ft.)  
 The same colors are on the beams for easy identification.

## HV Components

The HV panel decking system comprises 4 main components:

1. HV Prop
2. Drop Head
3. Primary Beams
4. Secondary Beams

## HV-Prop

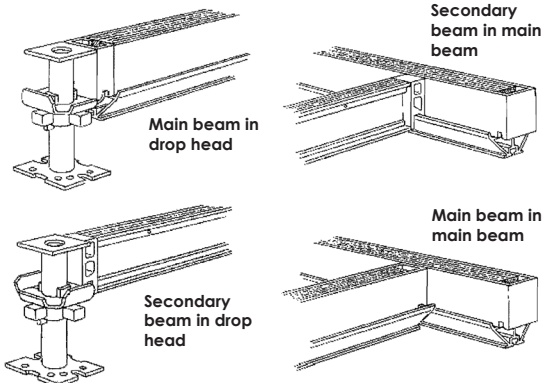
- HV-Prop up to 10 ft. extension
- HV-MAXI Prop up to 14 ft. extension

## Drop-head

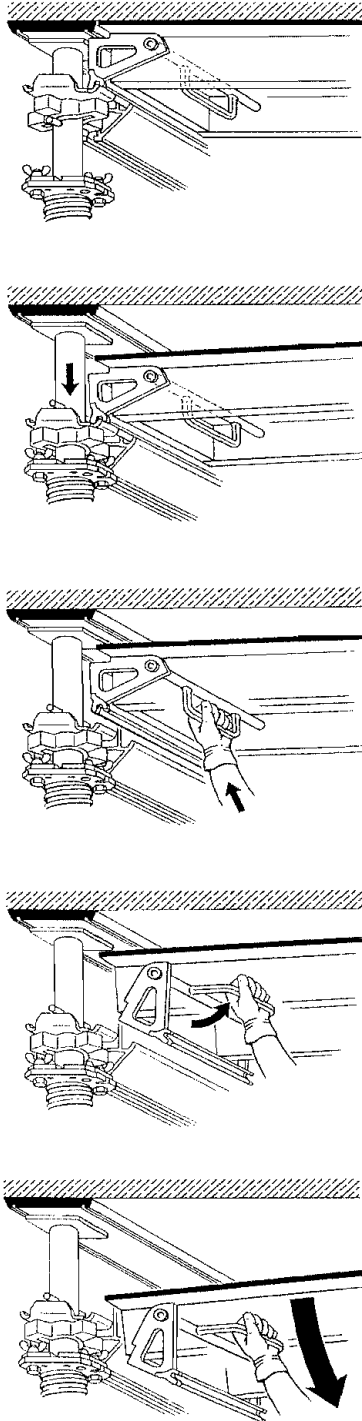
- Hot dip galvanized steel
- Fixed to prop with 2 speed thread bolts
- Fast stripping by cam action mechanism
- No special tools – hammer only required for stripping

## Primary and Secondary Beam

- Lightweight, high strength aluminum
- Durable construction
- Easy, fast and safe handling







## HV Panel Deck System

The GFK-Plate 3/8" is screwed into the Alum-Frame to make the HV - Combi Panel.

Each HV - Combi Panel will provide 9 sq.ft. and weigh only 36 lbs. In lieu of Secondary H-girders and loose plywood the HV - Combi panel is hung between the Main V-girders.

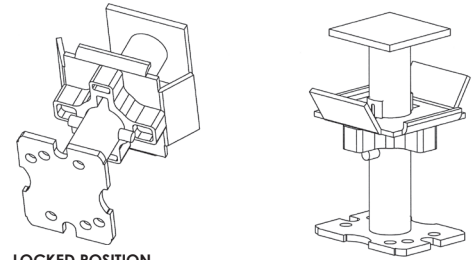
It is very easy to move the HV - Combi panel into the Main V - girder, so that the erection of the system can be started directly in the wall corner.

The space on top, between the two HV - Combi panels is closed with GFK filler strip (170 x 21 x 1125 mm L = 3' - 8-1/2"). This Filler stays in place, over the Drop heads until the Post shores are released.

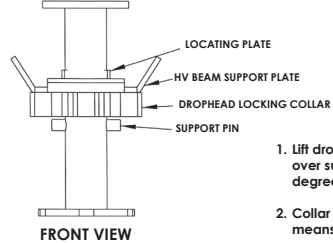
The HV - Combi panels can be early stripped and moved to the next location.

All advantages from original HV-Drop head system are still applicable.

## HV DROPHEAD POSITIONS POSITION & ROTATE LOCKING COLLAR

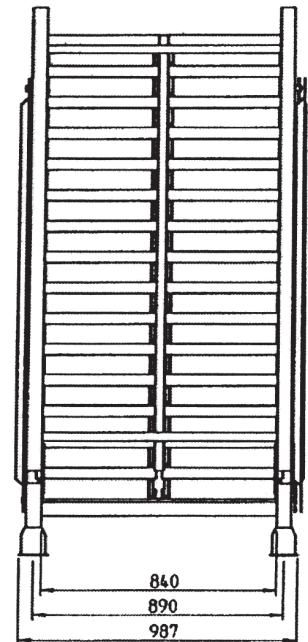
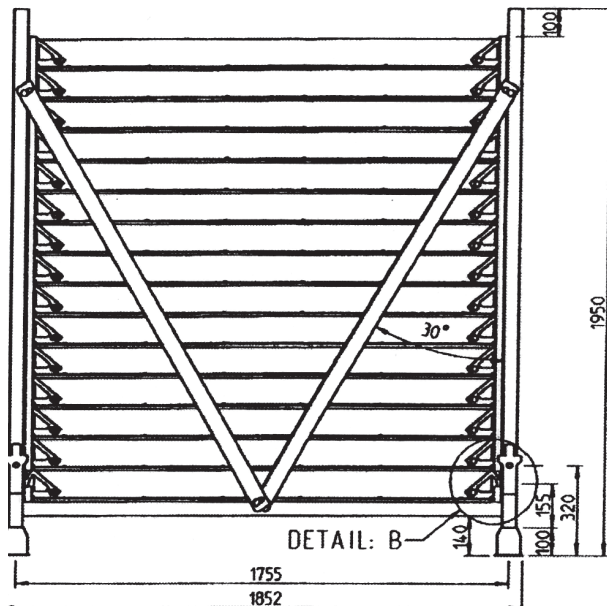


LOCKED POSITION



FRONT VIEW

1. Lift drophead locking collar over support pin and rotate 90 degrees.
2. Collar tightens against pin by means of cam action.
3. Once rotated, tap with hammer to secure.



# MEGA SHORE



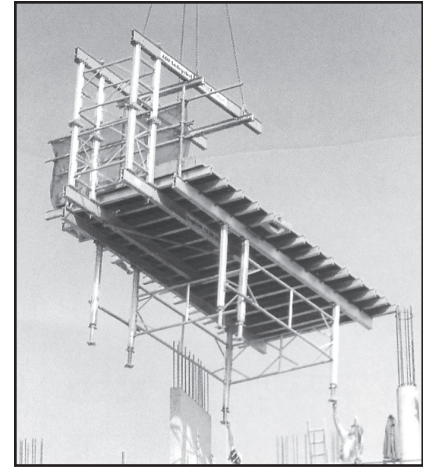
## HORIZ. FORMING & SHORING

### Mega Shore Support System

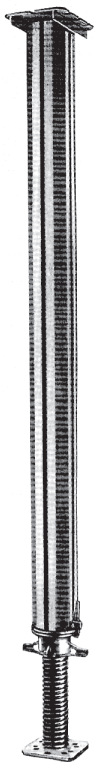
The **MEGA SHORE Support System** is designed to decrease labor costs, improve safety and meet the demands of structural requirements. The system has been designed to combine maximum flexibility in use with a minimum number of components. Leg's, frames, and beams are the only 3 components used for basic application. Mega Shore can support loads up to 22,000 lbs per leg. Legs are available in three sizes, each with continuous vertical slots to allow ledger frames to be fitted at the optimum height. Screw jacks can be fitted top and bottom for vertical adjustment up to 8 feet.

All ledger frames are made of aluminum. The outside tube is 1.9", so you can use standard working platforms. Ledger frames can be removed or inserted in any location while the system is fully erected.

Mega Shore is particularly well suited for heavy bridge supports. With the flexible design capabilities of Mega Shore, large sections can be easily moved. With high slabs, the advantages of the Mega Shore System are apparent. With extremely high load capacities, you will require less equipment. This results in fast and efficient erection and dismantling.

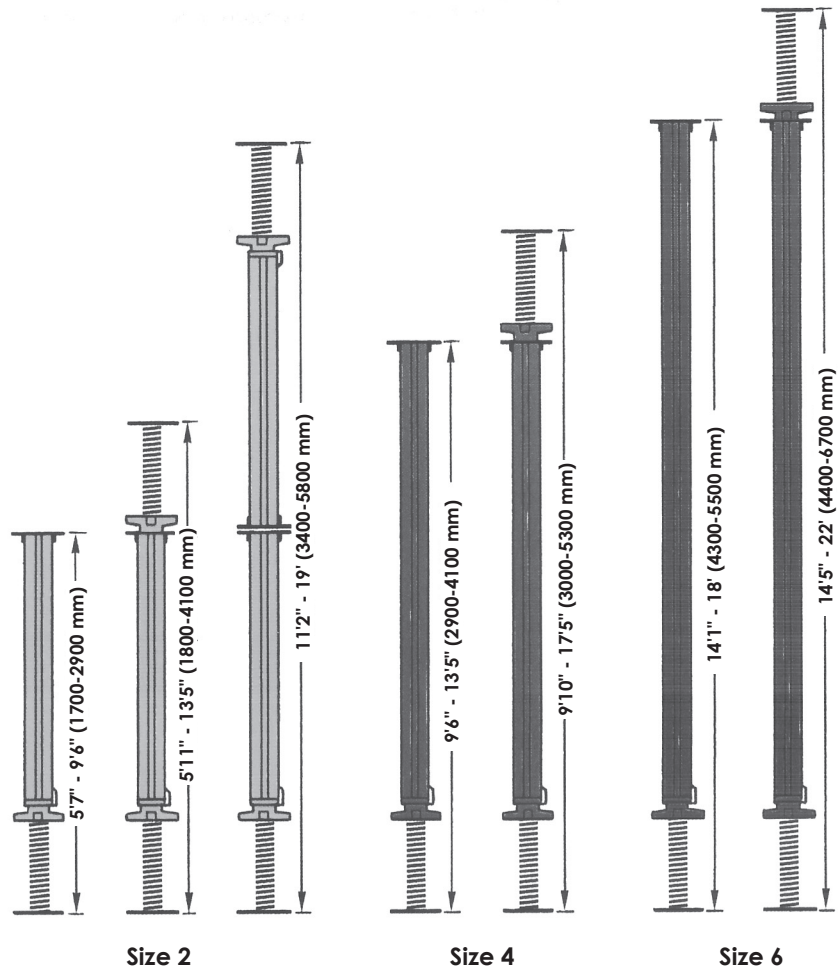


Flying Table



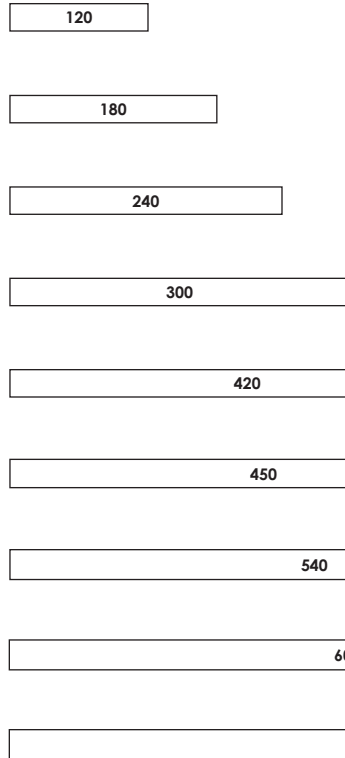
Legs are available in three sizes, each with continuous vertical slots to allow ledger frames to be fitted at the optimum height. Titan screw jacks can be fitted at the optimum height. Mega Shore screw jacks can be fitted top and bottom for vertical adjustment up to 8 feet.

Legs	Min. Length *	Wt (lbs)
Size 2	5' 7"	39.7
Size 4	9' 6"	50.7
Size 6	14' 1"	63.9
* Including Jack		

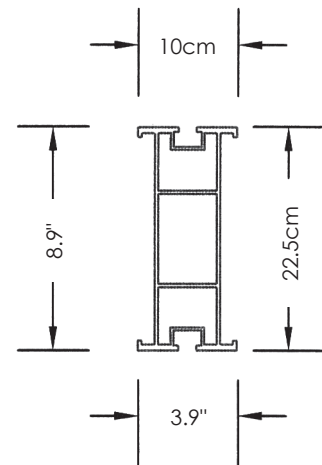


## 225 Stringer Beams

The Aluminum 225 Stringer Beam has extraordinary load capacities because of its unique design with 3 hollow profiles.



<b>Area</b>		
Ixx Moment of Inertia	32.63 cm <sup>2</sup>	5,057 in <sup>2</sup>
Zxx Section Modulus	2,241.00 cm <sup>4</sup>	54.0 in <sup>4</sup>
E Modulus of Elasticity	199.20 cm <sup>3</sup>	12.16 in <sup>3</sup>
E.I. Bending Stiffness	68,900.00 N/mm <sup>2</sup>	9,799,883 lbs/in <sup>2</sup>
M Resistance Moment	1,544.00 KN/m <sup>2</sup>	31,623 lbs/ft <sup>2</sup>
S Allowable Shear Force	28.50 KNm	21,020 lb/ft
	89.00 Kn	20,000 lbs
<b>Weight</b>	8.87 Kg/M	5.94 lbs/ft



No.	Description	Length	Wt (lbs)
ICS 4120	L=120cm	3'-11 1/4"	22.5
ICS 4180	L=180cm	5'-10 7/8"	28.1
ICS 4240	L=240cm	7'-10 1/2"	45.0
ICS 4300	L=300cm	9'-10 1/8"	56.2
ICS 4340	L=340cm	11'-2"	63.7
ICS 4380	L=380cm	12'-5 1/2"	71.2
ICS 4420	L=420cm	13'-9 3/8"	78.7
ICS 4450	L=450cm	14'-9 3/8"	84.3
ICS 4480	L=480cm	15'-9"	90.0
ICS 4500	L=500cm	16'-4 7/8"	93.7
ICS 4540	L=540cm	17'-8 5/8"	101.2
ICS 4600	L=600cm	19'-8 1/4"	112.5
ICS 4720	L=720cm	23'-7 1/2"	135.0
ICS 4750	L=750cm	24'-7 5/16"	140.6

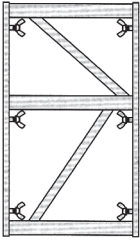
# MEGA SHORE



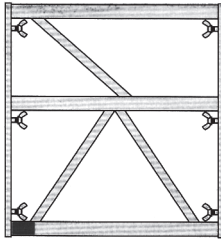
## HORIZ. FORMING & SHORING

### Ledger Frames

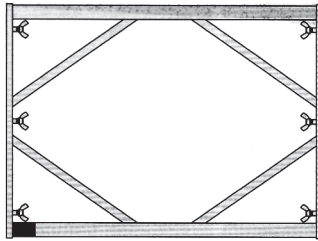
All ledger frames are made of aluminum. The outside tube is 1.9", so you can use standard working platforms. Ledger frames can be removed or inserted in any location while the system is fully erected.



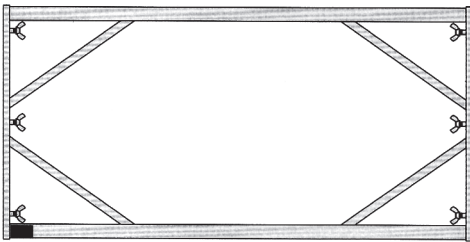
2' (0.60 m)



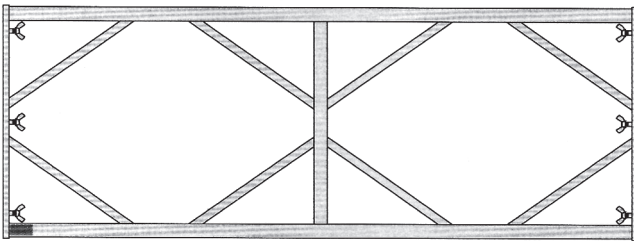
3' (0.90 m)



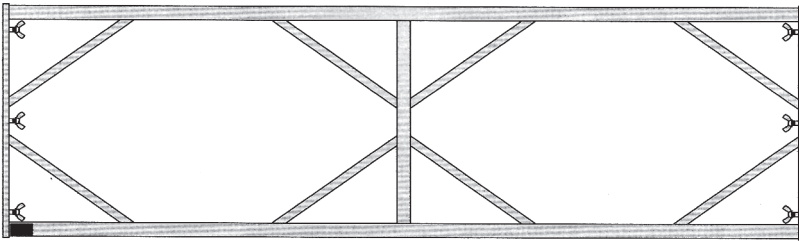
4' (1.20 m)



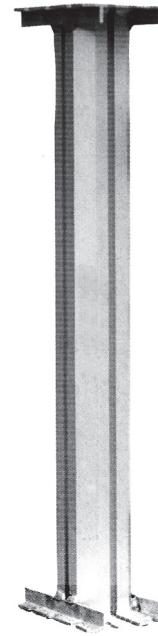
6' (1.80 m)



8' (2.40 m)



10' (3.00 m)



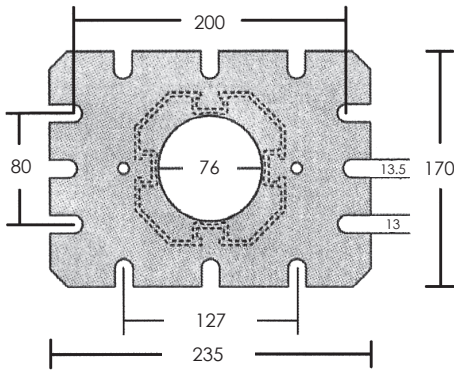
Extension Legs are available in five lengths to make up non standard heights.

No.	Description	Center to Center	Wt (lbs)
ICS 3060	Frame 60cm	1'-11 5/8"	12.35
ICS 3090	Frame 90cm	2'-11 3/8"	16.53
ICS 3120	Frame 120cm	3'-11 2/8"	17.20
ICS 3180	Frame 180cm	5'-10 7/8"	21.38
ICS 3240	Frame 240cm	7'-10 4/8"	29.76
ICS 3300	Frame 300cm	9'-10 1/8"	35.05

No	Length*	Wt (lbs)
ICS 2050	1' 8"	7.7
ICS 2125	4' 1"	18.7
ICS 2200	6' 6"	30.0
ICS 2300	9' 11"	41.5
ICS 2500	16' 5"	52.9

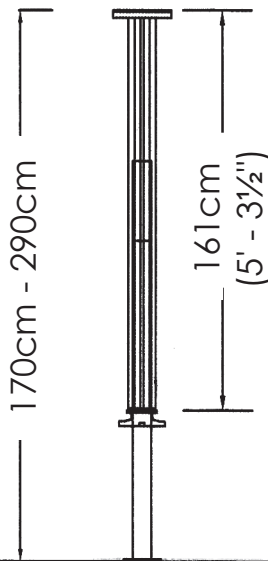
## Jack Legs

No.	Description	Height Range	Wt (lbs)
ICS 0002	Jack Leg No.2	5'-7" - 9'-6"	39.7
ICS 0004	Jack Leg No. 4	9'-6" - 13'-5"	50.7
ICS 0006	Jack Leg No. 6	14'-1" - 18'	63.9

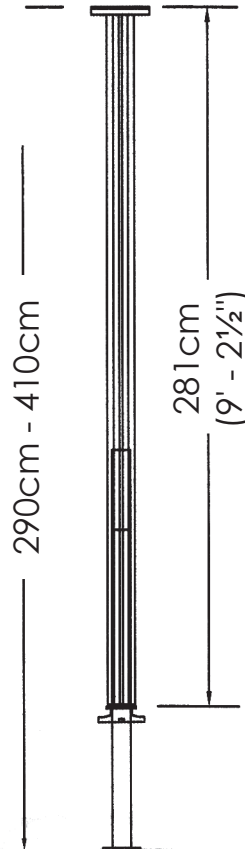


Leg Endplate

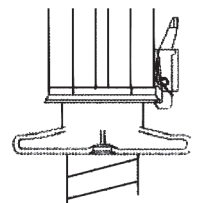
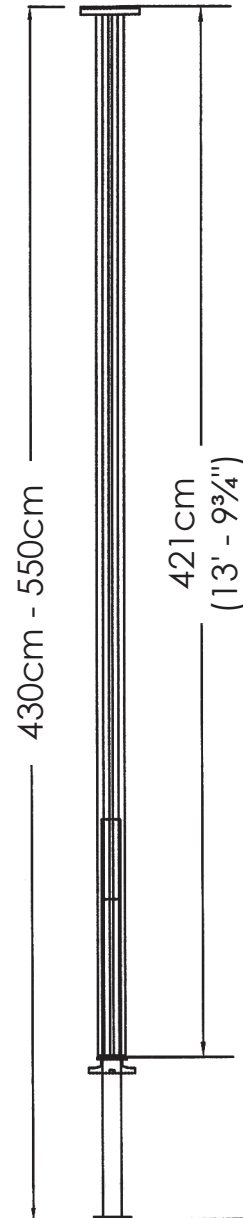
Jack Leg No. 2



Jack Leg No. 4



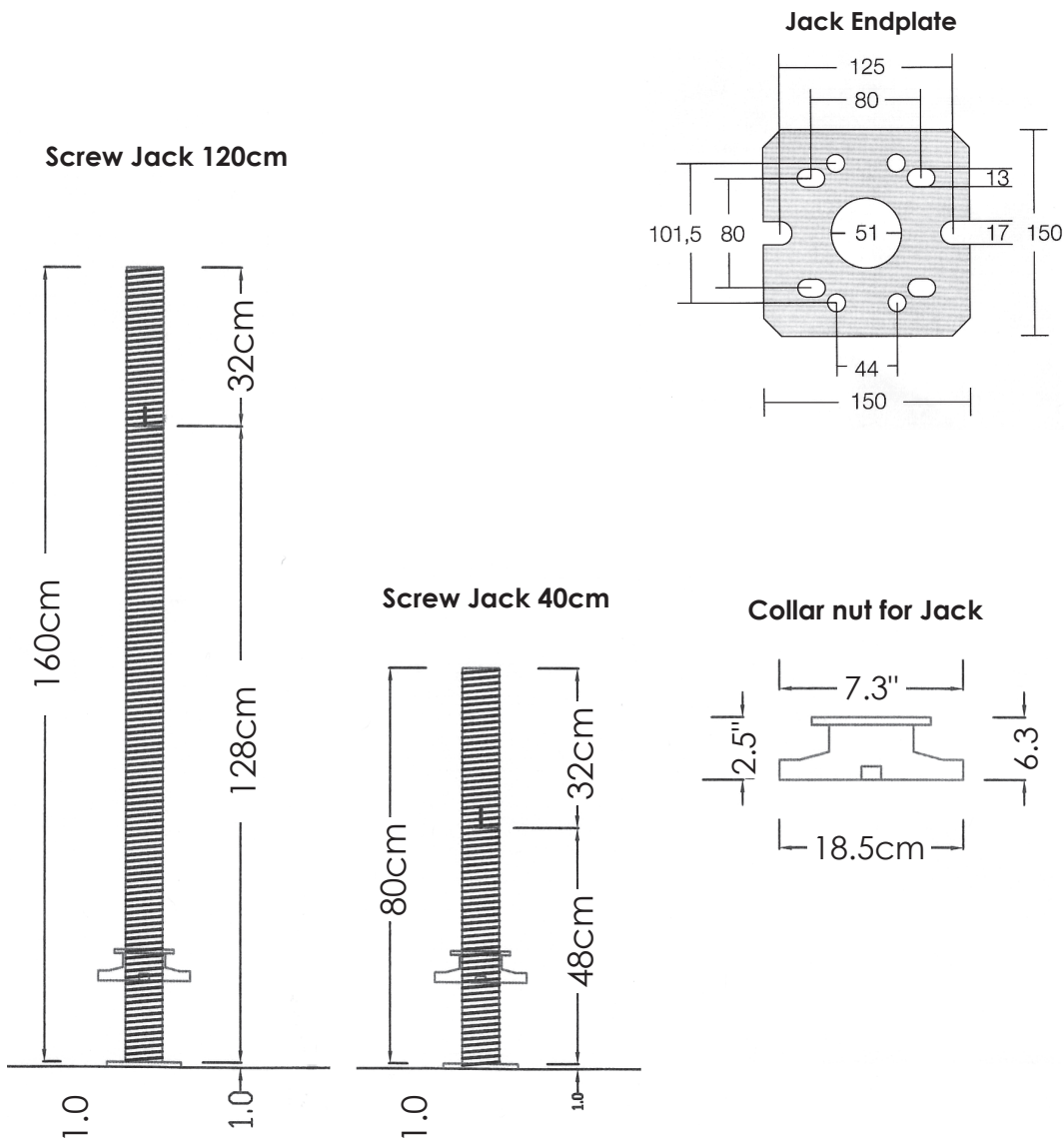
Jack Leg No. 6



Retainer Clip

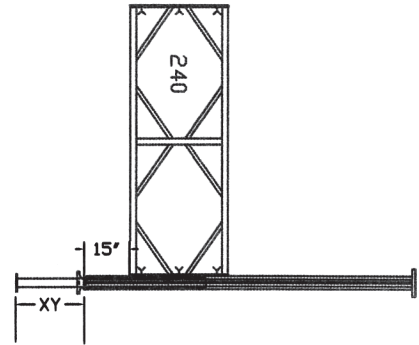
## Screw Jacks

No.	Description	Height Range	Wt (lbs)
ICS 1120	Screw Jack 120cm	48"	22.9
ICS 1040	Screw Jack 40cm	16"	15.4



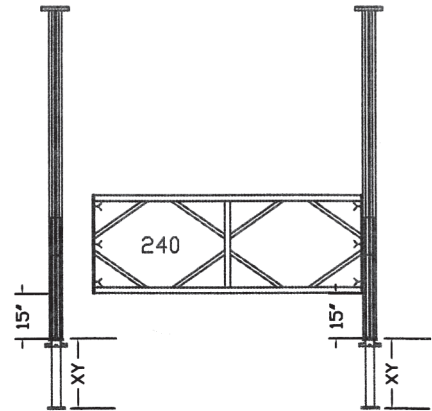
## STEP 1

- Place a Jack Leg on the ground.
- Measure the Screw Jack extension.
- Mark the leg 15" from the Iflon washer (to locate frame).
- Attach the frame to the top slot on the Jack Leg.
- Fasten the middle frame wing nut snug, but not too tight.
- Check the frame location against the mark on the leg.
- Fasten the other two frame wing nuts, then tighten all three.



## STEP 2

- Rotate the leg attached frame to lay flat on the ground.
- Take the second leg and measure the Screw Jack extension.
- Mark the leg 15" from the Iflon washer.
- Attach the frame to the second leg as in Step 1.



## STEP 3

- Attach two Frames (one to each leg) so that the Frames are vertical.

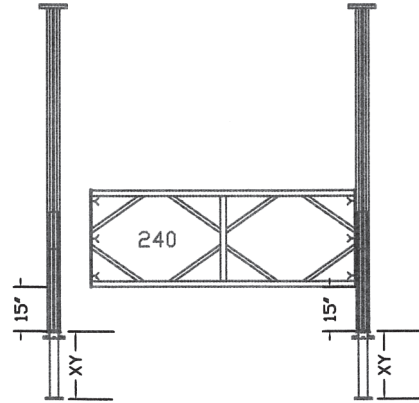


# MEGA SHORE

## HORIZ. FORMING & SHORING

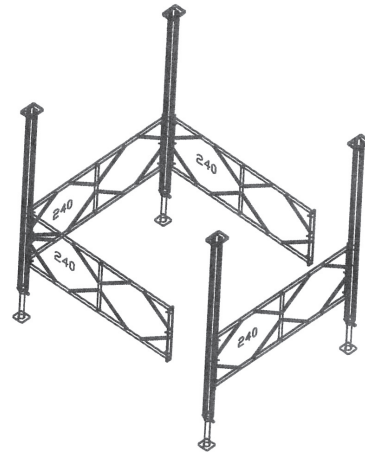
### STEP 4

- Repeat Steps 1 & 2 to make a second pair of legs with the Frame attached.



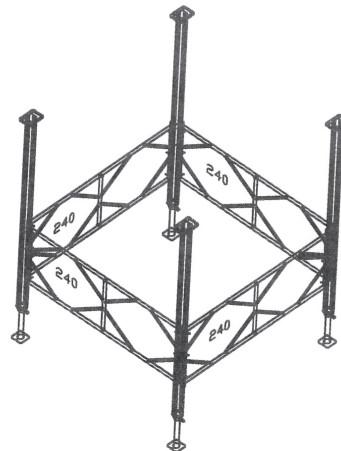
### STEP 5

- Tilt up the U-shaped legs with 3 frames.
- Tilt up the other pair of legs with one frame and bring them to the U-shaped tower.
- Connect the frames to the legs making sure to check the 15" dimension from the I-fion washers.



### STEP 6

- Check the plumbness of the legs by adjusting the Screw Jacks as required.



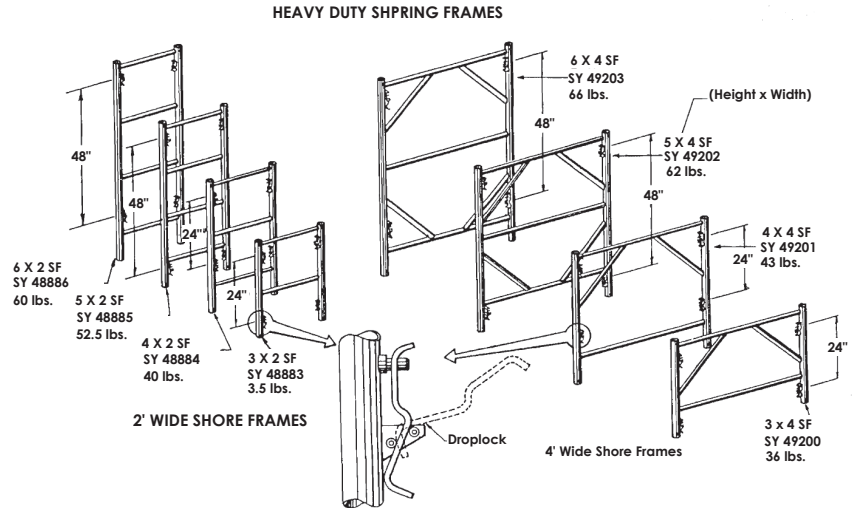


## FrameFast™ Shoring Frames

FrameFast™ Shoring Frames are rated for 12,000 lbs. safe load per leg, up to two tiers high. Of course this load will be increased or decreased depending on the actual number of tiers used and total extension of the jacks. Refer to layout drawings for maximum shore leg capacities. This frame can be adapted to virtually any shoring condition, through the use of other accessories.

There are eight standard sizes of frames available. Both 2' and 4' wide frames have the same load capacity.

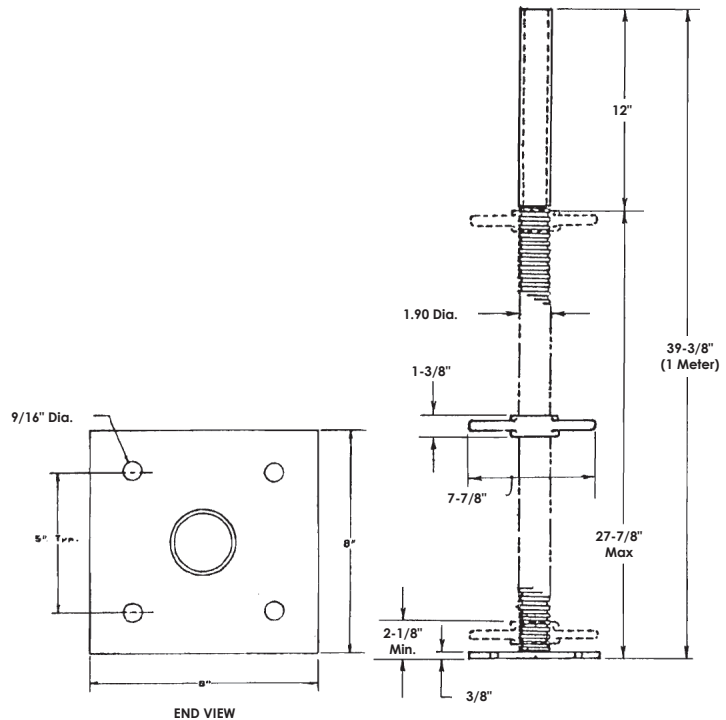
Crossbrace locking devices, which are a part of the frame, permits FrameFast Shore Frames to be erected and dismantled quickly. It locks in position up to two crossbraces and one spacer bar. This unique locking arrangement securely holds the frames together, providing tower rigidity and safety.



## Meter Screw Jack

The screw jacks are used for leveling, fine adjustment in elevation, and stripping clearance. The Meter Screw Jack is a full meter (39-3/8") in length with 1.9" OD, and provides a maximum extension of 27-3/8", longest in the industry. As a result, total adjustment range is 25-1/4", from 2-1/8" to 27-3/8".

An 8" x 8" base plate is welded to the jack as a unit, so the jack can be used at top of the shore leg or at bottom. The plate has four holes which are used to clamp the W 8 x 10 stringer using the Versiform Friction Clamp, or Aluminum Attachment Clip. These holes are also used to attach the 8" x 8" U-Head Adapter.



# POST SHORES

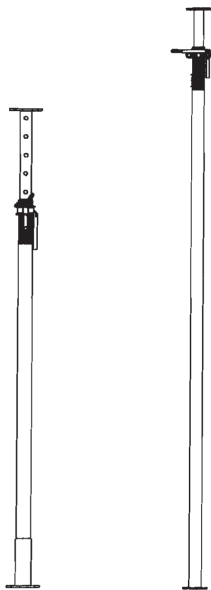
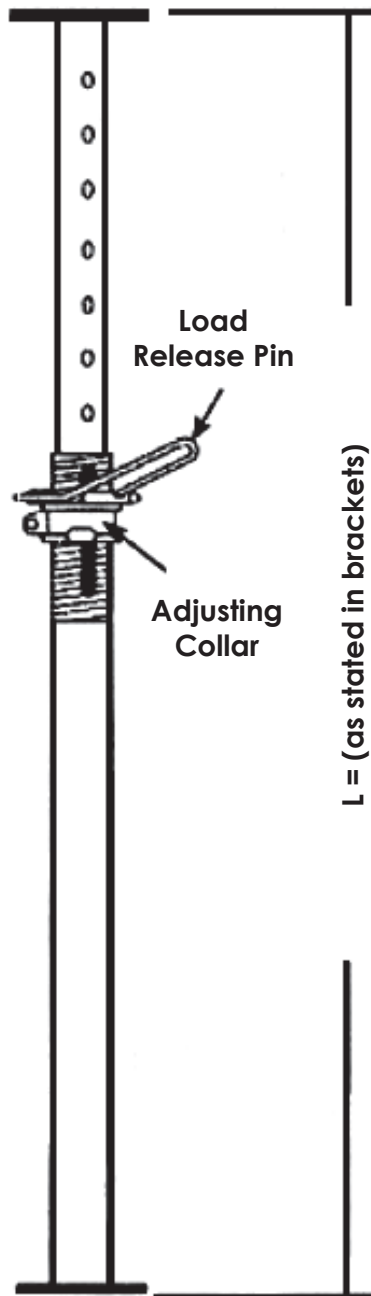
## HORIZ. FORMING & SHORING

### Medium Duty

The Medium Duty Post Shore is a single piece load carrying device with a built-in adjustment feature to facilitate handling without sacrificing convenience. It can be used by itself or in combination with shoring frame system.

- Safety factor of 3:1.
- Fitted with quick release stripping pin for easy assembly and dismantling.
- Hot dip galvanized comes standard.

	Post Shore 350 SAF T552147	Post Shore 550 SAF T463087
Range	6'-6" to 11'-5"	10'-1" to 18'0"
Weight	46.5 lbs.	74.2 lbs
Height	Load Ratings (lbs.)	
9'	6,400	--
10'	5,600	8,800
11'	4,300	8,000
12'	--	6,700
13'	--	5,700
14'	--	4,800
15'	--	4,100
16'	--	3,500
17'	--	3,100
18'	--	2,700



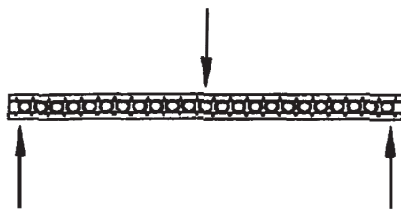
TYPE: 350 550

**Soldier Beam** for use in forming and construction were developed in England years ago to reduce the need for scarce and high-priced lumber. They were brought to the U.S. and improved upon when the same conditions appeared in this construction market.

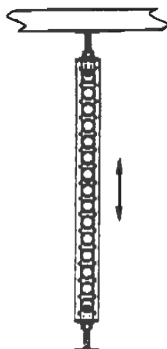
Symons has improved on the original design to produce the "next generation", the most versatile, compatible construction beam system available.

Soldiers are a strong, lightweight construction beam system with unlimited application possibilities. They are truly the "next generation" because of their unique hole patterns which make them adaptable to almost any configuration. When used in conjunction with their accessories, Soldiers can be braces, horizontal shore, vertical shores, strongbacks, walers, cantilever stiffbacks, trusses and many other forming components.

Soldiers are compatible with all Symons Forming Systems. They can be the waler and strongback system for Steel-Ply®, or Versiform®; they can be the one-sided bracing or cantilever stiffbacks for Max-A-Form®; they can be the truss and shoring for custom applications.



SOLDIER BEAM AS A BEAM



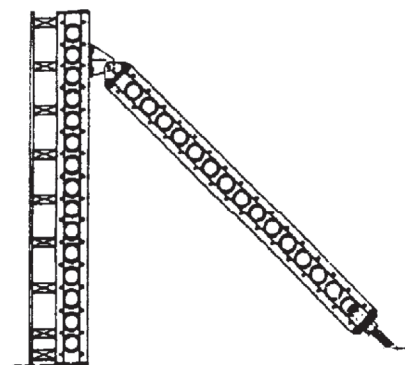
SOLDIER BEAM AS A POST SHORE

Soldiers are double, 9", specially formed channels of 10 gauge, high strength steel. The end plates are perpendicular to the channels. When bolted together end-to-end with four  $\frac{3}{4}$ " x 2" Speed Bolts, the Soldiers become a straight, continuous beam which develops its full strength through the connection. Hole patterns in all faces of the channels and in the end plates accommodate the accessories and permit assembly in many configurations.

Soldiers are lightweight and strong. They are as light as double 5" channels and as strong as double 8" channels. The engineering data confirms the impressive strength-to-weight ratio of Symons Soldiers.

#### Soldiers Feature:

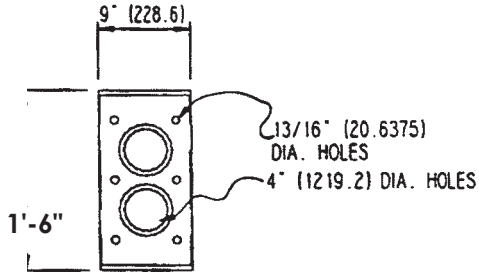
- Unique hole pattern permits a wide variety of assembly configurations.
- All accessories bolt to the Soldier with  $\frac{3}{4}$ " x 2" Speed Bolt.
- Soldier is fabricated with strong, but lightweight 50 ksi steel.
- Accessories are bolted directly to the Soldier at any point along web.
- End-to-end connection provides same moment capacity as beam.
- A complete line of accessories and hardware are available.



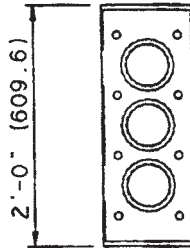
SOLDIER BEAM AS A BRACE

# SOLDIER BEAM

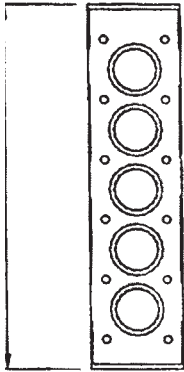
HORIZ. FORMING & SHORING



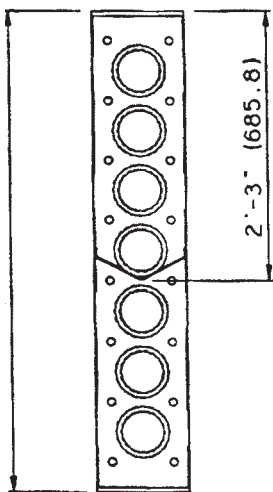
1'-6" (457.2) SOLDIER BEAM  
SY 38900 WT. 45 Lbs.  
(20.41Kg)



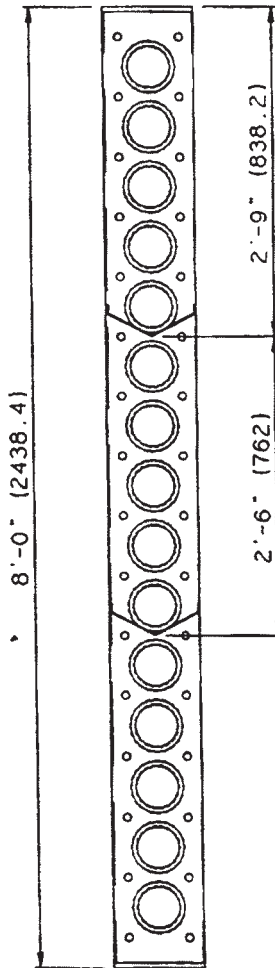
2'-0" (609.6) SOLDIER BEAM  
SY 38903 WT. 52 Lbs.  
(23.58 Kg)



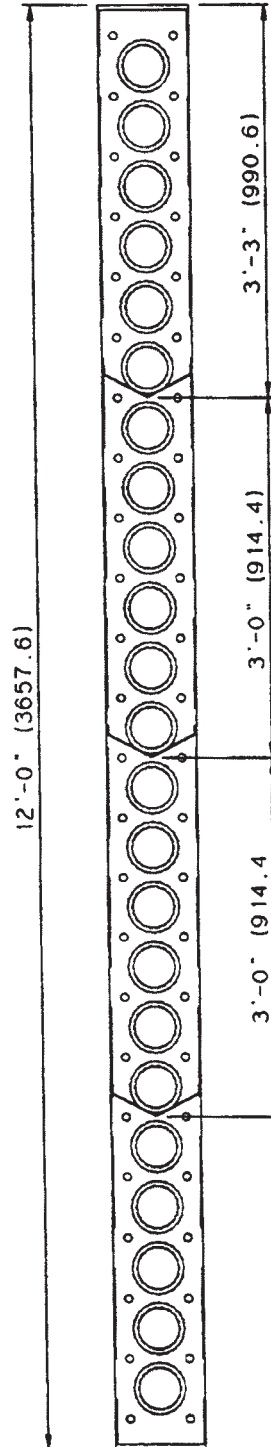
3'-0" (914.4) SOLDIER BEAM  
SY 38917 WT. 67 Lbs.  
(30.4 Kg)



4'-0" (1219.2) SOLDIER BEAM  
SY 38901 WT. 83 Lbs.  
(37.65 Kg)



8'-0" (2438.4) SOLDIER BEAM  
SY 38902 WT. 148 Lbs.  
(67.13Kg)



12'-0" (3657.6) SOLDIER BEAM  
SY 38904 WT. 212 Lbs.  
(96.16 Kg)

LENGTH	CAPACITY
2' - 0"	37.3 kips
↓	↓
12' - 0"	37.3 kips
13' - 0"	37.1 kips
14' - 0"	36.8 kips
15' - 0"	36.3 kips
16' - 0"	35.5 kips
17' - 0"	34.3 kips
18' - 0"	32.9 kips
19' - 0"	31.2 kips
20' - 0"	29.4 kips
21' - 0"	27.7 kips
22' - 0"	26.3 kips
23' - 0"	25.1 kips
24' - 0"	24.1 kips
25' - 0"	23.3 kips
26' - 0"	22.7 kips
27' - 0"	22.2 kips
28' - 0"	21.8 kips
29' - 0"	21.5 kips
30' - 0"	21.1 kips
31' - 0"	20.8 kips
32' - 0"	20.4 kips
33' - 0"	20.0 kips
34' - 0"	19.5 kips
35' - 0"	18.8 kips
36' - 0"	18.1 kips
37' - 0"	17.2 kips
38' - 0"	16.3 kips
39' - 0"	15.3 kips
40' - 0"	14.3 kips

## SOLDIERS AS A POST SHORE

### GENERAL NOTES:

All loads include a 3 to 1 factor of safety.

Load capacities are based on 12" strut jack extension.

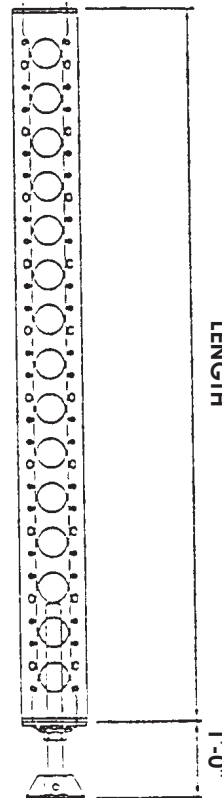
Gangs shorter than 28'-0" did not vary more than 3/8" in straightness.

Gangs 28'-0" and longer did not vary more than 1" in straightness.

Post shore should be plumb to 1/8" in 3'-0" or 2" total. Whichever is less.

All post shore lengths are unbraced.

Brace as required for erection purposes and stability.

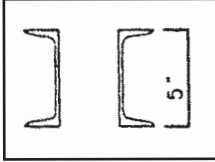
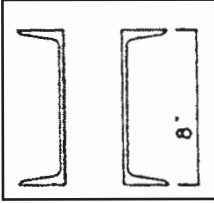
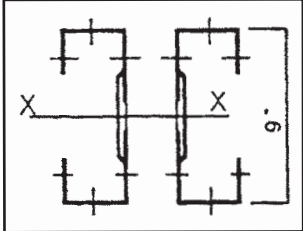


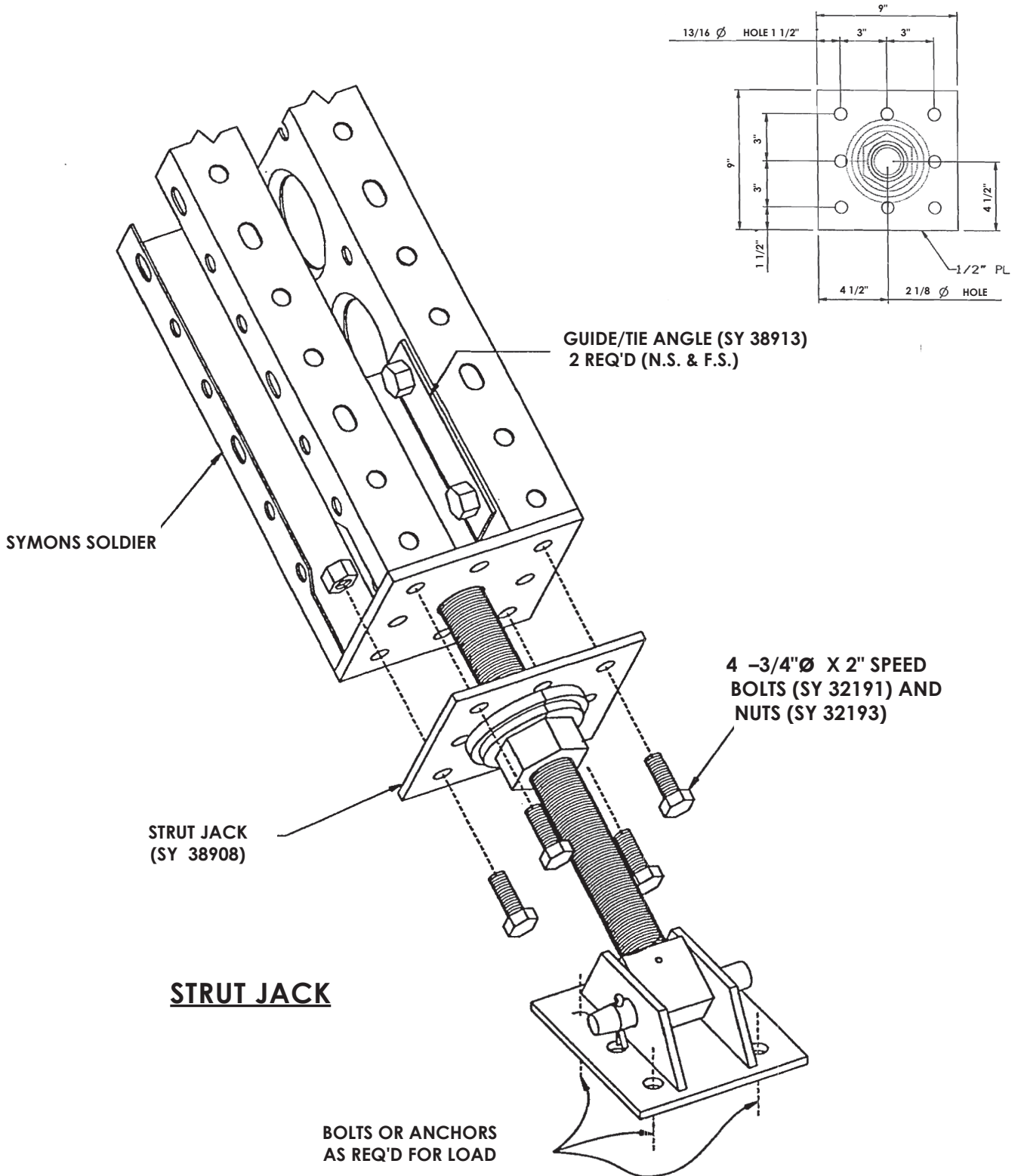
Reference diagram for orientation of strut jack to the strong axis of the soldier.

# SOLDIER BEAM

## WALER/SOLDIER BEAM COMPARISON

X-X AXIS (STRONG AXIS)

	5" V/F WALER	8" V/F WALER	SOLDIER BEAM
			
MAT'L SPEC	A 36	A 36	ASTM A570 GD. 50
WEIGHT (LBS/FT)	12.14	23	20 AVG
(N/M)	177.2	335.7	291.9 ABG
A (IN <sup>2</sup> )	3.94	6.76	4.148
(mm <sup>2</sup> )	2542	4361	2676
S IN <sup>3</sup>	6.0	16.28	13.39
(mm <sup>3</sup> )	9.832E4	26.68E <sup>4</sup>	21.94E <sup>4</sup>
I (IN <sup>4</sup> )	14.98	65.2	60.28
(mm <sup>4</sup> )	6.23 E6	27.14E <sup>6</sup>	25.09E <sup>6</sup>
R (IN)	1.95	3.11	3.14
(mm)	49.53	28.99	79.8

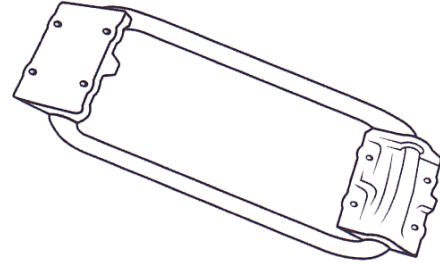


# ELLIS SHORES

## HORIZ. FORMING & SHORING

### Shore Clamp

Composed of 2 shore clamps and 2 lengths of 4x4 lumber. The 2 clamps are attached to the lower 4x4 and upper 4x4 is slipped beneath the clamp and raised until it is the desired height where it automatically locks itself. Final adjustment is made with the shore jack which raises the shore.



No.	Description	Wt (lbs)
EL SC	4/4 Shore Clamp	3.0

### RESULTS ON ELLIS SHORES

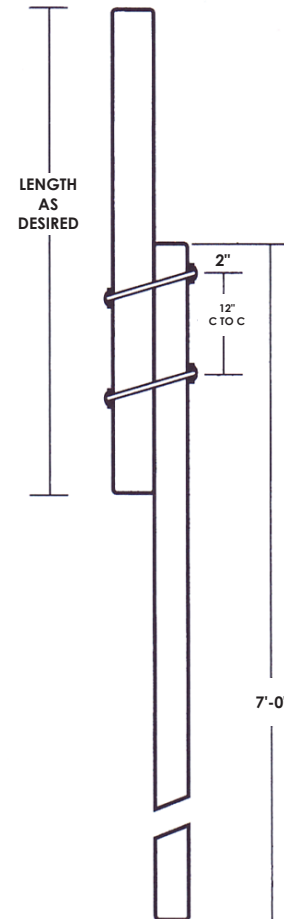
Load per Shore	Deflection in inches 2 Clamps per shore
1,000 lbs	0.000 inches
2,000 "	0.005 "
3,000 "	0.021 "
4,000 "	0.063 "
4,500 "	0.092 "
5,000 "	0.127 "
6,000 "	0.172 "
7,000 "	0.213 "
8,000 "	0.249 "
9,000 "	0.319 "
10,000 "	0.449 "

The above tests were made with ELLIS Clamps on No. 1 Douglas Fir ELLIS Sticks; Clamps were driven down with a carpenter's hammer before the load came on. The ELLIS Jack, as is, will lift 1,400 lbs. With a 3' piece of pipe slipped on the handle, the Jack will lift 3,000 lbs.

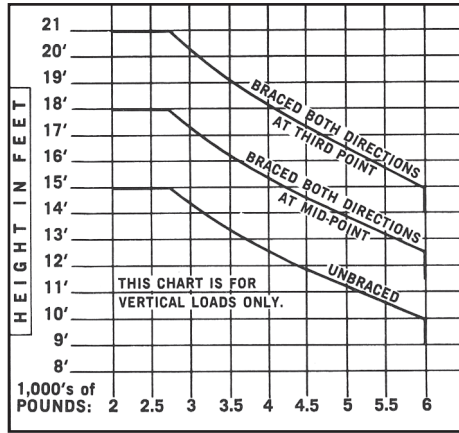
### Re-Shore Spring

Holds Ellis Shore in place during re-shoring. Made of high carbon spring steel.

No.	Description	Wt (lbs)
EL RS	4/4 Re-Shore Spring	0.20







← ALLOWABLE LOAD FOR ELLIS 4 X 4 SHORES

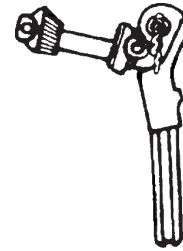
### Allowable Load Chart

Allowable maximum value of 6,000 lbs. per shore is based upon a safety factor of 3, against failure of the mechanical mechanism of splice joint.

**ALLOWABLE LOAD:** Table based upon allowable unit stresses of 1,500 lbs. per sq. in. for wood members of fir or yellow pine, free of knots. This table is based upon approved engineering standards, but does not compensate for unusual conditions.

### Hand Jack

For fast, easy shore height adjustment. Makes leveling shores and purlins simple.



No.	Wt (lbs)
EL EJ	14.0

### Screw Jack

Transforms a 4x4 into an adjustable reusable shore. Allows 6" standard adjustment using acme threads and built in handle. Simple to install and remove.

No.	Wt (lbs)
EL SJ	12.0



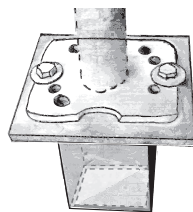
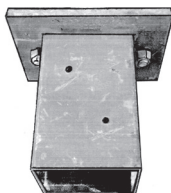
### MAXIMUM SAFE WORKING LOAD (LBS.) Douglas Fir Dimensional Lumber (3-1/2" Square)

Total Shore Height Including Jack	Maximum Load Capacity
4'	15,000
6'	12,000
8'	7,200
10'	5,000
12'	3,000
14'	2,600
15'	0

### 4"x4" / Drophead Adaptor

Used with a 4x4 wood post to attach the HV Drophead when custom short posts are required, or to provide a connection to an aluminum joist/stringer.

No.	Wt (lbs)
MAS 1562	8.0



← DROPHEAD ADAPTOR

Screw Jack Is Included In Shore Height Calculations.  
Lumber Must Be Cut Square On Both Ends.  
Capacities Include A Standard 2-1/2 To 1 Safety Factor.

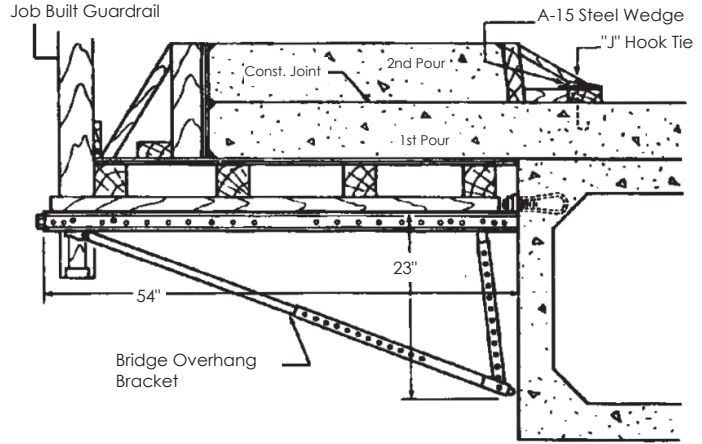
# OVERHANG BRACKETS



**HORIZ. FORMING & SHORING**

## Adjustable Overhang Bracket

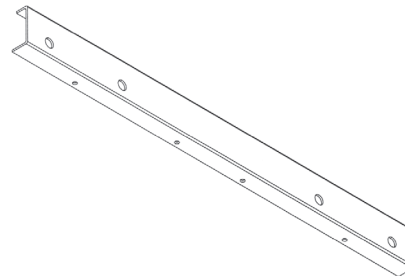
The Versatile Bridge Overhang Bracket features maximum adjustability to meet the overhang forming requirements of both steel and precast/prestressed concrete bridge beams. The 22" of adjustment provided by the diagonal leg combined with the 20" of adjustment in the vertical leg, both adjustable in increments of 2", allows for maximum versatility in overhang formwork design. Adjustment is easily accomplished using one 1/2" NC Bolt and Nut per leg meeting ASTM Specification A449. The adjustable nut controls 21" of vertical movement at the outboard end of the bracket to handle the various slopes encountered on bridge overhangs. Overhang brackets set 1/4" to 1/2" above finished grade allows for dead load deflections. If required, final adjustment to grade may be made during the placement of concrete. The adjusting nut also allows the Overhang Bracket to be adjusted downward for easier stripping of the overhang formwork.



No.	Description	Wt (lbs)
DS 95647	C-49	45.0

## Bracket Extender

The C-54 Extender attaches to the horizontal member of C-49 Bridge Overhang Brackets. It extends the usable walkway working surface of these brackets. For walkway, one C-54 Bridge Overhang Extender is required for each bracket.

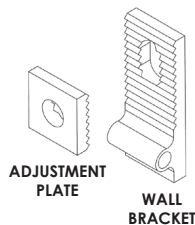


No.	Wt (lbs)
DS 60330	3.0

## Wall Plate Assembly

For C-49 adjustable overhang bracket used with 3/4" diameter bolt.

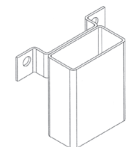
No.	Size	Wt (lbs)
DS 93790	Adjustable Plate	0.40
DS 93791	Wall Bracket	1.35



## Guard Rail Receptacle

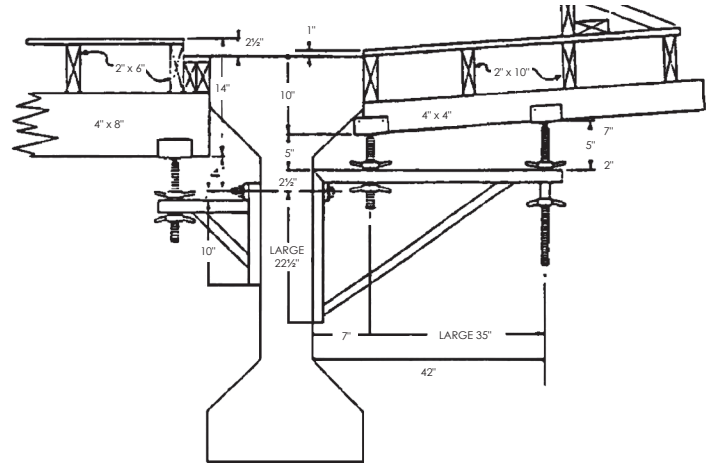
Attaches to the C-49 adjustable overhang bracket with 2 each 1/2" dia. x 3" NC bolts with nuts.

No.	Size	Wt (lbs)
DS 60320	2 x 4	3.5



## Overhang Brackets

Overhang brackets with up to 4,000 lb capacity, depending on anchorage, reduces number of hangers or brackets required. Forming for haunches or fillets simplified. Eliminates cutting deck forms and joists for hanger rods and welding of hangers. Inserts for 3/4" high strength bolts should be positioned when girder is cast or fabricated. Brackets should be bolted tightly to girder.



No.	Size	Wt (lbs)
CFA WOB	42"	50.0
CFA WSB	10"	18.0

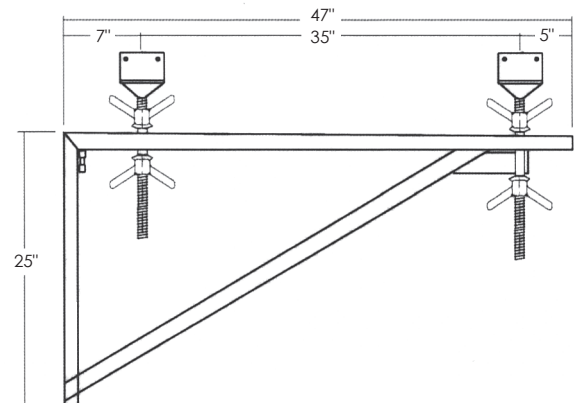
## C-49W Bridge Overhang Bracket

This bridge overhang bracket is engineered for West Coast Bridge Construction. The screw jacks extend up to 6". Steel support frame is stable to resist movement. Product meets ANSI Specification A 10.9, Sections 6.5.1, 6.6.1, 7.2.1 and ACI 347 Specification 2.4. It has a rated capacity of 4,000 lbs. Total load with an Anchor Safety Factor (FOS) = 3:1. The total load spread between both inner and outer jacks must not exceed 4,000 lbs. Maximum load to the outer jack must not exceed 1,500 lbs. and the maximum load to the inner jack must not exceed 3,000 lbs.

To achieve the bracket maximum load, the concrete anchor and anchor bolt must be capable of supporting a combined:

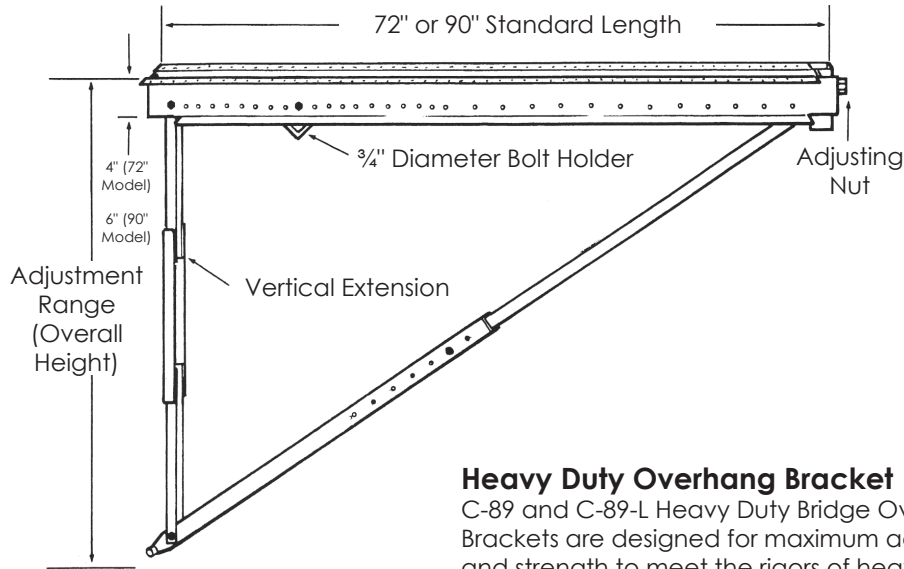
**SWL Shear = 4,000 lbs.**

**SWL Pull-out = 3,830 lbs.**



No.	Description	Wt (lbs)
DS WOBDS	C-49W	45.0

# OVERHANG BRACKETS



## Heavy Duty Overhang Bracket

C-89 and C-89-L Heavy Duty Bridge Overhang Brackets are designed for maximum adjustment and strength to meet the rigors of heavy cantilever/overhang applications. The C-89 bracket features 72" long, four inch horizontal channels and an overall vertical adjustment range of 27<sup>5</sup>/<sub>8</sub>" to 66<sup>3</sup>/<sub>4</sub>". The C-89-L bracket has 90" long, six inch horizontal channels and an overall vertical adjustment of 29<sup>5</sup>/<sub>8</sub>" to 68<sup>3</sup>/<sub>4</sub>".

Both brackets come equipped with nail holes in the top of the horizontal channels for attaching 2x6 or 2x8 lumber (flat) and both brackets have built-in guardrail receptacles for 2x4 guardrail posts.

The C-89 and C-89-L brackets can be used equally well on steel or precast concrete bridge girders with the appropriate 3/4" C-60 45° Pres-Steel Hanger (Type 9-A). The brackets can be shipped "knocked down" for easier handling and shipping and then preset on the ground at the job site.

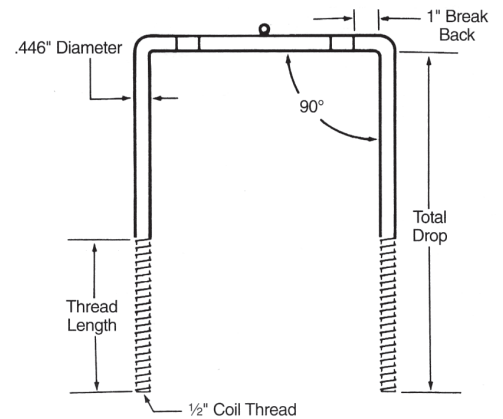
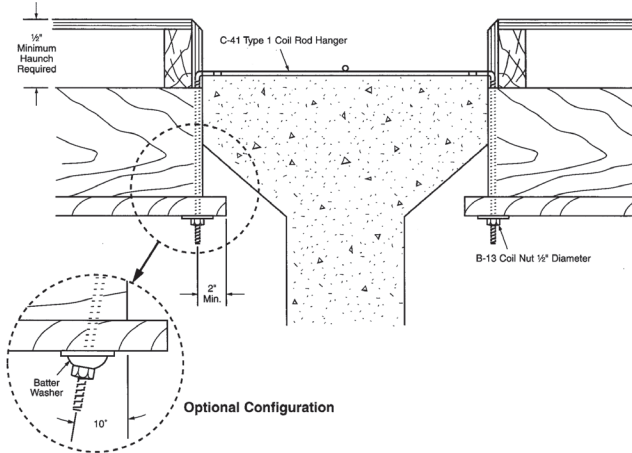
No.	Description	Wt (lbs)
SY 43720	C-89L (90")	159.0
SY 43721	C-89 (72")	145.0

**Warning:** Overhang Brackets should be adjusted to proper grade during normal "dry run" operations. DO NOT attempt an upward adjustment during the concrete pouring operations. Lowering the bracket adjustment during the concrete pour is permissible.

## C-41 Coil Rod Type 1

The C-41 Coil Rod Hanger is a simple yet strong method of hanging formwork from structural steel beams with haunches of any height. These hangers are designed to break back inside the concrete. Break back is accomplished by placing a length of pipe over the exposed end of the hanger and working the end back and forth. Can be used to form haunches of 1/2" or more. SWL 4,500 per side. Hangers must be equally loaded on both sides.

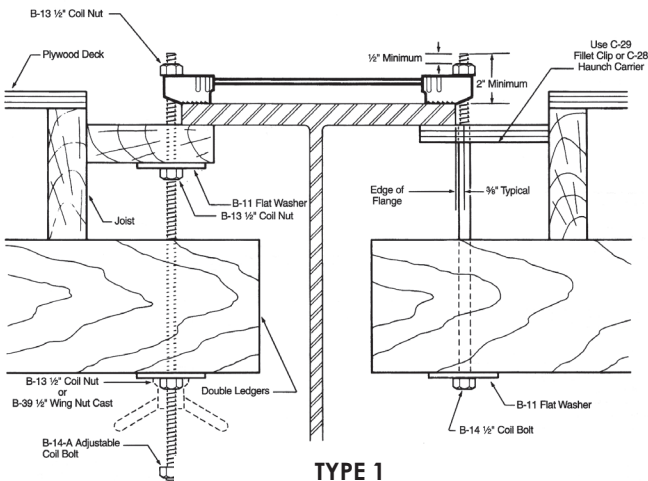
**Note:** Hanger is fabricated 1/2" wider than flange width specified.



## C-60 Pres Steel Type 1

The C-60 Pres-Steel Hanger-Type 1 is used for a zero haunch condition and consists of two 1/2" end sections welded to a single wire strut. The hanger allows installation and adjustment from the top of the formwork and works equally well on steel or precast concrete beams. Safe working load is 3,500 lbs. per side. Hangers must be equally loaded on both sides.

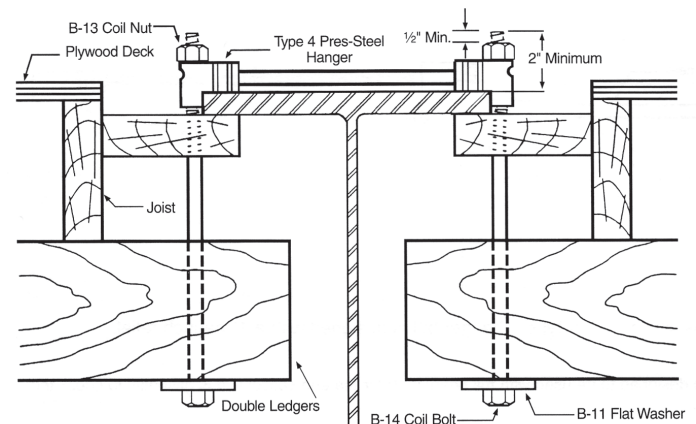
**Note:** The C-60 Pres-Steel Hanger-Type 1 is designed to be used with full bearing under the end sections. It is essential to check the exact beam width dimensions before ordering.



**TYPE 1**  
Adjustable coil bolt assembly

## C-60 Pres Steel Type 4

The C-60 Pres-Steel Hanger-Type 4 is fabricated with two 90° 1/2" interlock type end sections welded to a substantial wire strut. The Type 4 hanger is a high strength hanger used to support bridge deck interior formwork and is especially designed to react to lateral force prevalent in many forming conditions. Safe working load is 6,000 lbs. per side. Hangers must be equally loaded on both sides.



**TYPE 4**  
Fixed length coil bolt assembly

SWL provides a factor of safety of approximately 2 to 1.

# HANGERS

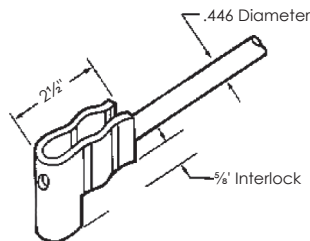
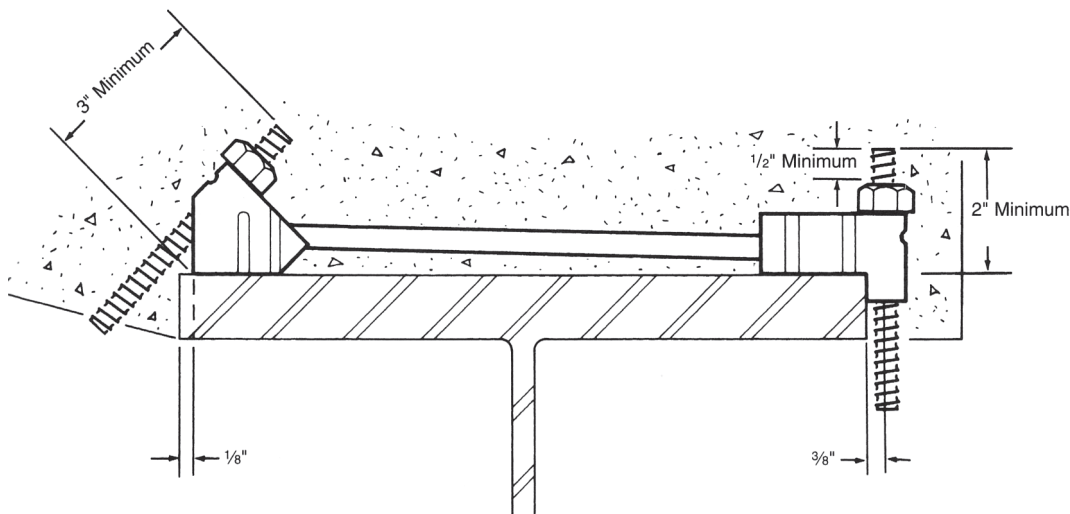
## C-60 Pres-Steel Type 4A

The C-60 Type 4A Pres Steel Hanger is used to suspend bridge overhang brackets when a finishing machine is supported on the overhang formwork. The user shall install the overhang brackets, hangers and form materials in such a manner that the Coil Bolts or Coil Rods make a  $45^\circ \pm 5^\circ$  angle with the top surface of the bridge beam.

Qualified personnel must accurately calculate the overhang bracket spacing so that the applied load passing through the Coil Bolt or Coil Rod is equal to, or less than the safe working load of the hanger.

Interior span loads must be calculated to determine the proper hanger spacing. When calculating interior span loads, always add a minimum of 50 pounds per square foot live load to the dead weight of the concrete. Safe working load is 6,000 lbs. per side.

**Note:** The C-60 Pres-Steel Hanger-Type 1 is designed to be used with full bearing under the end sections. It is essential to check the exact beam width dimensions before ordering.



DETAIL OF 90° END SECTION

SWL provides a factor of safety of approximately 2 to 1.

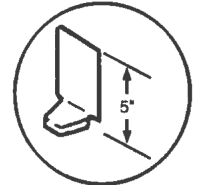
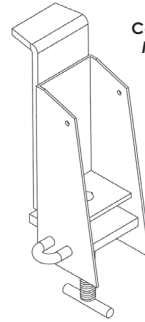
## Adjustable Joist Hanger

The Adjustable Joist Hangers are manufactured in two sizes. The C-65 hanger is sized to accept 2x joist material and the C-65-S hanger is designed to accept 4x joist material. Both models are fully adjustable and are adaptable to concrete beams, steel girders and box culverts. The Adjustable Joist Hangers are 100% reusable and are load rated at 3,000 pounds safe working load.

No.	Size	Wt (lbs)
DS C65	2x Joist	6.00
DS C65S	4x Joist	8.00
DS C65SC	4x Cover Shield	0.30

C-65 for 2x Material

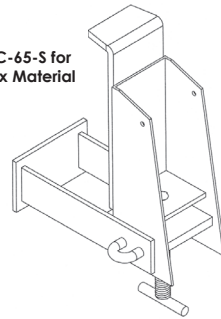
5" max. adj.



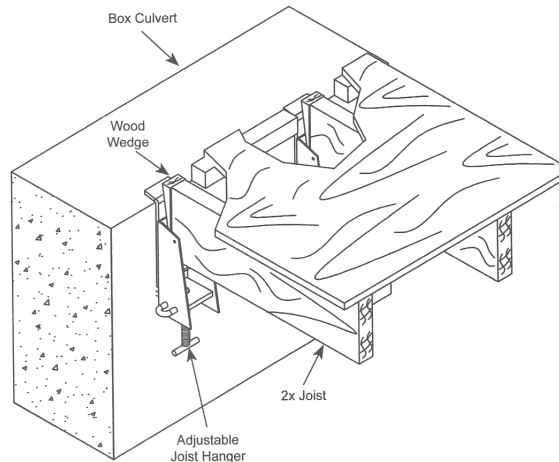
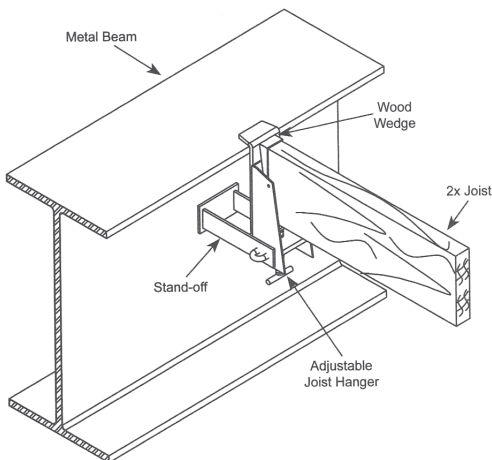
Cover Shield

C-65-S for 4x Material

6½" max. adj.



## ADJUSTABLE JOIST HANGER TYPICAL APPLICATIONS



SWL provides a factor of safety of approximately 2 to 1.

# SAFETY RAIL BRACKET

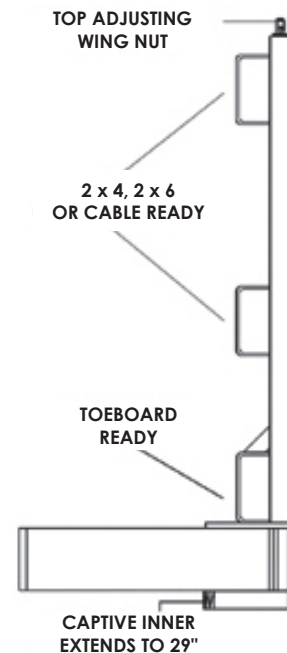
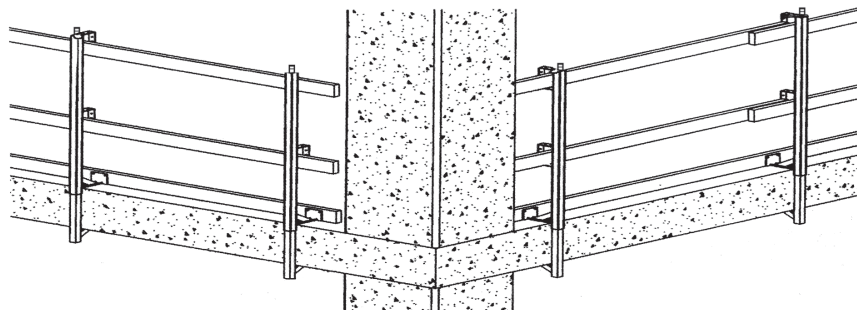
HORIZ. FORMING & SHORING

## Safety Guardrail Post

A strong clamp-on post opens wide and tightens quickly on slabs of any thickness from 0"-29", allowing for application to practically any project. Simple to install with a standing height wrench actuated top adjusting wing nut.

Galvanized for durability, the it is designed to withstand the toughest handling. The captive inner member extends to 29", preventing bottom piece from falling out.

No.	Wt (lbs)
CFA ASGRP	30.0





Columns are common features in concrete construction projects and there are several ways that they can be formed with modular systems. When helping contractors choose the best system for a particular application, it is important to maximize equipment utilization based on form reuse. It is also necessary to consider the column dimensions, rate of pour and the required concrete finish to select the most appropriate equipment.

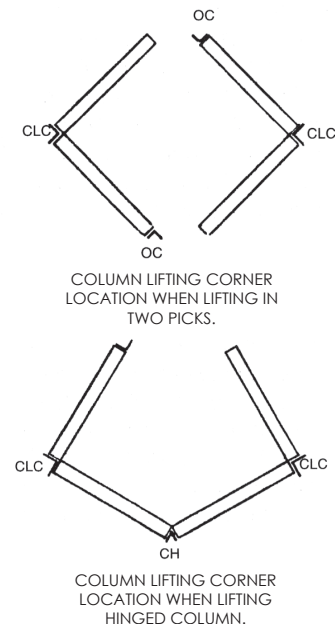
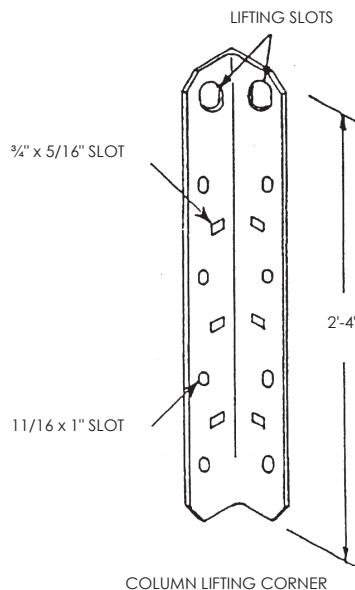
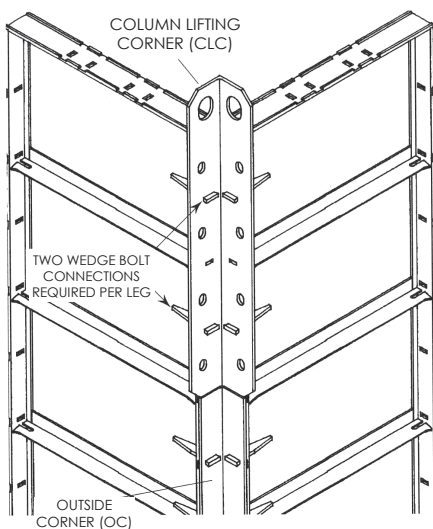
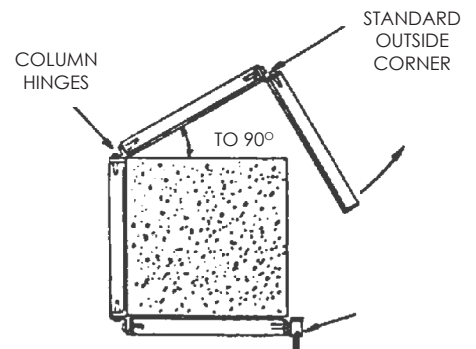
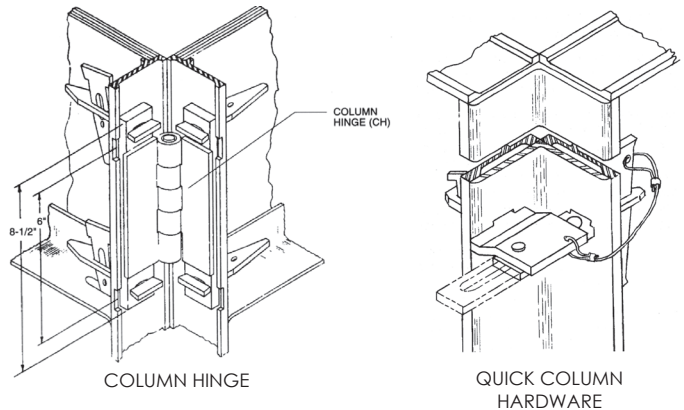
### Standard Steel-Ply® Without Ties

Any size column up to 24" wide can be formed without ties by using standard Steel-Ply panels or fillers. Columns can be handset with standard outside corners. Handsetting forms is productive for projects with just a few columns or columns with varying dimensions.

Columns can be also gangformed with a Column Hinge and a release corner for greater productivity. Quick Column Hardware is used in combination with the Column Hinge to provide a quick closure and release. This method of column forming with Steel-Ply virtually eliminates lost hardware and also provides maximum forming productivity, though you need a crane to move the equipment.

### Steel-Ply® Ganged Column Hardware

Column Hinges are used to hinge forms during setting and stripping. Quick Column Hardware, used opposite the Column Hinges, allowed the forms to be opened with hardware still in place. Used together, this column hardware speeds column productivity and increases labor productivity.

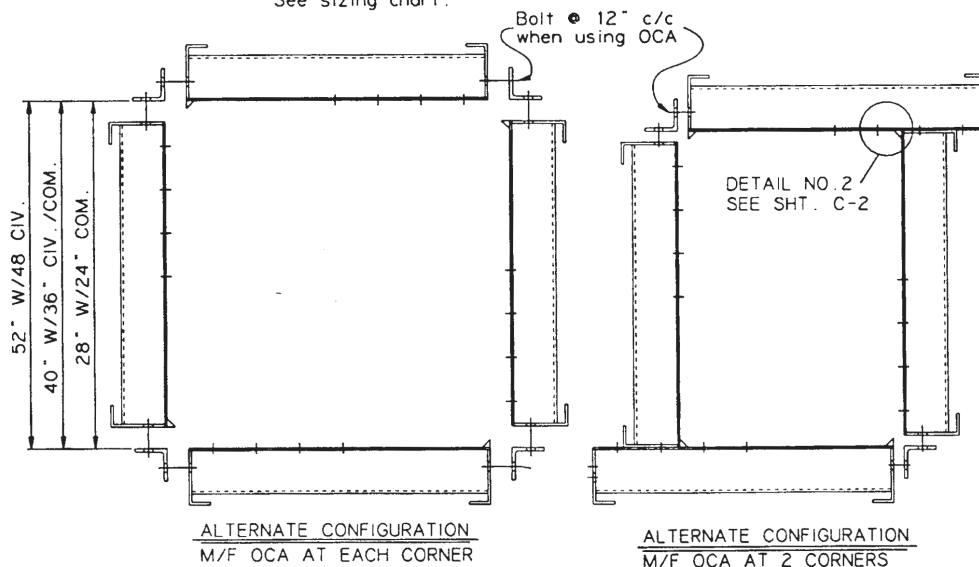
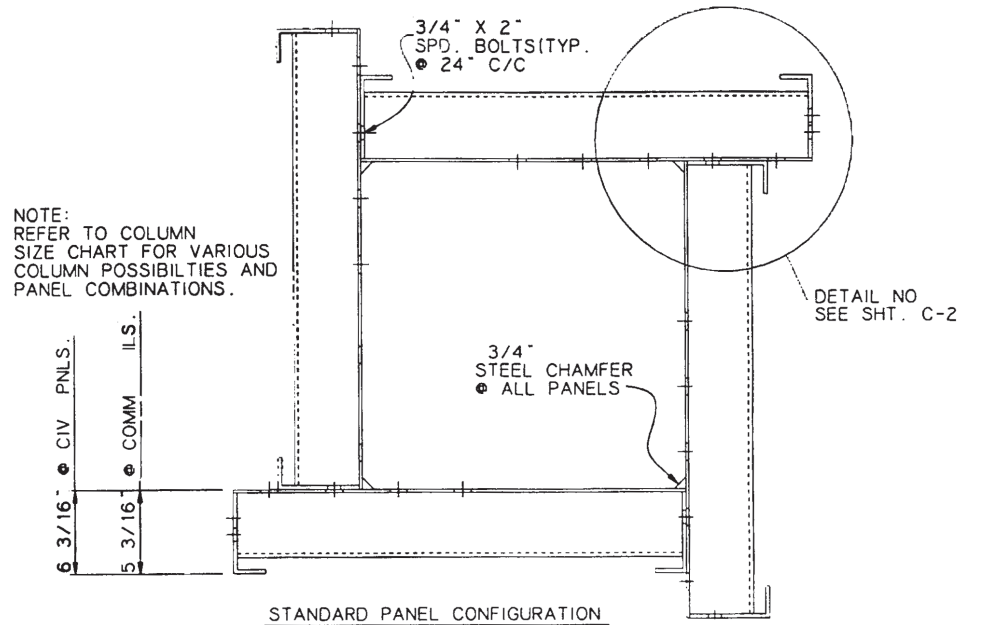


# ADJUSTABLE STEEL

## COLUMN FORMING

**Adjustable column form** is one of the most versatile and productive forming systems for forming square and rectangular columns. From 9" x 16" up to 48" square, the system embraces a phenomenal range of civil and commercial column sizes. This extremely adaptable system is also highly regarded for the excellent, consistent concrete finish produced each and every pour.

- 2000 PSF System
- 3/16" Steel Face
- 2'-0 Bolt Centers





M A S C O . N E T

# ADJUSTABLE STEEL

## COLUMN FORMING

### ADJUSTABLE COLUMN FORM

#### PANEL COMBINATIONS FOR VARIOUS COLUMN SIZES (IN INCHES)

#### 9" X 16" THRU 20" X 34"

9X	16	36civ/24com	12X	22	36civ/24com	16X	16	24com/24com	18X	18	24com/24com				
	18	36civ/24com		24com/24com	17		36civ/24com	20		24com/24com					
	22	36civ/24com		24	36civ/24com		18	36civ/24com		21	36civ/24com				
	24	36civ/24com		26	36com/24com		20	24com/24com		21	36civ/36civ				
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20" X 36" THRU 48" X 48" CONTINUED ON OTHER SIDE

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# ADJUSTABLE STEEL



## COLUMN FORMING

### ADJUSTABLE COLUMN FORM

#### PANEL COMBINATIONS FOR VARIOUS COLUMN SIZES (IN INCHES)

#### 20" X 36" THRU 48" X 48"

20X	36	36com/24com 36civ/24com 48civ/24com	22X	32	36com/36com 36com/24com 36civ/36com	25X	28	36civ/36com 48civ/36com	29X	40	48civ/36com 48civ/36com 48civ/36com	34X	34	36com/36com 36civ/36com 48civ/36com
	40	48civ/24com 48civ/24com 48civ/24com		33	36civ/36com 36civ/36civ 48civ/36civ		34	36civ/36com 48civ/36com		30	36com/36com 36civ/36civ 48civ/48civ 48civ/36civ		36	36com/36com 36civ/36com 48civ/36com
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ADD'L SQUARE  
COLUMN SIZES  
POSSIBLE  
USING MF-OCA

52X52 (48 CIV)  
40X40 (36 CIV)  
(36 COM)  
20X28 (24 COM)

BOLTS  
REQUIRED  
@ 12" CTRS  
WHEN USING  
MF-OCA.

9" X 16" THRU 20" X 34" CONTINUED ON OTHER SIDE



M A S C O . N E T

# MAX-A-FORM®

## COLUMN FORMING

**MAX-A-FORM® is a gang form system** that allows faster placement, pours and resetting. The strong, all-steel design allows forms to be set in larger units. Fewer crane picks are necessary and cycling time is optimized on repetitious pouring applications. Gang size is limited only by available crane capacity.

Forms are assembled easily using 3/4" Speed Bolt and Nut. Panels are punched with elongated holes in both the top and side framing, to allow easy alignment and quick assembly, regardless of panel orientation.

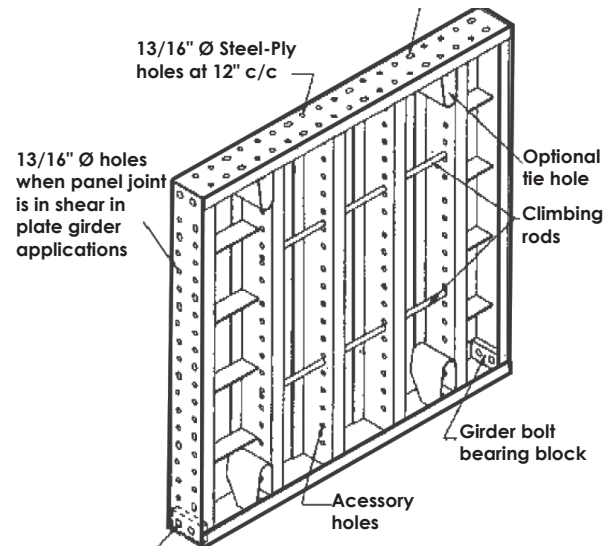
Panels are available in more than 100 sizes, from 2' wide by 1' long to 12' wide 20' long. The large number of filler choices allows more gang and detail flexibility. Large, 200 square foot panels mean fewer pieces, fewer panel joints and less labor to assemble.

Versatile tie systems are available with capacities and configurations to maximize cost effectiveness for each application.

Taper Ties and She-Bolts are used with Plate Washers or Cast Bearing Washers and nuts for efficient flat and battered wall applications.

External top and bottom ties are available in several lengths and adjustment ranges to accommodate a wide range of wall thickness and special applications.

Typical panel to panel connections utilize 3/4" x 2" speed bolts through 13/16" x 1-1/4" slots at 1'-0" c/c

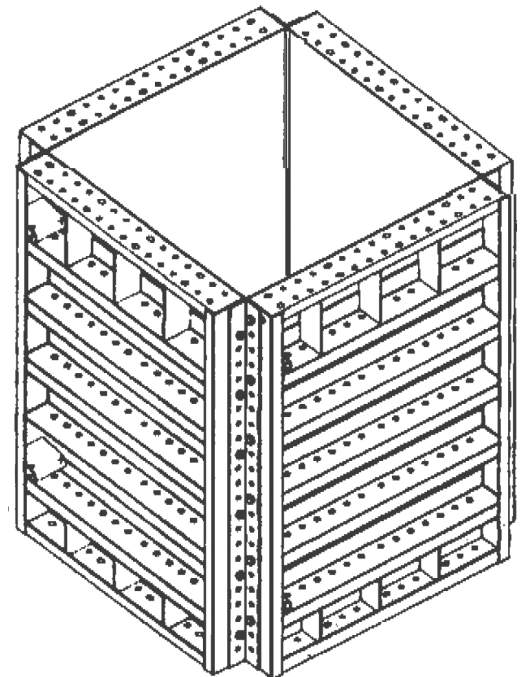


1-1/16" Ø hole for 1" Ø A325 bolts

Specifications:	
Skin Plate Thickness	3/16"
Pressure Ratings	8' width: 1,500 psf 10' width: 1,200 psf 12' width: 1,000 psf
Panel Width	2, 2.5', 3', 3.5', 4', 5', 6', 7', 8', 9', 10', 12'
Panel Length	1', 2', 3', 4', 5', 6', 7', 8', 10', 12', 20'
Approximate Weight	20 psf (assembled)
Panel Thickness	6-1/2" - 2' to 7' width 8-1/2" - 8', 9', 10' width 10-1/2" - 12' width

### MAX-A-FORM® For Large Columns

For large columns that require a concrete finish with few seams, Max-A-Form is often the systems of choice. Max-A-Form columns up to 8' wide can be poured without the use of internal ties. The Max-A-Form system features a 3/16" steel face for a consistently smooth finish, and panel heights of up to 20'. A heavy duty, 1500 psf rentable steel forming system ideally suited for forming square or rectangular bridge piers and columns. A complete line of accessories coupled with Masons system compatibility optimizes forming adaptability. No matter what type of column contractors encounter, Masons has equipment that will help them form these common structural elements quickly and cost-effectively.



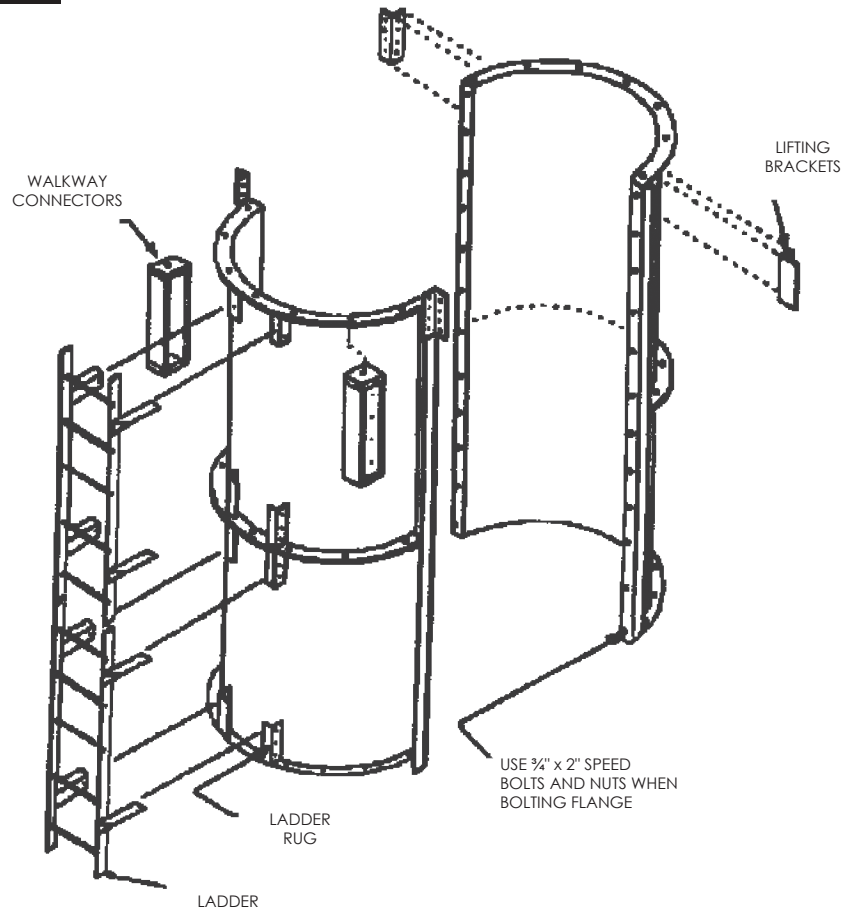
MAX-A-FORM® COLUMN

**MASONS SUPPLY COMPANY**

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### Steel Circular Column Forms

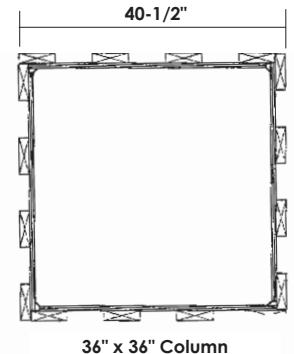
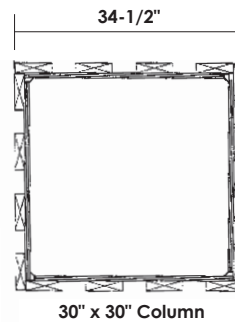
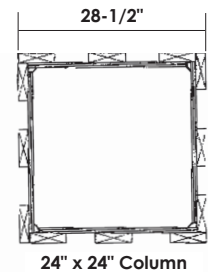
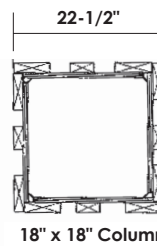
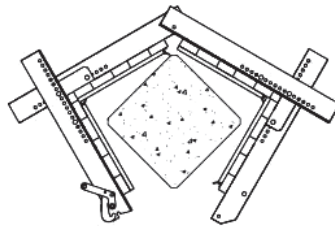
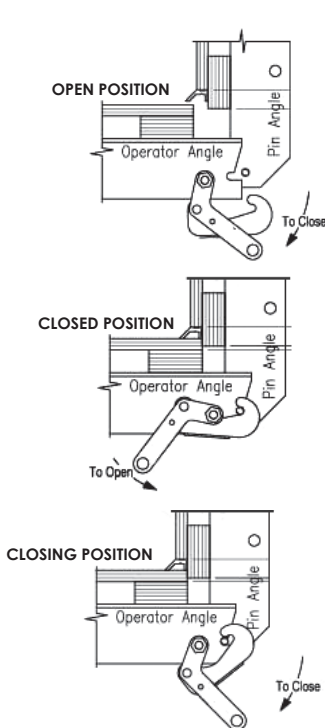
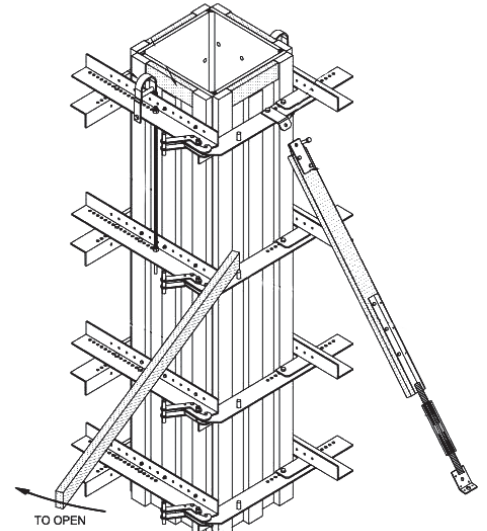
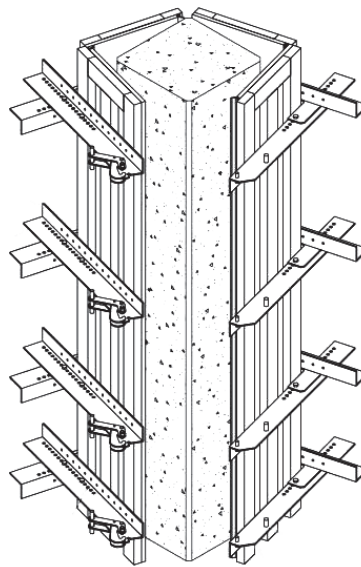
Heavy duty, all-steel Circular Forms provide consistently round, smooth concrete columns for building and bridge construction. Look at the comprehensive features of these Column Forms:

- A 3,000 psf pressure rating allows for fast pour rates.
- Wide variety of standard sizes available for rental or purchase. Sizes include:
- **Diameters:** 24", 30", 36", 42", 48", 54", 60", 72", 84" & 96"
- **Lengths:** 1', 2', 4', 8' and 10' (bolt together for desired height)
- **Other diameters and lengths for special conditions are always available for purchase.**
- Versatility allows Circular Column Forms to bolt to Steel-Ply®, Max-A-Form® and Flex-Form® Forming Systems. Flex-Form fillers allow attachment to Versiform®.
- Accessories include 3/4" Speed Bolts and Nuts for fast connections; lifting lugs for safe crane handling; bolt on ladders for worker access; and stripping wedges for fast cycling.
- There is an extremely low maintenance cost, and the cost per formed column is less than with other type column forms after only moderate reuse.
- Half sections can be used as bullnose forms with Masons standard wall forming systems.

## Lock Fast Column Clamp

Lock Fast Column Clamps have these advantages; they are job-built, gang formed. There are no loose pieces and they have a minimum of labor costs. They are designed for rapid placement of concrete. See chart for spacing requirements.

No.	Size	Wt (lbs)
	8" to 24" Assembly	60.0
GT 700566	8" to 24" Back Angles	12.0
GT 700567	8" to 24" Lok Angles	12.0
GT 700568	8" to 24" Pin Angles	12.0
	12" to 36" Assembly	78.0
GT 700569	12" to 36" Back Angles	17.0
GT 700570	2" to 36" Lok Angles	17.0
GT 700571	12" to 36" Pin Angles	17.0
	24" to 48" Assembly	98.0
GT 700572	24" to 48" Back Angles	22.0
GT 700573	24" to 48" Lok Angles	22.0
GT 700574	24" to 48" Pin Angles	22.0
GT 157931	Squaring Corner	3.0
GT 700582	1/2"x1-1/2" Bolts	
GT 700585	1/2" Lok Nuts	



# LOCKFAST COLUMN CLAMP



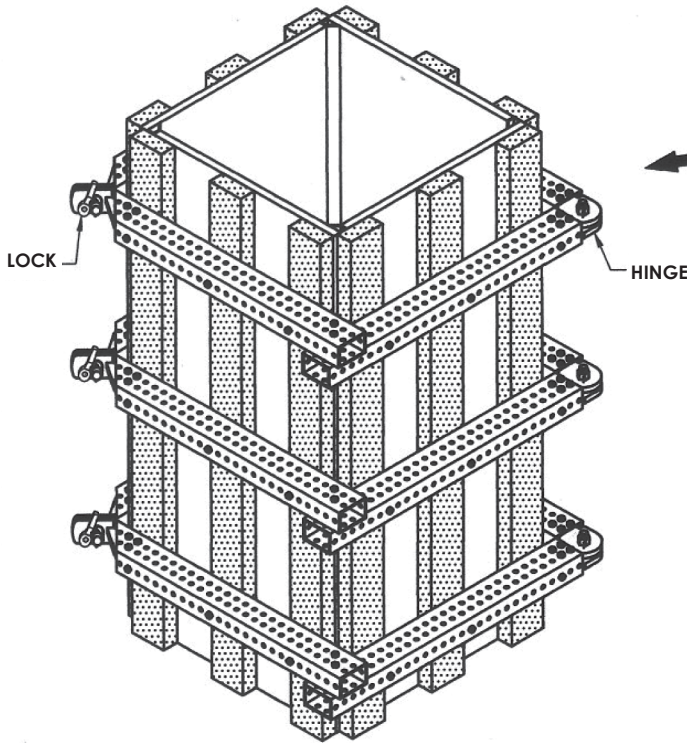
## COLUMN FORMING

### LOCKFAST COLUMN CLAMP

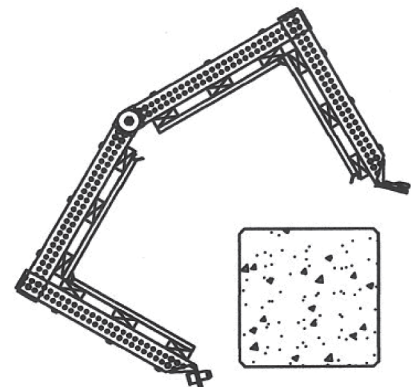
CONCRETE PRESSURE (PSF)	DISTANCE FROM TOP	SPACING IN INCHES: ( FT. / INCHES ):		DISTANCE BETWEEN CLAMPS DISTANCE FROM TOP OF COLUMN		
		8" TO 24" CLAMPS COLUMNS UP TO 24" X 24"	12" TO 36" CLAMPS COLUMNS 26" SQ. TO 36" SQ.	24" TO 48" CLAMPS COLUMNS 40" SQ. TO 48" SQ.		
(150)	1 FT.	12" TOP CLAMP	12" TOP CLAMP	8" TOP CLAMP		
(300)	2 FT.			18" (2'-2")		
(450)	3 FT.	30" (3'-6")	26" (3'-2")	18" (3'-8")		
(600)	4 FT.		20" (4'-10")	16" (5'-0")		
(750)	5 FT.	26" (5'-8")	16" (6'-2")	16" (6'-4")		
(900)	6 FT.		16" (7'-6")	14" (7'-6")		
(1050)	7 FT.	22" (7'-6")				
(1200)	8 FT.	18" (9'-0")	16" (8'-10")	12" (8'-6")		
(1350)	9 FT.			12" (9'-6")		
(1500)	10 FT.	15" (10'-3")	16" (10'-2")	12" (10'-6")		
(1650)	11 FT.	15" (11'-6")	16" (11'-6")	12" (11'-6")		
(1800)	12 FT.		12" (12'-6")	12" (12'-6")		
(1950)	13 FT.		12" (13'-6")	12" (13'-6")		
(2100)	14 FT.	16" (14'-2")	12" (14'-6")	12" (14'-6")		
(2250)	16 FT.	16" (15'-6")	12" (15'-6")	12" (15'-6")		
(2400)	16 FT.	6"	6"	6"		

NOTE: SPACING IS BASED ON USING 3/4" PLYWOOD AND 2"x6" LUMBER FLAT.  
FOR COLUMNS OVER 16' HIGH, MAINTAIN A 12" SPACING BELOW LAST SPACE SHOWN IN CHART.

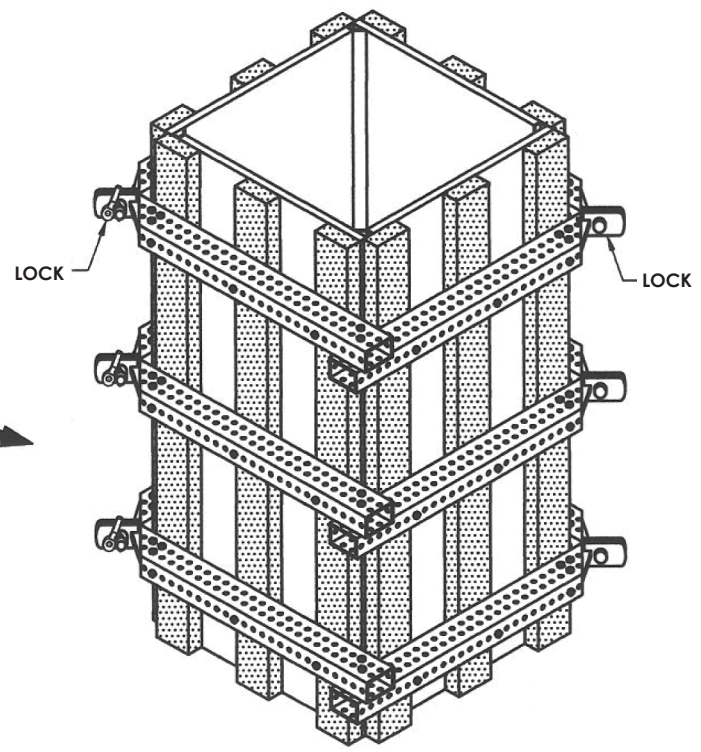




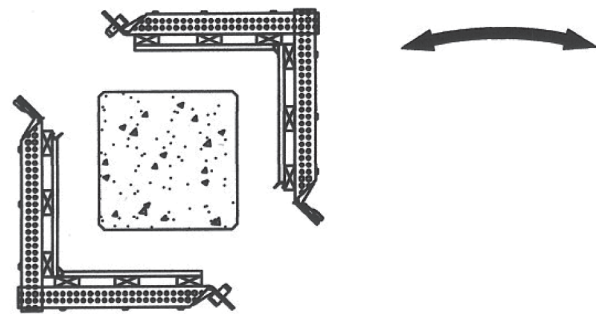
**HINGED ONE CORNER  
LOCK OPPOSITE CORNER**



**HINGED ONE CORNER  
LOCK OPPOSITE CORNER  
IN OPEN POSITION**



**DOUBLE LOCK  
TWO OPPOSITE CORNERS**



**DOUBLE LOCK  
TWO OPPOSITE CORNERS  
IN OPEN POSITION**

# LOK'N-SQUARE COLUMN CLAMP

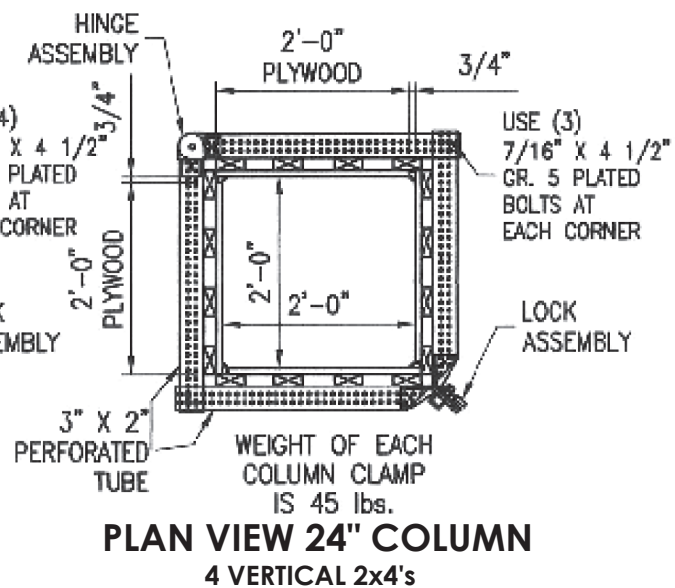
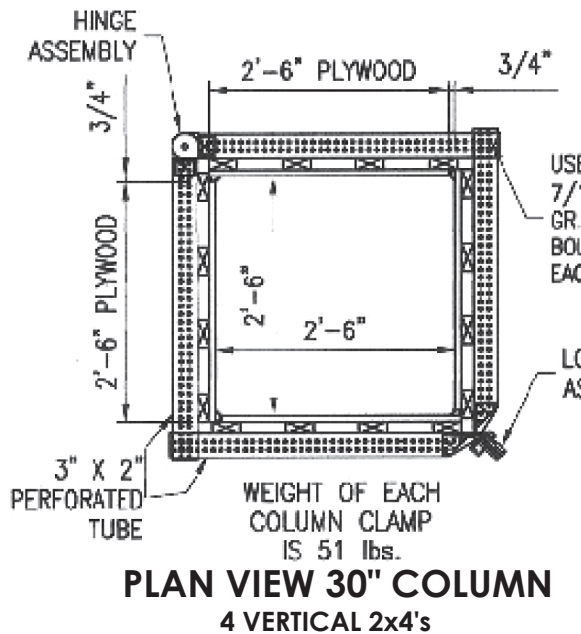
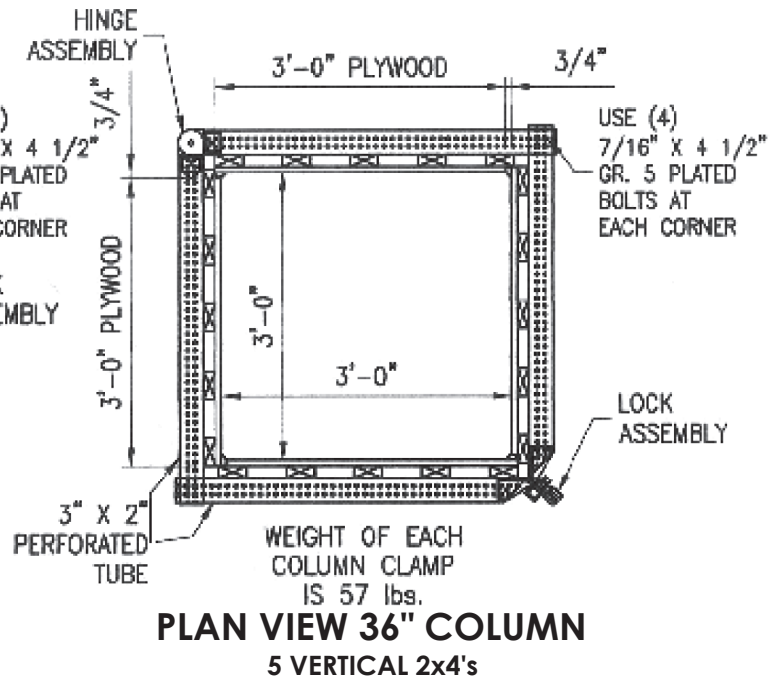
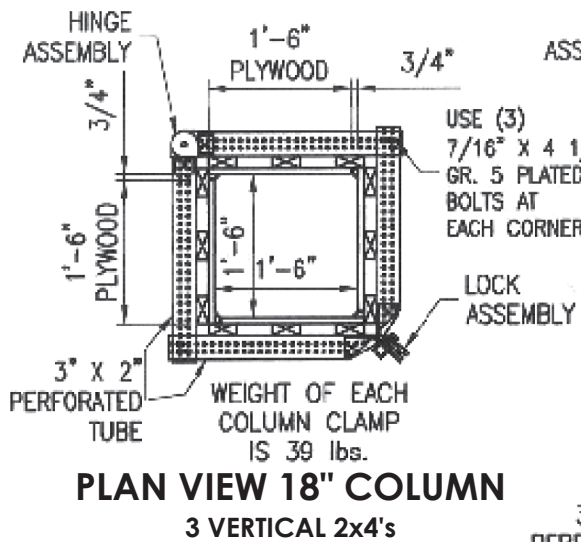


## COLUMN FORMING

### COLUMN SIZES

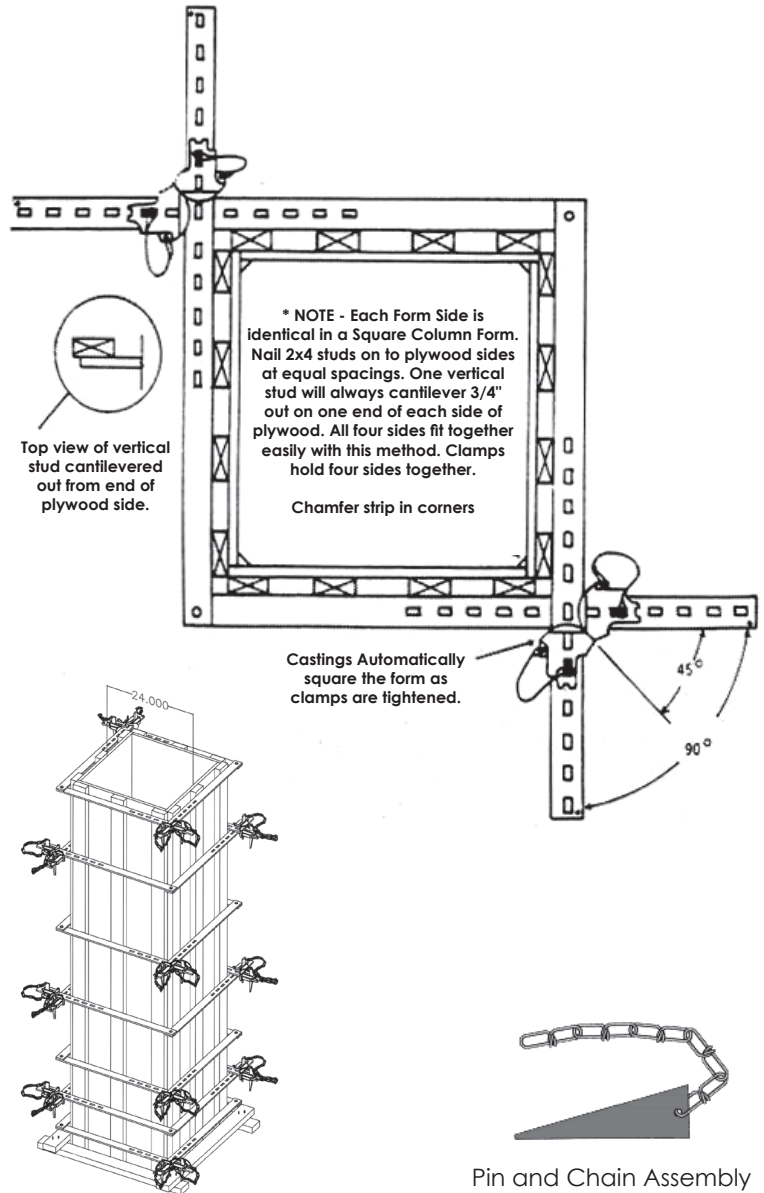
18" x 18" - 24" x 24" - 30" x 30" - 36" x 36"

EACH SIZE COLUMN CLAMP MAY BE REDUCED IN SIZE AS HOLES ARE ON 1" CENTERS.



### Scissor Clamp Spacing Chart

concrete pressure (psf)	distance from top ft	US - SPACING IN INCHES CLAMP SIZE					
		22"			35"		
		COLUMN SIZE - INCHES					
Top Clamp	0	16	20	22	24	30	35
			2	2	2	2	2
(150)	1 ft.	28	28	28	28	28	28
(300)	2						
(450)	3						
(600)	4	24	24	24	24	24	18
							11
(750)	5	20	20	18	20	12	11
(900)	6					12	9
(1050)	7	18	18	14	18	12	9
(1200)	8	16	16	13	12	10	7
(1350)	9			11		9	7
(1500)	10	16	13	10	12	8	6
				9	12	8	6
(1650)	11	15	13	9	10	7	
				9	10	7	
(1800)	12	14	11	8	10	6	
				8		6	
(1950)	13	13	11	8	9	6	
				7	9	6	
(2100)	14	13	9	7	9	6	
				7	9	6	
(2250)	15	12	9	7	8		
				7	8		
(2400)	16	12	9	6	8		
				6	8		
		12	8	6	7		



### Scissor Clamp

Used for columns of net concrete size from 10-1/2" to 35". Clamps are adjustable to fractions of an inch, no blank spots. Clamps are complete so no needless delays. Hammer is only tool needed to tighten and remove. They open either way, either side up and automatically squares the column.

No.	Description	Wt (lbs)
SY 87137	10-1/2" to 22"	40.0
SY 87147	16" to 35"	56.0
DD PINCHN	Pin & Chain Replacement	1.0

# ROUND CONCRETE FORM

## COLUMN FORMING

### Round Concrete Form

Lightweight and easy to handle. Easily sawed to proper length on job site. Versatile and can be cut, drilled or scored for numerous construction applications. Available in a variety of types and sizes to meet different forming needs. Placing, bracing, pouring, stripping and finishing require less time and less labor. Skilled labor not required as with permanent forms. One-piece forms for a multitude of one-time uses. Concrete forms require no cleaning, reassembling or return shipping. And, you can set and pour multiple columns at one time.

#### How to store

Store concrete forms in a dry place at the job site:

- ◆ For best results, store forms vertically to maintain roundness.
- ◆ Keep ends covered at all times.
- ◆ If stored horizontally, elevate a minimum of 4 inches off the ground and support the full length of the forms.

#### Placing

Even the largest concrete forms are easier to place either manually with block and tackle, or by crane:

- ◆ Position over a reinforcing bar cage if desired.
- ◆ Avoid damaging the inside surface.
- ◆ Place individually or in groups for continuous pouring.

#### Bracing

Concrete forms require minimal bracing to be brought to plumb:

- ◆ Use light lumber or scaffolding.
- ◆ Secure the column foot with collars if necessary.
- ◆ If pouring bents for bridges, consider tying the column form in with the beam form.
- ◆ Concrete forms can also be tied into other forms or structural members.

#### Pouring

Note: Use a release agent with all forms, especially when working with aggressive concrete formulations.

Concrete forms are engineered not to buckle, swell or lose shape, and have been successfully used with a continuous pour of column. Do not exceed ACI-recommended pour rates.

#### Stripping

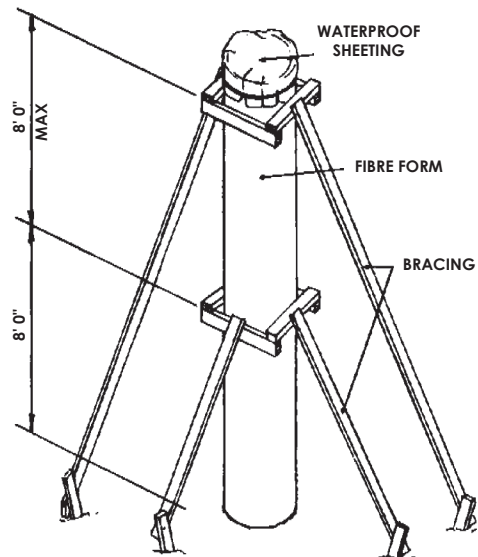
Strip the form as soon as possible after the concrete has set to prevent concrete from sticking to the form. Recommended time for the easiest and fastest stripping is 24 to 48 hours after the pour. Concrete forms should not be left on the column for more than 5 days.

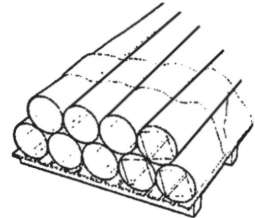
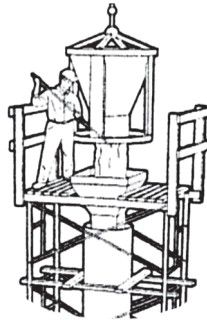
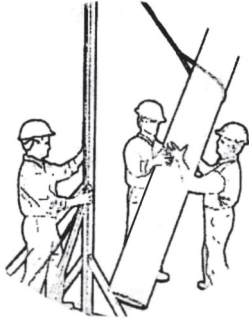
#### Stripping options:

- ◆ Use a circular power saw to make two vertical cuts on opposite sides of the form. To prevent marring, make sure the depth of cut is not set too deep. Remove the form.
- ◆ Use a utility knife to cut the form from the top down at least 12 inches. Use a broad-bladed tool such as a shovel and short strokes to pry the form away from the column in a spiral motion. **Stripped forms can be used to protect finished columns until completion of project.**

No.	Diameter	Length	Wt/Lf	Cubic Yards Concrete/ft of Height
ST 6L	6"	12' Regular Wall	0.71	.0073
ST 8L	8"	12' Regular Wall	0.95	.0129
ST 10L	10"	12' Regular Wall	1.32	.0202
ST 12L	12"	12' Regular Wall	1.70	.0291
ST 14L	14"	12' Regular Wall	2.31	.0396
ST 16L	16"	12' Regular Wall	2.69	.0517
ST 18L	18"	12' Regular Wall	3.39	.0654
ST 20L	20"	12' Regular Wall	3.76	.0808
ST 24L	24"	12' Regular Wall	5.07	.1164
ST 30L	30"	12' Regular Wall	8.44	.1818
ST 36L	36"	12' Regular Wall	10.11	.2618
ST 42L	42"	12' Regular Wall	12.50	.3563
ST 18	18"	18' or 20' Heavy Wall	4.67	.0654
ST 20	20"	18' or 20' Heavy Wall	5.18	.0808
ST 24	24"	18' or 20' Heavy Wall	7.34	.1164
ST 30	30"	18' or 20' Heavy Wall	11.28	.1818
ST 36	36"	18' or 20' Heavy Wall	13.51	.2618
ST 48	48"	10' Heavy Wall	21.60	.4654
ST 60	60"	10' Heavy Wall	27.30	.7269

Other lengths available on request.





### Finish Free Round Concrete Forms

Coated to impart a smooth, finish-free surface. They are easy to set up and brace. Rain-resistant and durable in all kinds of weather. Available in a variety of types to meet different forming needs. Easy to cut and drill at the job site. Designed with superior strength-to-weight properties to prevent blowouts. Easy to remove with the RipCord stripping filament. One-piece forms for one-time use. Sonotube concrete forms require no cleaning, reassembling or return shipping. And, you can set and pour multiple columns at one time.

### Special Handling Instructions For Sonotube Finish Free Forms:

- ◆ Do not dent or scratch interior coating.
- ◆ Do not drop; extreme physical shock may crack interior coating.
- ◆ Protect from extended rain and excess moisture.
- ◆ Punctures or excessive gouges in the form may cause blowouts. When cutouts are required, the opening should be waterproofed and reinforced to prevent blowouts.
- ◆ Vibrate the column using a regular vibrating needle. Do not touch the inside surface of the form with the vibrating needle; this may damage the finish.
- ◆ Never vibrate the concrete form from the outside.

### Stripping Procedure:

- ◆ Detach the RipCord stripping filament at the top of the form and wrap around a hammer or other tool handle.
- ◆ Pull strap straight down from the top of the form to tear through the form wall and remove the form.
- ◆ Stripped forms can be used to protect finished columns until completion of project.

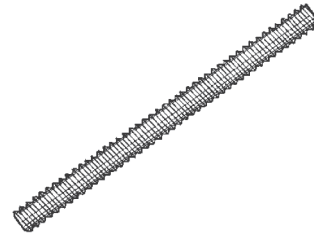
# ALL THREAD

## TIEING / HANDSET

### All Thread

Made from low carbon steel in diameters shown.  
Standard length 10'.

No.	Size	Wt/Lf (lbs)
<b>A307 Mild Steel</b>		
CT 12ATZ	1/2" x 10' Zinc Plated	0.52
CT 58ATZ	5/8" x 10' Zinc Plated	0.83
CT 34ATZ	3/4" x 10' Zinc Plated	1.22
<b>B7 High Tensile</b>		
CT 12HAT	1/2" x 10' High Tensile	0.53
Special cut sizes available		

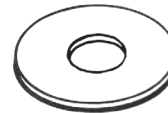


Other sizes of B7 high strength or s/s available on request.

### Washers

Washers are used with all sizes of bolts and rod.  
The washers are fabricated from carbon steel.

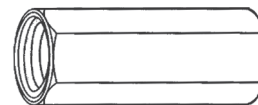
No.	Size	Wt (lbs)
CT 12WASH	1/2"	0.04
CT 58WASH	5/8"	0.08
CT 34WASH	3/4"	0.11
CT 1WASH	1"	0.17
CT 114WASH	1-1/4"	0.21



### Coupler - N/C

Steel hex coupling nuts are available in 1/2", 5/8", and 3/4" inside thread diameters. They are designed for use with inside tie rods with national course thread only.

No.	Size	SWL Tension (lbs)	Wt (lbs)
CT 12ATC	1/2"	9,000	0.18
CT 58ATC	5/8"	12,000	0.18
CT 34ATC	3/4"	18,000	0.28

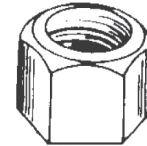


SWL provides a factor of safety of approximately 2 to 1.

### Nut - N/C

Nuts are used with all sizes of N/C bolts and rod. The nuts are fabricated from carbon steel.

No.	Size	Wt (lbs)
CT 12NUT	1/2"	0.04
CT 58NUT	5/8"	0.08
CT 34NUT	3/4"	0.12
CT 1NUT	1"	0.32



### Steel Drop-In

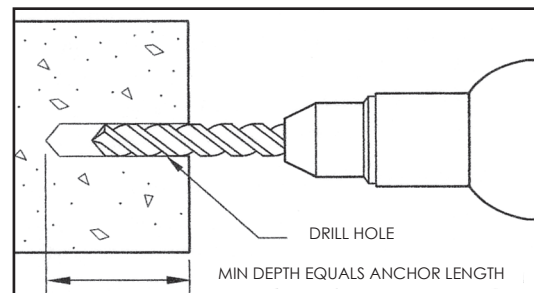
Is a fully assembled, highly versatile, internally expanded steel anchor for medium and heavy loads in solid concrete. Easily installed and once set the bolt, stud or threaded rod can be easily removed or replaced without affecting the Drop-In's holding power. Stocked in zinc plated, stainless available. **SWL information available on request.**



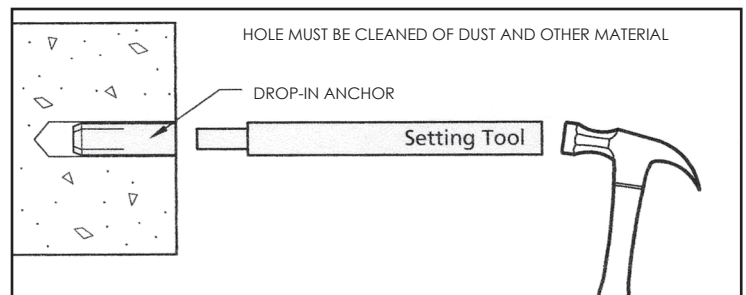
No.	Size	Wt (lbs)	Qty/Ctn
RL 6304	1/4"	0.02	100
RL 6306	3/8"	0.06	50
RL 6308	1/2"	0.12	50
RL 6320	5/8"	0.32	25
RL 6312	3/4"	0.48	10

#### Setting Tools

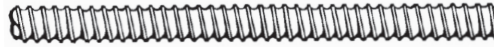
RL 6305	1/4"		
RL 6307	3/8"		
RL 6309	1/2"		
RL 6311	5/8"		
RL 6313	3/4"		



1. DRILL HOLE FOR EXPANSION ANCHOR
2. INSERT EXPANSION ANCHOR INTO HOLE AND TAP FLUSH
3. USING A SETTING TOOL, SET ANCHOR BY DRIVING UNTIL SHOULDER OF THE SETTING TOOL IS SEATED AGAINST THE ANCHOR



SWL information available on request.

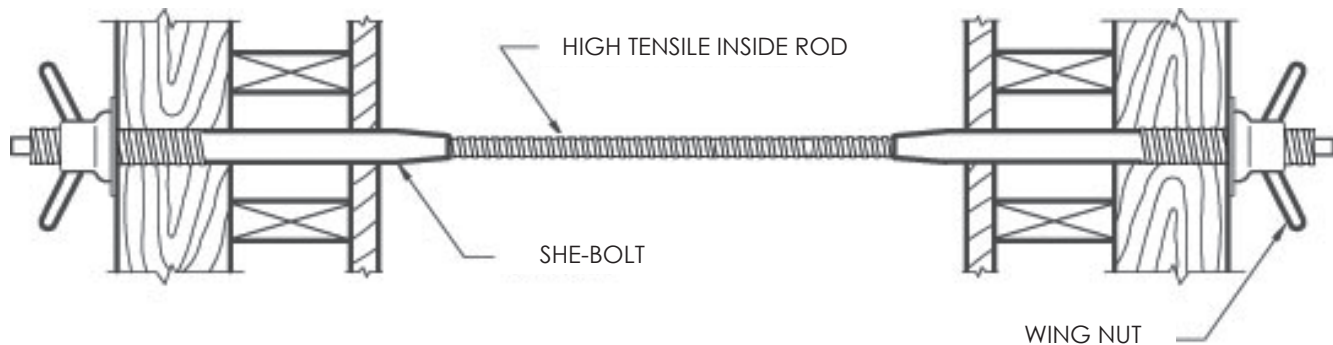


## Coil Rod

High tensile continuous threaded rod is available in diameters from 1/2" through 1-1/2" and in lengths of 12'. May be cut with carborundum blades without damaging threads. Do not use cutting torch to cut coil rod.

No.	Size	Length	SWL Tension (lbs)	Shear	Wt/Lf (lbs)
RC 12HTC	1/2"	12'	9,000	6,000	0.53
RC 34HTC	3/4"	12'	18,000	12,000	1.15
RC 1HTC	1"	12'	37,500	25,300	2.04
RC 114HTC	1-1/4"	12'	56,000	37,500	3.48
RC 112HTC	1-1/2"	12'	67,500	45,300	6.01

**Masons will not guarantee safe working load which has been field welded or bent.**



SWL provides a factor of safety of approximately 2 to 1.

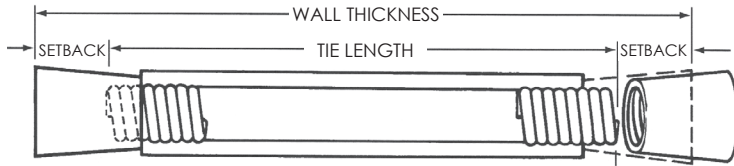




M A S C O . N E T

# COIL THREAD

**TIEING/HANDSET**



## Screw-On Coil Tie

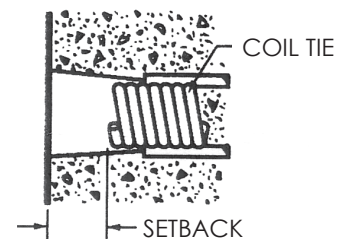
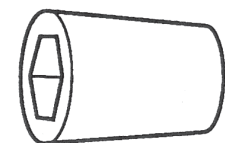
The Screw-On Coil Tie is designed to be attached to the first erected side of the form. This system is ideally suited for forming heavily reinforced walls as it eliminates the "fishing" of ties through a form, reinforcing steel and the opposite side form. Once the closure form is set in place, it is easy to install the remaining coil bolts and hardware. When the screw-on cones are attached to the coil tie, they provide a positive setback for the tie and act as a fixed internal form spreader. To order specify bolt diameter, safe working load, tie length, wall thickness and set back.

No.	Size	Strut	SWL Tension (lbs)	Wt (lbs)
	1/2" Standard	2	4,500	
	1/2" Heavy	2	6,750	
	3/4" Standard	2	6,750	
	3/4" Heavy	2	9,000	
	1" Standard	2	13,500	
	1" Standard	4	18,000	
	1-1/4 Standard	4	27,000	

## Screw-On Cone

Screw-On Cones are threaded internally with coil threads in the small end of the cone. It is threaded onto the extended ends of the screw-on coil tie and cannot be knocked off the tie. Use a cone removal wrench to back the cone off the tie and out of the concrete. Plastic cones are reusable.

No.	Bolt	Size	Setback	Wt/Lf (lbs)
DS 35151	1/2"	1-1/4"	1"	0.05
DS 35135	3/4"	1-5/8"	1"	0.07
DS 35138	1"	2-1/8"	2"	0.17
DS 35139	1-1/4"	2-3/8"	2"	0.19
Other sizes available on request.				



SWL provides a factor of safety of approximately 2 to 1.

**MASONS SUPPLY COMPANY**

Oregon (800) 537-3407 ♦ Washington (800) 537-6216

**95**

Clackamas | Eugene | West Eugene | Hillsboro | Medford | Portland | Salem | Wilsonville | Ridgefield | Seattle | Tacoma | Woodinville

# COIL THREAD

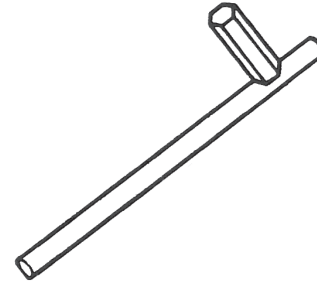


## TIEING/HANDSET

### Cone Wrench

Plastic cone removal wrench removes 1/2", 3/4", and 1" plastic cones.

No.	Size	Wt (lbs)
DS 66705	1/2"	1.60
DS 66706	3/4"	1.90
DS 66707	1"	2.40



### Coil Tie

Coil Tie Couplers are available in 1/2", 3/4", 1" and 1-1/4" diameters. All couplers are 2 strut or 4 strut electrically welded to standard length coil. An Advantage that a coil tie coupler has over closed couplers is that it can be ordered in varying lengths depending on your application. To order specify bolt diameter, safe working load, tie length, wall thickness and set back.

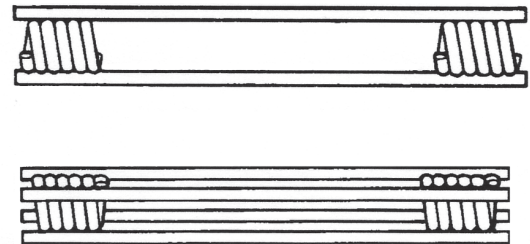
#### To Order:

Specify: (1) quantity, (2) name, (3) safe working load, (4) bolt diameter, (5) tie length, (6) wall thickness, (7) setback.

#### Example:

3,000 pcs. Standard 2 Strut Coil Tie, 4,500 lbs. SWL, 1/2" diameter, 12" long for a 14" wall, 1" setback.

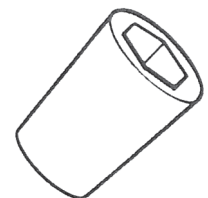
No.	Size	Strut	SWL Tension (lbs)	Wt (lbs)
	1/2" Standard	2	4,500	
	1/2" Heavy	2	6,750	
	3/4" Standard	2	6,750	
	3/4" Heavy	2	9,000	
	1" Standard	2	13,500	
	1" Standard	4	18,000	
	1-1/4" Standard	4	27,000	



### Loose Cone

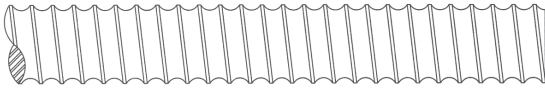
Loose cones are placed over the coil bolt after the bolts have been placed through the formwork and before the bolt is threaded into the coil tie or coil anchor. The large end provides a sufficient bearing surface to prevent damage of the plywood. Plastic cones can be reused. Plastic cones are removed with the cone removal wrench.

No.	Bolt	Size	Setback	Wt (lbs)
DS 35121	1/2"	1-1/4"	1"	0.04
DS 35125	3/4"	1-5/8"	1"	0.06
DS 35128	1"	2-1/8"	2-1/2"	0.19
DS 35129	1-1/4"	2-3/8"	2-1/2"	0.19
Other sizes available on request.				

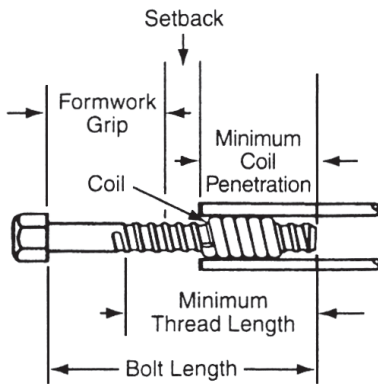


SWL provides a factor of safety of approximately 2 to 1.

### Fiberglass Coil Rod



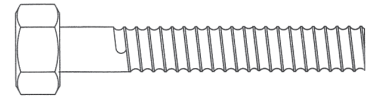
No.	Size	Length	SWL Tension (lbs)
RC 12FCR	1/2"	8'	7,500
RC 34FCR	3/4"	8'	15,000
RC 1FCR	1"	8'	17,000



#### Minimum Coil Penetration Information

When determining the minimum required overall length of coil bolts, you must consider the following items:

- Formwork grip (including washer thickness).
- Setback of the form tie or insert.
- Minimum coil penetration (applies to all coil products).



COIL BOLTS ARE NEVER TO BE TIGHTENED USING AN IMPACT WRENCH.

### Coil Bolt

Coil bolts are designed with fast-threading, self-cleaning threads. The threads are contoured to mate with the helix coils of coil ties and coil loops. Coil bolts may be furnished with standard formed head or made from coil rod with heavy hex nut welded on. Available in 3/4", 1", 1-1/4" and 1-1/2" diameter.

No.	Size	Bolt Length	Min. Thread Length	Wt (lbs)
DS 12212CB	1/2"	2-1/2"	2-1/4"	0.150
DS 122CB	1/2"	2"	1-3/4"	0.120
DS 123CB	1/2"	3"	2-1/4"	0.175
DS 12312CB	1/2"	3-1/2"	2-1/2"	0.200
DS 124CB	1/2"	4"	3-1/4"	0.230
DS 125CB	1/2"	5"	4-1/4"	0.285
DS 126CB	1/2"	6"	5"	0.340
DS 343CB	3/4"	3"	2-3/4"	0.430
DS 34312CB	3/4"	3-1/2"	3"	0.490
DS 344CB	3/4"	4"	3-3/4"	0.550
DS 345CB	3/4"	5"	4-3/4"	0.670
DS 346CB	3/4"	6"	5-3/4"	0.780

**1" & 1-1/4" & 1-1/2" coil bolts also available.**

### Forged Head Coil Bolt Data & Minimum Coil Penetration:

1/2" DIAMETER	1/2" DIAMETER	3/4" DIAMETER	1" DIAMETER	1-1/4" DIAMETER	1-1/2" DIAMETER
UNDER 6" LENGTH SAFE WORKING LOAD	6" AND OVER LENGTH SAFE WORKING LOAD	SAFE WORKING LOAD	SAFE WORKING LOAD	SAFE WORKING LOAD	SAFE WORKING LOAD
TENSION 4,125 SHEAR 2,750	TENSION 6,750 SHEAR 4,500	TENSION 9,000 SHEAR 6,000	TENSION 18,000 SHEAR 12,000	TENSION 27,000 SHEAR 18,000	TENSION 41,250 SHEAR 27,500
MINIMUM COIL PENETRATION 2"	MINIMUM COIL PENETRATION 2"	MINIMUM COIL PENETRATION 2-1/4"	MINIMUM COIL PENETRATION 2-1/2"	MINIMUM COIL PENETRATION 2-1/2"	MINIMUM COIL PENETRATION 3"
THREADS PER INCH 6	THREADS PER INCH 6	THREADS PER INCH 4.5	THREADS PER INCH 3.5	THREADS PER INCH 3.5	THREADS PER INCH 3.5
MIN. ROOT AREA SQUARE INCHES .1385	MIN. ROOT AREA SQUARE INCHES .1385	MIN. ROOT AREA SQUARE INCHES .3080	MIN ROOT AREA SQUARE INCHES .5410	MIN ROOT AREA SQUARE INCHES .9160	MIN ROOT AREA SQUARE INCHES 1.3890

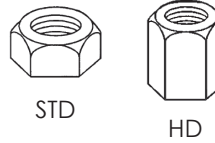
SWL provides a factor of safety of approximately 2 to 1.

# COIL THREAD

## TIEING/HANDSET

### Coil Nut

Hex shaped coil nuts are available for all sizes of coil rod. 2 standard or 1 heavy nut is required to develop full strength of high tensile coil rod.



No.	Size	SWL Tension (lbs)	Wt (lbs)
<b>Regular</b>			
RC 12CN	1/2"	6,000	0.06
RC 34CN	3/4"	9,000	0.19
RC 1CN	1"	18,000	0.41
RC 114CN	1-1/4"	27,000	0.76
RC 112CN	1-1/2"	40,500	1.19
<b>Heavy Duty</b>			
DS B2512	1/2"	9,000	0.19
DS B2534	3/4"	18,000	0.26
DS B251	1"	37,500	0.72

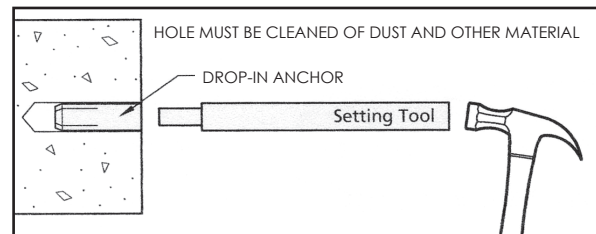
### Coil Bolts

Coil bolts are designed to be reusable, but they do wear and must be continuously inspected and replaced when wear or damage is noted. A waterproof grease should be applied to the portion of the bolt that will be embedded in the concrete. This will facilitate bolt removal from the set concrete.

### Coil Thread Dropin

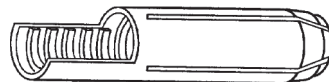
An all-steel, coil thread bolt anchor available in carbon steel. It can be used in solid concrete and hard stone for forming applications. Internally threaded anchor for easy removability and service work.

No.	Size	Overall Length	Thread Depth	Qty/Ctn	Wt/Ctn (lbs)
RL 6330	1/2"	2"	13/16"	50	12
RL 6332	3/4"	3-3/16"	1-3/8"	10	48



### Setting Tools

No.	Size
RL 6309	1/2"
RL 6313	3/4"



SWL provides a factor of safety of approximately 2 to 1.

## Coil Coupler

Provides an efficient and safe alternative to conventional forming of protruding coil rod. Allows for fast stripping and worker safety by completing the splice at a later time.

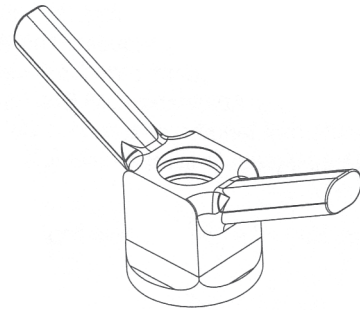
No.	Size	SWL Tension (lbs)	Wt (lbs)
DS 12CC	1/2"	9,000	0.20
DS 34CC	3/4"	18,000	0.40
DS 1CC	1"	38,000	1.50



## Cast Wing Nut

The cast wing nut is available in all diameters. It is fabricated from ductile steel. Utilized when frequent removal and application of a nut is required.

No.	Size	SWL Tension (lbs)	Wt (lbs)
DS 34WN	3/4"	18,000	0.90
DS 1WN	1"	38,000	1.07
DS 114WN	1-1/4"	52,000	1.22
DS 112WN	1-1/2"	80,000	2.86



## Washer

Washers are used with all sizes of bolts and rod. The washers are fabricated from carbon steel.

No.	Size	Wt (lbs)
CT 12WASH	1/2"	0.04
CT 58WASH	5/8"	0.08
CT 34WASH	3/4"	0.11
CT 1WASH	1"	0.17
CT 114WASH	1-1/4"	0.21



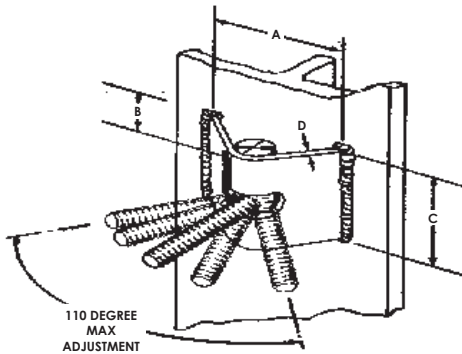
SWL provides a factor of safety of approximately 2 to 1.

# COIL THREAD

## TIEING/HANDSET

### Angle Tie Bracket

This bracket offers a full 110 degree movement 55 degrees in either direction. Designed to eliminate the unsafe practice of field bending of coil rod or bolts. Masons assumes no liability for the welded connection.



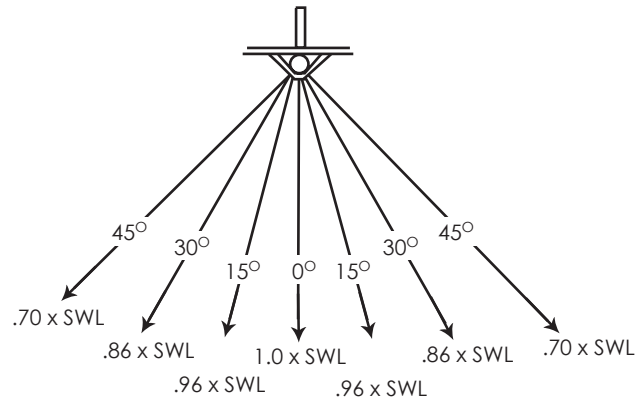
No.	COIL THREAD DIAMETER	MAXIMUM SAFE WORKING LOAD TENSION (LBS)	A	B	C	D
DS D2412	1/2"	9,000	5-5/16"	2-9/32"	4"	1/4"
DS D2434	3/4"	18,000	5-5/16"	2-9/32"	4"	1/4"
DS D241	1"	31,500	5"	2-1/8"	5-3/4"	1/2"

### LOAD REDUCTION FACTORS

Contact our technical service department for load reduction factors for angles other than those shown.

### WARNING!

When angle loads are placed on the weld angle bracket the SWL must be reduced as shown. If the SWL is not reduced, greater loads than expected will be applied thereby reducing the factor of safety.



### Speed Bolt & Nut

Special fitting up bolts and nuts are used for securing steel form panels together. The tapered nose of the bolt acts as a draft pin and helps align the forms. The thread design and clearances between the nut and bolt permits quick assembly and dismantling of the forms. The open thread design permits concrete to be easily knocked out of the threads.

No.	Size	Wt (lbs)
SY 32191	3/4" x 2"	0.50
SY 32195	3/4" x 3"	0.60
SY 32194	3/4" x 4"	0.70
SY 32193	3/4" NUT	0.30

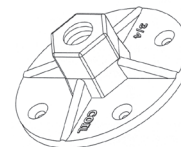


### Nut Washer

Coil nut washers are available with 3/4" acme or coil thread diameters. Made of ductile iron, the nut washer is designed to take the place of a loose hex nut and flat washer.

No.	Size	SWL Tension (lbs)	Wt (lbs)
DS 31348	3/4" Acme	9,000	1.30
DS 31346	3/4" Coil	9,000	1.30

Other sizes available on request.



SWL provides a factor of safety of approximately 2 to 1.



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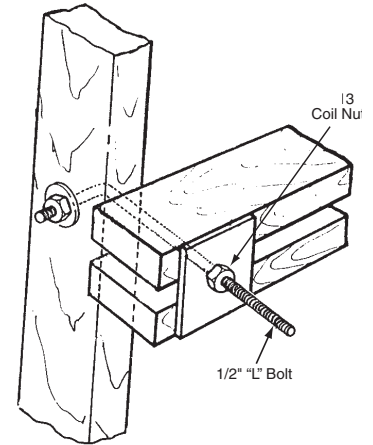
# COIL THREAD

## TIEING/HANDSET

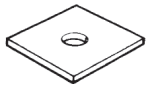
### Wale Bolt Assembly

This Wale Bolt Assembly consists of 1/2" "L" bolt, a round cut washer, a Flat Washer and two 1/2" Coil Nuts. The assembly is used to fasten wales to crane-handled gang forms. One size assembly will secure wales up to 10" thick. The bolt has 8" of coil thread on the long end and 1-1/2" of coil thread on the short end.

The short end of the bolt is inserted through a 9/16" hole drilled through the center of the stud. The cut washer and 1/2" nut fastens the bolt to the stud. The long end of the bolt extends between the wales and allows the wales to be drawn tightly against the stud using a flat washer and the second 1/2" nut. Wale Bolt assemblies are normally spaced at four feet intervals along the wales. The safe working load of the assembly is dependent on the wale members being used.

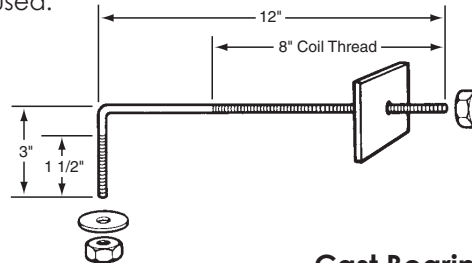


No.	Wt (lbs)
DS B14W	1.74



### Plate Washer

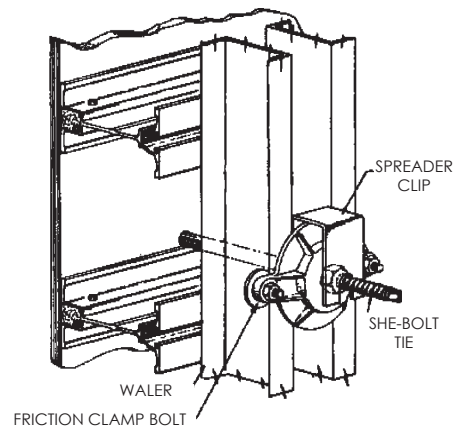
For use with coil bolts, she bolts, taper ties and coil nuts. Washer sizes are designed to provide adequate bearing against wood form members. Maximum space between strongbacks should not exceed rod diameter plus 1/4".



### Cast Bearing Washer

Cast Bearing Washers are used with she bolts or taper ties with steel, aluminum or wood forms. SWL based on maximum spacing of 3" between strongbacks. SWL 25,000 lbs.

No.	Rod Diameter	Wt (lbs)
SY 31525	1-1/4"	3.0



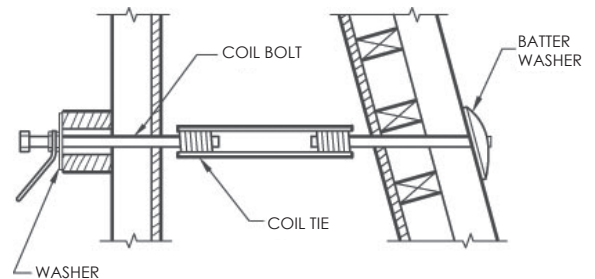
No.	Size	Rod Diameter	Wt (lbs)
CFA PW331412	3" x 3" x 1/4"	1/2"	0.65
CFA PW331434	3" x 3" x 1/4"	3/4"	0.65
CFA PW441412	4" x 4" x 1/4"	1/2"	1.15
CFA PW441434	4" x 4" x 1/4"	3/4"	1.10
CFA PW443834	4" x 4" x 3/8"	3/4"	1.71
CFA PW553834	5" x 5" x 3/8"	3/4"	2.66
CFA PW661234	6" x 6" x 1/2"	3/4"	5.10
CFA PW55121	5" x 5" x 1/2"	1"	3.55
CFA PW66121	6" x 6" x 1/2"	1"	5.10
CFA PW6634114	6" x 6" x 3/4"	1-1/4"	8.45
CFA PW6610112	6" x 6" x 1"	1-1/2"	10.00

Other sizes available on request.

### Battered Washer

Battered washers are used with either coil bolts, she bolts and taper ties when the wales are at an angle to the tips. Permits any angle from 90° to 45°. SWL is based on maximum spacing of 3" between strongbacks.

No.	Rod Diameter	Wt (lbs)
SY 31626	1-1/4"	3.5
SY 31627	1-1/2"	6.0



SWL provides a factor of safety of approximately 2 to 1.

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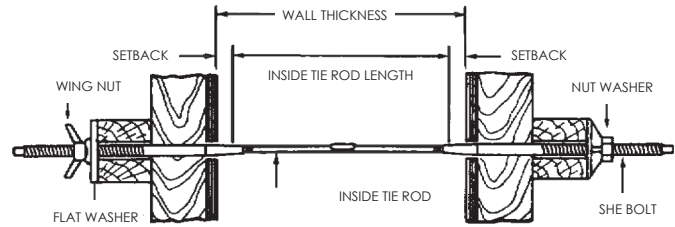
# SHE BOLT



## TIEING/HANDSET

### She Bolt

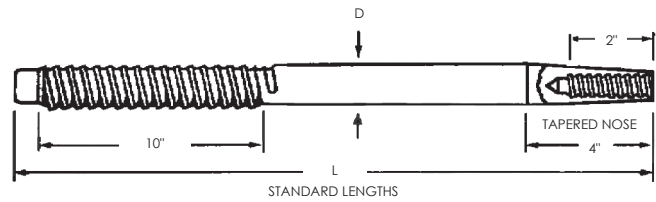
The she bolt tie system is one of the most versatile form hardware systems produced for use with large "crane handled" or "ganged forms." Using a bearing washer and wing nut on the threaded external end of the she-bolt allows this system to be used on a wide range of different formwork thickness. Inexpensive expendable inside tie rods are used, allowing the bolt assembly to be passed through the forms after both form sides have been set in place. She Bolts should be coated with white lithium grease before inserting into form and should be removed with a wrench.



No.	Size	Inner	*SWL Tension (lbs)	Wt (lbs)
CFT SB17NC	17"x 3/4" ACME	1/2" NC	6,300	1.75
CFT SB17C	17"x3/4" COIL	1/2" COIL	9,000	1.75
CFT SB20C	20"x3/4" COIL	1/2" COIL	9,000	2.10
CFT SB24C	24" x3/4" COIL	1/2" COIL	9,000	7.0
CFT SB20	20"x1 1/4" COIL	3/4" COIL	18,000	5.60
CFT SB24	24"x1 1/4" COIL	3/4" COIL	18,000	7.00
CFT SB30	30"x1 1/4" COIL	3/4" COIL	18,000	9.10
CFT SB36	36"x1 1/4" COIL	3/4" COIL	18,000	12.00

### Other sizes available on request.

\*SWL is based on using 1/2" high tensile N/C rod, 1/2" or 3/4" high tensile coil rod.



### Waterseal Washer

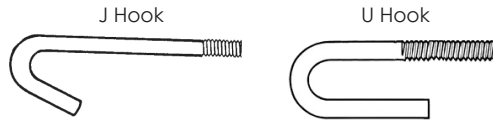
Neoprene waterseal washers may be installed on inside tie rods to help eliminate water seepage along the tie. Generally specified when ties are used to form water containment structures.

No.	Inside Rod Diameter	Wt (lbs)
DS D3312	1/2"	
DS D3334	3/4"	
DS D331	1"	



SWL provides a factor of safety of approximately 2 to 1.

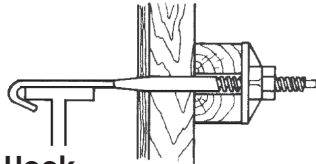




### Coil Rebar Hooks

Fabricated from mild steel in standard 1/2" NC and coil diameters. Threaded one end and die formed into a sturdy hook. Lengths are net. SWL is 800 lbs in tension.

No.	Description	Wt (lbs)
<b>J Hooks</b>		
DS 122JBOLT	1/2" NC x 2"	0.17
DS 123JBOLT	1/2" NC x 3"	0.20
DS 124JBOLT	1/2" NC x 4"	0.25
DS 124CJBOLT	1/2" COIL x 4"	0.25
DS 126CJBOLT	1/2" COIL x 6"	0.32
<b>U Hooks</b>		
DS 124CUBOLT	1/2" COIL x 4"	0.25
<b>Other sizes available on request.</b>		



### Rebar Hook

A multipurpose coupler for making a fast field connection between coil rod and rebar. A simple "push and twist" action is all that is needed to make the connection; the coil rod itself keeps the Rebar Hook in place on the rebar. Fits in tight spaces: little clearance around rebar needed for attachment. Connects anywhere along length of rebar. Welded to rigorous standards using computer-controlled equipment. Use with Transition Ties™ for Stay-Form® blindside walls. 100 Pieces per carton.

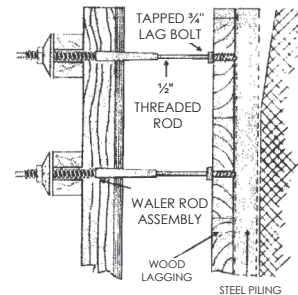
No.	Coil Rod Size	Rebar	SWL Tension (lbs)	Wt (lbs)
SD RH6	1/2"	up to #6	1,800	.40
SD RH8	3/4"	up to #8	3,000	.88



### Tapped Lag Bolt

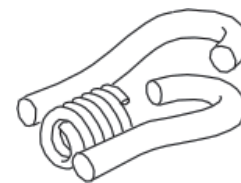
Simplifies blind wall forming, speeds concrete pours and reduces external bracing. Fast installation. Drill 9/16" pilot hole in lagging, screw bolt, tapped with 1/2" diameter thread, into wood lagging. Install 1/2" N.C. threaded rod and she bolt assembly.

No.	Size	Wt (lbs)
DD TLB	3/4" x 5" x 1/2" N.C. inner	0.51



TREATED TIMBER SIZE	PILOT HOLE SIZE	SWL TENSIONS (LBS)
2" x 10"	9/16"	1,575 LBS*
3-3/4" or 4" x 12"	9/16"	2,820 LBS*

\* QUALITY OF LUMBER WILL EFFECT STRENGTH.



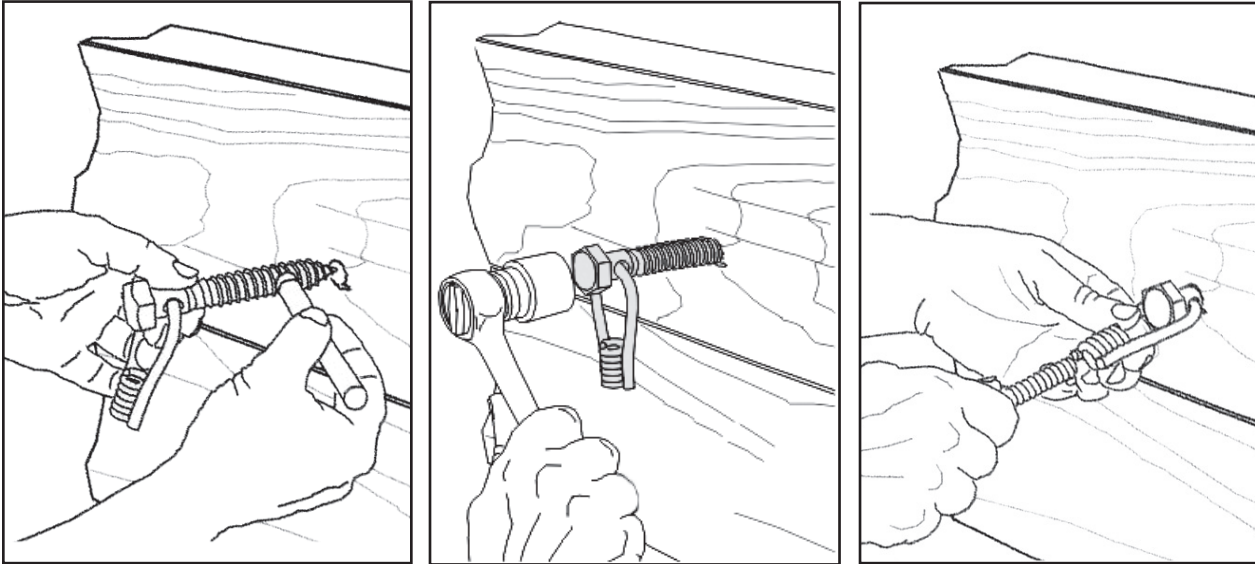
REBAR HOOK

One of the most common uses, shown below, is using the Rebar Hook with a Steel Dog Transition Tie to make a low-cost, adjustable-length tie for forming Stay-Form blindside walls with a variety of different handset form panels.

SWL provides a factor of safety of approximately 2 to 1.

# SHE BOLT

## TIEING/HANDSET



### Coil-Lag™

Designed to provide a temporary means of attaching formwork to wood timbers. Typical application: one-sided forming against soldier piles with wood lagging. Standard hex head lag bolt for sock wrench installation. Swivel loop coil tie end to accommodate misalignment between lag bolt placement and formwork tie location. Accepts either industry-standard 1/2" coil rod or N/C rod. Bolt is ASTM A307. Swivel loop is AISI C1038. Maximum safe working load is 3,000 lbs. (2-to-1 safety factor). Actual SWL will depend on pull-out strength of lag in wood and off-axis loading angle.

Wood Species	Specific Gravity <sub>3</sub>	Axial Lag Withdrawal Load in Different Thickness Wood <sub>1,2</sub>					
		1-1/2"	2"	2-1/2"	3"	3-1/2"	4"
Oak, Red	0.62	1,590	2,120	2,660	<b>3,190</b>	<b>3,720</b>	<b>4,250</b>
Western Larch	0.53	1,260	1,680	2,100	2,520	2,940	<b>3,360</b>
Douglas Fir	0.50	1,150	1,540	1,920	2,310	2,690	<b>3,080</b>
Western Hemlock	0.48	1,090	1,450	1,810	2,170	2,530	2,890
Southern Yellow Pine	0.48	1,090	1,450	1,810	2,170	2,530	2,890
Eastern White Pine	0.37	730	980	1,220	1,470	1,710	1,960

Off-Axis Load Angle	Off-Axis Load Factor <sub>4,5</sub>	
	With Grain	Across Grain
10°	1.0	1.0
30°	1.0	0.7
45°	0.9	0.5
60°	0.7	0.4
90°	0.5	0.3

No.	Size	Wt (lbs)
SD SCL4NC	3/4" LAG bolt with 1/2" coil/NC tie.	0.7

1. Load lbs at approximate 3-to-1 safety factor. Figures based on  $p=8,100^{3/2}D^{3/4}L$ , where G is specific gravity, D is lag shank diameter, and L is penetration of threaded portion in wood (from Forest Products Laboratory Wood Handbook, 1999). Load not to exceed 3000 lbs in any case (chaded areas represent pull-out values which exceed max. SWL of the Coil-Lag™).  
 2. All load ratings are for bolt installation into side grain in sound wood, minimum 1-1/2" from edge and 4" from end of timber.  
 3. Specific gravity figures typical for kiln-dried samples of the listed species. Load ratings based on S.G. figures shown, actual S.G. values for wood vary widely. Unless actual S.G. is known, use lower figure for load calculations.  
 4. Multiply off-axis load factor times axial lag withdrawal load for allowable off-axis. Example: 60° off-axis, with-the-grain load into 3" Douglas Fir would be  $0.7 \times 2310 = 1617$  lbs max. Remember: this is the load applied to the swivel loop coil, NOT the axial load on the lag.  
 5. Bolt must be threaded into timber until swivel loop is in contact with wood surface.

SWL provides a factor of safety of approximately 2 to 1.



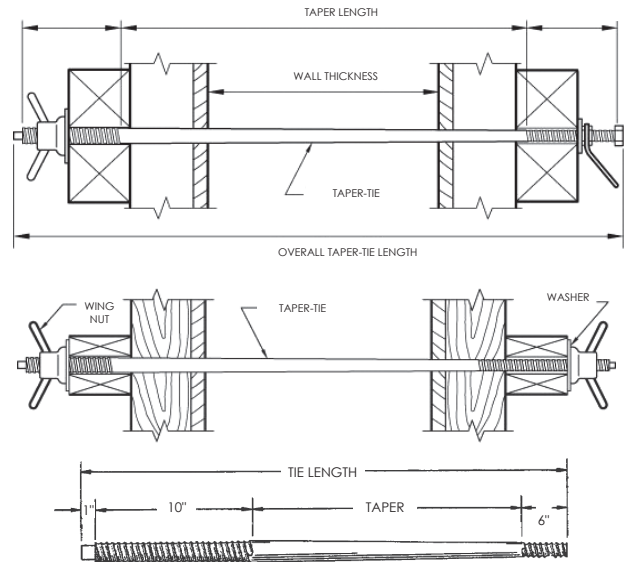
M A S C O . N E T

# TAPER TIE

## TIING/HANDSET

### Taper Tie

The 1" to 1-1/4" taper tie system is a versatile forming system which is completely reusable, no expandable parts are left behind in the hardened concrete. Features quick assembly and fast stripping. Feed-through installation permits both side forms to be in place before ties are installed. Available in various lengths with 1-1/4" diameter x 10" exterior coil thread on the larger end with 1" diameter x 6" coil thread on the small end. Use with bearing washer and cast wing nut. Taper Ties should be coated with a white lithium grease before inserting into form and should be removed with a wrench. SWL 34,000 lbs.



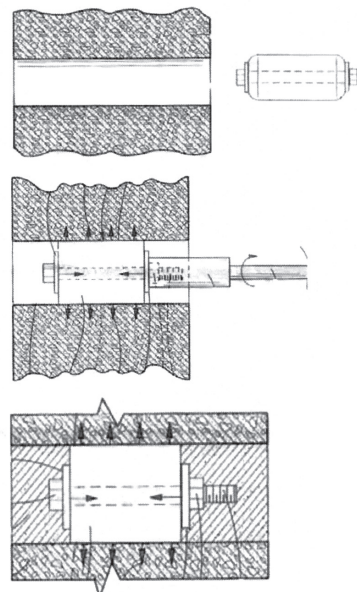
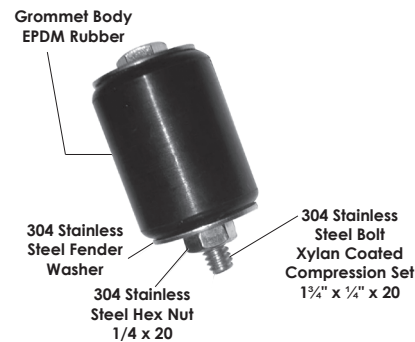
No.	Size	Tapered Length	Wt (lbs)
CFT TT35	35"	17"	10.0
CFT TT42	42"	24"	12.0
CFT TT45	45"	27"	13.0
CFT TT48	48"	30"	14.0
CFT TT55	55"	37"	16.0
CFT TT60	60"	42"	25.0

### X-Plug

A mechanical plug specifically designed to seal the void formed in a concrete wall by the removal of a tie rod. The X-Plug is easily engaged into the tie rod void during ALL climates. With its mechanical design, tightening of the metal nut causes an expansion of the plug, increasing its diameter inside the tie rod void. This action simultaneously compresses the main body plug onto the bolt to create an unmatched seal between the plug and the wall of the tie rod void. Designed to install at 50% of wall thickness for varying tie sizes. Can also be set for shallow depth plug placement. Able to be installed interior/exterior or retro-fitted to repair leaks. Can also be utilized as backing for grouting.

**Materials:** EPDM **Hardware:** 304 Stainless Steel

No.	Taper Tie Size	Wt (lbs)
XP 5834	5/8" - 3/4"	0.10
XP 5878	5/8" - 7/8"	0.10
XP 341	3/4" - 1"	0.11
XP 1114	1" - 1 1/4"	0.11
XP 4112	1 1/4" - 1 1/2"	0.15
Accessories		
XP BRU341	Brush for 5/8" - 1" Hole	6 oz.
XP BRU1114	Brush for 1" - 1 1/4" Hole	6 oz.
XP BRU4112	Brush for 1 1/4" - 1 1/2" Hole	6 oz.
XP EXT1512	X-Plug 15" Installation Extension Socket	1.50



**Step 1:** Clear tie hole of all loose debris. Taper tie brush is available upon request.

**Step 2:** Check plug engagement, making sure plug is slightly less in size than void. Minor adjustments can be made by simply tightening nut for shallow depth placement.

**Step 3:** Attach deep well socket and extension onto nut. Place plug at desired depth or specification. FULLY TIGHTEN NUT.

**Step 4:** Once nut has been fully tightened pull socket/extension out of void. THAT'S IT! Move on to the next void and repeat. Fill with grout if needed.

SWL provides a factor of safety of approximately 2 to 1.

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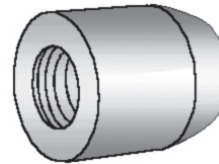
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# TAPER TIE

## TIEING/HANDSET

### Sure Plug

The sure plug is easily pushed into a hole the specified depth by using the insertion tool. Pushing against the bottom of the blind center hole of the plug forces the plug's oversize body to elongate as it enters the hole. When the pushing force is stopped, the plug elastically returns towards its original diameter creating a high radial pressure against the walls of the hole. As the plug is gray colored to blend with concrete, it may be positioned flush with the concrete face, or recessed, depending on the architectural effect desired. When recessed, the sure plugs may also serve as backing for flush or recessed grouting.

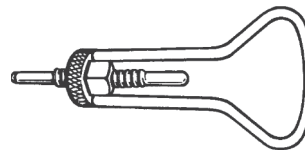


No.	Plug Size	Hole Diameter	Wt (lbs)
DS A581	#16	1"	0.05
DS A58118	#18	1-1/8"	0.06
DS A58114	#20	1-1/4"	0.07
DS A58138	#22	1-3/8"	0.08
DS A58112	#24	1-1/2"	0.11

### Insertion Tool

Used to insert sure plugs flush with face of concrete or recessed to various depth. Specify plug size when ordering insertion tool.

No.	Size
DS A5916	16
DS A5920	20
DS A5924	24



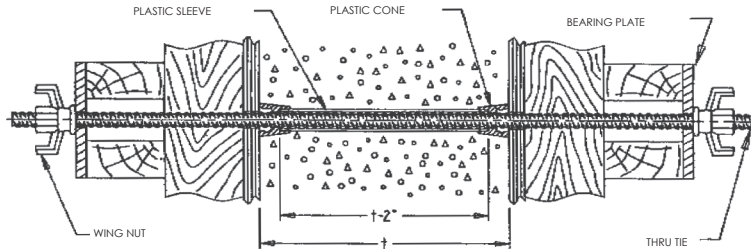
### White Lithium Grease

A creamy white extreme pressure grease formulated with a high quality base oil, lithium soap and non abrasive basic oxides. It is a multipurpose grease for applications where customer preference is for a white non oil staining grease. Good rust and corrosion protection. Ideal for when appearance is important.

No.	Size	Wt (lbs)
MS 14OZLG	14 oz.	1.10
MS 1GLG	1 gal.	10.0
MS 5GLG	5 gal.	50.0



SWL provides a factor of safety of approximately 2 to 1.



### Threadbar®

Threadbar is hot-rolled, high strength steel with two flat sides in the thread pattern that allow gripping and turning of the bars with a crescent wrench. The flat sides facilitate self-cleaning with each stripping operation. Threadbar® is bendable around a 6 diameter pin.

No.	Size	SWL Tension (lbs)	Wt/Lf (lbs)
DSI 58TB	5/8"	20,200	1.0
DSI 78TB	7/8"	35,900	1.7



### DCR Bar

The DCR is manufactured from high strength steel and fully threaded. DCR bar is considered more ductile than standard coil rod. DCR Bar is bendable around a 6 diameter pin and is also weldable allowing its use for welded waterstop. DCR bars provide a very economical solution for conventional and special tying/anchoring application. All hardware is interchangeable with thread bar.

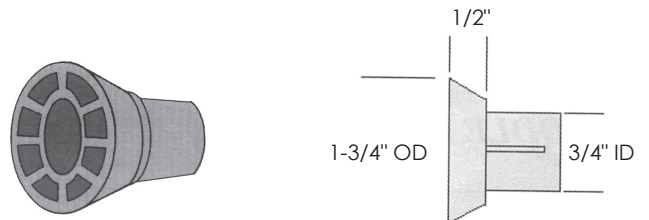
No.	Size	SWL Tension (lbs)	Wt/Lf (lbs)
DSI 58DCR	5/8"	19,100	1.0
DSI 78DCR	7/8"	30,900	1.7



### Push-Fit Cones

This spreader cone is used with 3/4", class 200 PVC pipe to allow 5/8" threaded rod to pass through the concrete untouched.

No.	Wt (lbs)	Qty/Ctn
DS 34PF	0.15	500



SWL provides a factor of safety of approximately 2 to 1.

# DYWIDAG THREAD

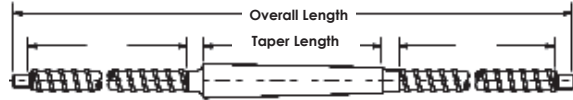


## TIEING/HANDSET

### DYWIDAG Taper Tie

Taper Ties employ one piece all steel tapering. This results in a stronger, much lighter system that uses the same size hardware at each end.

No.	Size	Size Taper L	Size Overall L	Wt (lbs)	SWL Tension (lbs)
<b>7/8"</b>					
DSI B20F28230	1-1/4" to 1"	30"	51"	12.0	32,500
DSI B20F28236	1-1/4" to 1"	36"	57"	13.5	32,500
<b>5/8"</b>					
SY 722125	3/4" to 5/8"	24"	49"	5.0	18,400
SY 722104	3/4" to 5/8"	16"	41"	4.0	18,400

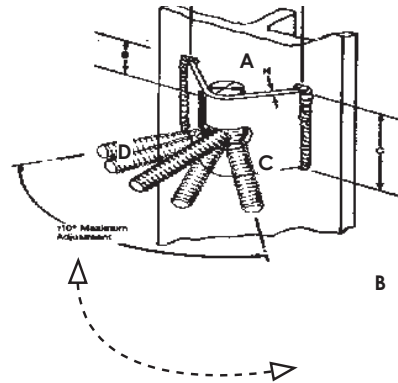


### Welded Angle Bracket

Manufactured from high strength steel. Strengths are determined on full fillet welds along bracket. The threaded pin swivels up to  $\pm 45^\circ$ . The welded angle bracket is mainly used on H-piles below grade for one-sided forming applications.

**Masons assumes no liability for the welding connection.** See technical bulletin for SWL reduction factor information.

No.	Size
DSI 58AB	5/8"
DSI 78AB	7/8"

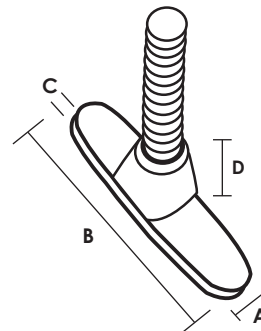


Rod Diameter	A	B	C	D	SWL Tension (lbs)	Wt (lbs)
in.	in.	in.	in.	in.	klps	lbs.
5/8	5.25	4	.25	2	19.1	4.0
7/8	7	6	.50	2	39.2	8.5

### Welded Neck Flange

Offers an economical solution for one sided forming of steel where angle tying is not required. The strengths listed on the chart were determined based on a 1/4" fillet weld completely around the base of the Neck Flange. **Masons assumes no liability for this welded connection.**

No.	Size
DSI	5/8"



Rod Diameter	A	B	C	D	SWL Tension (lbs)	Wt (lbs)
in.	in.	in.	in.	in.	klps	lbs.
5/8	1.18	5.12	0.47	1.96	21.9	4.0

SWL provides a factor of safety of approximately 2 to 1.

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**MASONS SUPPLY COMPANY**

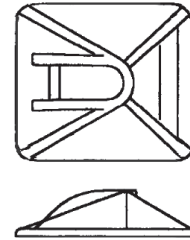
Oregon (800) 537-3407 ♦ Washington (800) 537-6216

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### Batter Washer

Used when walers are at an angle to the tips. Permits any angle from 90° to 45°. Maximum spacing between strongbacks should not exceed rod diameter plus 1/4".

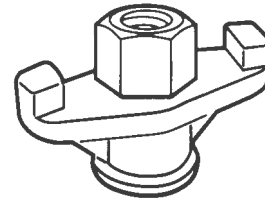
No.	Rod Diameter	Size	Wt (lbs)
DSI 58BW	5/8"	5"x 3-1/2"	1.80
DSI 78BW	7/8"	6"x 5-1/4"	4.00



### Cast Wing Nut

Fabricated from ductile steel. Fast threaded for quick assembly and stripping. Utilized when frequent removal and application of nut is required.

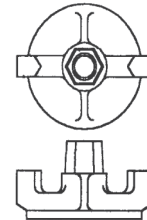
No.	Size	SWL Tension (lbs)	Wt (lbs)
DSI 58WN	5/8"	19,100	0.60
DSI 78WN	7/8"	39,200	1.00



### Wing Nut Bracket

Fabricated from ductile steel. Wing nut and plate are together as one piece unit. Maximum spacing between strongbacks should not exceed rod diameter plus 1/4".

No.	Size	SWL Tension (lbs)	Wt (lbs)
DSI 58WNB	5/8"	19,100	1.10
DSI 78WNB	7/8"	39,200	2.80



### Waterseal Washer

Neoprene Waterseal Washers may be installed on inside tie rods to help eliminate water seepage along the tie. Generally specified when ties are used to form water containment structures.

No.	Inside Tie Rod Diameter
DSI 58WW	5/8"
DSI 78WW	7/8"



SWL provides a factor of safety of approximately 2 to 1.

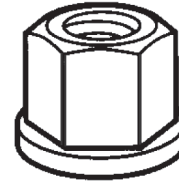
# DYWIDAG THREAD



## TIEING/HANDSET

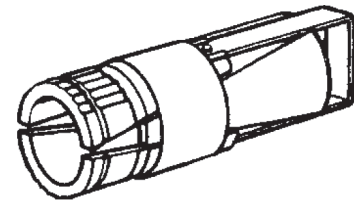
### Cast Hex Nut

No.	Size	SWL Tension (lbs)	Wt (lbs)
DSI 58HN	5/8"	10,000	0.30
DSI 78HN	7/8"	10,700	1.10



### Expansion Anchor

Expansion anchors can be used with 5/8" THREADBAR®. These anchors are used in many applications including one sided forming off existing concrete or temporary tiedowns in existing slabs. The fast Dywidag thread pattern (2½ threads per inch) provides quick installation and stripping. Available in two bore hold diameters 1¾" and 1½", simply determine the estimated compressive strength of existing concrete and the depth of the hole. Safe Working Load Information available on request.



No.	Size	Wt (lbs)
DSI 58EA	5/8"	1.00

### Coupler

Provides an efficient and safe alternative to conventional forming of protruding DCR bar. Allows for fast stripping and works safely by completing the splice of a later time.

No.	Size	Hole Diameter	Wt (lbs)
DSI 58C	5/8"	19,100	1.20
DSI 78C	7/8"	39,200	2.50



SWL provides a factor of safety of approximately 2 to 1.

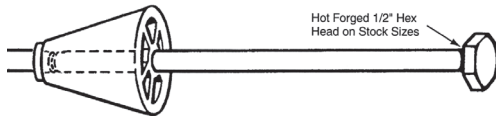
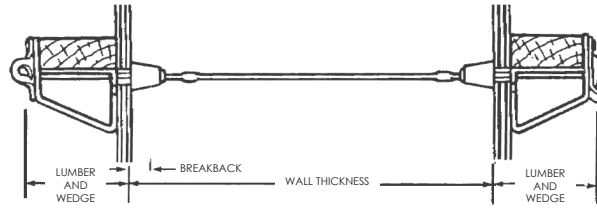
# 110

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Hot Forged 1/2" Hex Head on Stock Sizes



### Standard Plastic Cone (PC)

Standard Snapties are manufactured from medium high carbon wire and 1"x1" plastic spreader cone providing a nominal 1" breakback. 1-3/16" end uses 3/4" plywood and wedge. 1-5/8" end uses 1-1/8" plywood and wedge. 4-3/4" end uses 3/4" plywood, 2x4 walers and wedge. 5-1/8" end uses 1-1/8" plywood, 2x4 walers and wedge. 8-1/4" end uses 3/4" plywood, 2x4 walers, 2x4 strongback for formwork alignment and wedge. Special ends available on request. Standard Snapties provide a safe working load of 2,250 lbs. Adequate end clamps are required to develop safe working loads. 100 pieces per carton.

### Wrench Head

The six sided snaptie is produced with a high quality, uniform shaped hot forged head. This six sided head permits break back of ties while the formwork is still in place. The tie uses a 1"x1" plastic cone to provide a nominal 1" break back. Use a 6 point 1/2" socket wrench to break back. After ties are broke-off, then the forms can easily be removed which greatly increases the speed of stripping resulting in significant labor savings. Masons cannot guarantee that ends longer than 4-3/4" will consistently breakback. Standard Snapties provide a safe working load of 2,250 lbs. Adequate end clamps are required to develop safe working loads. 100 pieces per carton.

No.	Size	Wt/Ctn (lbs)
CFT 6SEP	6" x 4-3/4"	24.0
CFT 8SEP	8" x 4-3/4"	26.0
CFT 10SEP	10" x 4-3/4"	28.0
CFT 12SEP	12" x 4-3/4"	31.0
CFT 6LEP	6" x 8-1/4"	32.0
CFT 8LEP	8" x 8-1/4"	34.0
CFT 10LEP	10" x 8-1/4"	37.0
CFT 12LEP	12" x 8-1/4"	39.0

Other sizes available on request.

### Optional Waterseal Washer

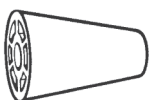
Optional Waterseal Washers provide a tight fitting 3/4" diameter neoprene washer located near the center of the tie. This helps eliminate water seepage along the tie by breaking the surface continuity of the wire. Available on request.



### Plastic cones

Plastic Cones are recommended when specifications require a nominal 1" or 1-1/2" breakback. Plastic cone sizes other than listed are available on special order.

No.	Diameter Size	Length	Wt (lbs)
MFG 1CONE	1"	1"	.09
MFG 114CONE	1-1/4"	1-1/2"	.018



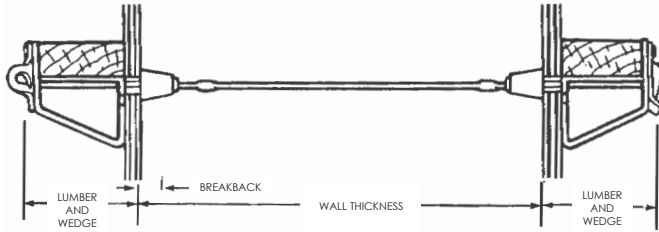
No.	Size	Wt/Ctn (lbs)
CT 61316PC	6" x 1-3/16"	22.5
CT 6158PC	6" x 1-5/8"	22.5
CT 6SE	6" x 4-3/4"	23.5
CT 65PC	6" x 5-1/8"	25.0
CT 6LE	6" x 8-1/4"	32.0
CT 81316PC	8" x 1-3/16"	25.0
CT 8158PC	8" x 1-5/8"	25.0
CT 8SE	8" x 4-3/4"	26.0
CT 85PC	8" x 5-1/8"	27.0
CT 8LE	8" x 8-1/4"	34.0
CT 101316PC	10" x 1-3/16"	30.0
CT 10158PC	10" x 1-5/8"	30.0
CT 10SE	10" x 4-3/4"	28.0
CT 105PC	10" x 5-1/8"	29.0
CT 10LE	10" x 8-1/4"	37.0
CT 121316PC	12" x 1-3/16"	30.0
CT 12158PC	12" x 1-5/8"	30.0
CT 12SE	12" x 4-3/4"	31.0
CT 125PC	12" x 5-1/8"	32.0
CT 12LE	12" x 8-1/4"	39.0
MST 14SE	14" x 4-3/4"	33.0
MST 14LE	14" x 8-1/4"	41.0
MST 16SE	16" x 4-3/4"	35.0
MST 16LE	16" x 8-1/4"	43.0
MST 18SE	16" x 4-3/4"	38.0
MST 18LE	18" x 8-1/4"	46.0
MST 20SE	20" x 4-3/4"	40.0
MST 20LE	20" x 8-1/4"	48.0
MST 22SE	22" x 4-3/4"	42.0
MST 22LE	22" x 8-1/4"	50.0
MST 24SE	24" x 4-3/4"	44.0
MST 24LE	24" x 8-1/4"	53.0
MST 30SE	30" x 4-3/4"	51.0
MST 30LE	30" x 8-1/4"	59.0
MST 36SE	36" x 4-3/4"	58.0
MST 36LE	36" x 8-1/4"	66.0

Other sizes available on request.

SWL provides a factor of safety of approximately 2 to 1.

# SNAPTIES

## TIEING/HANDSET



### Heavy Duty

Heavy Duty Snapties are manufactured from high carbon wire with a 1 x 1 plastic spreader cones providing a nominal 1" breakback. Available in long and short end, special ends available upon request. Heavy Snapties provide a safe working load of 3,125 lbs. Adequate end clamps are required to develop safe working loads. **Available on request.**

### Custom Manufacturing

Masons own manufacturing capabilities allow fast availability of any snaptie up to 144" overall length. Special sizes for battered walls and different ends to allow different forming methods on each side fo the wall. Can be furnished without cones for pass through ties. **For special requirements give us a call.**



### Vinyl Sleeve

1/2" diameter x 2" long vinyl plastic sleeve, nominal 1" breakback. For use with formliner. The length of the sleeve seals against leakage and also leaves a smaller hole after stripping to be patched. Provide a safe working load of 2,250 lbs. Adequate end clamps are required to develop safe working load. **Available on request.**



### Fixed Metal Washer (FW)

Fixed metal washers are available in standard capacity. Breakback of fixed washer is 1/4". 1-3/16" end uses 3/4" plywood and wedge. 1-5/8" end uses 1-1/8" plywood and wedge. Fixed Metal Washers provide a safe working load of 2,250 lbs. Adequate end clamps are required to develop safe working load. 100 pieces per carton.

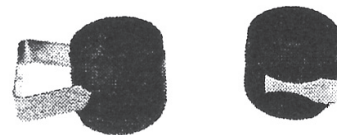
No.	Size	Wt/Ctn (lbs)
CT 61316FW	6" x 1-3/16"	18.0
CT 81316FW	8" x 1-3/16"	21.0
CT 101316FW	10" x 1-3/16"	23.0
CT 121316FW	12" x 1-3/16"	26.0
CT 6158FW	6" x 1-5/8"	19.0
CT 8158FW	8" x 1-5/8"	22.0
CT 10158FW	10" x 1-5/8"	27.0
CT 12158FW	12" x 1-5/8"	32.0
<b>Other sizes available on request.</b>		



### Clip On Waterstop

Easy placement. Can be attached before or after the snaptie is installed. One touch attachment. Expands by water contact.

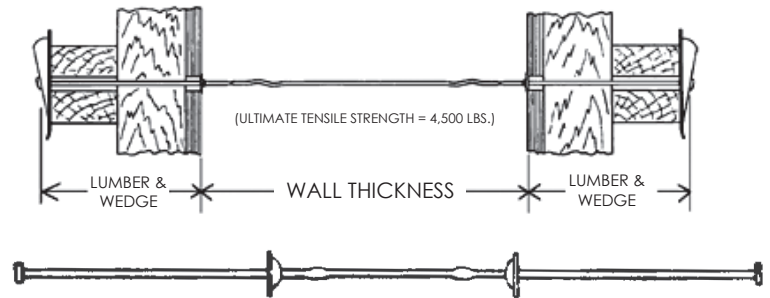
No.	Wt/Ctn (lbs)
ADE CRING8	.015



SWL provides a factor of safety of approximately 2 to 1.

### Cupped Loose Washer (CW)

Loose washer snapties are available in standard capacity. Breakbacks of loose washer are 1/4". 1-3/16" end uses 3/4" plywood and wedge. 1-5/8" end uses 1-1/8" plywood and wedge. 4-3/4" end uses 3/4" plywood, 2x4 waler and wedge. 5-1/8" end uses 1-1/8" plywood, 2x4 waler and wedge. 8-1/4" end uses 3/4" plywood 2x4 waler, 2x4 strongback for formwork alignment and wedge. Cupped loose washers provide a safe working load of 2,250 lbs. Adequate end clamps are required to develop safe working load. 100 pieces per carton.



No.	Size	Wt/Ctn (lbs)
CT 61316CW	6" x 1-3/16"	18.0
CT 81316CW	8" x 1-3/16"	21.0
CT 101316CW	10" x 1-3/16"	23.0
CT 121316CW	12" x 1-3/16"	26.0
CT 6158CW	6" x 1-5/8"	19.0
CT 8158CW	8" x 1-5/8"	22.0
CT 10158CW	10" x 1-5/8"	27.0
CT 12158CW	12" x 1-5/8"	32.0
CT 65CW	6" x 5-1/8"	25.0
CT 85CW	8" x 5-1/8"	27.0
CT 105CW	10" x 5-1/8"	29.0
CT 125CW	12" x 5-1/8"	32.0
CT 6SECW	6" x 4-3/4"	24.0
CT 8SECW	8" x 4-3/4"	26.0
CT 10SECW	10" x 4-3/4"	28.0
CT 12SECW	12" x 4-3/4"	31.0
CT 6STCW	6" x 8-1/4"	32.0
CT 8STCW	8" x 8-1/4"	34.0
CT 10STCW	10" x 8-1/4"	36.0
CT 12STCW	12" x 8-1/4"	39.0
<b>Other sizes available on request.</b>		

### SNAPTIE PRECAUTIONS

1. Do not climb on ties in the forms.
2. Do not over hammer the wedges at the tie ends. Can cause pinching of the tie head and severe pre-loading.
3. Do not place concrete in one area of form, letting it build up in height exceeding the design pour rate.
4. Do not move concrete laterally by means of the vibrator.
5. Do not drop concrete in excess of 30" into wall forms. This will result in aggregate segregation and unnecessary, dangerous impact loading.
6. Do not allow concrete to build up behind plastic cone or metal washer.
7. Do not install bent or visibly damaged ties.
8. Do not allow ties to remain on the wall beyond 2 to 5 days. Remove snap portion as soon as reasonably possible.
9. Do not skip or omit any studs or walers, as this will likely cause a form failure.
10. Do not weld ties to any object.
11. Snapties are not designed to carry scaffold bracket loads.

SWL provides a factor of safety of approximately 2 to 1.

## TIEING/HANDSET

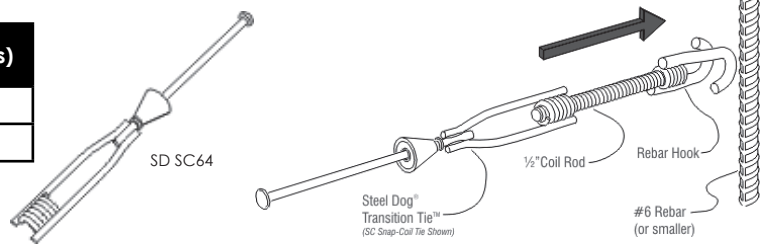
### Snap-Coil™ Tie

A multipurpose tie for job-built form systems. Standard button head snap tie on one end and a 1/2" coil rod adapter on the other. Snaps off like normal tie. A low cost solution for one-sided forming and adjustable-length ties. Welded to rigorous standards using computer-controlled equipment: each tie is as strong as a standard snaptie. Standard 2250 lbs Safe Working Load.

Just like Loop-Coil Ties, Snap-Coil Ties can be used with 1/2" coil rod to make adjustable ties or to anchor into existing walls for one-sided walls. Here, Snap-Coil Ties are used to form a one-sided, battered wall. The ties are threaded onto 1/2" coil rod stubs welded onto vertical sections of steel pipes left from previous grouting operation. For about the cost of a single coil tie, the ties give you the adjustability of a coil tie with the convenience of a disposable snap-tie end. Eliminates the labor and expense of coil bolts or other removable components.

Supplied with standard 1" cones and 1" breakback. Available in 4-3/4" end (SC-64) or 8-1/4" end (SC-68). Like all Transition Ties, the ties can also be used for making adjustable-length ties or used with Rebar Hooks for Stay-Form blind side walls and other applications. 100 pieces per carton.

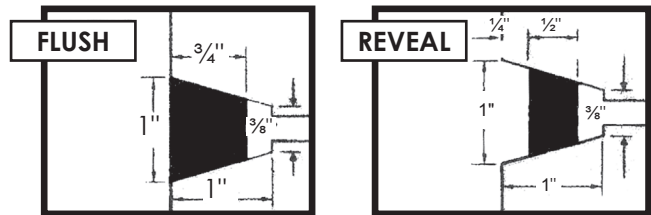
No.	Size	SWL Tension (lbs)	Min 1 side Wall	Wt (lbs)
SD SC64	4-3/4" end	2,250	6"	.29
SD SC68	8-1/4" end	2,250	6"	.33



### Concrete Plug

Concrete plugs are designed to be used with 1" x 1" snaptie cones. Break or twist snap-tie end off the cured wall. Apply with plastic applicator bottle into void. For a cleaner finish, dip the end of a concrete cone into the adhesive solution to avoid drips. Then simply push the cone firmly into the void. Adhesive holds instantly and fully cures within 15 minutes. Sand flat if protruding. Concrete plugs are preferred over patching due to less labor and the elimination of possible patch shrinkage.

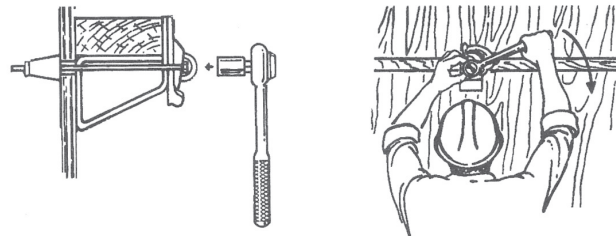
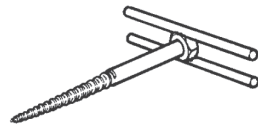
No.	Description	Wt (lbs)	Qty/Ctn
DS 1CONPL	Flush	0.03	500
DS 1CONR	Reveal	0.02	2,000



### Cone Removal Wrench

This "tee" handled wrench utilizes a lag screw thread for easy insertion and removal of snaptie cones which failed to remove themselves along with the tie end.

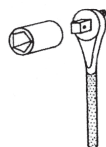
No.	Wt (lbs)
DS 44245	1.0



### Wrench Head Socket

The special socket wrench makes form stripping fast and easy. The socket fits securely over the five sided head. A quick half turn is all it takes to break the tie. Takes a 3/8" socket wrench.

No.	Wt (lbs)
CFT PW	1.0



### How to Break Back Wrench Head Ties:

1. Keep the tension on the tie and bracket.
2. Place a 3/8", 5 point socket and ratchet over the head of the tie.
3. Standing in front of the tie, hold the socket on the hex head with one hand and turn the ratchet with the other. A 1/4 to 1/2 turn of the ratchet will normally break the tie end.
4. Mason's cannot guarantee that ends longer than 4-3/4" will breakback consistently.

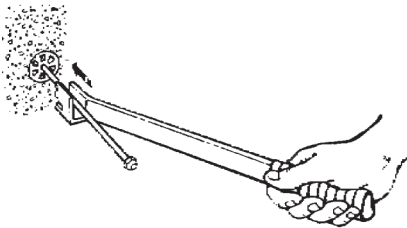
SWL provides a factor of safety of approximately 2 to 1.

### Shank Wrench

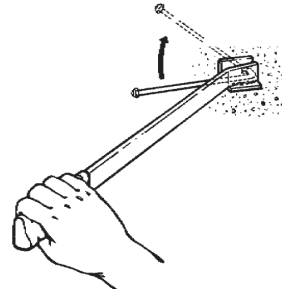
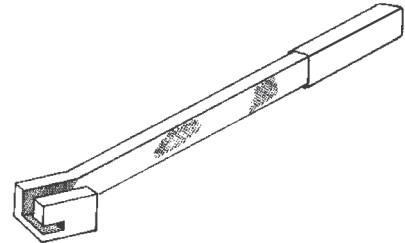
The wrench is designed to be applied to the tie at the concrete face after the form work has been removed using a bending and rotation movement to break off tie ends.

No.	Wt (lbs)
DS 30322	2.3

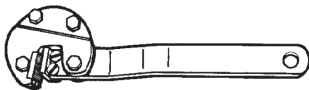
#### Using the Shank Wrench:



1. After the form has been removed, slide the wrench up the tie until the front of the wrench contacts the concrete.



2. Keep the wrench tight against the concrete and push the handle towards the concrete, thus bending the tie nearly 90°. Next, rotate the wrench around the centerline of the tie. 1/4 to 1/2 turn is usually sufficient to snap off the tie end.



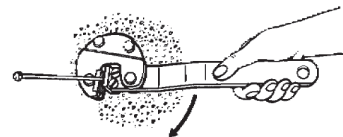
### Break Back Wrench

The Break Back Wrench is used to break off tie ends after the forms have been stripped. Apply the wrench to the tie so that the jaws grip the wire of the tie and the wrench is flush with the concrete face.

No.	Wt (lbs)
DS 30323	1.5

#### Important Tie Breaking Information:

1. For best results, ties should be broken off in two to five days after concrete placement.
2. Attempting to break the tie in "green" concrete may result in the tie rotating in the concrete. This makes it very difficult to break the tie with conventional methods.
3. For proper breakback strip forms, make sure that the spreader cone or washer is loose and the tie bead, which is located directly behind the washer, is free of the concrete.
4. When a tie will not break back or a spreader cone or washer is embedded in the concrete, use a hammer and screw driver to chip away the concrete to free the embedded part. Failure to follow this practice may result in the tie breaking near the face of the concrete instead of at the proper breakback point.



#### Using the Break Back Wrench:

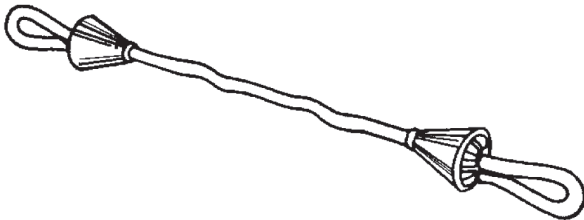
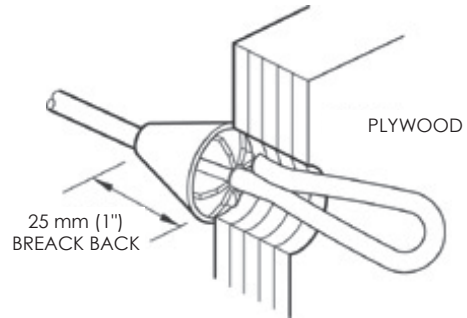
1. Grip the tie with the jaws of the wrench, as close to the concrete as possible.
2. Rotate the wrench, usually 1/4 to 1/2 turn will snap off the tie end.

# LOOP END TIES

## TIEING/HANDSET

### Loop End - Camlock

The self-centering loop ties are fabricated from medium carbon wire. Loops are electrically welded to insure consistent, safe working loads. This tie is fabricated utilizing a unique style of plastic cone. Cone is designed with a protruding back section which fits snugly into a 13/16" dia. hole drilled in the plywood form. Self-centered cone causes the drilled hole to be totally covered by the cone, greatly reducing the grout leakage through the form tie hole. 100 pieces per carton. SWL 2,250 lbs.



No.	Size	Wt/Ctn (lbs)
GT 44060	6"	20.6
GT 44080	8"	22.0
GT 44010	10"	25.0
GT 44012	12"	27.0
GT 44014	14"	29.0
GT 44016	16"	31.0
GT 44018	18"	33.0
GT 44020	20"	35.0
GT 44022	22"	37.0
GT 44024	24"	40.0
GT 44036	36"	45.0

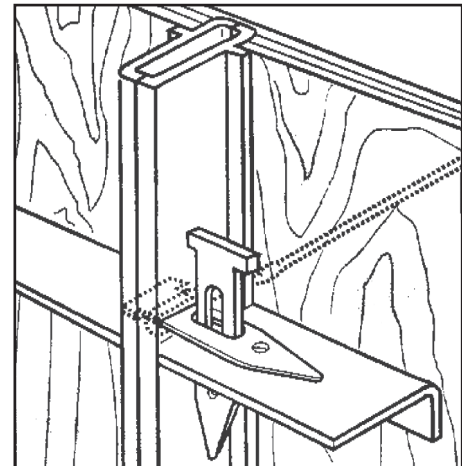
Other sizes and neoprene washers are available on request.

# PANEL TIES

## TIEING/HANDSET

### Modular Panel Ties

Masons offers a comprehensive line of panel ties for handset or gang formed applications where clean breakbacks and smooth concrete surfaces are required. While S-panel ties provide a standard 1" breakback that is easily patched. They are also offered with #30 durometer neoprene water seals, as well as 1½" breakback cones, that can be supplied on either or both ends of the tie depending upon specifications. Stainless steel is available for architectural applications, as well. All panel ties are manufactured to demanding tolerances, with thorough testing from raw material to final product.

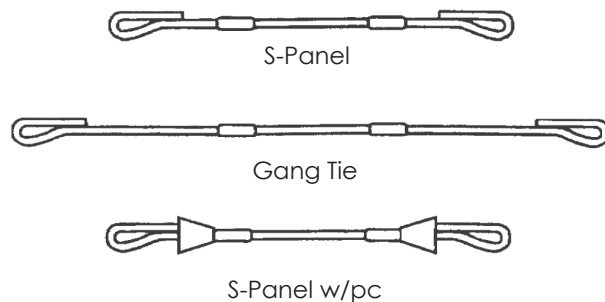


SWL provides a factor of safety of approximately 2 to 1.

## S-Panel / Steel Ply®

For use with handset modular forming systems. S-Panel Ties provide a 1" breakback. The loop end can be broken off by twisting with a claw hammer. Available with neoprene waterseals, plastic cones or special breakbacks on special order. 100 pieces per carton.

No.	Size	SWL Tensions (lbs)	Wt/Ctn (lbs)
<b>Regular</b>			
SY 50606	6" SPT	2,250	18.0
SY 50608	8" SPT	2,250	20.0
SY 50610	10" SPT	2,250	22.0
SY 50612	12" SPT	2,250	24.0
<b>Heavy Duty</b>			
SY 54106	6" H.D.SPT	2,800	21.0
SY 54108	8" H.D.SPT	2,800	23.0
SY 54110	10" H.D.SPT	2,800	25.0
SY 54112	12" H.D.SPT	2,800	28.0
SY 54114	14" H.D.SPT	2,800	31.0
SY 54118	18" H.D.SPT	2,800	36.0
SY 54120	20" H.D.SPT	2,800	39.0
SY 54124	24" H.D.SPT	2,800	44.0
<b>Other sizes available on request. Cones &amp; Water Seals special order.</b>			



## S-BASE

This Base Tie is used at the base and/or top of steel ply panels. Standard tie is supplied without breakbacks or plastic cones. 100 pieces per carton. SWL 1,500 lbs.

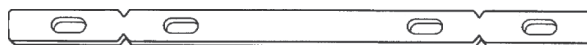
No.	Size	Wt/Ctn (lbs)
SY 51106	6"	25.0
SY 51108	8"	27.0
SY 51110	10"	29.0
SY 51112	12"	32.0
<b>Other sizes available on request.</b>		



## X-FLAT

Used with steel ply handset modular forming systems. Available in lengths up to 24" to handle most common wall thicknesses. Flat ties are simple and economically used in handset applications where concrete surface appearance and clean tie breakback are not essential. Ends can be broken off by a hammer. 100 pieces per carton. SWL 2,800 lbs.

No.	Size	Wt/Ctn (lbs)
SY 52206	6"	26.0
SY 52208	8"	30.0
SY 52210	10"	35.0
SY 52212	12"	40.0
<b>Other sizes available on request.</b>		



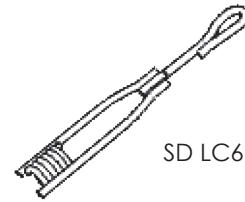
SWL provides a factor of safety of approximately 2 to 1.

# PANEL TIES

## TIEING/HANDSET

### Loop-Coil™ Tie

A multipurpose tie for modular form systems. Has a heavy-duty loop panel tie on one end and a 1/2" rod adapter on the other. Snaps off like normal loop panel tie. It is a low cost solution for one-sided forming and adjustable-length ties. Welded to rigorous standards using computer-controlled equipment: each tie is as strong as a standard heavy-duty panel tie. 100 Pieces per carton.

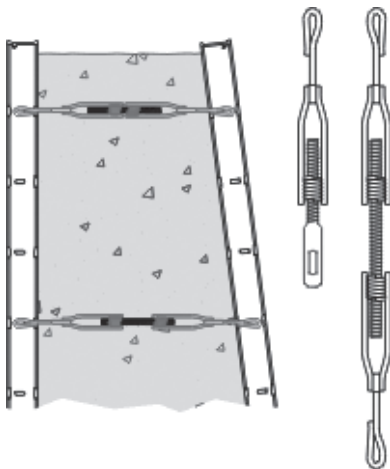


SD LC6

No.	Size Rod	SWL on Tension (lbs)	Min 1 Side Wall	Wt (lbs)
SD LC6	1/2" Coil	2,800	6"	0.28
SD LC6NC	1/2" NC	2,800	6"	0.28

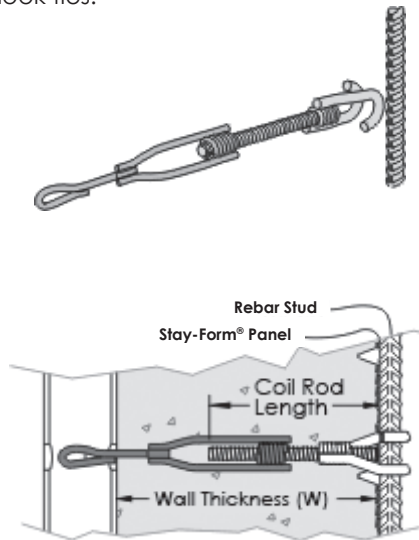
### Adjustable-Length Ties

Loop-Coil™ Ties allow you to make adjustable-length ties from off-the-shelf components. Use a single tie and reusable gang water rod for ties down to 4" length. Or, thread two ties back-to-back onto a length of standard 1/2" coil rod for adjustable-length ties for 8" walls and up.



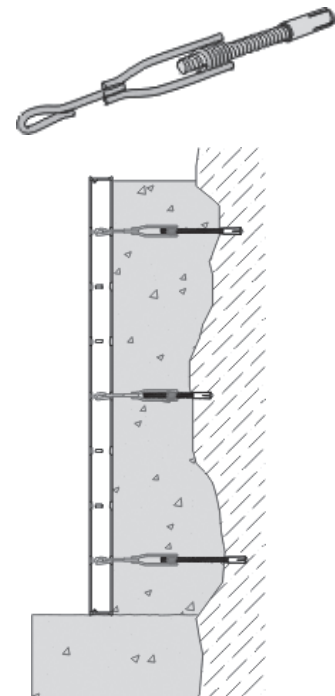
### Blind Side Walls

Form a blind side wall of any width by simply threading a Loop-Coil Tie and a Rebar Hook onto a length of 1/2" coil rod. This fast way of connecting to the rebar studs used to back up Stay-Form® panels eliminates costly, labor-intensive, custom-made hook ties.



### One-sided Forming

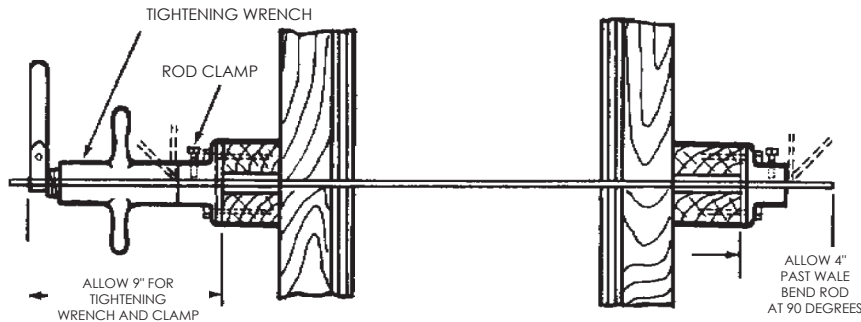
Loop-Coil™ Ties provide a convenient way to do one-sided forming. Secure lengths of 1/2" coil rod into drilled holes in existing wall with drop-in anchors, rock anchors, epoxy, or other means. Then screw on Loop-Coil™ Ties to proper wall thickness and attach to modular forming panels. Other standard 1/2" coil rod hardware (Rebar Hooks, Coil-Lags™, toggle bolts, plate washers and nuts, etc.) can be used to secure to sheet piling, plywood, or other materials.



**CAUTION:** DO NOT BEND ANY PORTION OF LOOP-COIL TIES. DISCARD ANY BENT OR DAMAGED TIES.

SWL provides a factor of safety of approximately 2 to 1.



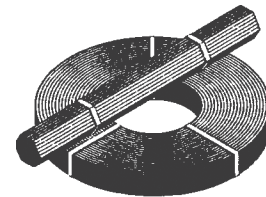


The **Pencil Rod System** is most commonly used in battered walls and foundations of unusual width where snapties are not practical. Pencil rod is simple and economical where surface appearance and clean breakback are not essential.

### Pencil Rod

1/4" pencil rod is available in coil form or bundles of 20 ft. straight lengths. If using coiled wire, must be straightened on jobsite before using.

No.	Size	Wt (lbs)
W 14P	Coil 100 lbs.	0.14/lf
W 20PR	20' lengths	2.80/pc



### Rod Clamp

Set Screw Clamps available for 1/4" diameter rods. Fabricated from ductile material suitable for use with mild steel wire rods serving as the form tie. The spreader action is by some other external means.

No.	Size	SWL Tensions (lbs)	Wt (lbs)
DS 1RC	1/4"	1,125	0.40



### Tightening Wrench

This is required to draw wire tie rod up tight and hold it in position until the set-screw in the rod clamp is tightened. A needed accessory to the rod clamp.

No.	Size	Wt (lbs)
DS 1RODW	1/4" rod	1.30



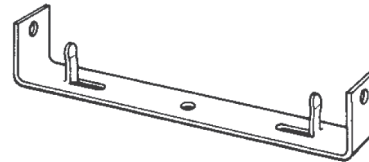
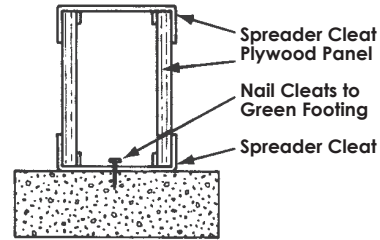
SWL provides a factor of safety of approximately 2 to 1

# SPREADER CLEATS

## TIEING/HANDSET

### Cleats

Spreader Cleats are used for forming foundations up to 32" high. Space cleats at 32" maximum centers for form panels up to 24" high. For form panels over 24" and up to 32" high, space cleats at 24" centers maximum. Caution must be used with 3/4" thick panels 18" or higher as extreme deflection may occur, unless snap ties are also used. The stamped metal cleat is available with 3/4" and 1-1/8" for plywood panels, 2" for dimension lumber. SWL 750 lbs.

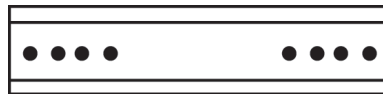


No.	Size	Qty/Ctn	Wt/Ctn (lbs)
CT 634R	6" x 3/4"	100	35.0
CT 6118R	6" x 1-1/8"	100	38.0
CT 6158R	6" x 1-5/8"	100	42.0
CT 6414R	6" x 4-1/4"	50	35.0
CT 834R	8" x 3/4"	100	42.0
CT 8118R	8" x 1-1/8"	100	45.0
CT 8158R	8" x 1-5/8"	100	48.0
CT 8414R	8" x 4-1/4"	50	36.0
CT 1034R	10" x 3/4"	100	50.0
CT 10118R	10" x 1-1/8"	100	52.0
CT 10158R	10" x 1-5/8"	100	56.0
CT 1234R	12" x 3/4"	100	57.0
CT 12118R	12" x 1-1/8"	100	59.0
CT 12158R	12" x 1-5/8"	50	33.0
CT 1434R	14" x 3/4"	50	32.0
CT 14118R	14" x 1-1/8"	50	34.0
CT 14158R	14" x 1-5/8"	50	36.0
CT 1634R	16" x 3/4"	50	36.0
CT 16118R	16" x 1-1/8"	50	38.0
CT 16158R	16" x 1-5/8"	50	39.0
CT 1834R	18" x 3/4"	50	40.0
CT 18118R	18" x 1-1/8"	50	42.0
CT 18158R	18" x 1-5/8"	50	44.0
CT 2434R	24" x 3/4"	50	50.0
CT 24118R	24" x 1-1/8"	50	52.0
CT 24158R	24" x 1-5/8"	50	53.0

Other sizes available on request.

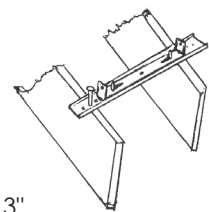
Wall Thickness	Panel Thickness	Pours up to 24" Height	Pours up to 32" Height
6"	3/4" 1-1/8" 1-5/8"	32" Max Spacing	24" Max Spacing
8"	3/4" 1-1/8" 1-5/8"	32" Max Spacing	24" Max Spacing
10"	3/4" 1-1/8" 1-5/8"	32" Max Spacing	24" Max Spacing
12"	3/4" 1-1/8" 1-5/8"	32" Max Spacing	24" Max Spacing
14"	3/4" 1-1/8" 1-5/8"	32" Max Spacing	
16"	3/4" 1-1/8" 1-5/8"	32" Max Spacing	

**NOTE:** The cleat spacings and rates of pour listed are the maximum permissible for each size cleat. Masons Supply will not be responsible or liable for form failures where the maximum cleat spacing or recommended rate of pour has been exceeded.



### Monostrap

For single pour, inverted foundation. Used with spreader cleats. Cleats install inside channel. Monostrap length is equal to footing width plus 3". 20 pieces per bundle.



No.	Actual Size	Footing Size	Wt (lbs)
CT 15M	15"	12"	0.55
CT 17M	17"	14"	0.60
CT 19M	19"	16"	0.75
CT 23M	23"	20"	0.90
CT 27M	27"	24"	1.0

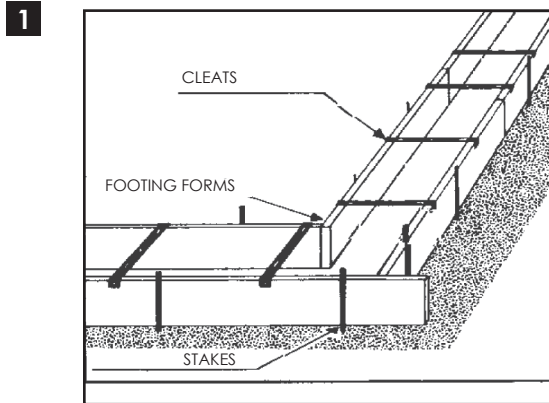
SWL provides a factor of safety of approximately 2 to 1

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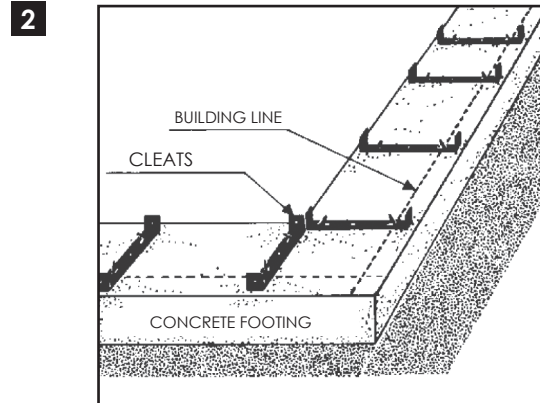
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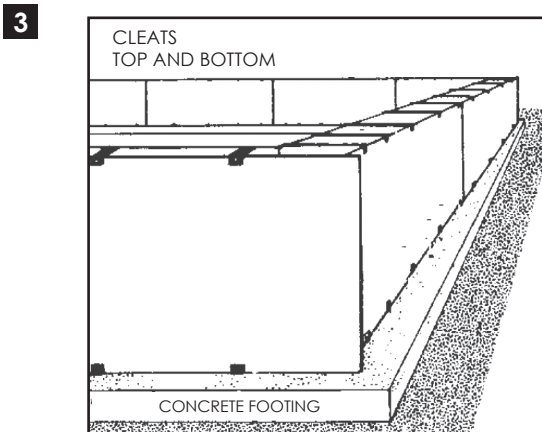
Clackamas | Eugene | West Eugene | Hillsboro | Medford | Portland | Salem | Wilsonville | Ridgefield | Seattle | Tacoma | Woodinville



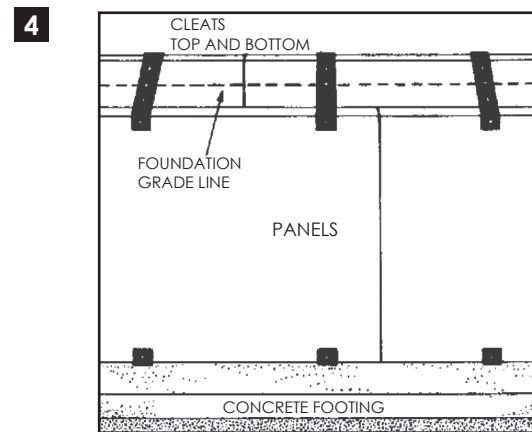
Footing Forms in position using Cleats & Stakes.



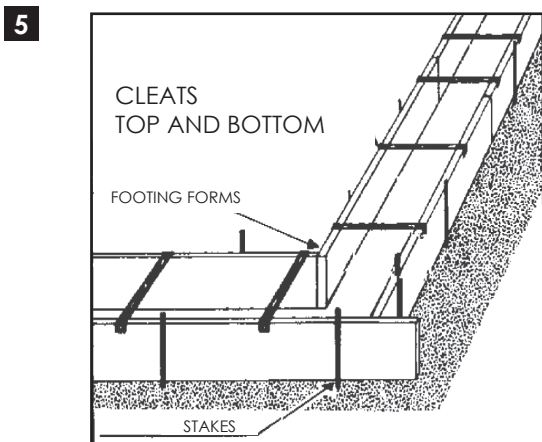
Cleats on building line, ready to set panels. Nail corner clips



Panels held by Cleats top and bottom, ready for grade, final alignment and pouring concrete.



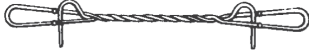
Proper clip spacing on joint, showing natural off-set of panel from a corner start. Use same spacing top and bottom.



Sheet metal pan held in place by Cleats. Pan eliminates cutting of inside panels and provides starting point for stripping.

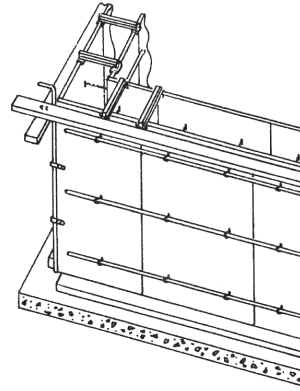
# RESI-FORM TIES

## TIEING/HANDSET

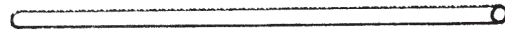


### Twisted Wire Tie

Twisted Wire Ties supplied with E-Z BreakBack ends. Ties can be broken off flush with the wall surface quickly and easily, usually with a stroke or two of a hammer. Economical and typically used where surface appearance and clean breakback are not essential. Ties are made of 11 gauge galvanized wire, with a safe working load of 1,000 lbs. 100 pieces per bundle.



No.	Size	Wt/Ctn (lbs)
GT 19060	6"	8.0
GT 19080	8"	10.0
CT 58SD	5/8" x 20"	20.0



### Flat Snap Tie

The flat snaptie provides support through the horizontal joints between the plywood panels. Breakback after stripping is accomplished with a horizontal hammer blow. 100 per carton.

No.	Size	Wt/Ctn (lbs)
CT 6118FT	6" x 1-1/8"	30.0
CT 8118FT	8" x 1-1/8"	35.0
CT 10118FT	10" x 1-1/8"	40.0
CT 12118FT	12" x 1-1/8"	45.0



### Flat Snaptie Wedge

Used to take up and secure flat snaptie ties to the panels. The wedge is secured with a vertical hammer blow and is released during stripping with a reverse hammer action. 50 per carton.

No.	Wt/Ctn (lbs)
CT FTW	37.0



SWL provides a factor of safety of approximately 2 to 1



# TIEING / HANDSET

M A S C O . N E T

**TIEING/HANDSET**

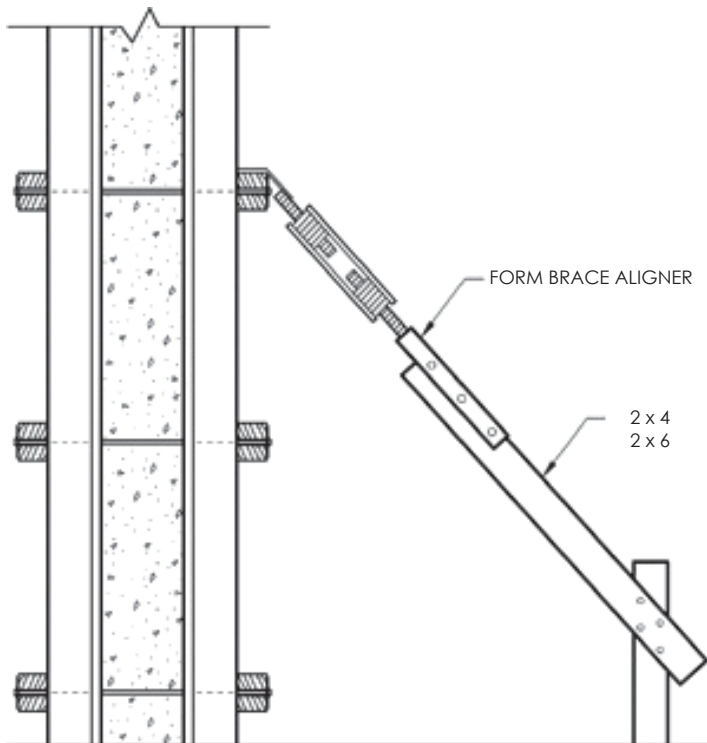
## SuperTie Fiberglass System

The Light SuperTie System offers an ultimate tensile strength of 6,000 lbs (3,000 pounds safe working load at 2:1 safety factor), and is most commonly used with job-built (plywood and 2 x 4) forms. The fiberglass rod diameter is only .308 inches, making the system compatible with most commercial forming systems. The fiberglass tie will never rust, so no breakback or tie removal is required. Many dollars in labor are saved by using SuperTie, while aesthetically superior architectural finishes result. It also reduces costs in battered wall and "odd sized" tie situations, since the rod is cut to the length required at the job site.

No.	Wt (lbs)		
<b>Gripper</b>			
RJ GND6000	1.0		
<b>Accessories</b>			
<b>Rod</b>			
No.	Rod	Pcs/Bundle	Wt (lbs)
RJ B100	.308" x 20'	50	60.0
<b>Plate Washer</b>			
No.	Size	Rod Diameter	Wt (lbs)
CFA PW331412	3" x 3" x 1/4"	1/2"	0.65



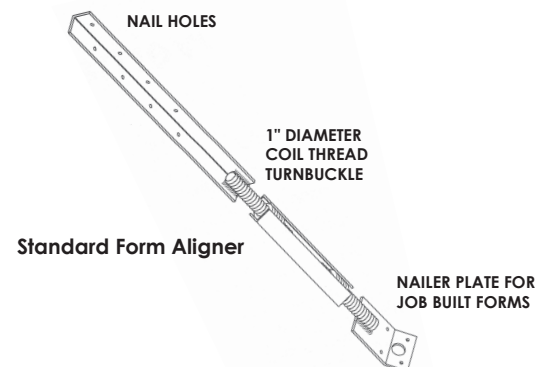
Rod, Gripper and Bearing Plate - the basic components of the Light and Medium Systems



## Turnbuckle Form Aligners

Turnbuckle Form Aligners are designed to accurately position and plumb vertical forms. The turnbuckle section of the aligner features a 1" diameter self-cleaning coil thread for fast adjustments. The standard aligner has bent nailing plate equipped with nail holes and a 15/16" hole to accept 3/4" or 7/8" steel stakes. The safe working load of the aligners is limited by the lumber, nailing and/or staking methods.

No.	Wt (lbs)
RC TB	8.0



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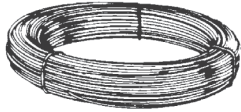
# WIRE PRODUCTS



## TIEING/HANDSET

### Wire

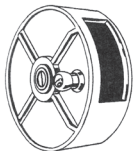
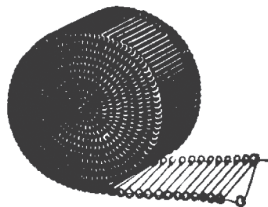
No.	Size	Wt (lbs)
W 9BLAN	9 Gauge Black	50.00
W 9HD10	9 Gauge x 10' H.D. Galv	0.60/pc



### Loop End

For fast tying of rebar or bags. Available in plain or PVC coated. Bar ties are available in full bundles of 5,000 pieces. Ordering length indicates overall dimension from outside of loops.

No.	Size	Wt/Bndl (lbs)
<b>Plain</b>		
W 417WT	4"x17 Gauge	30.0
W 617WT	6"x17 Gauge	38.0
W 817WT	8"x17 Gauge	48.0
<b>PVC Coated</b>		
W 416PVC	4"x16 Gauge	37.5
W 616PVC	6"x16 Gauge	42.5



### Reel

The cover spins off for easy loading and unloading of any standard wire spool holding 3-4 lbs. of 14 to 20 gauge wire.

No.	Description	Wt (lbs)
DD REEL	Plastic	1.0
TKL 27400	Aluminum	2.0

### Tie Wire

For tying rebar. Available in plain or PVC coated. Wire is available in 3.5 lb. spools. 20 rolls per carton.

No.	Size
W 16TIE	16 Gauge
W 16.5TIE	16.5 Gauge
W PVCTIE	16 Gauge PVC Coated



### Tie Wire Premium

16 gauge Premium Soft Annealed Tie Wire is soft, clean and tangle-free. Speedwire offers 14% more length on the 3.5 lb. coil enabling reel to be refilled less often. Speedwire is also easier to cut and twist. Wire is available in 3.5 lb. spools. 20 rolls per carton.

No.	Size
W 16PREM	16 Gauge Premium
W 16.5SPEED	16.5 Gauge Speedwire



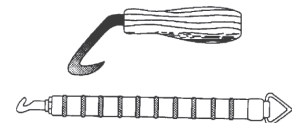
### Tie Lengths

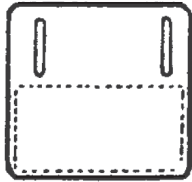
BAR NOS.		2	3	4	5	6	7	8
	<b>BAR SIZES</b>	¼"	⅜"	½"	⅝"	¾"	⅞"	1"
2	¼"	3"	3½"	4"	4½"	5"	5½"	6"
<b>LENGTH IN INCHES OF TIE REQUIRED</b>								
3	⅜"	3½"	4"	4½"	5"	5½"	6"	6½"
4	½"	4"	4½"	5"	5"	5½"	6"	6½"
5	⅝"	4½"	5"	5"	5½"	6"	6½"	7"
6	¾"	5"	5½"	5½"	6"	6½"	6½"	7½"
7	⅞"	5½"	6"	6"	6½"	6½"	7"	7½"
8	1"	6"	6½"	6½"	7"	7½"	7½"	8"

### Tie Wire Twister

Designed to twist looped wire ties with a minimum of effort. Lets you do the job right, quickly and safely.

No.	Description	Wt (lbs)
W HT	Hand	1.0
W ATT	Automatic	2.0

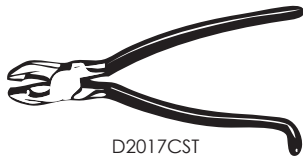




### Tie Wire Reel Pad

Worn on the belt under tie wire reel. Made of 3/16" thick rigging leather with slots to accommodate belts up to 2" wide. Pad sizes 7"x7" with rounded corners. Under side has a sponge rubber pad to minimize hip fatigue.

No.	Wt (lbs)
TKL 27450	2.23



D2017CST



D2017NE



D20009ST

### Ironworkers

Wire cutting for tying concrete reinforcing bars. Curved end handle; dipped handles. Bevel nose design plus long handles.

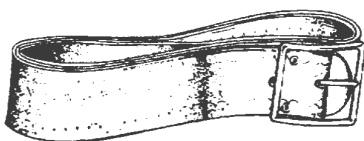
No.	Length	Wt (lbs)
<b>Ultra Durable - Side Cutter for Rebar Work</b>		
TKL D20007CST	7"	0.80
TKL D20009ST	9"	1.00
No.	Length	Wt (lbs)
<b>Standard - Side Cutter for Rebar Work</b>		
TKL D2017CST	7"	0.80
TKL GG517	9"	1.00
TKL D2139ST	9 <sup>3</sup> / <sub>8</sub> "	1.10
No.	Length	Wt (lbs)
<b>Narrow Nose - Side Cutter for Tight Places</b>		
TKL D2017NE	7"	0.80



### Plier Holder

Nose of pliers does not protrude from this high quality holder. Bottom is vented to prevent collection of dirt or water. Slotted to fit belts up to 2" wide. Made of leather.

No.	Size	Wt (lbs)
TKL 5107-9	3 <sup>1</sup> / <sub>2</sub> " x 9"	0.12



### Belt

Heavy duty 2" leather belt is ideal for nail bags and tool pouches. Rugged leather for long wear.

No.	Size	Wt (lbs)
TKL 5415	37" to 44"	0.56

# BANDING

## TIEING/HANDSET

### Steel Banding

For banding of forming materials, hardware and braces for transportation and storage. A must for all contractors for banding equipment, organization and safety concerns.



No.	Size	Wt (lbs)
W 34BAND	3/4" x 1,400 lf/roll	100.0

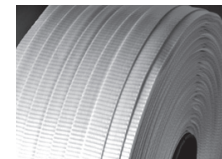
### Woven Cord Strapping

Outperforms steel banding and provides optimum protection against serious injury. Woven Cord Strapping can absorb impacts and load shifting that would normally break steel banding, and it will not lash-back dangerously when cut. It is fast and easy to use and stays strong and tight on product without causing rust or damage. It can be fastened with a buckle or hand tied. Cargo Restraints are designed specifically for project one-way cargos, and is an economical alternative to steel banding, chains, wire rope and other blocking and bracing materials. It can quickly accommodate many different strapping methods. Stays tight during transit and is ideal for securing heavy or irregular shaped loads.

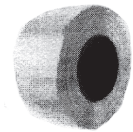


(STR KIT)

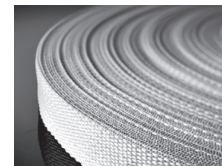
No.	Description	Size	Break Load (lbs)	Wt (lbs)
<b>Driver's Starter Kit</b>				
STR KIT	Includes (2) mini coils of STR S34-250, 250' each = 500', 75 pcs. of 3/4" Nitrate Buckles, Manual Leverage Bar Tensioner, Pallet Threading Wand and bonus economy 1/4" to 3/4" Tensioning Tool all in a metal tool box.	3/4"	2,425	25.00
<b>Rolls of Woven Cord Strapping</b>				
STR S34	3/4" Woven Cord Strap x 1640 ft/coil	3/4"	2,425	24.50
STR S34-250	3/4" Woven Cord Strap x 250 ft/mini coil	3/4"	2,425	3.70
<b>Rolls of Cargo Restraints</b>				
STR S114	1-1/4" x 410 ft/Coil	1-1/4"	4,400	13.00
<b>Heavy Duty Buckles</b>				
STR B34	3/4" Buckles - Phosphated x 1000/Ctn	3/4"	-	43.00
STR B34-100	3/4" Buckles - Phosphated x 100/Ctn	3/4"	-	4.30
STR B114	1-1/4" Buckles - Phosphated x 250/Ctn	1-1/4"	-	52.00
<b>Tensioner</b>				
STR T34	Economy Tensioning Tool (Not Repairable)	1/4" to 3/4"	-	3.00
STR T114	Tensioning Tool (preferred tool for woven & composite)	1" to 1-1/2"	-	8.00



(STR S34)



(STR S34-250)



(STR S114)



(STR B34)



(STR B114)



(STR T34)

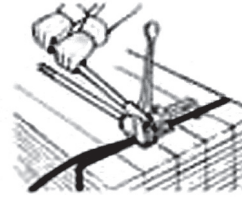


(STR T114)



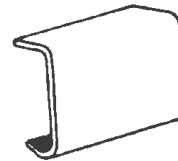
### Tensioner

No.	Description	Wt (lbs)
W TENSTOOL	Heavy Duty	15.0



### Clip

No.	Size	Wt (lbs)
W34CLIP	3/4" Snap-On	52.0
5,000 pieces/carton		



### Crimper

No.	Description	Wt (lbs)
W CRIMP	Heavy Duty	9.0



### Dispenser

Portable cart for use with steel strapping includes tray for tools, clips, etc.

No.	Wt (lbs)
W CART	100.0

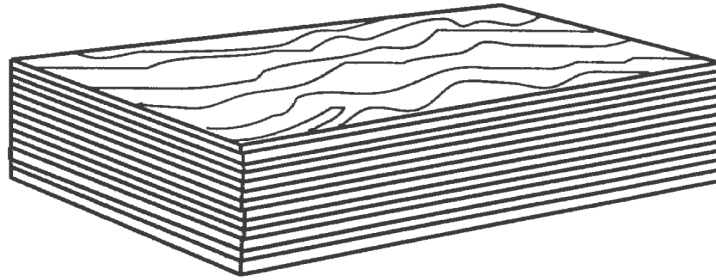


### Punched Banding

Band iron is a low cost method of tying wood forms together when there are no specific requirements for breakback and no tight tolerances on wall thickness and where the rate of pour is limited.

No.	Description	Wt (lbs)
W 34PERF-10	3/4" wide x 200' (approx.) Roll	11.0
W 34PERF-100	3/4" wide x 2000' (approx.) Roll	100.0





### High Density Overlay (HDO)

High Density Overlay Plywood is the standard "workhorse" of the concrete industry. Producing uniform surfaces and offering high reuses, HDO Plywood is ideal for most engineered forming systems. With HDO Plywood, cost-per-pour is low. It's tough resin overlay resists the alkali complexion of concrete and the scouring action of aggregates, enabling it to last far longer than BB-grade or MDO plywood. With reasonable care, 25 plus reuses can be expected. HDO Plywood gives concrete a smooth, glossy finish. Surface discoloration is held to a minimum because the overlaid veneer is impermeable and non-absorbent which keeps hydration uniform. The smooth face of overlaid plywood promotes the evacuation of air during consolidation, reducing bugholes and honeycombing. HDO Plywood minimizes grain and patch transfer as well. Since it keeps its finish longer than ordinary plywood, HDO Plywood assures a more consistent surface appearance. With HDO Plywood, stripping and clean-up are a breeze. It's non-absorbent so form release agents stay where they can do the most good—on the face of the panel. After a pour, HDO Plywood requires minimal clean-up for subsequent pours.

No.	Description	Size	Wt (lbs)
CFA HD011828-2	2 side	1-1/8" x 2' x 8'	54.0

### Medium Density Overlay (MDO)

For moderate reuse at a cost that's comparable to BB-grade plywood, Medium Density Overlay Plywood is an excellent value. MDO Plywood is best suited to applications where a glossy finish is undesirable or where a final finish of paint or acoustic texture is specified. MDO Plywood will leave concrete with a matte finish that readily accepts coatings. This same matte surface helps MDO Plywood hold release agents uniformly in place so there's less blotchiness from uneven hydration.

No.	Description	Size	Wt (lbs)
CFA MD03448-1	1 side	3/4" x 4' x 8'	70.0
CFA M003448-2	2 side	3/4"x4'x8'	70.0
CFA MD011828-2	2 side	1-1/8" x 2' x 8'	54.0

### Finish Form

Finish Form provides a superior concrete finish, leaving your surface smooth, clean, and consistent. It's high durability of scuff and abrasion resistance is excellent in strength. This increases panel reuse in concrete forming. For exterior use: Panels resist severe weather conditions. Finish Form is edge sealed to prevent moisture from penetrating. It is Ideal for exposed or Architectural concrete, yet cost effective for clad structural concrete. Finish Form's quality material results in an increased number of pour and optimum usage (unlike many other domestic forms). Finish Form is a hardwood panel and with more plys than domestic form.

No.	Description	Size	Wt (lbs)
CFA FF3448-2	2 sides	3/4" x 4' x 8'	70.0
CFA FF11828-2	2 sides	1-1/8" x 2' x 8'	54.0



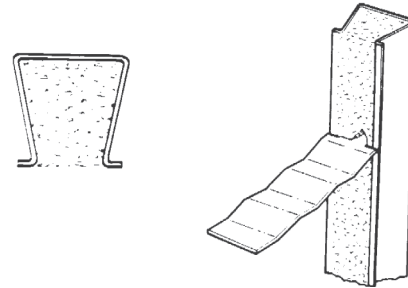
# ANCHOR SLOT / CHAMFER

M A S C O . N E T

**FORM TREATMENT**

## Anchor Slot

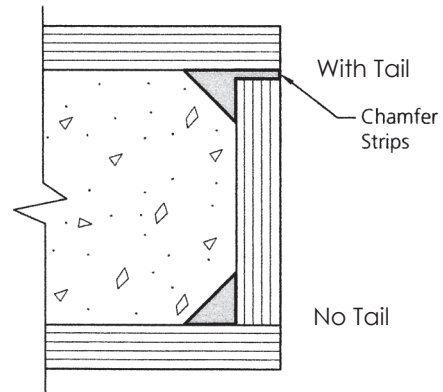
Used where masonry veneer is to be placed over concrete. Dovetail slot is accurately formed of 24 gauge galvanized steel filled with foam. The foam filler prevents grout from filling the slot. For application pre drill slot and attach to form work on 12" centers. Use caution not to allow dovetail to spread or collapse. Once forms are stripped, dovetail anchors are keyed into the slot.



No.	Description	Wt/Pc (lbs)
AA 24DTG	24 Gauge x 10' lengths	3.8
<b>Also available in other gauges and stainless.</b>		

## Chamfer - PVC Flexible

Chamfer Strip makes exposed outside corners of columns, beams and joists better looking and more durable. Nearly perfect corners are possible on columns as small as four inches. Reusable PVC works like wood but lasts 4 to 10 times longer. For maximum life chamfer strip should be applied with staples. 10 lf lengths.



No.	Description	Wt/Pc (lbs)
GS 602	1/2" Radius w/Tail	1.2
GS 603	3/4" Radius w/Tail	2.3
GS 604	1" Radius w/Tail	3.8
GS 611	1/2" w/Tail	1.2
GS 612	3/4" w/Tail	2.3
GS 613	1" w/Tail	3.8
GS 621	1/2" No Tail	1.0
GS 622	3/4" No Tail	2.0
GS 623	1" No Tail	3.5

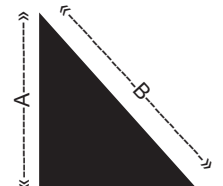
## Steel Chamfer

Used with steel forms to produce smooth straight corners with multiple reuses.

No.	Size	Wt/Pc (lbs)
SY 42168	1/2"x10'	4.4
SY 42169	3/4"x10'	11.2
SY 42170	1"x10'	17.5

## Standard Chamfer Dimensions

Size	A Dimension	B Dimension
1/2"	1/2"	23/32"
3/4"	3/4"	1-1/16"
1"	1"	1-13/32"



(See Pages 233-234 for more Chamfers)

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# CHAMFER

## FORM TREATMENT

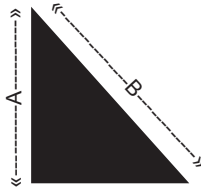
### Wood Chamfer

Produces smooth, straight bevels in freshly cast concrete.  
1000 lf/bundle.

No.	Size	Wt/Lf (lbs)
CFA WC12	1/2"	0.02
CFA WC34	3/4"	0.05
CFA WC1	1"	0.06

### Standard Chamfer Dimensions

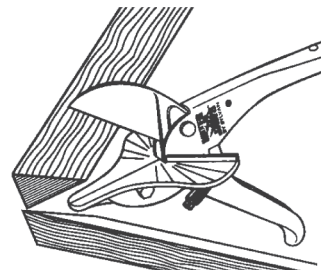
Size	A Dimension	B Dimension
1/2"	1/2"	23/32"
3/4"	3/4"	1-1/16"
1"	1"	1-13/32"



### Chamfer Cutter

For quick, clean cuts in wood chamfer up to 1". Hardened steel blade slices through most soft woods easily. Anvil acts like a chopping block, supporting the chamfer as the blade passes through it. A built in fence to either side of the blade assures perfect 45 degree miters every time. German crafted, pocket size; lock tight for safe carrying and quickly disassembled for sharpening.

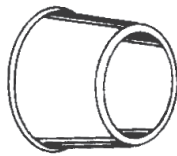
No.	Description	Wt (lbs)
CFA WCUT	Cutter	1.00
CFA WH	Holster	
CFA WB	Replacement Blade	0.50



## Plastic Form Plug

Push-In Plastic Plugs for inside or outside protection, they are perfectly adapted to your diameters. 100 pieces/carton.

No.	Size	Wt (lbs)
CT 916FP	9/16"	0.004
CT 1316FP	13/16"	0.007
CT 1516FP	15/16"	0.008
CT 11516FP	1-5/16"	0.009
CT 1916FP	1-9/16"	0.010



## Paddle Bit

Forged in one piece from special high analysis tool steel. Heat treated length to give overall strength. Shanks will not twist off.

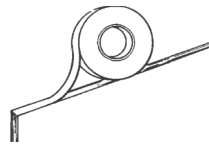
No.	Size	Wt (lbs)
TDR WB500	1/2"	0.07
TDR WB916	9/16"	0.07
TDR WB625	5/8"	0.07
TDR WB750	3/4"	0.07
TDR WB1316	13/16"	0.07
TDR WB875	7/8"	0.07
TDR WB1516	15/16"	0.07
TDR WB1	1"	0.07
TDR WB1125	1-1/4"	0.10
TDR WB112	1-1/2"	0.10



## Foam Tape

Closed cell vinyl foam with pressure sensitive adhesive on one side. Used with concrete forms to provide gap filling snug joints. Supplied in thickness of 1/16", 1/8", 1/4", and 3/8". Widths as required.

No.	Size
CT 1161FT	1/16" x 1"
CT 181FT	1/8" x 1"
CT 141FT	1/4" x 1"
CT 381FT	3/8" x 1"



## Bondo

A two-part component system that is a non-shrink, non-reactive and durable for repairing metal, wood, steel and plastic. Repair dents, patch holes and restore chips quickly and easily.

No.	Size	Wt (lbs)
MS 1GB	1 gal. can w/hardener	12.0

# SEALANT/REPAIR/LINERS



## FORM TREATMENT

### Expanding Foam Sealant

**Description:** A single component, moisture-cure, polyurethane foam sealant with a (H) CFC free propellant designed to fill gaps, cracks, etc., and used to stop air infiltration around door and window frames and pipe penetrations.

**Application:** Fill the lowest part of the cavity first. When using Expanding Sealant, fill only 40% with foam since formula expands approximately 2-1/2 times. Temperature of the surface to be foamed should be 40-95° F. Optimal can temperature is 70-80°F. Expanding Sealant will withstand continuous temperatures up to 195° F.

**Specifications:** 68° F  
**Color:** Yellowish  
**Expanded Volume:** Free Rise  
**Density:** 1.6 lbs./ft<sup>3</sup>  
**Tack Free:** 10 min  
**Cuttable:** 45 min  
**R Factor (ASTM G-518):** 3.8-4.5

**Coverage:**  
**Can Size:** 12 oz. can yield = 0.5 ft<sup>3</sup>  
**Bead Size:** 3/8" = 12 oz. = 275 linear ft.

No.	Size	Wt (lbs)	Qty/Ctn
FL QF	12oz	1.1	12

### FAMOWOOD®

**Description:** FAMOWOOD® Instant Wood Repair is a 2-component polyurethane (2:1 ratio by volume) resin system that comes in a single cartridge. It is less than 1% VOC and contains no solvents. It is designed for wood restoration and repair defects such as holes, cracks and gouges, for virtually any job large or small. Can be applied on to flat, sloped and/or vertical surfaces without running, dripping or shrinking.

FAMOWOOD® can be troweled for precise coverage to mirror the original surface. Product can be applied using hand-held cartridge dispensing applicators (top loading caulk gun for 6.1 fl oz./180mL) for small applications, or using metering equipment for larger industrial applications.

**Specifications:** 70° F  
**Mix Ratio (volume):** 2A:1B  
**Pot Life:** 2 min

**Cure Time:**  
**Initial:** 10 min  
**Final:** 60 min

**Viscosity:** Gel  
**Concrete Adhesion:** 500 psi (ASTM D-4541)  
**Shore "D" Hardness:** 60 (ASTM D-2240)

**Application:** Can be used for repair and restoration on log homes, trim work, base & crown moldings, cabinet restoration, and Marine - boat docks and pilings. Fills the voids for window replacement, deck repairs, architectural timber repairs and dry rot wood repairs.

**Coverage:** 1 each 6.1 fl. oz. cartridge yields approximately 11 in<sup>3</sup> of gel.

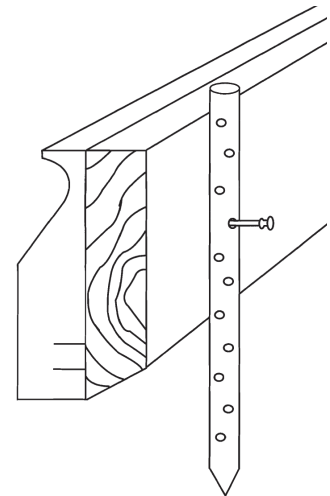
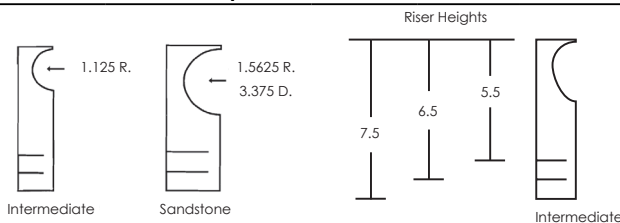
No.	Size	Wt (lbs)	Qty/Ctn
WV FW	6.1oz	1.1	12

### Step Liners

With Step Liners, shaping overhangs becomes a snap. Use spray adhesive and/or roofing tacks to fasten Step Liners to the inside of formwork. Radius steps may be set using bender board or masonry siding instead of rigid wooden forms. Break-away slots allow for 3 riser heights. Step Liners may be stripped and finished much earlier than conventional forms because it acts as a foam cushion against concrete. Use MASCO Bio Release Waterbased form release agent on form surface.

No.	Description	Length	Lf/Ctn	Wt/Ctn (lbs)
STG 2STP40	Intermediate	4 ft.	40	6.0
STG 17STP40	Sandstone	4 ft.	28	6.0

Other sizes available on request.

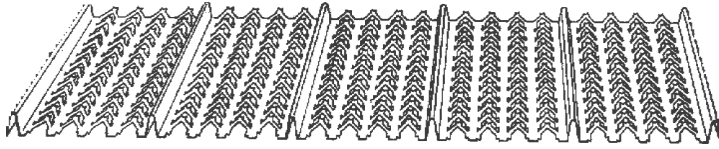


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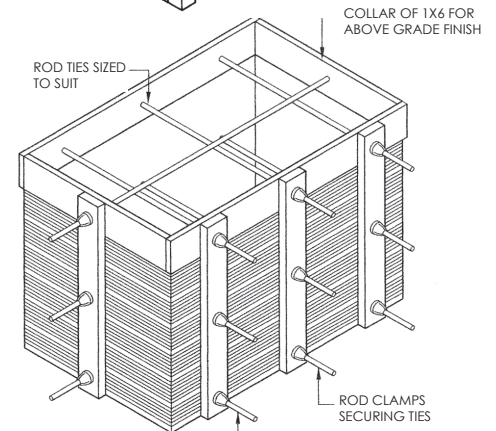
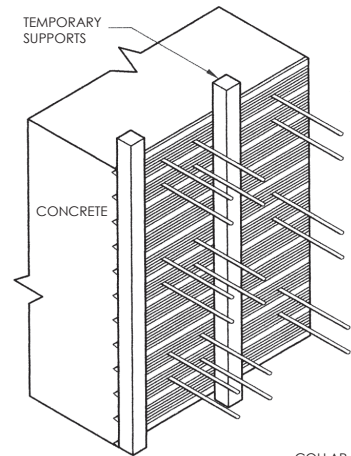
Clackamas | Eugene | West Eugene | Hillsboro | Medford | Portland | Salem | Wilsonville | Ridgefield | Seattle | Tacoma | Woodinville



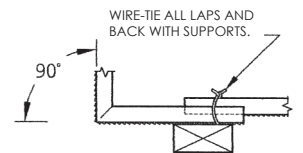
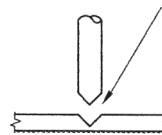
### Ribbed Metal Lath

When concrete is poured behind these formwork ribbed sheets, the angled tabs of mesh become embedded. They provide a high degree of control over the quality of the joint - which is strong in bond and shear as a well prepared scabbled joint. These metal backed ribbed sheets are designed for considerable performance and economic benefit when compared with traditional solutions.

Ribbed sheets achieve significant reductions in the concrete pressures normally associated with conventional formwork. They can be put into place before reinforcement bars which are then installed by piercing through the mesh area. Minimizes preparation of the joint surface, so reinforcement placing can continue without a break. Allows a high rate of rise of concrete and enables the pour to be visually monitored. Reduces the risk of voids and honeycombing. Sheets are left in place so formwork stripping is eliminated - saving you time. Only the supports are removed. Often can be supported by existing or extra reinforcement. The whole structure can be left in the concrete which eliminates the placing and removal of temporary supports. Large concrete pour sequences can be delayed by bad weather, batching plant breakdown or other problems. In such events, day work joints can be installed quickly. No need to clean, reface and oil formwork.



FOR CORNERS, NOTCH RIBS 3/8" DEEP WITH "V" CONTOURED ROTARY CUT-OFF BLADE AND BEND TO 90 DEGREES.



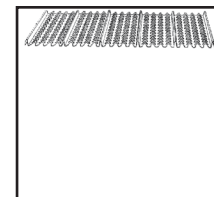
No.	Description	Size	Rib Space	Wt/Pc (lbs)
WM RML	Ribbed Metal	27" x 97" (18 sf)	3.80	12.0

### Features & Benefits:

- ◆ Reduced labor cost - no stripping costs (supports only).
- ◆ Lightweight sheets are easy to work with (install, cut, bend, etc.)
- ◆ Easy rebar and conduit penetrations.
- ◆ Visual inspection of concrete pour and consolidation.
- ◆ Retains surrounding soil while forming below grade structures.
- ◆ Permits water to run out of formwork during concrete pour.

### Metal Lath (No Ribs)

No.	Description	Size	Wt/Pc (lbs)
WM 34G	3.4 #/sy	27" x 96"	6.8
WM 25G	2.5 #/sy	27" x 96"	5.0
WM 175G	1.75 #/sy	27" x 96"	3.5



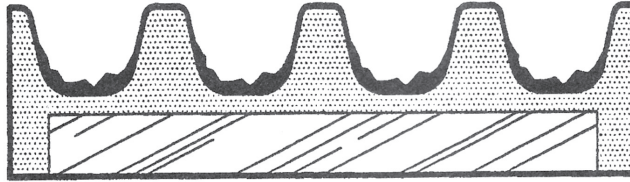
### Security Mesh

No.	Width of bond		Gauge of steel	Wt per 100 sq. feet	Size of Openings in Inches		Center to Center of Bond in Inches		Size of Strands in Inches	
	Size	Gauge	Wt	Width	Length	Width	Length	Width	Thickness	
WM 5M	3/4	13	80	.750	1.688	.923	2.00	0.96	0.92	



# FORM LINER

## FORM TREATMENT



### SPS™ Plastic

SPS™ Plastic Form Liner is manufactured from polystyrene plastic and thermoformed to provide the contractor with an inexpensive alternative for single use applications. It provides a textured concrete surface, in a limited application, at an affordable price. SPS Plastic Form Liner has been particularly useful in tilt-up construction because a major portion of the work calls for a single use material.

### ABS Plastic

ABS Plastic Form Liner is made from premium quality ABS Material that provides superb durability and excellent overall performance. ABS Plastic Form Liner exhibits good impact resistance and contains a ultraviolet shielding compound to reduce the damaging effects of prolonged sunlight. ABS Plastic Form Liners are available in patterns that provide wood, rib, fractured rib, brick and many other textures.

### Dura-Tex®

Dura-Tex® Form Liner is a medium use elastomeric form liner. It possesses all the qualities of premium elastomeric form liner, but is slightly less durable. Symons Dura-Tex® Form Liner is ideal for projects that require about 40 reuses.

The ruggedness and tear strength of Symons Dura-Tex® Form Liner allows stripping from complex designs without causing damage to the form liner material or the architectural concrete.

### Elasto-Tex®

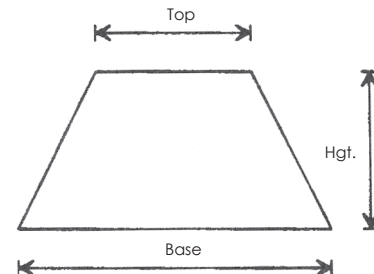
Elasto-Tex® is pure urethane material that provides consistent pattern reproduction, even after many uses. The applied cost of Elasto-Tex Form Liner becomes a distinct advantage for those projects that require 100 uses and more.

### Rustication Strip

Rustication Strips are either wood or plastic to attach to form face to produce a groove or rustication in the concrete. They can be used vertically or horizontally to create various surface effects and patterns. Can be used on wood or metal form and concrete casting beds.

### Rubber Reveal Strips

Flexible Reveal Strips provide a clean and crisp architectural detail to enhance the appearance of concrete structures. They are suitable for both planar and radius forming applications, which is not possible with wood or rigid plastic reveal strips. They release cleanly and easily. They produce crisp lines. Suitable for radius applications. They are reusable. Custom profiles available. 10 ft. standard lengths.



No.	Base	Top	Height
	1-1/4"	3/4"	3/4"
	1-3/8"	1"	3/4"
	2-1/8"	1-1/2"	3/4"

Other sizes available on request.



## PROPERTIES

	FORM LINER MATERIALS			
	SPS™ Plastic	ABS Plastic	Dura-Tex®	Elasto-Tex®
<b>Material Type</b>	polystyrene	acrylonitrile butadiene styrene	urethane elastomer	urethane elastomer
Impact resistance	low	medium	high	high
Thermal expansion	8 times that of plywood			
Temperature limits	All materials generally limited to 140° F maximum			
<b>Textures</b>				
Wood patterns	yes	yes	yes	yes
Rib patterns	yes	yes	yes	yes
Fractured patterns	yes	yes	yes	yes
Other patterns	yes	yes	yes	yes
Custom patterns	yes	yes	yes	yes
<b>Usage</b>				
Average reuseability	1 use	10 uses	40 uses	100 uses
<b>Support</b>				
Accessory products	yes	yes	yes	yes
Application Guides	yes	yes	yes	yes
Field service	yes	yes	yes	yes

This chart provides general guidelines for selecting the most appropriate form liner. Unusual applications or project conditions may require further recommendations from Masons. Follow all labeling instructions for maximum product performance and worker safety.

**Remember to specify these Masons form liners:**

**SPS™ Plastic** - An economical, one use form liner.

**ABS Plastic** - A thermoformed plastic form liner that provides good texture quality.

**Dura-Tex®** - Texture quality and reasonable cost in a medium reuse form liner.

**Elasto-Tex®** - A premium form liner that combines strength and resilience.

### Fractured Patterns


#### Fluted Fractured Fin (1 1/4" OC rib)

No.	Description	Size	Wt/Sht (lbs)
SY 30732	0.090 mil Styrene	4' x 10'	20.0
SY 30431	0.110 mil ABS	4' x 10'	24.8
SY 30658	Dura-Tex	4' x 10'	286.0
SY 30933	Elasto-Tex	4' x 10'	242.0



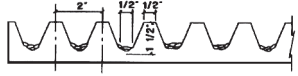
#### 3/4" Narrow Fractured Fin

No.	Description	Size	Wt/Sht (lbs)
SY 30603	Dura-Tex	4' x 10'	298.0
SY 30909	Elasto-Tex	4' x 10'	250.0



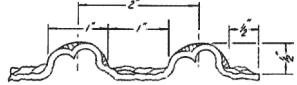
#### 1 1/2" Fractured Fin

No.	Description	Size	Wt/Sht (lbs)
SY 30666	Dura-Tex	4' x 10'	474.0
SY 30972	Elasto-Tex	4' x 10'	398.0



#### 2" Fractured Rope Rib

No.	Description	Size	Wt/Sht (lbs)
SY 30625	Dura-Tex	4' x 10'	498.0
SY 30929	Elasto-Tex	4' x 10'	402.0



#### Fractured Rope Rib (2" OC rope)


No.	Description	Size	Wt/Sht (lbs)
SY 30715	0.090 mil Styrene	4' x 10'	20.0
SY 30475	0.110 mil ABS	4' x 10'	24.8
SY 30612	Dura-Tex	4' x 10'	354.0
SY 30908	Elasto-Tex	4' x 10'	290.0



## Fractured Patterns (continued)

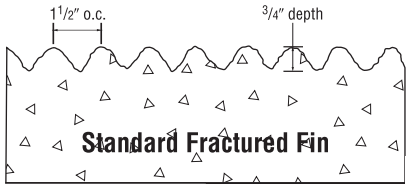
### Fine Stone Rib (2" OC rib)

No.	Description	Size	Wt/Sht (lbs)
SY 30716	0.090 mil Styrene	4' x 10'	20.0
SY 30448	0.110 mil ABS	4' x 10'	28.0



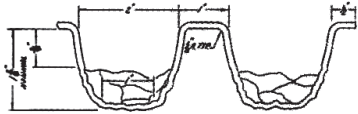
### 3/4" Fractured Fin (1 1/2" OC fin)

No.	Description	Size	Wt/Sht (lbs)
SCT 109SU	0.15 mil HIPS Plastic Single-Use	4' x 10'	20.0
SCT 109MU	0.15 mil ABS Multi-Use	4' x 10'	24.8
SCT 109	Elastomeric Rubber Form Liner Multi-Use	4' x 10'	306.0



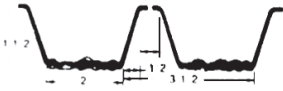
### 1 3/4" Fractured Fin (3" OC fin)

No.	Description	Size	Wt/Sht (lbs)
SY 30718	0.150 mil Styrene	4' x 10'	20.0
SY 30499	0.150 mil ABS	4' x 10'	34.0
SY 30609	Dura-Tex	4' x 10'	562.0
SY 30902	Elasto-Tex	4' x 10'	450.0



### 2" Broken Rock Rib (3-7/16" OC rib)

No.	Description	Size	Wt/Sht (lbs)
SY 30719	0.150 mil Styrene	4' x 10'	34.0
SY 30451	0.150 mil ABS	4' x 10'	34.0
SY 30619	Dura-Tex	4' x 10'	360.0
SY 30925	Elasto-Tex	4' x 10'	298.0

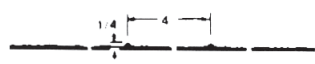


## FORM TREATMENT

### Wood Patterns


#### 4" Wide Aged Wood (actual 3½ width)

No.	Description	Size	Wt/Sht (lbs)
SY 30703	0.070 mil Styrene	4' x 10'	15.2
SY 30249	0.070 mil ABS	4' x 10'	16.0



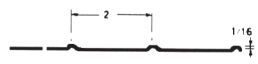
#### Random Grooved Barnwood

No.	Description	Size	Wt/Sht (lbs)
SY 30704	0.070 mil Styrene	4' x 10'	15.2
SY 30450	0.070 mil ABS	4' x 10'	16.0



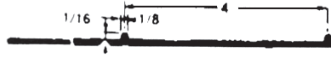
#### 2" Wide Aged Wood

No.	Description	Size	Wt/Sht (lbs)
SY 30705	0.070 mil Styrene	4' x 10'	15.2
SY 30479	0.070 mil ABS	4' x 10'	16.0




#### 4" Wide Aged Cedar

No.	Description	Size	Wt/Sht (lbs)
SY 30706	0.070 mil Styrene	4' x 10'	15.2
SY 30480	0.070 mil ABS	4' x 10'	16.0



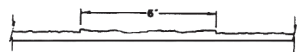
#### Rough Sawn Random Length Plank

No.	Description	Size	Wt/Sht (lbs)
SY 30707	0.070 mil Styrene	4' x 10'	15.2
SY 30481	0.070 mil ABS	4' x 10'	16.0



#### 6" Cedar


No.	Description	Size	Wt/Sht (lbs)
SY 30605	Dura-Tex	4' x 10'	206.0
SY 30483	Elasto-Tex	4' x 10'	178.0



## Wood Patterns (continued)


### Barnwood

No.	Description	Size	Wt/Sht (lbs)
SY 30613	Dura-Tex	4' x 10'	230.0
SY 30913	Elasto-Tex	4' x 10'	198.0




### Sandblast Tongue and Groove

No.	Description	Size	Wt/Sht (lbs)
SY 30614	Dura-Tex	4' x 10'	194.0
SY 30915	Elasto-Tex	4' x 10'	170.0




### 4" Variable Depth Rough

No.	Description	Size	Wt/Sht (lbs)
SY 30618	Dura-Tex	4' x 10'	246.0
SY 30921	Elasto-Tex	4' x 10'	210.0




### Extra Rough Sawn

No.	Description	Size	Wt/Sht (lbs)
SY 30610	Dura-Tex	4' x 10'	214.0
SY 30903	Elasto-Tex	4' x 10'	186.0



### 2" Cedar Stake

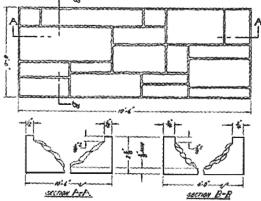
No.	Description	Size	Wt/Sht (lbs)
SY 30621	Dura-Tex	4' x 10'	238.0
SY 30924	Elasto-Tex	4' x 10'	202.0





## Stone Patterns

### Weathered Ashlar Stone

No.	Description	Size	Wt/Sht (lbs)	
SY 30664	Dura-Tex	4' x 10'-6"	624.0	
SY 30970	Elasto-Tex	4' x 10'-6"	500.0	

### Round Stone

No.	Description	Size	Wt/Sht (lbs)	
SY 30722	0.070 mil Styrene	4' x 10'	15.2	
SY 30251	0.070 mil ABS	4' x 10'	16.0	
SY 30668	Dura-Tex	4' x 10'	214.0	
SY 30974	Elasto-Tex	4' x 10'	186.0	

### Small Crushed Stone

No.	Description	Size	Wt/Sht (lbs)	
SY 30721	0.070 mil Styrene	4' x 10'	15.2	
SY 30250	0.070 mil ABS	4' x 10'	16.0	

### Phoenix Limestone

No.	Description	Size	Wt/Sht (lbs)	
SY 30601	Dura-Tex	4' x 10'	326.0	
SY 30923	Elasto-Tex	4' x 10'	270.0	

### Vertical Flagstone


No.	Description	Size	Wt/Sht (lbs)	
SY 30607	Dura-Tex	4' x 10'	262.0	
SY 30486	Elasto-Tex	4' x 10'	222.0	

## FORM TREATMENT

### Stone Patterns (continued)


#### Fractured Granite

No.	Description	Size	Wt/Sht (lbs)
SY 30611	Dura-Tex	4' x 10'	342.0
SY 30907	Elasto-Tex	4' x 10'	282.0



#### Stone Ground Fractured Granite


No.	Description	Size	Wt/Sht (lbs)
SY 30608	Dura-Tex	4' x 8'	238.0
SY 30488	Elasto-Tex	4' x 8'	202.0



### Smooth Flute Patterns


#### 1/4" Deep Rib (5/8" OC Rib)

No.	Description	Size	Wt/Sht (lbs)
SY 30708	0.070 mil Styrene	4' x 10'	15.2
SY 30472	0.070 mil ABS	4' x 10'	16.0




#### 1/2" Deep Rib (1-1/4" OC Rib)

No.	Description	Size	Wt/Sht (lbs)
SY 30709	0.090 mil Styrene	4' x 10'	20.0
SY 30244	0.110 mil ABS	4' x 10'	24.8
SY 30663	Dura-Tex	4' x 10'	306.0
SY 30969	Elasto-Tex	4' x 10'	252.0



#### 3/4" Deep Rib (1-1/2" OC Rib)

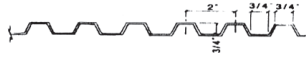
No.	Description	Size	Wt/Sht (lbs)
SY 30710	0.090 mil Styrene	4' x 10'	20.0
SY 30245	0.110 mil ABS	4' x 10'	24.8






## Smooth Flute Patterns (continued)

### 3/4" Deep Rib (2" OC rib)

No.	Description	Size	Wt/Sht (lbs)	
SY 30727	0.090 mil Styrene	4' x 10'	20.0	
SY 30460	0.110 mil ABS	4' x 10'	24.8	

### 1" Deep Rib (2 1/8" OC rib)

No.	Description	Size	Wt/Sht (lbs)	
SY 30714	0.090 mil Styrene	4' x 10'	20.0	
SY 30489	0.160 mil ABS	4' x 10'	24.8	

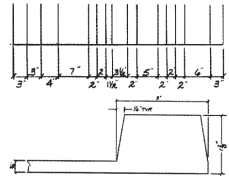
### 1/2" Rib (1 1/4" OC rib)

No.	Description	Size	Wt/Sht (lbs)	
SY 30709	0.090 mil Styrene	4' x 10'	20.0	
SY 30244	0.110 mil ABS	4' x 10'	24.8	
SY 30663	Dura-Tex	4' x 10'	306.0	
SY 30969	Elasto-Tex	4' x 10'	254.0	

### Other Patterns


#### Random Vertical Rustication

No.	Description	Size	Wt/Sht (lbs)
SY 30728	0.150 mil Styrene	4' x 10'	34.0
SY 30487	0.150 mil ABS	4' x 10'	34.0
SY 30622	Dura-Tex	4' x 9'10"	390.0
SY 30926	Elasto-Tex	4' x 9'10"	318.0



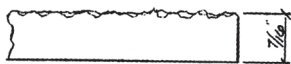
#### 3/8" Striated Random

No.	Description	Size	Wt/Sht (lbs)
SY 30726	0.070 mil Styrene	4' x 10'	15.2
SY 30493	0.070 mil ABS	4' x 10'	16.0



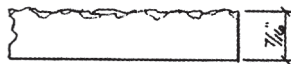
#### Sandblast - Fine to Medium

No.	Description	Size	Wt/Sht (lbs)
SY 30616	Dura-Tex	4' x 10'	214.0
SY 30917	Elasto-Tex	4' x 10'	186.0



#### Sandblast - Coarse

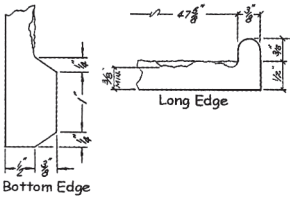
No.	Description	Size	Wt/Sht (lbs)
SY 30423	0.070 mil Styrene	4' x 10'	15.2
SY 30422	0.070 mil ABS	4' x 10'	16.0
SY 30617	Dura-Tex	4' x 10'	214.0
SY 30918	Elasto-Tex	4' x 10'	186.0



## Other Patterns (continued)

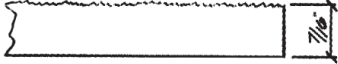
### Skip Trowel Stucco

No.	Description	Size	Wt/Sht (lbs)
SY 30623	Dura-Tex	4' x 10'	238.0
SY 30927	Elasto-Tex	4' x 10'	202.0



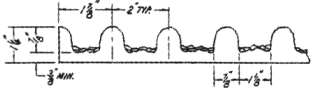
### Broom Swept

No.	Description	Size	Wt/Sht (lbs)
SY 30628	Dura-Tex	4' x 10'	214.0
SY 30932	Elast-Tex	4' x 10'	186.0



### Rolled Rib

No.	Description	Size	Wt/Sht (lbs)
SY 30667	Dura-Tex	4' x 10'	342.0
SY 30973	Elasto-Tex	4' x 10'	283.0



### Form Release Guide

Before application, forms need to be dry, clean and free of rust. Rust and dirt will transfer to the concrete surface. We often recommend treating new regular plywood with a lime water solution prior to its first use in forming. This solution will neutralize the naturally occurring wood sugars in the plywood.

Apply form releases only during dry weather. Apply with a low pressure spray using a wide angle, low flow, flat, fan type spray nozzle. Do not use a spray nozzle designed for curing compounds, it will over apply the material. All new wood forms require a heavy application of form release prior to their first use. This application should be heavy enough to saturate the wood forms. Multiple coats of form release are often necessary to accomplish this saturation, and we recommend waiting at least 5 to 6 hours between coats. On smooth, dense forms, i.e. steel or treated aluminum, the best performance will be achieved by spraying the form release followed by wiping down the forms with a clean soft cloth.

Do not over apply. Over application can result in surface dusting and the formation of bug holes. Bug holes are caused by the "curtaining" formed by the excess release retarding the vertical movement of the entrapped air as the concrete is consolidated; rather than rising, the entrapped air follows the line of the "curtaining" creating bug holes. Neutral releases will not cause as much buildup on forms nor will they cause dusting as the reactive release will in the event of over application.

**Avoid over spraying onto reinforcing steel; it may act as a bondbreaker on reinforcing steel.**

All form releases do not behave the same when exposed to weather. In heavy rains, for example, some light bodies form releases will wash off the forms. We recommend checking the form release you are using for its "body" or thickness.

Masons promotes 2 types of releases. **Reactive releases** that contain fatty acids that react with the alkali in the concrete to form a soap, a process known as saponification. The thin film of soap created allows the form to easily release from the concrete.

**Neutral releases** contain fatty acids that is partially neutralized. These are more forgiving than reactive should they be over applied.

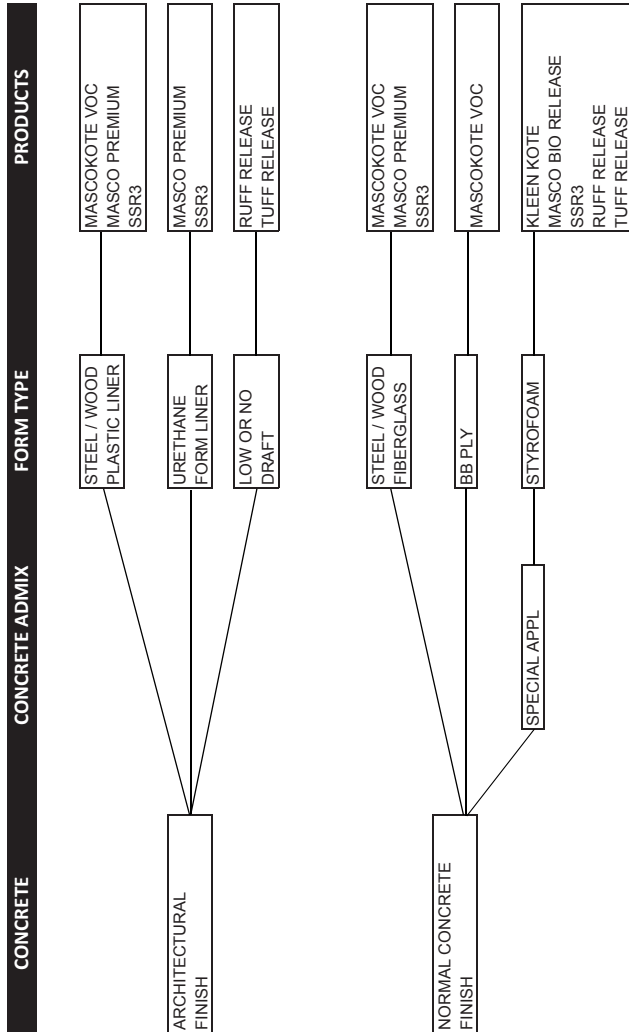
The following section has these 2 types of releases broken down into sections for your identification. Also included is a chart to show compatibility with your form surface. If you have any questions that are not covered in this section, call your nearest Masons Supply branch for more information.



FORM RELEASES											COMPATIBLE SURFACES										
CODE	PRODUCT	SIZE UNIT	APP RATE	RAIN RESIST	SUPER PLAST	MAX A FORM	STEEL PLY	DECK PLY	PLY LINER	URE LINER	TREAT ALUM	BB PLY	HDO PLY	MDO PLY	160 F RESIST	STEEL	MASON ITE	STYRO FOAM	APPR		
<b>PETROLEUM BASED</b>																					
MS 55GMKP	MASCOKOTE PREMIUM	5.55 GAL	1-3 MSF	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO			
MS 55GMK	MASCOKOTE VOC	5.55 GAL	1-3 MSF	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO			
ACC 5GRR	RUFF RELEASE	5 GAL		YES	YES	YES	YES		YES	YES	YES	YES	YES	YES		YES	NO	YES			
ACC 5GTR	TUFF RELEASE	5 GAL		YES	YES	YES	YES		YES	YES	YES	YES	YES	YES		YES	NO	YES			
<b>WATER BASED EMULSION</b>																					
MS 55GBR	MASCO BIO RELEASE	5.55 GAL	1-1.5 MSF	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	NO	YES	WSDOT		
PCS KK	KLEEN KOTE	1.5 GAL	1-2 MSF	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES	NO	YES			
ACC 5GSSR3	SSR 3	5 GAL	2-3 MSF	NO	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	NO	YES	NO	YES			

APPLICATIONS:  
RELEASE AGENTS FOR PORTLAND CEMENT  
MANY RELEASES FOR DIFFERENT FORMING SURFACES AVAILABLE

THIS CHART SHOULD BE CONSIDERED A GUIDE ONLY  
CONSULT SPECIFICATIONS SHEETS FOR COMPLETE TECHNICAL,  
INSTALLATION AND SURFACE PREP PROCEDURES



# FORM RELEASE



## FORM TREATMENT

### PETROLEUM BASED

#### Mascokote Premium

**Description:** A reactive form release with a mineral carrier that leaves an architectural or high visual impact concrete surface. Manufactured with virgin oil and organic chemicals which react with the concrete to prevent adhesion and provide a quick and easy release. Films rapidly on all form surfaces, not slippery, prevents accumulation of dust, and cannot be removed by normal rain showers. Will not break down with steam. Water insoluble, contains no kerosene, diesel, silicone or waxes to reduce effectiveness and damage formwork. It is a thin amber liquid that remains fluid at subfreezing temperatures and can be stored indefinitely. Produces architectural concrete by eliminating bug holes caused by thick form oils. Provides a quick, easy release without staining, discoloration, or pitting. Leaves no residue or cement dust on the concrete surface when properly

applied. Concrete is left with an architectural surface and ready for application of curing compounds, sealers, and coatings. When any material is to be applied on top of the concrete, follow the application instructions of the material manufacturer.

**Coverage:**

Steel, Plastic, Fiberglass: 2000 sq ft/gal  
Conditioned Aluminum: 2000 sq ft/gal  
HDO Plywood: 2000 sq ft/gal  
MDO Plywood: 1500 sq ft/gal  
Dimensional Lumber: 1000 sq ft/gal  
BB Grade Plywood: 1000 sq ft/gal

No.	Size
MS 5GMKP	5 gal. pail, 50 lbs., 24/pallet
MS 55GMKP	55 gal. drum, 550 lbs.

**Application:** Specially formulated for use on aluminum and steel forms, but also effective on plywood, composite forms, plastic and urethane formliners. Ideal for architectural precast.

**Applicable Standards:**

Corps of Engineers CEGS-03300, Section 10.8 Form Coating. Navy Dock and Piers 56359. V.O.C. Compliant.

#### Mascokote VOC

**Description:** A chemical active release agent in a mineral oil carrier for concrete forms which effectively prevents bonding of concrete to the form. For use in steel, plywood, and treated aluminum forms. Manufactured with virgin oil and organic chemicals which react with the concrete to prevent adhesion and provides a quick and easy release. This quick, easy release is provided without staining, discoloration or pitting and leaves no residue or cement dust on the concrete surface if properly applied. Concrete is left with an architectural surface ready for application of curing compound, sealer, bondable for plaster, mastics or paints when used in accordance with manufacturer's instructions.

**Application:** Forms should be free from dirt, hardened concrete and foreign matter. Release agent is ready to use direct from container. Can be applied with a sprayer, roller or brush at all working temperatures. Apply a thin film for maximum protection and economy. Spray areas uniformly. Over application creates dusting. Prior to coating plywood forms, apply one or two heavy coats to edges for waterproofing protection. When subsequent material is to be applied to the concrete, follow the application and preparation instructions of the material manufacturer.

**Applicable Standards:**

Corps of Engineers CEGS-03300, Section 10.8, Navy Dock, and Piers 56359, VOC Compliant.

**Coverage:**

Steel, Plastic, Fiberglass: 2000 sq ft/gal  
Conditioned Aluminum: 2000 sq ft/gal  
HDO Plywood: 2000 sq ft/gal  
MDO Plywood: 1500 sq ft/gal  
Dimensional Lumber: 1000 sq ft/gal  
BB Grade Plywood: 1000 sq ft/gal

No.	Size
MS 5GMK	5 gal. pail, 50 lbs., 24/pallet
MS 55GMK	55 gal. drum, 550 lbs.

### Ruff Release

**Description:** A unique thickened blue colored release agent primarily for low or no draft applications on rough, irregular or smooth surfaces. Ruff Release yields a smooth and easy release from all types of form surfaces.

**Application:** Apply Ruff Release to the most intricate and difficult form surfaces where release stresses may pose problems or wherever release issues are anticipated. Ruff Release works well in all applications and will not stain the surface on which it is used. May be used on all types of form surfaces including plastic, rubber or styrofoam. Apply a very thin coat with a rag, sponge or swivel type mop. Wipe off excess prior to casting.

No.	Size
ACC 5GRR	5 gal. pail, 50 lbs., 24/pallet

### Tuff Release

**Description:** Semi-Liquid, high viscosity release which ensures the highest quality architectural and structural surfaces. Will not stain the concrete or affect adhesion of waterproofing or other coatings. Designed for use with the most intricate molds and forms; especially with low or no draft applications and when using highly superplasticized (SCC) mixes. May be used on all types of formwork including plastic, rubber or styrofoam.

**Application:** Remove any oil or grease residues from the form surface left from previously used releases. Apply Tuff Release in a very thin coat by brush, roller or by spray using a High Volume Low Pressure spray gun or by jiffy mop with a swivel assembly. Wipe out excess oil with a slightly oil moistened mop or rag. Allow surface to dry prior to concrete placement.

No.	Size
ACC 5GTR	5 gal. pail, 50 lbs., 24/pallet

## WATER BASED EMULSION

### Kleen Kote

**Description:** A water based industrial release that is V.O.C. compliant. It helps prevent asphalt, concrete, dirt and other debris from sticking to treated equipment, forms, hand tools and trucks. Deposits a very thin film causing the surface to become virtually non-stick. Environmentally safe and does not contain any solvents or phosphates. Kleen Kote is water soluble. Non-Staining and Non-Dusting. Meets Army Corp. of Engineer Specs.

No.	Size
PCS KK1	1 gallon, 10 lbs., 4/case
PCS KK	5 gallon, 50 lbs., 24/pallet

**Application:** Can be used as a rust inhibitor. Safe for use on all surfaces. Will not rinse off in the normal rain once a day. Economical - Concentrate mixes easily with water. Concentrate form reduces your shipping costs. Using a clean spray container add Kleen Kote & water to achieve the recommended ratio for your application. Adding to water and then adding more water will eliminate need for mixing. May be applied at any time. Application surface should be clean prior to use. Remove all other release agents before applying. Spray on, then let change from white to clear before using. Reapply after every use.

**Concrete Forms:** Wood, aluminum, plastic etc. - make sure to clean or cast off as much of the old release as possible to eliminate any reaction between Kleen Kote and your old form release. Do NOT switch back and forth between Kleen Kote and other release agents. If forms are new, season them just as you would with oil. 11 to 1 for porous surfaces and 15 to 1 for non-porous surfaces.

**Coverage:**

1 gallon of Kleen Kote is required to cover approximately 1,000 to 2,000 ft<sup>2</sup>, depending on surface type. Spray on for best performance and ease of application.

# FORM RELEASE



## FORM TREATMENT

### Masco Bio Release

**Description:** Using the latest micro-emulsion technology, Masco Bio Release is an innovative, 100% natural, organic chemical release agent. Provides quick, easy release and leaves an architectural bondable concrete surface.

No.	Size
MS 5GBR	5 gal. pail, 50 lbs., 24/pallet
MS 55GBR	55 gal. drum, 550 lbs.

**Application:** Ideal for sensitive environmental situations such as bridge framework over rivers and streams or potable water reservoirs. Chemically releases concrete from plywood, steel, aluminum, polystyrene, and fiberglass forms and formliners. Prevents concrete build-up on all equipment. Cleans and reconditions forms. Helps eliminate build-up and bug holes.

**Applicable Standards:**  
Corps of Engineers CEGS-03300, Section 10.8 Form Coating. Navy Dock and Piers 56359. V.O.C. Compliant. 100% Biodegradable.

**Coverage:**

Steel, Aluminum, Plastic, High Density Plywood:  
1,000–1,500 ft<sup>2</sup>/gal.

Medium Density Plywood, Paper Column Forms:  
1,000–1,250 ft<sup>2</sup>/gal.

BB Grade Plywood:  
1,000 ft<sup>2</sup>/gal.

Rough Sawn Lumber, Straited Plywood:  
First use, 2 coats: 500 ft<sup>2</sup>/gal./coat  
Subsequent uses: 1,000 ft<sup>2</sup>/gal.

### SSR 3

**Description:** SSR3 (Synthetic Stone Release) is a ready to use, non-toxic, water-based stable emulsion with excellent release and surface consolidation properties. It is formulated to reduce surface imperfections in precast, prestressed and cast-in-place concrete. It works well on all types of form surfaces as well as rubber, plastic or urethane form liners. Promotes easy removal, provides a water repellent, rain resistant and rust inhibiting film to the formwork. It is suitable for both indoor and outdoor applications particularly where VOC emissions are limited in the workplace.

No.	Size
ACC 5GSSR3	5 gal. pail, 50 lbs., 24/pallet

**Application:** Applied as a release agent and surface consolidating agent on all types of formwork, including but not limited to wood, metals, polyester coated, plastic, rubber or urethane lined surfaces where a high quality release and void free surface are of the utmost importance. When the water is atomized by high-pressure spray application, SSR3 is ideal for automated wet cast production facilities when an airless spray bar is used to apply the release in-line. Suitable for all types of cements, white or gray, colored and non-colored as well. Consult data sheet for complete application instructions.

**Coverage:** 5 gallon pail yields 2,500 – 3,500 sq.ft./gal.

150

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M A S C O . N E T

# FORM RELEASE

## FORM TREATMENT

### FORM COATING

#### Form Seal

**Description:** Form seal is a pre-catalyzed polyurethane coating having outstanding abrasion, wear and chemical resistance. The film has a high degree of flexibility and works extremely well pre-treating wood and concrete formwork where medium re-use of up to 40 casts are expected. Form Seal can be used to seal all types of wood or concrete formwork.

No.	Size
ACC 5GFS	5 gal. pail, 50 lbs., 24/pallet

**Application:** Remove any grease or oils from the surface prior to use. Brush, roll or spray a thin coat of Form-Seal. If the surface to be coated is porous it is best to apply a dilute solution of 2-parts Form Seal and 1-part Xylene to assure better penetration. Apply a second or third coat to the surface while the first coat remains tacky to assure proper adhesion. If the first coat has dried prior to the application of subsequent coats lightly sand the surface to roughen it and create a better anchor profile for proper adhesion. **Note: When applying Form- Seal to concrete mix it is best to lightly sandblast or acid etch the surface prior to applying the coating. If acid etching is preferred, it is best to wait a minimum of 48 hours before proceeding with the Form Seal, allowing for thorough drying of the concrete substrate to be coated.**

**Specifications:**

**Specific Gravity:** 0.985

**Tensile Strength:** 3,500 psi

**Drying Time:** 2-1/2 hours

**Elongation:** 150%

**Impact Resistance:** 160 in-lbs

**Coverage:** 1 gallon yields 300-400 sq. ft. per coat. 2 coats recommended.

### SPRAYERS

## FORM TREATMENT

#### Power Sprayer

A full featured, easy-to-use power sprayer that can be positioned on top of any container you wish to dispense from. The sprayer is designed to replace the standard pump-up or gas-driven sprayers and will reduce the time needed for most spray-on applications, freeing labor for other tasks. The sprayer is available in either AC or DC power options that easily spray high solids and high viscosity products. It reduces contamination and spillage by dispensing products directly from their packaging. Simply insert the suction line, connect the battery clips (DC) or plug it in (AC), turn it on, and you are ready to spray. Shipped fully assembled. Durable all steel construction. Easy to use with 100' of 3/8" chemical resistant hose on a reel. Open flow quick connect fittings that allow for circulation, purging excess contents out of unit and easy cleaning. Chemical resistant diaphragm and seals in pump and reel. Circuit breaker that protects the operator and eliminates searching for replacement fuses. Includes a spray control gun, 1 straight and 1 curved 18" wand section, a 1 gal. per minute fan tip and an adjustable cone nozzle. Will not separate water based products as roller pumps can. Pressure sensitive switch stops pump when you stop spraying. Sprays 3,600 ft<sup>2</sup> in about 5 min. at approximately 75 psi. Large rubber feet for stability.

No.	Description	Wt (lbs)
PCS RP75AC	AC (9' cord)	44.0
PCS RP75DC	DC (25' cord)	44.0



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# 151

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# SPRAYERS

## FORM TREATMENT

### HAND SPRAYERS

Plastic hand sprayers are ideal for use in heavy duty applications and with materials that are corrosive to galvanized metal or stainless steel sprayers.

No.	Size	Wt (lbs)
TCP 2209	3 Gallon, Deluxe	7.0
TCP 1046	48 Fl. Oz.	0.9
TCP 27020	2 Gallon, Economy	3.5
TCP 2224	2 Gallon, Deluxe Acid	5.0

Epoxy coated hand sprayers are Tri-Poxy coated inside and epoxy coated outside. Recommended for curing and sealing compounds and form releases.

No.	Description	Wt (lbs)
TCP 1831	3 Gallons Standard	10.0
TCP 19049	3.5 Gallons High Chemical	11.75
TCP 1949	3.5 Gallons Deluxe	12.0

No.	Description	Wt (lbs)
<b>Repair Kits</b>		
TCP 4627	1831,1949 Repair Kits (Viton)	0.08
TCP 1945	2009 Repair Kits (Viton)	0.50
TCP 6-5378	Kit (seals & gaskets) that fit 19049 & 1949	0.78

No.	Description	Wt (lbs)
<b>Nozzles</b>		
TCP 5943	Fan Tip 1 gal/min (9510E) Heavy Viscous Liquids	0.25
TCP 5797	Fan Tip .5 gal/min (9505E) General Purpose	0.25
TCP 5916	Fan Tip .1 gal/min (8001) Light Oil Releases	0.25
TCP 5934	Fan Tip .2 gal/min (8002) Light Oil Releases	0.25
TCP 6000	Adjustable Spray Tip	0.25

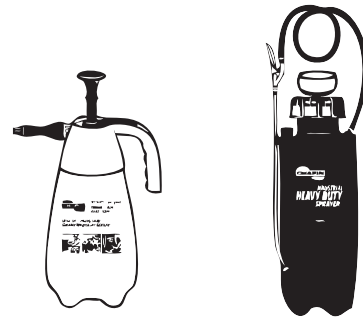
No.	Description	Wt (lbs)
<b>Hoses</b>		
TCP 6091	48" Reinforced Industrial Threaded Ends	0.50
TCP 6136	42" Braided Nylon with Clamps	0.75
TCP HOSE	48" Reinforced Industrial Threaded Ends	1.00

No.	Description	Wt (lbs)
<b>Shut Offs</b>		
TCP 1866	Zinc Attaches with Clamps	0.10
TCP 6062	Brass Threaded Ends	0.25

No.	Description	Wt (lbs)
<b>Wands</b>		
TCP 7703	24" Brass for Adjustable Spray Tip	0.60
TCP 7704	24" Brass for FanTips	0.80
TCP 7711	18" Brass for Adjustable Spray Tip	0.80
TCP 7712	36" Brass Straight Extension Male End	1.20

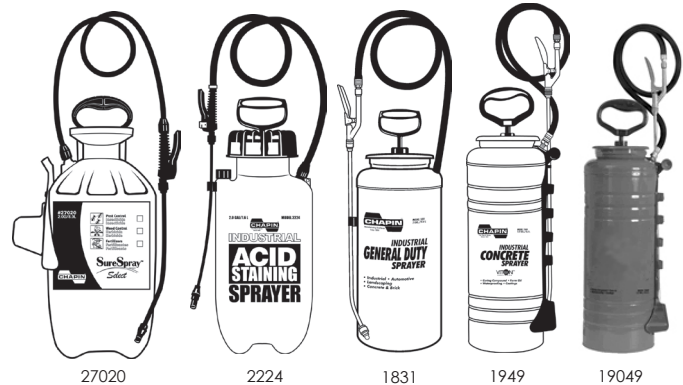
No.	Description	Wt (lbs)
<b>Gaskets</b>		
TCP 2531	Small Gasket for Brass Pump Barrel (Viton)	0.06
TCP 3659	Large Gasket Rubber for 1831, 1949 Lids (Viton)	1.00

No.	Description	Wt (lbs)
<b>Misc Parts</b>		
TCP 4645	Pressure Relief Valve for 2009	0.75
TCP 7019	Pump Barrel for 1831	1.00
TCP 7020	Pump Barrel for 1949	1.00
TCP 5580	D-Handle	1.00
TCP 2931	Pump Spring for Shaft	0.10
TCP 3322	Lock Nut for Lid	0.20
TCP 1853	Check valve for Pump Barrell (Viton)	0.10



1046

2209



27020

2224

1831

1949

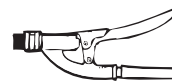
19049



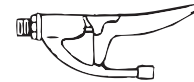
5797



6000



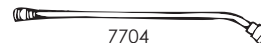
1866



6062



7703



7704



2531



3659



4645



1853



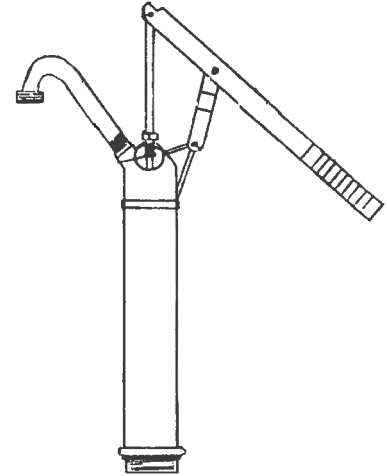
M A S C O . N E T

# DRUM SUPPLIES

## FORM TREATMENT

### Barrel Pump

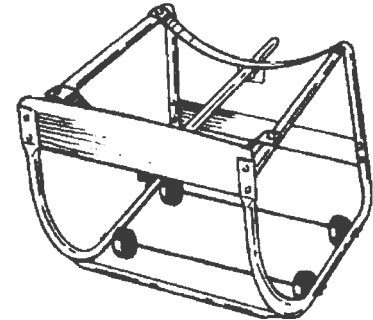
15-55 gallon hand rotary pump provides a practical means of dispensing non-corrosive liquids of light to medium viscosity, fuel and lubricating oils, gasoline and various other oils from barrel, drum and tanks. Use in industrial, commercial and agricultural applications.



No.	Wt (lbs)
TBU DP	5.00

### Cradle

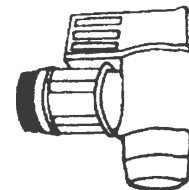
Welded drum cradle is designed for one person operation, featuring self-storing tipping handles and non-sparking die cast aluminum wheels. Handles 55 gallon drums with ease.



No.	Wt (lbs)
TBU DC	36.00

### Spigots

No.	Description	Wt (lbs)
TBU S34	3/4" Plastic	0.10
TBU S2	2" Plastic	0.90



# FORM RETARDERS



## FORM TREATMENT

### Altus

**Description:** High performance in-form retarder with excellent heat resistance. Altus is especially suited for insulated panels where moisture levels are critical. Available in different depths of etch. A test panel-simulating job conditions should be poured for proper grade selection.

**Application:** Thoroughly mix before application. Apply a single hiding coat of Altus retarder using a brush, roller, or airless sprayer at a rate of 250–300 sq.ft./gal.

**Coverage:** Approximately 250–300 sq.ft./gal.

No.	Color	Recommended Aggregate Size
ACC WALL25	Orange	Medium Sand Blast Texture 1/4"–3/8" Aggregate
ACC WALL50	Blue	Deep/Heavy Sand Blast Texture 3/8"–1/2" Aggregate
ACC WALL125	Green	Medium Aggregate Full Depth Exposure 1/2" Aggregate
ACC WALL250	Gray	X-Large Aggregate Full Exposure 3/4" + Aggregate
<b>Size:</b> 5 gal. pails, 50 lbs., 24/pallet		

### Precote WB

**Description:** An innovative water-based undercoat release for use with Altus Series In-Form retarders. Perfectly suited for architectural precast concrete of all types.

**Application:** Apply In-Form retarder Pre-Cote to the mold surface in a thin coat by brush or by roller at a rate of 400-500 sq.ft./gallon. Pre-Cote WB dries in 20-30 minutes depending upon the ambient temperatures and humidity. When dry proceed with the selected grade of Altus Series In-Form Retarder.

**Coverage:** Approx. 400 – 500 sq.ft./gal.

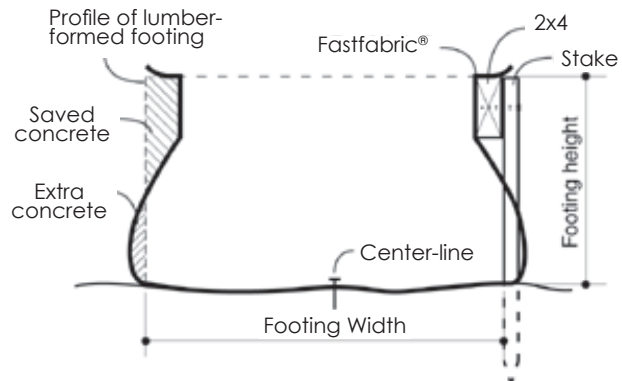
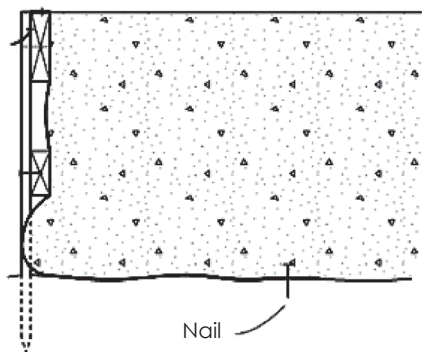
No.	Size
ACC 5GPCWB	5 gal. pails, 50 lbs., 24/pallet

## Fastfoot®

Fastfoot is a fabric footing form. Stakes are driven into the ground, 2x4 screed boards attached at the correct height, and Fastfoot is stapled to each 2x4 to form. Fast to install and less expensive than forming with lumber. Lightweight—120' of fabric weighs only 12.4 lbs. Adapts to uneven ground. Less concrete, no leakage. In summer, it prevents rapid desiccation of concrete. In winter, it prevents the contamination of concrete with mud and water. Stay-in-place form, no stripping of fabric. No concrete damage to 2x4s, stakes. No leaching of concrete contaminates into ground and water table. Can be used as a complete footing form, forming the sides and base of the footing. It can also be used as an edge form, forming the sides only.

No.	Name	Width	Full Footing		Edging	Wt (lbs)	Qty/Ctn
			Height	Width	Maximum edge height		
FF STD	Standard	62"	13"	24"	28"	13.0	4
FF WIDE	Wide	74"	13"	36"	34"	16.0	4
FF HF	Edge	37"	N/A	N/A	16"	8.0	16
Fabric Width Sizing Rule			Equals footing width + twice height + 12"		Equals twice height + 6"		

It is possible to form full footings deeper than those indicated in the table. For example, using the wide fabric, a 24" wide footing can be formed, up to 19" deep. Use the Fabric Width Sizing Rule in these situations. When using Fastfoot® for edging, the fabric is placed under the concrete to ensure no leakage occurs along the bottom edge.



# CURB & EDGE FORMS

## SLAB/HORIZONTAL

### Curb Forms

The Curb Forming System is a versatile product line that adapts to many different concrete forming conditions. It is ideally suited for applications that include sidewalks, driveways, curb and gutters, pavements, footing and industrial slabs.

This forming system features durable steel components, with added reinforcement, for maximum service life. These components are precision welded to provide a system that lasts far longer than conventional lumber edge forms.

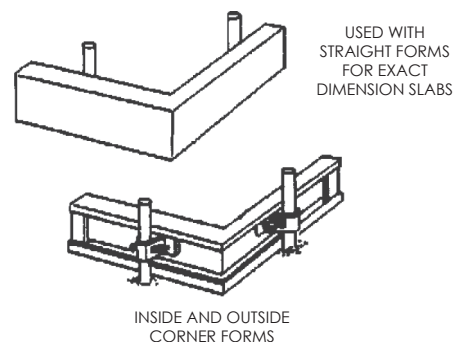
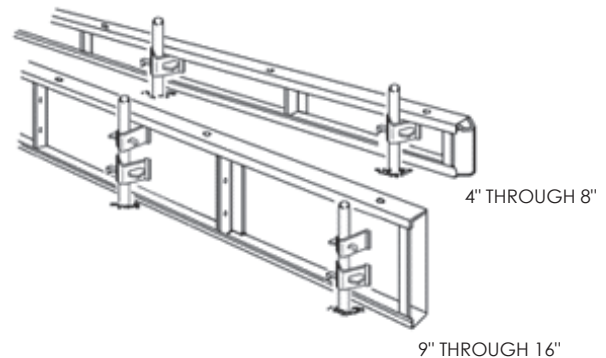
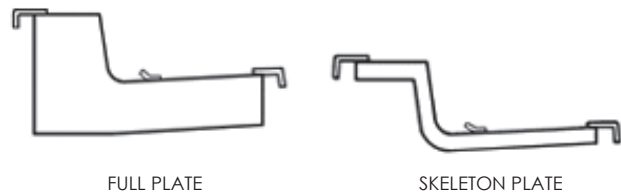
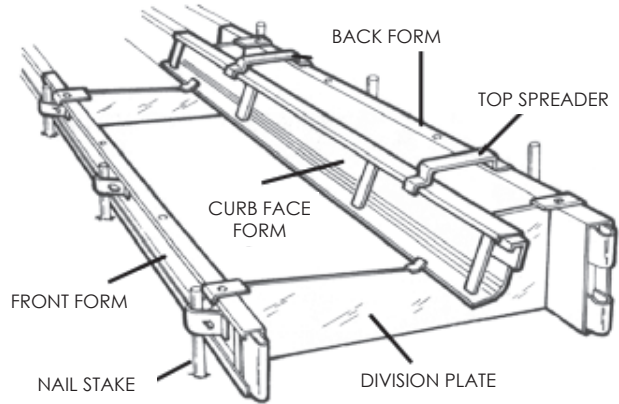
The productivity advantages of this forming system are obvious. The system adapts to different project conditions, reducing applied forming costs. A crew sets the system quickly and consistently, reducing related labor costs. The steel design eliminates lumber replacement costs, maximizing system reuse.

### Straight Forms

The Straight Form is available in 10' lengths, with heights ranging from 4", 6" and 12", to satisfy almost any straight edge forming condition. Each form has reinforced stake pockets on the back side that secure 3/4" steel stakes and support the form during concrete placement. The rounded nose and connection of one form quickly connects into the box of another form for accurate alignment.

Straight Forms are most often used as edge forms for concrete slabs. The bottom edge of the form rests on the subgrade or the stake pocket holds the form at the proper elevation. The top edge of the form provides a place for lightweight screed equipment used during concrete placement. Forms can even be stacked for thick concrete slabs.

Straight Forms are also used to form a variety of curb and gutter configurations. Curb dimensions establish the shape of the Division Plates needed. The Plates are then positioned over the Straight Forms to support the Curb Face Form. The final concrete finish is applied after the Curb Face Form and Division Plates are removed (before final set).





# CURB & EDGE FORMS

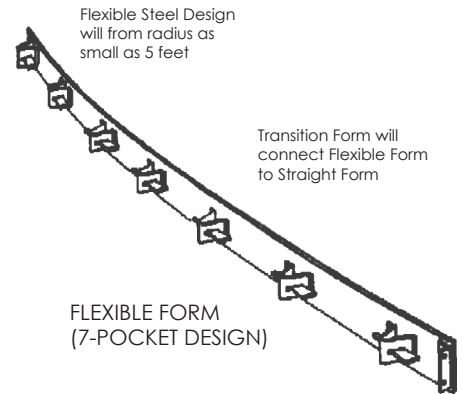
M A S C O . N E T

**SLAB/HORIZONTAL**

## Flexible Forms

The Flexible Form is available in 10' lengths with heights ranging from 4", 6" and 12", to satisfy almost any radius edge forming condition. Each form has seven reinforced stakes pockets on the back side that secure 3/4" steel stakes and support the form during concrete placement. A simple end connection only requires a keybolt and wedge (or a nut and bolt) to secure one form to another.

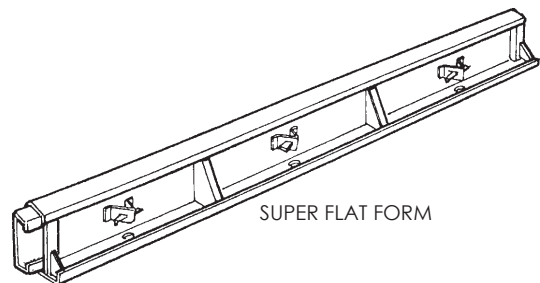
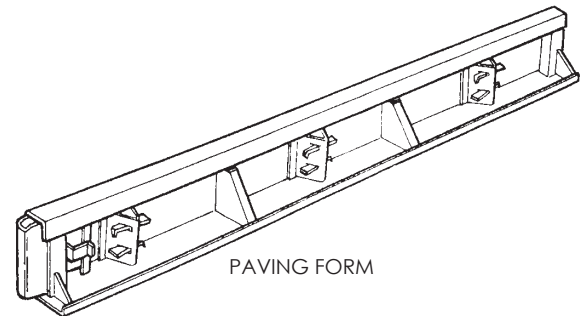
Flexible Forms complement Straight Forms when concrete must be placed in radius or curved applications. Transition Forms can be used to join the equipment and maximize forming system productivity.



## Special Forms

Other special forms are available to maximize productivity for unique forming conditions. Filler Forms are used to overlap Straight Forms and close edge openings up to 5'. Corner Forms are used with Straight Forms for precise dimension corner forming. Batter Plates are used with Straight Forms to create a partial or full batter curb design.

No.	Description	Wt (lbs)
DEE 410CSF	4" x 10' straight form, 3 pocket	39.0
DEE 610CSF	6" x 10' straight form, 3 pocket	47.0
DEE 1210CSF	12" x 10' straight form, 3 pocket	95.0
DEE 610CFF	6" x 10' J curb face form, 1" batter, 1" bottom radius,	40.0
DEE 512TS	5-1/2" top spreader	2.0
DEE 1218FDP	12" high x 18" wide division plate, 1" batter, 1" bottom radius	6.0
DEE 1218SDP	12" high x 18" wide skeleton division plate, 1" batter,	2.4
DEE 1224FDP	12" high x 24" wide division plate, 1" batter, 1" bottom radius	8.0
DEE 1224SDP	12" high x 24" wide skeleton division plate, 1" batter, 1" bottom radius	3.2
<b>Other sizes available.</b>		



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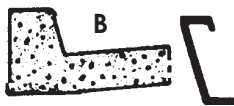
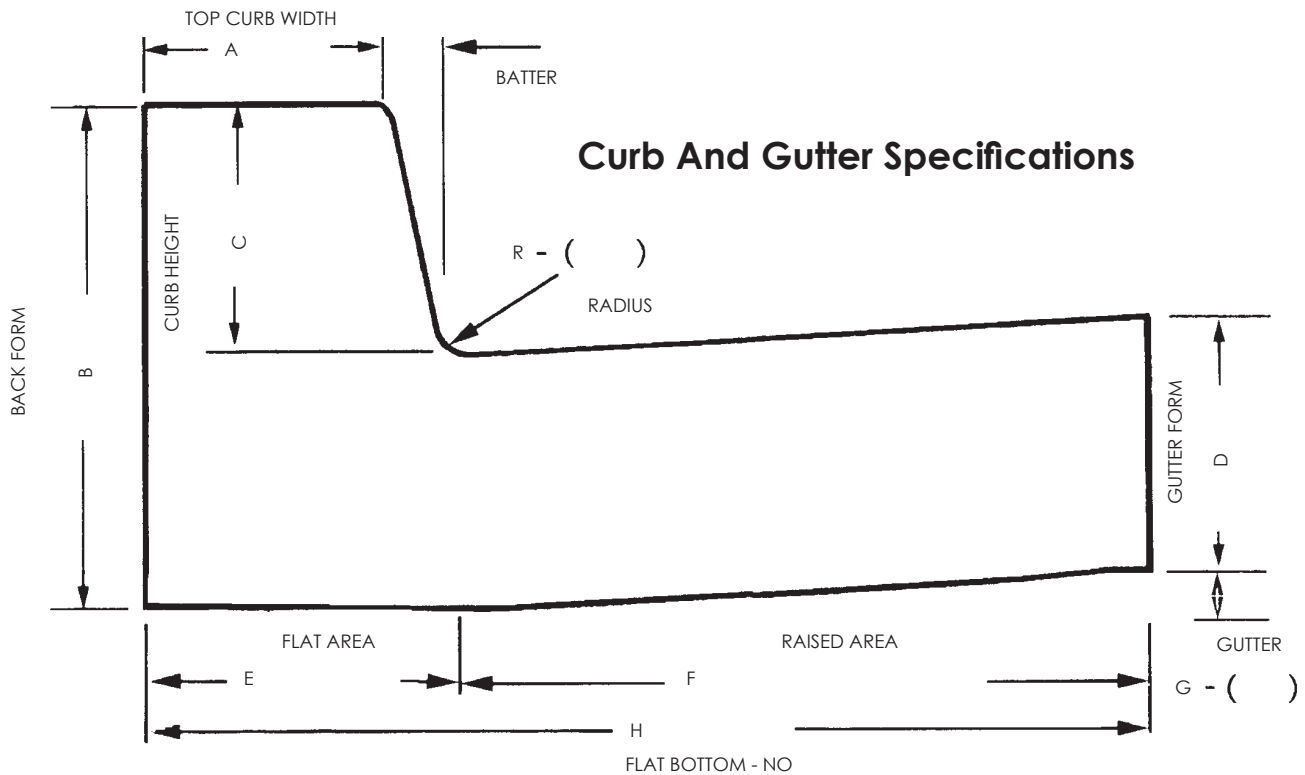
**157**

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# CURB & EDGE FORMS

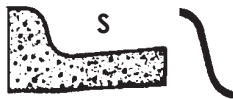
## SLAB/HORIZONTAL



BATTERED FACE



BATTERED FACE WITH SINGLE RADIUS



BATTERED FACE WITH DOUBLE RADIUS



ROLL-OVER



HIGH CURBS

**COPY AND COMPLETE ALL CURB AND GUTTER DIMENSIONS.  
FAX BACK TO NEAREST MASONS LOCATION.**

- Top Curb Width - Dimension A - inches \_\_\_\_\_
- Back Form - Dimension B - inches \_\_\_\_\_
- Curb Height - Dimension C - inches \_\_\_\_\_
- Gutter Form - Dimension D - inches \_\_\_\_\_
- Flat Area - Dimension E - inches \_\_\_\_\_
- Raised Area - Dimension F - inches \_\_\_\_\_
- Gutter Rise - Dimension G - inches \_\_\_\_\_
- Flat Bottom No Rise - Dimension H - inches \_\_\_\_\_
- Batter - Dimension I - inches \_\_\_\_\_
- Radius - Dimension R - inches \_\_\_\_\_





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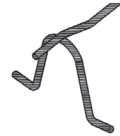
# BAR SUPPORTS

## SLAB/HORIZONTAL

### Bar Chair - Metal

Used for supporting wide spaced light steel in slab/deck construction. Stocked, or available, in 3/4", 1", 1-1/4", 1-1/2", and 1-3/4" heights. To order give height, and specify bright basic, plastic dipped, pre-galvanized wire, hot dipped galvanized, stainless steel wire or epoxy coated.

### BAR SUPPORT FINISHING TYPES



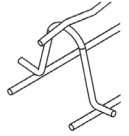
EPOXY COATED



PLASTIC DIPPED



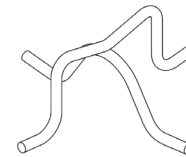
PLASTIC TIPPED



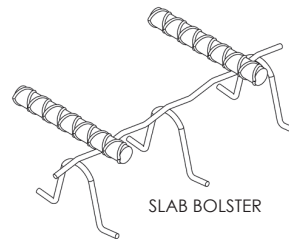
UPPER TYPE

No.	Size	Description/ Legs	Qty/Ctn	Wt/Ctn (lbs)
DS 34BCPD	3/4"	Plastic Dipped	500	25.0
DS 1BCPD	1"	Plastic Dipped	500	40.0
DS 114BCPD	1-1/4"	Plastic Dipped	500	40.0
DS 112BCPD	1-1/2"	Plastic Dipped	500	45.0
DS 134BCPD	1-3/4"	Plastic Dipped	500	50.0
DS 2BCPD	2"	Plastic Dipped	500	60.0
DS 214BCPD	2-1/4"	Plastic Dipped	100	20.0
DS 212BCPD	2-1/2"	Plastic Dipped	100	20.0
DS 234BCPD	2-3/4"	Plastic Dipped	100	20.0
DS 3BCPD	3"	Plastic Dipped	100	24.0
DS 314BCPD	3-1/4"	Plastic Dipped	100	24.0
DS 312BCPD	3-1/2"	Plastic Dipped	100	24.0
DS 334BCPD	3-3/4"	Plastic Dipped	100	24.0
DS 4BCPD	4"	Plastic Dipped	100	31.0
DS 414BCPD	4-1/4"	Plastic Dipped	100	31.0
DS 412BCPD	4-1/2"	Plastic Dipped	100	31.0
DS 434BCPD	4-3/4"	Plastic Dipped	100	31.0
DS 5BCPD	5"	Plastic Dipped	100	50.0
DS 514BCPD	5-1/4"	Plastic Dipped	100	50.0
DS 512BCPD	5-1/2"	Plastic Dipped	100	50.0
DS 534BCPD	5-3/4"	Plastic Dipped	100	50.0
DS 6BCPD	6"	Plastic Dipped	100	59.0

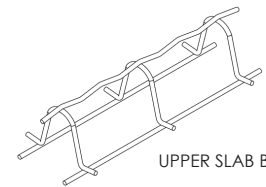
Other sizes available on request.



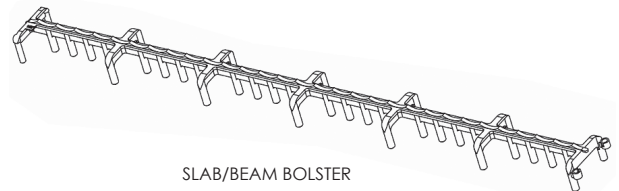
BAR CHAIR



SLAB BOLSTER



UPPER SLAB BOLSTER



SLAB/BEAM BOLSTER

### Slab Bolster - Metal

Is used for supporting lower slab steel from slab form. Corrugations are spaced 1/4" on centers and serve as guides for spacing bars. Legs are spaced 5" on center. Available in 3/4" to 3" heights. To order give height and specify bright basic, plastic tipped, pre-galvanized wire, hot dipped galvanized, stainless steel wire or epoxy coated. 5' and 10' lengths.

No.	Size	Description	Lf/Ctn	Wt/Ctn (lbs)
DS 34SBPT	3/4"	Plastic Dipped	250	25.0
DS 1SBPT	1"	Plastic Dipped	250	25.0

Other sizes available upon request.

### Upper Slab Bolster:

No.	Size	Description	Lf/Ctn	Wt/Ctn (lbs)
DS 34SBU	3/4"	Plain	100	35.0
DS 1SBU	1"	Plain	100	36.0
DS 112BSU	1-1/2"	Plain	100	40.0
DS 2SBU	2"	Plain	100	42.0

Other sizes available upon request.

### Slab Bolster - Plastic

An alternative to steel slab bolsters that provides sturdy support for heavier loads. The plastic used is non corrosive to give lasting strength and durability. Manufactured in 30' lengths. Heights: 3/4" to 3".

No.	Size	Lf/Ctn	Wt/Ctn (lbs)
AZ PSB075	3/4"	325	33.0
AZ PSB100	1"	275	27.0
AZ PSB150	1-1/2"	200	25.0
AZ PSB200	2"	150	22.0
AZ PSB250	2-1/2"	125	23.0

Other sizes available upon request.

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# BAR SUPPORTS

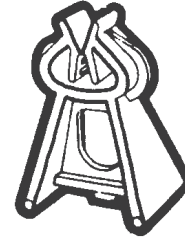


## SLAB/HORIZONTAL

### Barspan Clip

General purpose clip-on spacer accommodates larger range of bar diameters. Heavy duty designed easily supports extra loads.

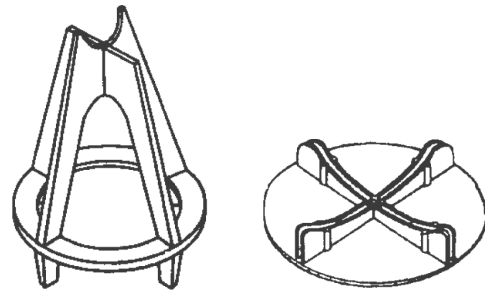
No.	Description	Size	Qty/Ctn	Wt/Ctn (lbs)
PK C16SN	Mesh thru #5	1"	3000	36.0
PK C20SN	Mesh thru #5	1½"	1000	23.0
PK C21SN	Mesh thru #6	2½"	500	23.0



### E-Z Chair

Used in tilt-ups, precast, conventionally reinforced poured-in-place decks and post-tensioned building construction. It offers superior strength and stability without the worries of rust and bleedmarks found with other methods of reinforcement support. Its cement color and small footprint is the perfect chair when aesthetics and concrete finish are important. Used on bar sizes up to #11 bar.

No.	Size	Qty/Ctn	Wt/Ctn (lbs)
AZ PEZ075	3/4"	1000	19.0
AZ PEZ100	1"	850	20.0
AZ PEZ125	1-1/4"	650	17.0
AZ PEZ150	1-1/2"	500	16.0
AZ PEZ200	2"	350	15.0
AZ PEZ250	2-1/2"	350	28.0
AZ PEZ300	3"	260	27.0
AZ PEZ350	3-1/2"	200	18.0
AZ PEZ375	3-3/4"	200	19.0
AZ PEZ400	4"	175	18.0
AZ PEZ450	4-1/2"	150	19.0
AZ PEZ475	4-3/4"	160	21.0
AZ PEZ500	5"	120	18.0
AZ PEZ525	5-1/4"	120	19.0
AZ PEZ550	5-1/2"	100	16.0
AZ PEZ575	5-3/4"	100	17.0
AZ PEZ600	6"	100	17.0
<b>Sand Plate</b>			
AZ PSP300	3/4"-2-3/4"	550	15.0
AZ PSP500	3"-5"	300	18.0
AZ PSP600	5-1/4" - 6"	250	17.0
<b>Other sizes available on request.</b>			



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# BAR SUPPORTS

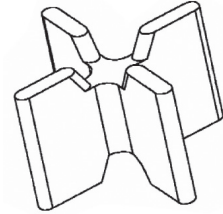
M A S C O . N E T

**SLAB/HORIZONTAL**

## X-Chair™ – PXC

Superior strength. Modest surface contact. Supports rebar and mesh. Applications include elevated slabs and precast. Accommodates rebar sizes from #3–#7.

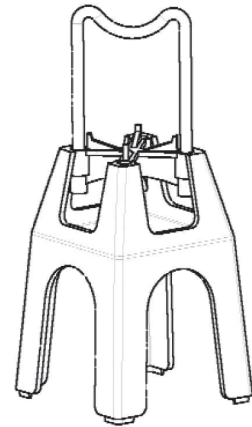
No.	Size	Qty/Ctn	Wt/Ctn (lbs)
AZ PXC050	1/2"	3,500	28
AZ PXC075	3/4"	2,200	25
AZ PXC100	1"	1,700	25
AZ PXC150	1-1/2"	1,500	38
AZ PXC200	2"	1,100	36



## Hy Chair™ (Hybrid)

A combination rebar support consisting of a high strength plastic base (Tower Chair) and a wire upper wicket insert. Supports loads up to 500 lbs. Straddles lower rebar mats up to 2-3/4". Pre-assembled prior to packaging. Plastic base insures minimal footprint. Eliminates corrosion on exposed surfaces.

No.	Size	Qty/Ctn	Wt/Ctn (lbs)
AZ PHC1025	10-1/4"	75	39.0
AZ PHC1050	10-1/2"	75	39.5
AZ PHC1075	10-3/4"	75	41.0
AZ PHC1100	11"	50	29.0
AZ PHC1125	11-1/4"	50	30.0
AZ PHC1150	11-1/2"	50	30.0
AZ PHC1175	11-3/4"	50	30.0
AZ PHC1200	12"	50	31.0
AZ PHC1250	12-1/2"	50	32.0
AZ PHC1300	13"	50	32.0
AZ PHC1325	13-1/4"	50	33.0
AZ PHC1350	13-1/2"	50	33.0
AZ PHC1375	13-3/4"	50	34.0
AZ PHC1400	14"	30	22.0

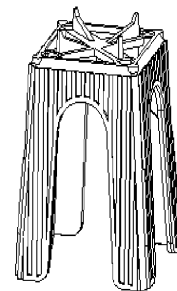


## Tower Chair™

A plastic rebar chair for single mat rebar or wire mesh. Minimal surface contact. Designed for maximum aggregate flow and concrete consolidation. Fits up to #8 rebar. Tower chair straddles upper rebar mat in double mat applications.

No.	Size	Qty/Ctn	Wt/Ctn (lbs)
AZ PTC600	6"	150	52
AZ PTC625/650*	6-1/4" – 6-1/2"	135	52
AZ PTC675/700*	6-3/4" – 7"	120	47
AZ PTC725/750*	7-1/4" – 7-1/2"	105	43
AZ PTC775	7-3/4"	90	38
AZ PTC800	8"	135	54
AZ PTC825/850*	8-1/4" – 8-1/2"	135	63
AZ PTC875/900*	8-3/4" – 9"	105	49
AZ PTC925/950*	9-1/4" – 9-1/2"	90	41
AZ PTC975/100*	9-3/4" – 10"	75	34

\* Denotes multiple height combinations per chair and comes pre-assembled.



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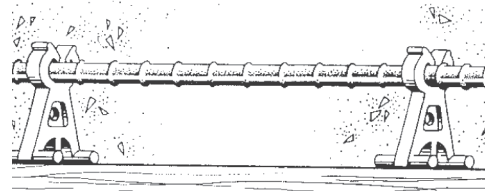
# BAR SUPPORTS

## SLAB/HORIZONTAL

### Preco Clip

For the positioning of horizontal reinforcement. Design allows for easy flow of concrete for maximum bond.

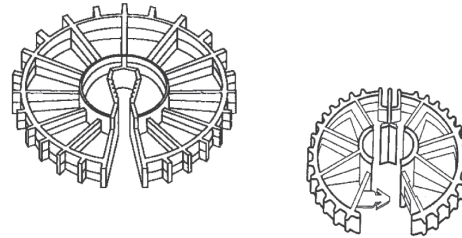
No.	Description	Size	Qty/Ctn	Wt/Ctn (lbs)
PK F	#3, 4,5 Bar	3/4"	4500	49.0
PK H	#4,5,6 Bar	1"	3000	37.0
PK J	#2,3 Bar	1 1/2"	2000	34.0
PK K	#4,5,6 Bar	1 1/2"	2500	47.0
PK M	#4,5,6 Bar	2"	1000	25.0



### Barspan Wheel

General purpose circular spacers accommodates larger range of bar diameters. Heavy duty design easily supports extra loads.

No.	Description	Coverage	Qty/Ctn	Wt/Ctn (lbs)
AZ PSW075/4	#2-4 Bar	3/4"	1150	19
AZ PSW100/6	#3-6 Bar	1"	500	26
AZ PSW150/6	#3-6 Bar	1-1/2"	300	14.0
AZ PSW200/6	#3-6 Bar	2"	350	24.0
AZ PSW300/6	#3-6 Bar	3"	350	18.0
<b>Snaplock</b>				
AZ PLW150/4HD	#3,4 Bar	1-1/2"	215	25
AZ PLW150/6HD	#5,6 Bar	1-1/2"	200	23.0
AZ PLW300/6HD	#5,6 Bar	3"	50	17.0



### Preco Wheel

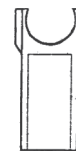
Suitable for spacing concrete reinforcement in columns, walls, piles and precast units.

No.	Description	Coverage	Qty/Ctn	Wt/Ctn (lbs)
PK W1534	#3, 4 Bar	1 1/2"	500	20.0
PK W2004	#3, 4 Bar	2"	500	20.0
PK W3004	#4 Bar	3"	250	20.0
PK W4005	#5 Bar	4"	100	10.0

### Dobie

A superior concrete spacer block for use in reinforced concrete construction. Made from high density/strength concrete, these dobies offer an equal coefficient to expansion and adhesion properties that eliminate cracking and corrosion.

No.	Size	Wt (lbs)	Qty/Pallet
CT 1D	1" w/wire	0.36	100 bag, 6,000
CT 112D	1 1/2" w/wire	0.55	100 bag, 5,760
CT 2D	2" w/wire	0.67	4,800
CT 212D	2 1/2" w/wire	1.40	2,160
CT 23COMBO	2" x 3" w/o wire	1.40	2,700
CT 3D	3" w/wire	2.00	2,160
CT 3DWO	3" w/o wire	2.00	1,350
CT 4D	4" W/Wire	3.0	972
B 428SG	2-1/4" x 3-5/8" x 7-1/2"	4.90	720



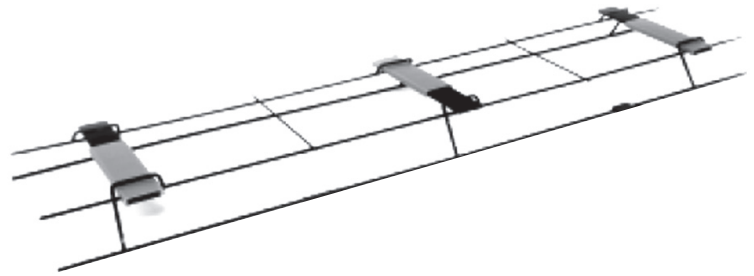
### Rebar Saddle

Rebar Saddles are made of high quality pvc plastic. They are designed to fit over the top of a piece of #4 rebar, and have another piece of #4 rebar snapped inside of its clip type opening.

No.	Qty/Box	Wt/Ctn (lbs)
CFA RS	3,000	27.0

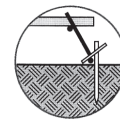
## Plate Dowel Basket

Our plate dowel systems are used in "Strategic Reinforcement" design that helps you achieve superior load transfer while optimizing the amount of steel in concrete slabs-on-ground. Our plate dowel baskets are a smarter, more efficient way to deliver the durable, maintenance-free floors your customers expect. Plate dowel basket assemblies allow you to optimize the amount of steel in a project, limit your liability by using the latest ACI 302.1R-04 guidelines, and deliver a cost-effective slab-on-ground. Reduces man hours for installation. Allows subgrade leveling after installation to prevent rutting. Construction tolerance allow for misalignment without causing restraint in the panels. Eliminates obstacles for the laser screed. Can be installed during pouring. Fully welded assemblies, offering stable dowel support during installation.



## Dowel Baskets

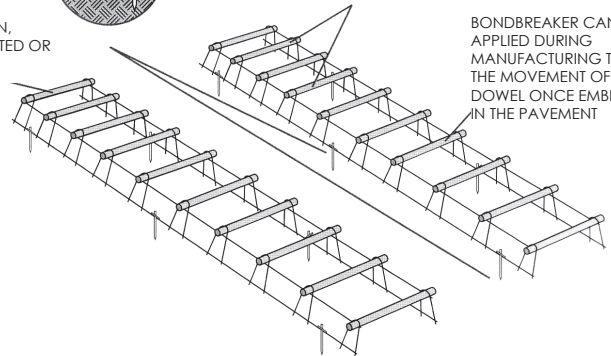
Wire suspension basket for poured in place Dowel Baskets. Dowels are supplied in basket, and can be supplied epoxy coated, painted, or plain. Use as an installation system for concrete slab dowels. Manufactured for fill-up, highway, and airport runway slabs. Provides a more accurate method of installing steel expansion and contraction joints. Dowels are more precisely centered in slab, making it easier for the contractor to adhere to stringent engineering specifications. Keeps the dowels from being installed at an angle, which will insure proper movement of the slab. Gives the contractor a huge labor savings, over conventional forming methods. Dramatically cuts slab construction time. Fabricated for 3/4", 1", 1-1/4" and 1-1/2" diameter dowels as required. To order specify type (expansion or contraction), dowel diameter centers, paving thickness and basket length. Made to meet federal, state, city and airport specifications.



DOWELS CAN BE PLAIN, PAINTED, EPOXY COATED OR STAINLESS STEEL

DOWEL BARS ARE ALTERNATELY WELDED TO ALLOW MOVEMENT WITHIN THE PAVEMENT

BONDBREAKER CAN BE APPLIED DURING MANUFACTURING TO AID THE MOVEMENT OF THE DOWEL ONCE EMBEDDED IN THE PAVEMENT



## WORKSHEET/ORDER INFORMATION

Pieces or lineal Feet	Slab or Lane Width	Dowel Diameter	Dowel Length	Finish	Dowel Centers	Dowels per Unit	Slab or Paving Thickness	Billable Length*

\* Billable Length = Number of Dowels x Center

# DOWELING

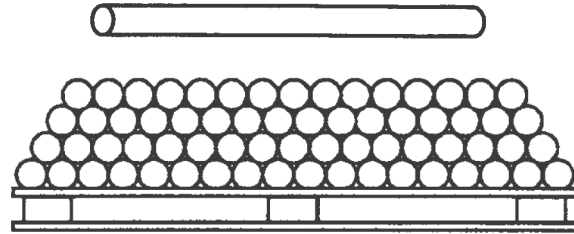


## SLAB/HORIZONTAL

### Loose Dowels

Available in 1/2", 5/8", 3/4", 1", 1-1/4" and 1-1/2" diameter. Any length available in plain, painted or epoxy coated. Stocked dowels meet ASTM A 36. Others specifications available on requests to meet federal, state, city and airport requirements.

No.	Size	Wt/Lf (lbs)
CT 12SD	1/2"	0.68
CT 58SD	5/8"	1.05
CT 34SD	3/4"	1.50
CT 1SD	1"	2.68
CT 114SD	1-1/4"	4.20
CT 112SD	1-1/2"	6.03



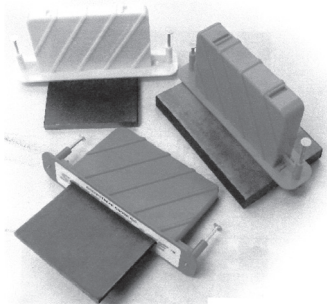
### TIE BARS

Available in #4, #5, and #6 reinforcing steel. Any length available in plain or epoxy coated.



### Speed Plate Doweling System

Speed Plate reduces the number of dowels required when compared with conventional doweling systems. This doweling system allows the installer to increase the center distance between dowels, further reducing labor and material costs. The larger steel plates provide greater overall surface area to reduce bearing stresses on concrete. Non-Tapered plate profile ensures consistent bearing stresses at joint face and full depth of dowel. The spacing charts below are conservative and are based on spacing recommendations in accordance with ACI 360-06.



*Engineered to provide optimal use of steel.*

*Integral, sleeve insert eliminates lateral restraint between concrete sections.*

*One-Piece Design with alignment marks and preinstalled nails makes installation quick and easy!*

*Ensures proper dowel alignment at a construction joint.*

#### Save Labor:

- No form drilling required
- No greasing, spinning, removing or replacing of dowels

No.	Slab Depth	Speed Plate Dimensions	Center-Center Spacing	Wt (lbs)
GS SP14	5" - 6"	1/4" thick x 4" wide x 6" long	18"	
GS SP38	7" - 8"	3/8" thick x 4" wide x 6" long	18"	
GS SP34	9" - 11"	3/4" thick x 4" wide x 6" long	20"	

Note: Values are based on maximum joint opening of 0.20"

## Dowel Caps

Dowel Caps are placed on smooth dowels before pouring concrete.

No.	Size	Wt (lbs)
<b>Metal Crimped</b>		
DS 60006	5/8" x 5"	0.09
DS 60002	3/4" x 5"	0.10
DS 60003	1" x 5"	0.135
DS 60004	1-1/8" x 5"	0.14
DS 60005	1-1/4" x 5"	0.147
<b>Plastic</b>		
DS 126DC	1/2" x 6"	0.07
DS 344DC	3/4" x 4"	0.24
DS 346DC	3/4" x 6"	0.32
DS 14DC	1" x 4"	0.38
DS 1144DC	1-1/4" x 4"	0.58



Crimped



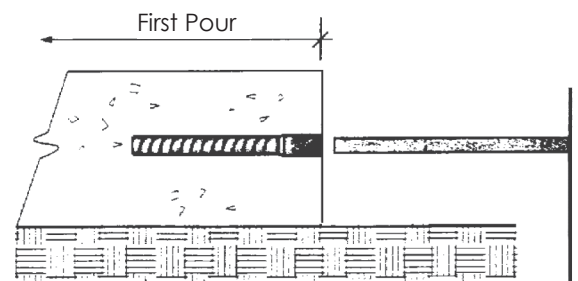
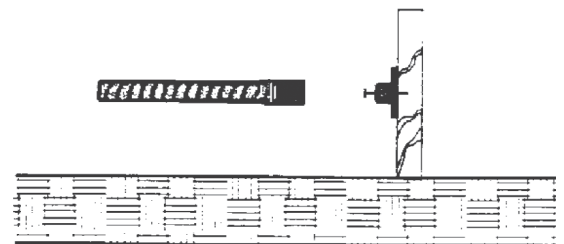
Plastic

## Speed Dowel®

Speed Dowel® all-plastic sleeves are designed for the purpose of assuring proper field positioning and alignment of steel dowels at concrete flatwork construction joints and expansion joints. Speed Dowel® places rigid polypropylene sleeves in perfect position perpendicular to the vertical joint edge and parallel to both the horizontal plane and to each other. The Speed Dowel® sleeve creates a cavity that will accept either smooth or deformed dowels and will prevent bonding to the initial concrete placement. The potential for cracking and spalling are reduced by allowing free shrinking and expansion of adjacent combating differential settlement.

No.	Description	Size	Wt (lbs)	Qty/Ctn
AZ PSD09/#4	#4 rebar & 5/8" smooth dowel	9"	.08	200
AZ PSD09/#5	#5 rebar & 3/4" smooth dowel	9"	.09	200
AZ PSD09/#7	#7 rebar & 1" smooth dowel	9"	.11	200
AZ PSD12/#4	#4 rebar & 5/8" smooth dowel	12"	.11	200
AZ PSD12/#5	#5 rebar & 3/4" smooth dowel	12"	.12	200
AZ PSD12/#6	#6 rebar & 7/8" smooth dowel	12"	.14	200
AZ PSD12/#7	#7 rebar & 1" smooth dowel	12"	.16	200

No.	Description	Wt (lbs)	Qty/Ctn
AZ PSD/#4B	Base for #4 rebar	.053	200
AZ PSD/#5B	Base for #5 rebar	.062	200
AZ PSD/#6B	Base for #6 rebar	.064	200
AZ PSD/#7B	Base for #7 rebar	.066	200



# EXPANSION JOINT



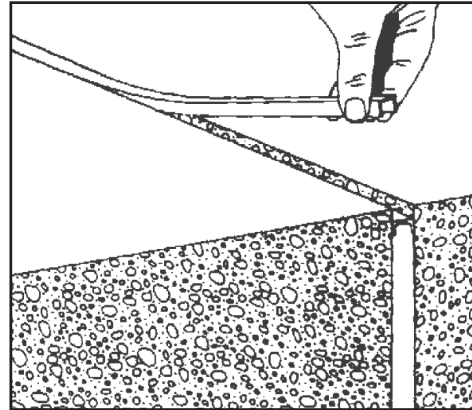
## SLAB/HORIZONTAL

### Fiber

A preformed, non-extruding resilient filler, saturated with high quality bituminous materials having preserving characteristics. The material is strong, but lightweight, cuts and handles easily, resists breakage. It will not extrude from the joint under normal compression and service temperatures and does not become brittle in cold weather. Useful in all types of concrete construction in both interior and exterior applications. 100 lf per bundle.

### Conforms to:

ASTM D 1751                      HHF- 341 F Type 1  
 AASHTO M 213                CRD C 508  
 FAA P-610-2.7



### Cut Sizes

No.	Size	Wt/Clf (lbs)
EX 382	3/8" x 2" x 10'	13.0
EX 122	1/2" x 2" x 10'	15.0
EX 383	3/8" x 3" x 10'	19.0
EX 123	1/2" x 3" x 10'	22.0
EX 38312	3/8" x 3-1/2" x 10'	22.0
EX 12312	1/2" x 3-1/2" x 10'	25.0
EX 384	3/8" x 4" x 10'	25.5
EX 124	1/2" x 4" x 10'	30.0
EX 38512	3/8" x 5-1/2" x 10'	38.0
EX 12512	1/2" x 5-1/2" x 10'	44.0
EX 386	3/8" x 6" x 10'	38.0
EX 126	1/2" x 6" x 10'	44.0

Other sizes available upon request.

### Removable Joint Cap

Eliminates joint cleanup, saving hours of labor. Eliminates the need for joint backer rod and most of the handwork normally spent forming expansion joints to be caulked and sealed in concrete slabs or any horizontal or vertical masonry. Manufactured with strong, high impact polystyrene (HIPS). The strip slides over the top of the expansion board just prior to concrete placement. The lower section of the cap is keyed in the concrete and the top section strips to create a reservoir for sealants. Easily cut with a hand or power saw. Easily stripped by inserting a screwdriver and pulling up. Provides sharp, clean professional grooving available in several sizes to accommodate most applications. 500 lf per carton.

No.	Size	Wt/Pc (lbs)
EX JC38	3/8" x 1/2"	0.42
EX JC12	1/2" x 1/2"	0.44
EX JC34	3/4" x 1/2"	0.65
EX JC1	1" x 1/2"	0.84

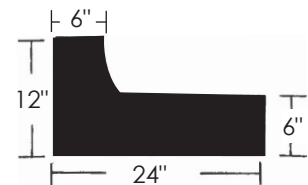
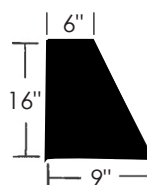
### Full Sheets

No.	Size	Wt (lbs)	Qty/Plt
EX 384'10	3/8" x 4' x 10'	38.0	100
EX 124'10	1/2" x 4' x 10'	50.0	80
EX 344'10	3/4" x 4' x 10'	75.0	50
EX 14'10	1" x 4' x 10'	100.0	40

### Curb Cuts

Curb and Gutter Sections are fabricated on special order. The two general types are shown here and supplied in fiber joint from sheet stock in 1/2" thickness.

No.	Size	Wt (lbs)
EX CC	6" x 9" x 16"	1.0
EX CG	6" x 12" x 24"	1.65







# EXPANSION JOINT

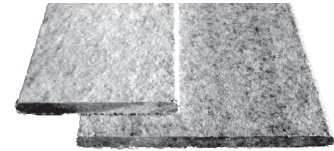
M A S C O . N E T

**SLAB/HORIZONTAL**

## Benderboard

Easily shapes decorative and curved walkways, patios, pools, and spas. Leaves a clean, smooth surface without pretreating. Reusable and has no product shrink during shipping, handling, or use, resulting in long-term cost savings. Easy to cut and form using standard wood working tools. 5/16" thickness bends into tight 1' radius curves or 2' diameter circles without cracking, splitting, or breaking. Flexible in any temperature and will not absorb moisture.

No.	Size	Pcs/Bndl	Wt/Lf (lbs)
CT BB1	5/16" x 3-7/16" x 16'	10	.54
CT BB2	5/8" x 3-7/16" x 16'	5	1.08
CT BB4	5/16" x 5-3/8" x 16'	5	.833

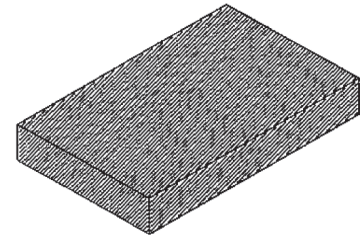


## Flexible Foam

Flexible Foam Expansion Joint Filler is composed of a unique synthetic foam of isomeric polymers in a very small, closed-cell structure. Gray in color, lightweight, flexible, highly resilient material offering recovery qualities of over 99%. The compact, closed-cell structure will absorb almost no water. Flexible Foam Expansion Joint Filler provides an excellent joint filler and back-up material for use in either horizontal or vertical applications where expansion and contraction movements must be accommodated. It is compatible with all currently popular cold-applied sealants, and hot-pour joint sealing compounds. It is lightweight and easy to cut or form in the field without waste.

### Conforms To:

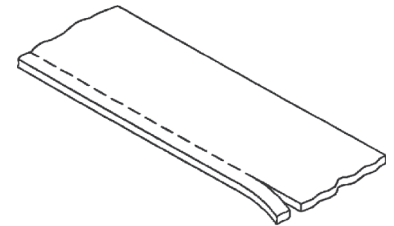
ASTM D5249 TYPE II, ASTM D1752 Section 5.1 through 5.4 with the compression requirement modified to 10psi minimum and 25 psi maximum.



No.	Size	Wt (lbs)
WR 124' 10C	1/2" x 4' x 10'	2.4
<b>Other sizes available upon request.</b>		

## Foam Joint Filler

Foam Expansion Joint Filler is a tough, flexible, lightweight filler with a long life expectancy. It is designed to replace brittle asphalt impregnated fillers. It provides a convenient removable portion that ensures a uniform sealable void in the joint. Prior to sealing or caulking, the removable strip can be easily extracted leaving a trim clean joint. Can be used in pool decks, bridge construction, concrete gutters, suspended walkways, concrete forms, etc.



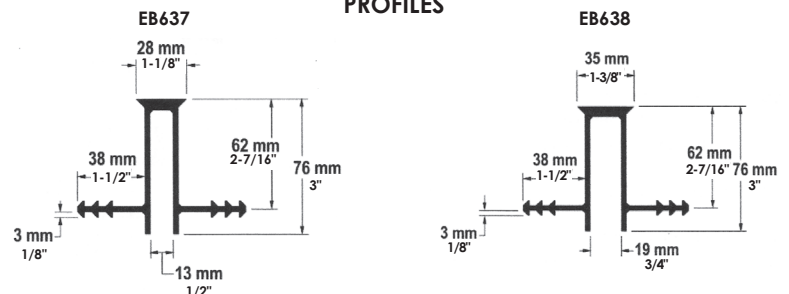
No.	Size	Wt (lbs)
WR 12350DF	1/2" x 3" x 50'	1.40
WR 12450DF	1/2" x 4" x 50'	1.50

## TPER Expansion Board Cap Seal

A one step complete concrete joint system with a simple installation. This EB Cap System integrates the waterstop, forming system, expansion board, joint seal and load transfer units into a single structure. Just stake down the board, set your screed elevation and that's it. No stripping forms and no messy sealants. Lower labor and installation costs.

No.	Size	Wt/Ctn (lbs)
GS EB637	1/2" x 3"	
GS EB638	3/4" x 3"	

### STANDARD EB CAP PROFILES



**MASONS SUPPLY COMPANY**

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# EXPANSION JOINT

## SLAB/HORIZONTAL

### Reflex®

Reflex® Rubber Joint Expansion Joint material for concrete is a processed board product formed by blending granular rubber derived from discarded tires and various low density polymer components. Premolded under heat and pressure, it is more durable than current alternatives. Suitable for use as expansion or control joint in a wide variety of concrete construction projects such as roadways, airport runways, sidewalks, driveways, flooring, parking lots, patios and curbs.

#### Conforms to:

ASTM D-1751-97 and ASTM D-1752-84  
AASHTO M-153-98 and AASHTO M-213-95  
HH-F-341F TYPE I

No.	Size	Lf/Bndl	Wt/Bndl (lbs)
EX 123R	1/2" x 3"	64	28.0
EX 12312R	1/2" x 3-1/2"	56	28.0
EX 124R	1/2" x 4"	48	28.0
EX 126R	1/2" x 6"	32	28.0
EX 142R	1/4" x 2"	288	41.0

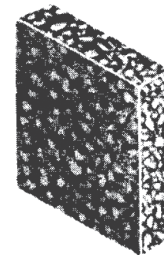
### Self Expanding Cork

Molded of selected cork granules and resin binders then specifically treated to permit expansion of as much as 50% of original thickness. The material is non-extruding and used where excessive contraction is anticipated. Because of its mechanical sealing properties, it is particularly suited for joints in liquid-containing structures, (in conjunction with waterstops and/or sealants) or for preventing intrusion of foreign matter into overly contracted joints. Elastomeric, chemically-cured sealants are recommended for use with this product. Weight at 1/2" thickness is 1.2 lbs per sf.

#### Conforms to:

ASTM D 1752 Type III  
HHF 341F Type II, Class C  
FAA P610-2.7

AASHTO M 153 Type III  
CRDC 509 Type III



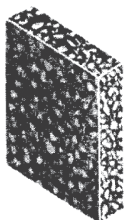
### Cork

Preformed from selected cork particles and bonded together with an insoluble resin. This joint filler is resistant to acids and alkalis, is flexible, waterproof and light in color. It will not extrude when compressed to 50% of its original thickness and will recover to approximately 95% when released. Cork expansion joint is compatible with elastomeric, chemically cured sealant. Applications include water and sewage treatment plants, flood walls, outlet works, spillways and industrial construction. Weight at 1/2" thickness is .75 lbs per sf.

#### Conforms to:

ASTM D 1752, Type II  
HHF 341F, Type II, Class B  
AASHTO M 153 Type II

CRD C509, Type II  
FAA P610-2.7



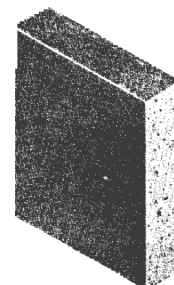
### Sponge Rubber

Neoprene sponge rubber is resilient and compressible. It will compress without extruding and recover to 90% of its original thickness. It is compatible with all chemically-cured elastomeric sealants and can be used as an alternate to cork (meets all test requirements). Ideal for use in water and sewage treatment plants, flood walls, outlet works, spillways, bridges, commercial and industrial construction. Weight at 1/2" thickness is 1.36 lbs per sf.

#### Conforms to:

FAA P610-2.7  
HHF 341F Type II, Class A

ASTM D 1752 Type I  
CRD-C 509 Type I  
AASHTO M 153 Type I

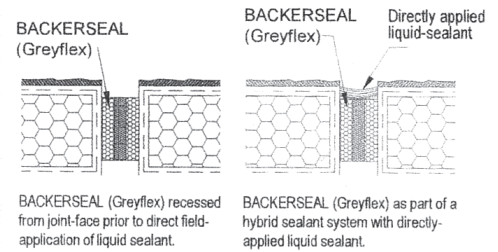


## VERTICAL JOINTS

### Backerseal™ (Greyflex™)

**Uses: Walls, Doors, Windows, Panels, Control Joints, etc.**

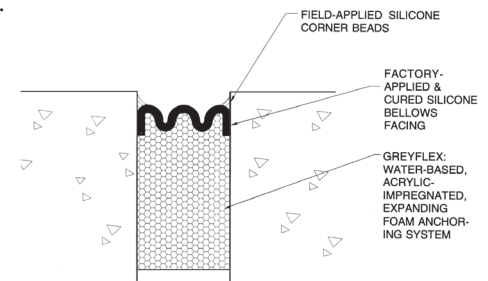
An economical, high performance expanding foam secondary sealant to field-applied liquid sealant. It is ideally suited to EIFS, as well as concrete, brick, stone etc. Consists of acrylic-impregnated open-cell foam material combined with laminations of closed-cell EVA foam in sizes over 3/8". Non-staining and compatible with a wide range of liquid sealants. Puncture or failure of primary liquid sealant does not affect sealant system performance. It is supplied pre-compressed to smaller than joint size with a mounting adhesive on one face. Material is inserted into joint and adhered to one side. It then expands to seal the joint. Sealing between the foam and substrate is achieved through a combination of the pressure-sensitive adhesive impregnation and the back pressure of the expanding foam. R-value of 3.28/inch of depth adds thermal insulation to joint gaps. Standard sizes from 1/8" to 10". Movement capability is +25% (50% total) of nominal material size.



### Seismic Colorseal™

**Uses: High-movement Curtainwall, New-To-Existing, Skywalks, Seismic, Masonry, Metal Panels, etc.**

Ideally suited to EIFS, curtainwall and metal cladding systems, as well as concrete, brick and stone. It combines factory-applied and cured silicone facing with permanently elastic acrylic-impregnated open-cell foam sealant backing. Back pressure maintains seal and ensures that silicone is virtually never under tension. Supplied in shrink wrapped lengths (sticks). Pre-compressed to smaller than joint size with a mounting adhesive on one face, material is inserted into joint and adhered to one side. It then expands to seal the joint. Addition in the field of a silicone corner bead ensures sealing between the silicone facing and substrate. Non-invasive anchoring, eliminates drilling into substrates typical of strip-seal systems. Easily installed into inside-corner conditions impossible to seal with rubber-and-rail type strip-seal systems. R-value of 3.28/inch of depth adds thermal insulation to joint gaps. Standard sizes from 3/8" to 10". Sizes up to 3/4" have single convex facing. Movement capability is +50%, -50% (100% total) of nominal material size. **Available in 11 standard colors.** Precast White, Natural Stone, Gray, Black, Bronze, Sandstone Adobe Tan, Dusty Rose, Rustic Brick, Blue Spruce, Charcoal.

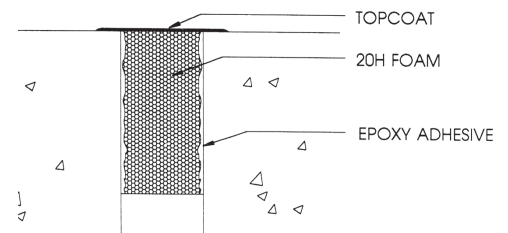


## HORIZONTAL JOINTS

### 20H System™

**Uses: Intermediate level decks, joints, perimeter joints, sidewalks, aprons, joints at utility rooms, parapets, below-grade foundation wall joints, icefloors, etc.**

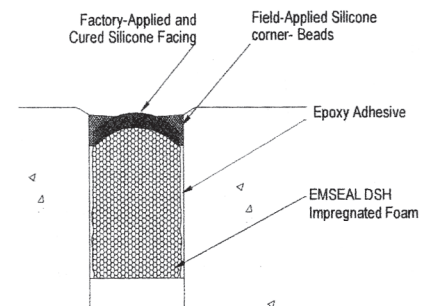
The 20H System™ is an economical, resilient, and traffic-durable seal. It consists of 20H foam, epoxy adhesive & topcoat. Permanently elastic, high density, open-cell polyurethane foam, impregnated with water-based, polymer-modified asphalt, compressed to approximately 20% of its uncompressed dimension. Supplied pre-compressed to smaller than mean joint size, installed flush with or near to surface into wet epoxy adhesive, the material expands to seal the joint. Exposed top surface is treated with Topcoat flexible coating to enhance sealing and durability. Movement capability is +25%, -25% (50% total) nominal material size. Standard sizes from 1/2" to 4".



### DSH System™

**Uses: Traffic-durable seal for a variety of deck and slab applications.**

Permanently elastic, high density, open-cell polyurethane foam, impregnated with water-based, polymer-modified asphalt, compressed to approximately 20% of its uncompressed dimension. The high-density foam backing is coated with a factory-applied, controlled, and cured coating of traffic-grade silicone. The silicone provides weathering, waterproofing, and fuel resistance as well as aesthetic and movement advantages over the precursor, 20H. System consists of DSH foam, epoxy adhesive and liquid silicone for corner beads. Supplied pre-compressed to smaller than mean joint size; installed near to surface into wet epoxy adhesive. Standard sizes from 1/2" to 6". Movement capability is +25%, -25% (50% total) nominal material size.



# NAILS

## SLAB/HORIZONTAL

### Box

For wooden boxes and crating and also used in building and construction trade. 50 lbs per carton.

No.	Size
NA 6DBN	6D (2")
NA 8DBN	8D (2-1/2")
NA 16DBN	16D (3-1/2")



### Duplex

Designed for securing temporary construction such as scaffolding and concrete forms. The double head allows easy withdrawal. 50 lbs per carton.

No.	Size
NA 6DS	6D (2")
NA 8DS	8D (2-1/2")
NA 16DS	16D (3-1/2")



### Blued Lath

Blued finish, smooth shank, flat head, long diamond point. Good for attaching wood chamfer. 50 lbs per carton.

No.	Size
NA 3DBLN	3D (1")



### Concrete

The most economical nails for attaching wood to mortar joints, porous or uncured concrete. 50 lbs per carton.

No.	Size
NA 12C	1/2"
NA 34C	3/4"
NA 1C	1"
NA 112C	1-1/2"
NA 2C	2"
NA 212C	2-1/2"



### Vinyl Coated Sinker

Smooth shank, flat countersunk checkered head, diamond point. 50 lbs per carton.

No.	Size
NA 6DVC	6D (2")
NA 8DVC	8D (2-1/2")
NA 16DVC	16D (3-1/2")

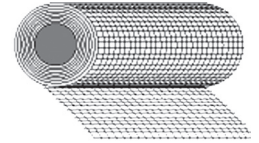




M A S C O . N E T

# REINFORCING

## SLAB/HORIZONTAL



### Mesh

Produced of heavy gauge 6" x 6" square mesh. Provides effective reinforcement for concrete floors, walks, water tanks and pools. 10 gauge wire. Meets ASTM A-185 specifications.

No.	Spacing	Gauge	New Wire Size	Width/Length	Sheets Per Sub	Sheets/ Bundle	SQ FT	Wt (lbs)
<b>Rolls</b>								
W REINF5	6 x 6	10/10	1.4	5' x 150'	-	-	750/Roll	154.00/Roll
W REINF7.5	6 x 6	10/10	1.4	7.5' x 200'	-	-	1,500/Roll	315.00/Roll
<b>Sheets</b>								
W REINFMAT	6 x 6	10/10	1.4	4' x 7'	25	100	28/Sheet	5.88/Sheet
W REINFMAT20	6 x 6	10/10	1.4	7.5' x 20'	25	100	150/Sheet	31.50/Sheet

### Rebar

Reinforcing Steel is available in straight 20' lengths.

No.	Grade	Size
CT 3R	60	3/8" x 20'
CT 4R	60	1/2" x 20'
CT 4R4	40	1/2" x 20'
CT 5R	60	5/8" x 20'
CT 6R	60	3/4" x 20'
Cut lengths are available on request.		



Size	Diameter	Gage
W 1.4	.134"	10 Gage
W 1.7	.147"	9 Gage
W 2.1	.164"	8 Gage
W 2.5	.178"	7 Gage
W 2.9	.192"	6 Gage
W 4.0	.226"	4 Gage
W 5.4	.262"	2 Gage
W 6.2	.281"	1 Gage

MECHANICAL REQUIREMENTS FOR STANDARD ASTM DEFORMED REINFORCING BARS				
Type of Steel and ASTM Designation	Bar Nos. Range	Grade <sup>1</sup>	Minimum <sup>2</sup> Yield Strength, psi	Minimum Tensile Strength, psi
Billet-Steel A615	3-6	40	40,000	70,000
	3-11, 14, 18	60	60,000	90,000
	6-11, 14, 18	75	75,000	100,000
Low-Alloy Steel A706	3-11, 14, 18	60	60,000 <sup>4</sup>	80,000 <sup>5</sup>

ASTM STANDARD REINFORCING BARS				
BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS - ROUND SECTIONS		
		DIAMETER INCHES	CROSS SECTIONAL AREA-SQ. INCHES	PERIMETER INCHES
#3	0.376	0.375	0.11	1.178
#4	0.668	0.500	0.20	1.571
#5	1.043	0.625	0.31	1.963
#6	1.502	0.750	0.44	2.356
#7	2.044	0.875	0.60	2.749
#8	2.670	1.000	0.79	3.142
#9	3.400	1.128	1.00	3.544
#10	4.303	1.270	1.27	3.99
#11	5.313	1.410	1.56	4.43
#14	7.650	1.693	2.25	5.32
#18	13.600	2.257	4.00	7.09

<sup>1</sup> Minimum yield designation (KSI).

<sup>2</sup> Yield point or yield strength. See ASTM specifications.

<sup>4</sup> Maximum yield strength 78,000 psi (ASTM A706 only).

<sup>5</sup> Tensile Strength shall not be less than 1.25 times the actual yield strength. (ASTM A706 only).

**MASONS SUPPLY COMPANY**

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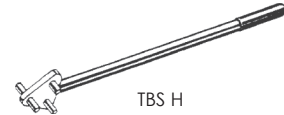
# REINFORCING

## SLAB/HORIZONTAL

### Hickey Bar

Light weight rebar hickies have durable steel-alloy heads and extra strong handles.

No.	Description	Bends Rebar	Length	Wt (lbs)	
TBS H	3 Prong Hickey Bar	3, 4 & 5	36"	7.00	
No.	Hickey Size	Bends Rebar Size	Head Type & Bend Angle	Length	Wt (lbs)
TKL 64308	1	No. 3,4	Single 65	24"	3.00
TKL 64309	1α	No. 3,4	Dbl. 65 & 90	24"	4.00
TKL 64310	2	No. 5	Single 65	40"	8.00
TKL 64311	3	No. 6	Single 65	40"	9.00
TKL 64312	4	No. 7-9	Single 65	60"	16.50



TBS H

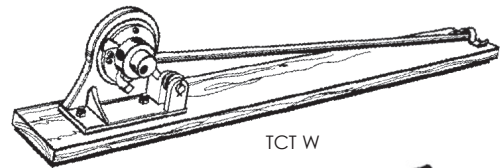


TKL 64308

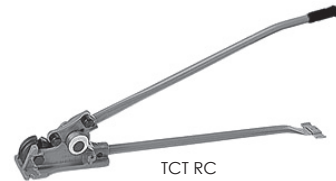
### Rebar Cutter & Bender

Cuts and bends rebar all in one tool.

No.	Description	Size	Cuts	Bends	Wt (lbs)
TCT W	Willard	66" x 7-1/2"	5/8"	5/8"	70.0
TCT RC	Hit	66" x 7-1/2"	5/8"	5/8"	44.0
Replacement Jaws					
TCT WR	Willard				0.70
TCT RCR	Hit				8.40



TCT W



TCT RC

### Bolt Cutter

No.	Size	Cut Capacity	Wt (lbs)
TCT B12	12"	1/4"	2.00
TCT B14	14"	5/16"	2.50
TCT B18	18"	3/8"	3.75
TCT B24	24"	7/16"	6.75
TCT B30	30"	1/2"	9.50
TCT B42	42"	11/16"	20.00

Note: Replacement jaws can be special ordered.



### Bar

1/2" x 2" x 10 ft. bar, for use with the 1/2" x 2" screed hook. Not for use with power screeds.

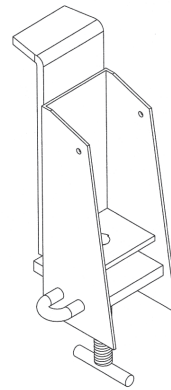


No.	Wt (lbs)
CT 10SB	33.4

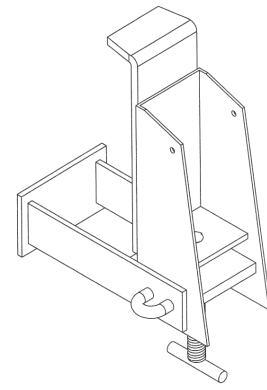
### Hanger

Made of spring steel to snap on 3/4" steel stakes for 2 X 4'S. 100 pieces per carton.

No.	Wt (lbs)
CT WSB	0.19



Hanger for 2x Material

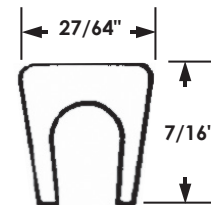


Hanger for 4x Material

### Plastic Cap

Where joint sealants are specified, plastic cap strip should be used. It is easily removed after the concrete hardens, leaving a wedge shaped joint for easy and economical sealant application.

No.	Size	Wt/Ctn (lbs)
DS 20550	500 LF Roll	20.0



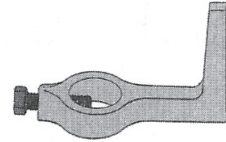
# SCREEDS

## SLAB/HORIZONTAL

### Screed Hook

Screed Hooks are for use with posts. Available in sizes 2" x 4" and 1/2" x 2". 100 pieces per carton.

No.	Size	Wt (lbs)
CT SB24	2" x 4" (Round)	0.54
CT SB122	1/2" x 2" (Round)	0.54



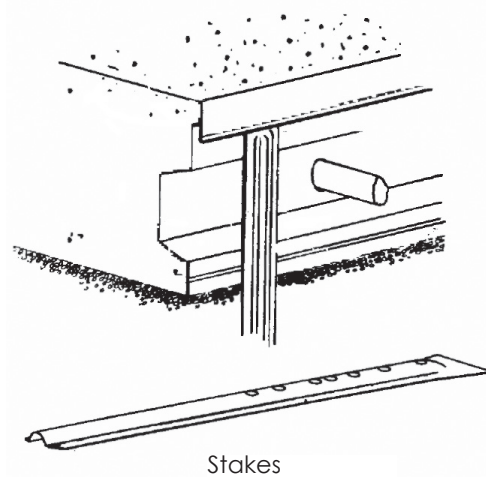
### Key Joint

Screed Key is available in heights of 3-1/2", 4-1/2", 5-1/2", and 7-1/2" for use in 4", 5", 6" and 8" on grade concrete floor slabs. Screed key gives you a smooth, flush surface joint which requires no filling. Minimizes random cracking and provides proper load transfer from slab to slab. 100 pieces per bundle. Not for use with power screeds.

No.	Size	Wt (lbs)
CT 312KK	3-1/2" x 10'	3.7
CT 412KK	4-1/2" x 10'	4.5
CT 512KK	5-1/2" x 10'	5.4
CT 712KK	7-1/2" x 10'	7.1

Stakes - No.	Size	Wt (lbs)	Pcs/Ctn
CT 12KKS	12"	0.34	100
CT 15KKS	15"	0.43	100
CT 18KKS	18"	0.52	100
CT 24KKS	24"	0.69	100

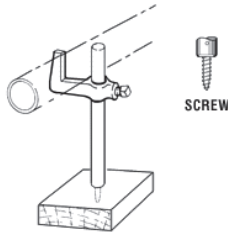
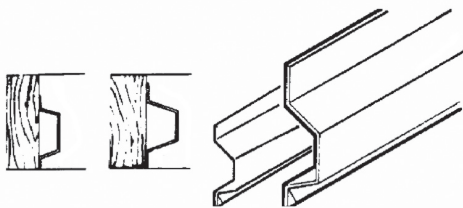




### Plastic Key Way

This flexible polyethylene strip is nailed to a form or header before pouring. When stripped out later, a keyway is left in the concrete. Used to lock multiple on-grade slabs together in tilt-up buildings, insulated floors, curbs, driveways and wherever specified. Will not split chip or crack in any temperature. 2-1/8" recommended for 6" thick slabs. 3-1/2" recommended for 12" thick slabs.

No.	Size	Offset	Wt (lbs)	Qty/Ctn
CFA PK218	2-1/8" x 10'	3/4"	1.2	500 Ft
CFA PK312	3-1/2" x 10'	1-1/2"	2.2	400 Ft



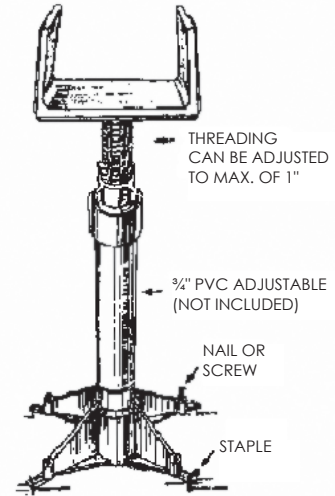
### Posts

**Screw Point Screed Post** for wood forms or decking. 3/4" round stock. Pre-drill a 1/4" hole for lag screws.

No.	Size	Wt (lbs)
CT 10SP	10"	1.25
CT 12SP	12"	1.50
CT 16SP	16"	2.00
CT 18SP	18"	2.25
CT 24SP	24"	3.00

**Tapped Screed Posts** 1/2" tapped post fits threaded sections of screed pad when screeding over waterproof membrane.

No.	Size	Wt (lbs)
CT 10TP	10"	1.25
CT 12TP	12"	1.50
CT 16TP	16"	2.00
CT 18TP	18"	2.25
CT 24TP	24"	3.00



### Adjustable Chair

The Adjustable Screed Chair is a multipurpose chair for level decks and accurate depression forms and comes with a base, adjustable ring, and 2 x 4 saddle. Simply attach the base to the form and place 3/4" PVC Pipe (not included) into the base. Then place the saddle, with the adjusting ring on top of the pipe and twist the saddle to the required elevation. Designed to allow up to 1" adjustment. 100 pieces per carton.

No.	Description	Wt (lbs)
AZ PAS400	Assembly	0.17

### Pads

Used in conjunction with the tapped screed post for screeding over waterproof membrane and wood and steel decking. Cast aluminum with 1/2" NC diameter male threads.

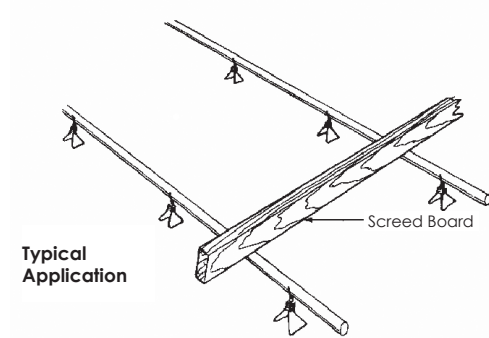
No.	Wt (lbs)
CT SP	0.16



## SLAB/HORIZONTAL

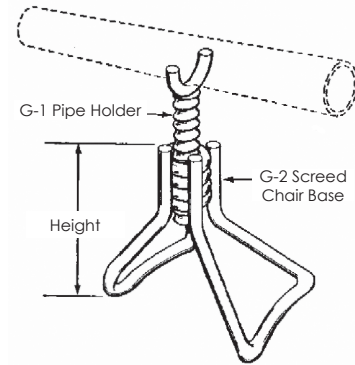
### Adjustable Chairs

Standard screed chairs and pipe holders are available sizes ranging for a 3-3/4" slab to 13" slab. These chairs have the "butterfly" leg design for added strength, and yet this chair can be placed over and beside rebars for easiest screed pipe alignment. The table below shows the range of adjustment (minimum and maximum slabs) for each size chair and pipe holder. Place screed chairs at 4'-0" maximum under screed pipe. On special order, chairs can be made with galvanized wire, electro-galvanized, or provided with stainless dowels between wire and form face. Stock pipe holders are made for 1" ID pipe.



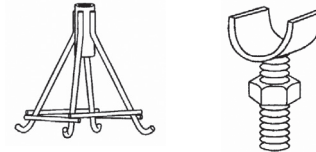
### Screed Support Selection Chart

Diameter	Chair Base		Pipe Holder		Slab Thick	
	Size	Height	Size	Height	Min	Max
1/2"	No. 1	2-1/2"	No. 0	1-1/2"	3-3/4"	4-1/2"
1/2"	No. 2	3-1/2"	No. 2	4"	5-1/4"	7-1/2"
1/2"	No. 3	5"	No. 4	8"	9-1/4"	13"



**WARNING:** Do not use to support the weight of finishing (screed) machines.

**NOTE:** Height based on 1" ID pipe.



### Heavy Duty Chairs

Heavy duty screed chairs and pipe holders are available sizes ranging for a 4-3/8" slab to 16-7/8" slab. The table shows the range of adjustment (minimum and maximum slabs) for each size chair and pipe holder. Place screed chairs at 2'-0" maximum under screed pipe. On special order, chairs can be made with galvanized wire, electro-galvanized, or provided with stainless dowels between wire and form face. Stock pipe holders are made for 1-1/4" and 1-1/2" ID pipe. SWL is 800 lbs.

### Heavy Duty Screed Support Selection Chart

Diameter	G-16 Chair Base		G-14 Pipe Holder		Slab Thick	
	Size	Height	Size	Height	Min	Max
1"	No. 7	3-1/2"	No. 4	4-1/4"	4-3/8"	6-7/8"
1"	No. 8	5-1/2"	No. 5	6-3/4"	6-7/8"	10-5/8"
1"	No. 9	8-1/2"	No. 6	9-3/4"	9-7/8"	16-7/8"

**NOTE:** To obtain actual slab limitations, you must add pipe O.D. to above dimensions.



### MegaScreed™ - Plastic

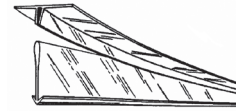
Determine the finished elevation of concrete with a laser or string line and position a #4 rebar stake on the subgrade at the strikeoff point. Place the MegaScreed Driver over the rebar and strike with a Dead Blow Hammer until the height marker aligns with the laser or string line. Remove the Driver and place the high strength Yoke over the rebar. The Yoke will maintain the exact position indicated by the height marker. Repeat this procedure as necessary at each screed location. Then set a 1-1/2" ID, 2" OD schedule 40 screed pipe on top of Yokes and you are ready to pour. 100 per package.

No.	Qty/Ctn	Wt/Ctn (lbs)
AS YOKE	100	3.6
<b>Driver:</b>		
AS TOOL		1.7 EA

### Pinhead - Metal

Several locations can be set at the same time. #4 rebar stakes are driven in line, about 5 feet apart, about floor grade. Each stake is then shot and driven to elevation of 1-13/16" below finished floor grade. Pinheads rest on these stakes and provide a saddle for the temporary screed pipe. A 1-1/4" ID pipe will slide forward with each mixer load, leaving the Pinheads free to remove and reuse. 100 pieces per carton.

No.	Wt (lbs)
CFA PH	0.16



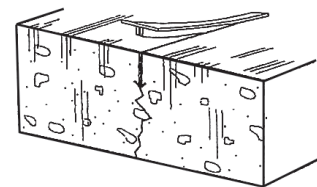
### Zip Strip

A simple method of creating a weakened plane in flat concrete surfaces. Creates an early line of weakness in concrete slabs helping prevent random cracking. 500 lf per carton.

No.	Size	Wt/Ctn (lbs)
CT 1Z	1" x 10'	23.0
CT 112Z	1½" x 10'	31.0
CT 2Z	2" x 10'	34.0

### Application

The location of the joint should be screeded and floated before installing Zip Strip. With a straight edge guide, groove out a slot to the desired depth. The depth should be equal to the depth of the Zip Strip and at least a fourth of the thickness of the slab. Groove the slot well to part any aggregate that might block insertion of the Zip Strip. Press Zip Strip down into the formed groove so that the removable top is level with the surface of the concrete. Finish by pulling the top section off to leave the joint former firmly embedded in the concrete. Trowel and finish off concrete.



# SCREEDS

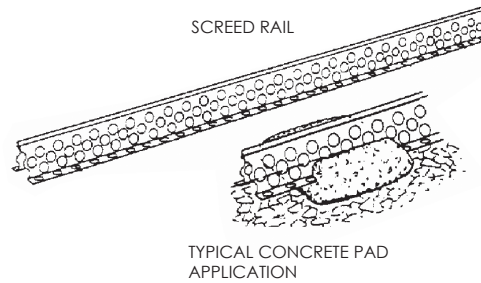


## SLAB/HORIZONTAL

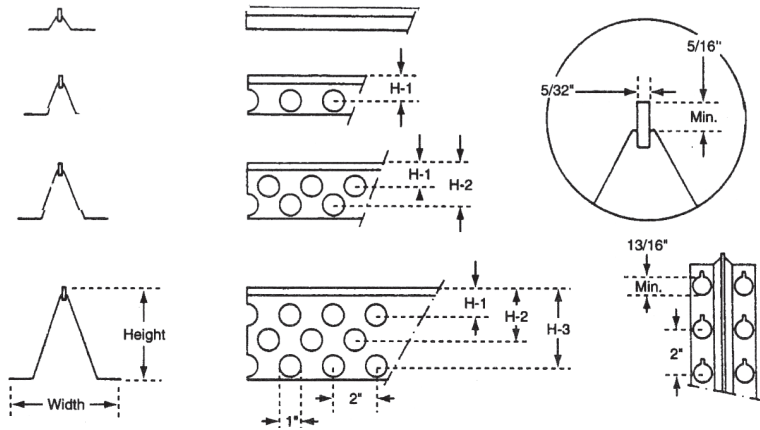
### Combiform Rail

Combiform screed rail and form is used in the production of flat slabs. The Combiform screed rail is manufactured from plain sheet metal and a strip of polyethylene plastic. Available in 7.2' lengths in various heights up to 5-3/4" (125mm). Combiform functions both as a form and a screed rail on any type of prepared base. Being a stay-in place form, the Combiform will help to control shrinkage cracks which will occur along the plastic strip. The Combiform screed rail is machine made to close tolerances. The side of the rail is perforated to allow easy concrete flow and pass through of reinforcing steel up to 7/8" (22mm) in diameter, depending on size. For installation grade pies are placed on each end and 3' centers. Combiform is set to grade leaving 1-1/2" gap underneath to allow concrete to fill void (when initially setting, keep concrete cover to maximum 1/2" above combiform flange). When pouring slab vibration along edge is recommended to fill void. For more installation techniques call Masons.

No.	Size	Rec Slab Thickness	Wt/Pc (lbs)	Pcs/Ctn
CF C45	1-3/4" x 7.2'	3"- 4"	4.4	182
CF C65	2-1/2" x 7.2'	4"	5.1	182
CF C85	3-3/8" x 7.2'	5"	6.2	182
CF C105	4-1/8" x 7.2'	6"	7.7	150
CF C125	5" x 7.2'	7"	9.3	150
CF C145	5-3/4" x 7.2'	8"+	11.0	100



Tolerances: Length  $\pm 3/16"$ . Height  $+ 1/8"$ ,  $- 1/16"$



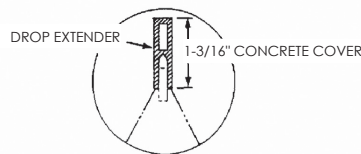
### Combiform Selection Chart

Description	Height	H-1 in.	H-2 in.	H-3 in.	Width	Weight/Bundle lbs.
CF C45	1-3/4"	1.2"			3.5"	966.0
CF C65	2-1/2"	1.1"	1.8"		4.1"	1,122.0
CF C85	3-3/8"	1.2"	1.9"	2.6"	4.5"	1,256.0
CF C105	4-1/8"	1.3"	2.1"	3.5"	5.1"	1,285.0
CF C125	5"	1.3"	2.5"	4.3"	5.3"	1,483.0
CF C145	5-3/4"	1.3"	3.0"	5.0"	6.3"	1,177.0

### Drop Extender

Drop extender is a removable plastic strip that attaches to the normal plastic strip, in the top of the screed rail to provide a 1 3/16" (30mm) concrete cover.

No.	Size	Wt (lbs)
CF EXT	1-3/16" x 7.2'	1.1



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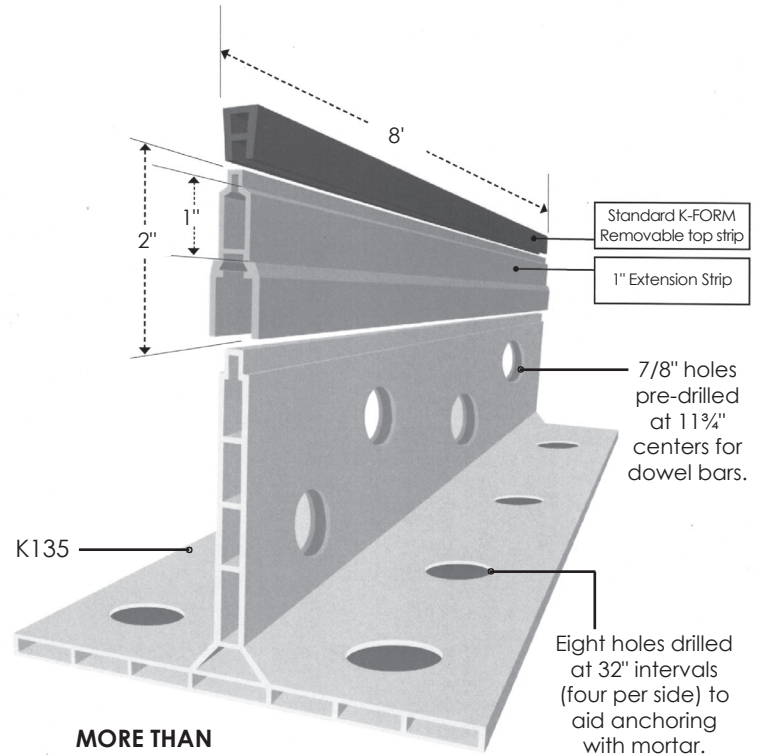
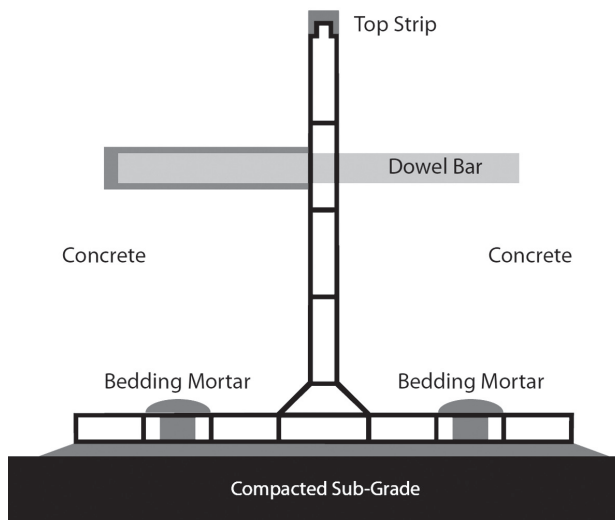
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### K-FORM

K-FORM PVC Screed Railing provides a high quality, economical, efficient and environmentally friendly alternative to steel forms. K-FORM is made from recycled materials, is lightweight, durable and does not require removal after concrete pouring. It is easily cut to length on site and has pre-drilled holes in the vertical face for installing dowel bars and in the base for mortar anchoring. It is an ideal choice for isolation joints. Patented design comes with a built-in expansion joint, click-together design, removable Top Strip for joint sealing and end clips for joining. The pouring of floor slabs has never been so easy. The lightweight system can be set up four times more quickly than traditional steel formwork. No special tool or diamond cutting required.



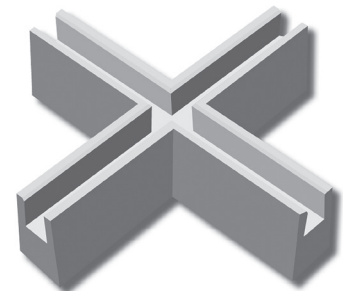
**MORE THAN  
80%  
LIGHTER THAN  
STEEL FORMS**

90° CORNERS



T-JUNCTIONS

CROSSINGS



Cross Top T-Strip

No.	Description	Dimensions	For Slabs	Wt (lbs)
PS K35	K35	2" x 8' w/void cap	2" - 2 1/2"	6.50
-	K35 plus 1" riser		3" - 4"	
PS K85	K85	4" x 8' w/void cap	4" - 5"	7.00
-	K85 plus 1" riser		5" - 6"	
PS K135	K135	6" x 8' w/void cap	6" - 7"	7.50
-	K135 plus 1" riser		7" - 8"	
-	K135 plus 2 x 1" riser		8" - 9"	
<b>Accessories</b>				
PS KCROSS	Cross Top T-Strip can be used with K35, K85 & K135			1.00
PS KEXT	Extension Cap	1" x 8'		1.00
<b>If used as above, the maximum bed up height is up to 1" and 3/8"</b>				



### Steel

3/4" round steel stakes are made from heavy duty ASTM A615, grade 60, hot rolled steel. Permit easy nailing to forms or braces. The stake's short, sharp point minimizes deflection when rocks are hit. Holes are drilled in round stakes 1" (25mm) center to center in a spiral pattern 60 degrees apart. Round stakes also can be used as ground screed posts using screed hooks. 10 per bundle.



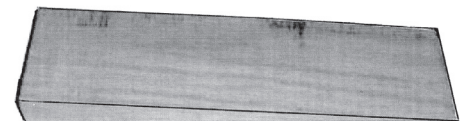
No.	Length	Holes	Wt (lbs)
CT 12STK	12"	2	1.60
CT 18STK	18"	4	2.40
CT 24STK	24"	6	3.20
CT 30STK	30"	8	4.00
CT 36STK	36"	10	4.80
CT 48STK	48"	14	6.30

### Wood

Available in standard lengths, top grade. Ideal for form setting.



No.	Size	Qty/Bndl	Wt (lbs)
WD 12STAKE	3/4" x 1-1/2" x 12"	50	13.0
WD 18STAKE	3/4" x 1-1/2" x 18"	50	23.0
WD 24STAKE	3/4" x 1-1/2" x 24"	50	30.0
WD 48HUB	2" x 2" x 48"	25	54.0
WD WEDGE	2" x 4" x 12"	50	32.0

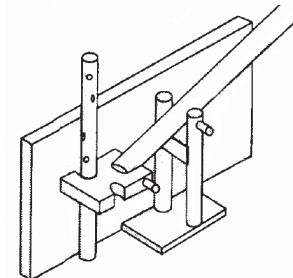


WD WEDGE

### Stake Puller

A handy tool that pulls 3/4" round or 1-1/2" flat stakes without bending them. Oval handle is heavy duty tubular steel for easy stake pulling.

No.	Description	Wt (lbs)
TBS SP	3/4" round or 1-1/2" flat stakes	11.0



# INSULATION

## SLAB/HORIZONTAL

### Styrofoam Square Edge

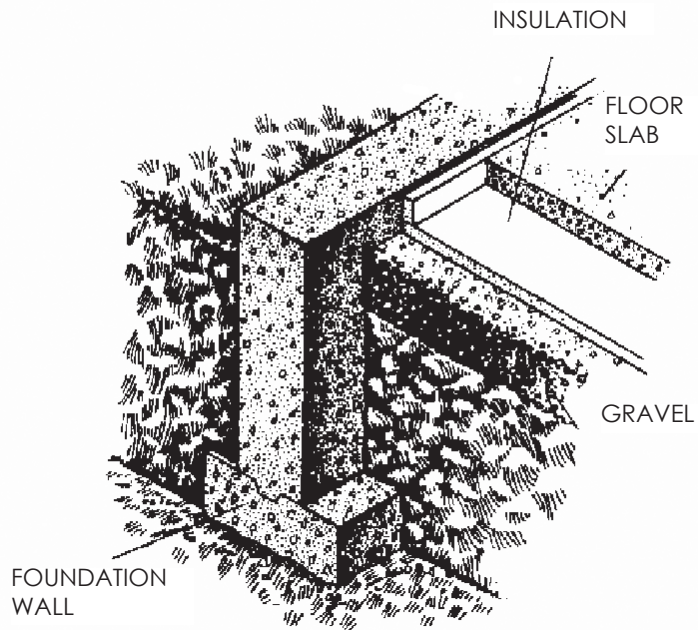
Styrofoam insulation is a closed cell, rigid plastic foam. This distinctive extruded polystyrene foam product is designed for use in roof, wall, and foundation insulation applications in new commercial and residential buildings as well as in existing structures being thermally retrofitted. Insulation is also used in agriculture buildings, low temperature warehouses, and food processing plants. Styrofoam brand square edge insulation is an extruded board, with a high density, smooth extruded skin and square edges on four sides. Thermal resistance (R-value) @ 75° is 5.0 per inch.

#### Conforms to:

ASTM C 578 Type IV (25 PSI)

ASTM C 578 Type X (15 PSI)

No.	Size	PSI	Wt (lbs)	Pcs/Unit
FL 12825	1" x 2' x 8'	25	2.4	192
FL 14825	1" x 4' x 8'	25	4.8	96
FL 1122825	1½" x 2' x 8'	25	3.6	128
FL 1124825	1½" x 4' x 8'	25	7.2	64
FL 22825	2" x 2' x 8'	25	4.8	96
FL 24825	2" x 4' x 8'	25	9.6	48
FL 32825	3" x 2' x 8'	25	7.2	64
FL 34825	3" x 4' x 8'	25	14.4	32

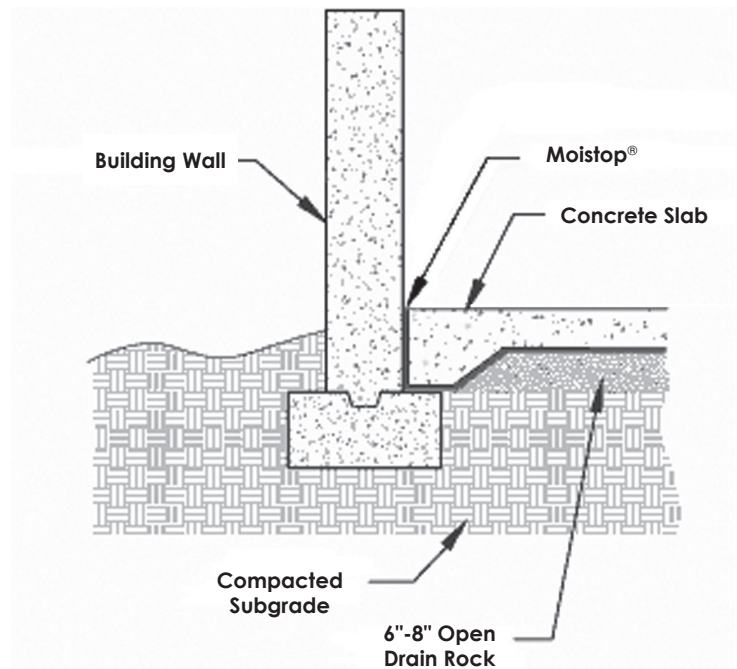




## Moistop®

Moistop is an extremely effective Underslab Vapor Retarder. meets ASTM E 1745-96 requirements for Water Vapor Permeance. Moistop is approximately 12 mils thick constructed from a multi-layer composite employing polyethylene for superior barrier performance and fiberglass reinforcing for tear strength and puncture resistance. The result of this unique multi-ply construction is a product that provides: low perm rating, high degree of puncture resistance, tear and scuff resistance and life long performance. Prior to the placing of steel reinforcing and pouring of concrete, the ground is leveled and tamped. Moistop should then be rolled out parallel with the direction of the pour. All seams should be overlapped no less than 6 inches and seamed with Moistop Tape.

No.	Size	Wt (lbs)
GP MOST8	8' x 250'	85.0



## Moistop® Tape

Moistop Tape was designed for use with all Moistop Underslab vapor retarders. Improved adhesion assures moisture tight joints. Moistop Tape also exhibits vapor retarding performance characteristics as required by ASTM E 1745-96. Prepare substrate by making it clean and dry. Apply tape evenly over seam and rub out any wrinkles formed during application.

No.	Size	Wt (lbs)
GP MOST499-4	4' x 108'	2.5



# VAPOR RETARDER

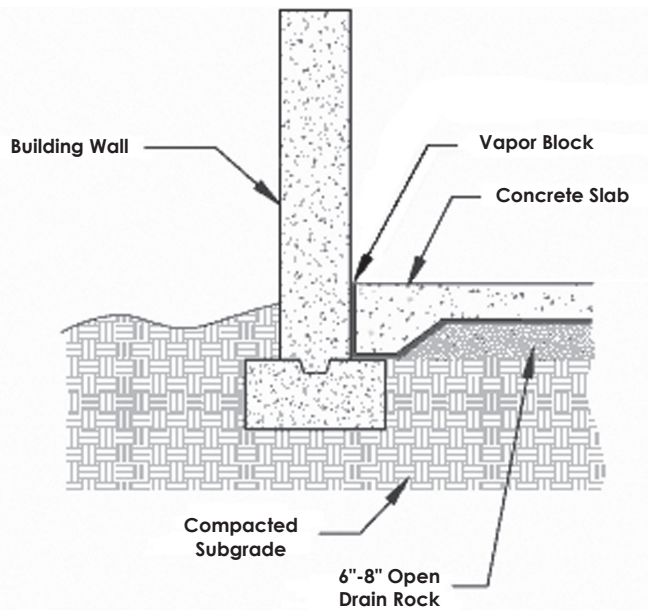


## SLAB/HORIZONTAL

### Vapor Block™ 10, 15

Vapor Block™ 10 and 15 are high performance underslab vapor retarders designed to retard moisture migration through concrete slabs-on-grade. Vapor Block™ is made from state-of-the-art polyethylene resins that provide superior physical and performance properties that far exceed ASTM E-1745 (Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill Under Concrete Slabs) Class A, B and C requirements. High tensile strength, unequalled puncture resistance, low moisture vapor permeability as well as resistance to decay make Vapor Block one of the most effective underslab vapor retarders on the market today! Available in 10 and 15 mil thicknesses to best meet required performance specifications. Vapor Block impedes the transmission of water vapor from traveling upward through a concrete slab-on-grade or through a concrete wall when properly installed. It is extremely important to avoid puncturing a vapor retarder during installation to assure proper performance. Vapor Block's puncture strength is second to none, withstanding even the most demanding installation conditions. Vapor Block vapor retarders protect your flooring and other moisture sensitive furnishings in your building's interior from moisture migration. Vapor Block™ vapor retarders can also greatly reduce condensation, mold and degradation by controlling water vapor migration. Common applications include under-slab vapor retarder, crawl spaces, and foundation wall vapor retarder. **Vapor Block 10, 15 meets ASTM E-1745 Class A, B, C Standards.**

No.	Thickness	Size	Wt (lbs)
V VB10	10 mil	15' x 200'	150.0
V VB10-12	10 mil	12.5' x 200'	140.0
V VB15	15 mil	12' x 200'	175.0
Tape			
No.	Size	Qty/Ctn	Wt (lbs)
V VBTAPE	4" x 210'	12	3.5



### Vapor Retarder

**VB-250 & VB-350** Vapor Retarders are a high performance under slab vapor retarder developed to retard moisture migration through concrete slabs. Manufactured with only high-grade virgin polyolefin resins. Design with a three layer, co-extruded, cross-laminated system. Installed over tamped earth, sand or aggregate base by unrolling and completely covering area to receive building slab or specified area. Overlap all seams a minimum of 6" and seal with **BB BB20T** Seam Tape. Seam tape is a high performance, low permeance (<0.02 perms) sealing tape designed to seal overlap seams, penetrations and repairs as part of the Vapor Retarder system. Engineered to provide a strong bond to overlap seams at all temperatures down to 25°F.

No.	Thickness	Size	Wt (lbs)
BB VB250	11 mil	12.75' x 200' (2550 SF/Roll)	131.0
BB VB350	16 mil	12.75' x 150' (1912 SF/Roll)	137.0
Tape			
No.	Thickness	Size	Wt (lbs)
BB BB20T	20 mil	4" x 150'	7.0

#### Physical Properties of VB Vapor Retarder

Classification	ASTM E 1745	Exceed Class A, B & C
Water Vapor Permeance	ASTM E 96	VB250 = 0.020 perms (US) VB350 = 0.009 perms (US)
Tensile Strength	ASTM E 154-93 (ASTM D 882)	VB250 = 50 lbf / in VB350 = 63 lbf / in
Puncture Resistance	ASTM D 1709	VB250 = 2400 grams VB350 = 2750 grams
Life Expectancy	ASTM E 154	Indefinite
Chemical Resistance	ASTM E 154	Unaffected

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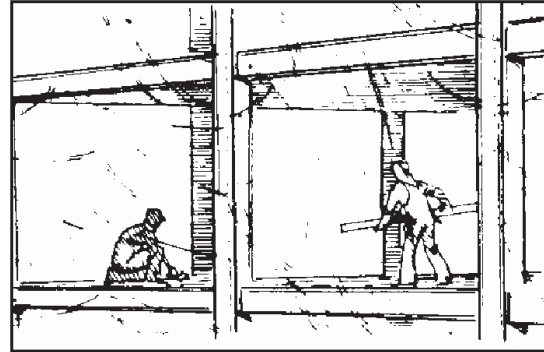
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### Polyethylene Film

Polyethylene film is a tough chemically inert sheeting unaffected by common acids, alkalis and caustics at room temperature. Polyethylene will not mold or mildew, but will become brittle if exposed to sunlight (ultraviolet rays) for prolonged periods. Polyethylene film can be used to cure and protect concrete, act as an underslab vapor barrier, cover materials and equipment; be used for temporary enclosures, protect soil from erosion etc. It is available in 2, 4, 6, 8, and 10 mil thicknesses in clear, black or white. Standard roll lengths are 100 ft.(30m). A variety of widths up to 40 ft.(12m) are available on request.



No.	Size	Wt (lbs)
V 19C	1mil x 9' x 400' Clear	20.0
V 112C	1mil x 12' x 400' Clear	24.0
V 24.2C	2mil x 4.2' x 200' Clear	10.0
V 28.3C	2mil x 8.3' x 200' Clear	18.0
V 212C	2mil x 12' x 200' Clear	24.0
V 404C	4mil x 4' x 100' Clear	10.0
V 406C	4mil x 6' x 100' Clear	14.0
V 48C	4mil x 8' x 100' Clear	18.0
V 410B	4mil x 10' x 100' Black	20.0
V 410C	4mil x 10' x 100' Clear	20.0
V 412B	4mil x 12' x 100' Black	24.0
V 412C	4mil x 12' x 100' Clear	24.0
V 414C	4mil x 14' x 100' Clear	28.0
V 416C	4mil x 16' x 100' Clear	32.0
V 420B	4mil x 20' x 100' Black	40.0
V 420C	4mil x 20' x 100' Clear	40.0
V 420W	4mil x 10' x 100' White	20.0
V 610B	6mil x 10' x 100' Black	30.0
V 610C	6mil x 10' x 100' Clear	30.0
V 610W	6mil x 10' x 100' White	30.0
V 612B	6mil x 12' x 100' Black	36.0
V 612C	6mil x 12' x 100' Clear	36.0
V 616B	6mil x 16' x 100' Black	48.0
V 616C	6mil x 16' x 100' Clear	48.0
V 620B	6mil x 20' x 100' Black	60.0
V 620C	6mil x 20' x 100' Clear	60.0
V 620W	6mil x 20' x 100' White	60.0
V 640B	6mil x 40' x 100' Black	120.0
V 640C	6mil x 40' x 100' Clear	120.0
V 820C	8mil x 20' x 100' Clear	80.0
V 1020B	10mil x 20' x 100' Black	100.0
V1020C	10mil x 20' x 100' Clear	100.0
<b>Flame Retardent</b>		
V 620FR	6mil x 20' x 100 Clear	60.0

### Reinforced Polyethylene

An exceptionally strong, tear resistant, reinforced polyethylene film is used for building enclosures, protective coverings, curing covers or vapor barriers. A lamination of two poly films reinforced with fiber cords laid multidirectional resists tearing, high winds and temperature extremes. Reinforced polyethylene is lightweight, easy to use and reusable.

No.	Size	Wt (lbs)
V 20100BL	20' x 100'	57.0
V 40100BL	40' x 100'	121.0
<b>Flame Retardent</b>		
V 20100RPFR	20' x 100'	57.0

### Trash Bags

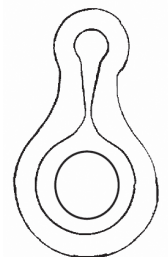
These 44 gallon trash bags are the ideal answer for construction job sites. They are made of a black low density polyethylene.



No.	Size	Mil	Qty/Box	Wt/box (lbs)
V 44GTB	33" x 48"	3	32	10.5

### Tie Down Button

Tie Down Buttons help keep plastic sheeting securely in place. They are designed to eliminate traditional grommets in plastic sheeting up to 12 mils thick. Tie-Down Buttons are reusable plastic fittings that are easy to install in any position.



No.	Wt (lbs)
V TDB	.008

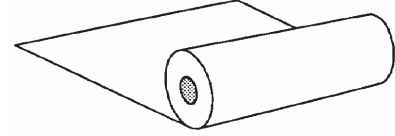
# PROTECTION



## SLAB/HORIZONTAL

### Rosin Paper

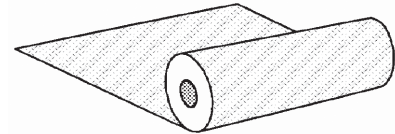
A high quality, heavyweight paper, protective covering and liner. It is useful in a wide variety of construction applications including roofing, flooring and as a general jobsite protective covering.



No.	Size	Wt/Roll (lbs)
WR RRP	36' x 167' (500 Sq Ft)	17.0

### Cover guard®

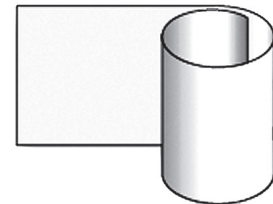
A flame retardant polyethylene film designed specifically for the temporary protection of hard, non-porous surfaces. Provides a slip resistant protection in DP (embossed with anti-slip diamond plate pattern). Cover guard® is supplied in 10 to 40 mil thickness and is available in two widths for use in corridors and public spaces. It is extremely durable, tough, tear resistant and offers total protection against impacts, indentations and markings. It is resistant to most chemicals, paints, over-spray, dirt, dust, debris and is waterproof. Cover guard® is quick, easy and efficient to install and remove. Cutting and shaping is simple. The product is easy to clean and is reusable. General applications range from the protection of tile, terrazzo, stone & marble, vinyl, linoleum, wood, steel, poured resin floors, walkways, open areas and vertical surfaces. Comes in ocean blue color.



No.	Finish	Thickness	Roll Width	Roll Length	Coverage	Wt/Roll (lbs)	Qty/Pallet	Wt/Pallet (lbs)
CG 1036DP	Diamond Plate	10 mil	3'	393'	1180 Ft <sup>2</sup>	60.0	16	960.0
CG 1072DP	Diamond Plate	10 mil	6'	393'	2358 Ft <sup>2</sup>	120.0	9	1080.0
CG 2536DP	Diamond Plate	25 mil	3'	180'	540 Ft <sup>2</sup>	72.0	12	864.0
CG 2572DP	Diamond Plate	25 mil	6'	180'	1080 Ft <sup>2</sup>	140.0	9	1260.0
CG 4036DP	Diamond Plate	40 mil	3'	120'	360 Ft <sup>2</sup>	70.0	9	630.0
CG 4072DP	Diamond Plate	40 mil	6'	120'	720 Ft <sup>2</sup>	150.0	9	1350.0

### FLOORGARD

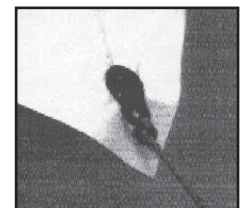
Provides excellent temporary protection for installed floor systems including decorative concrete, ceramic tile, pavers, wood and composite floor systems. FLOORGARD is also an excellent moisture curing barrier for freshly poured concrete. Recommended for both interior and exterior use. Can be easily removed, revealing a clean dry floor that requires minimal clean up. Made of a textured membrane laminated with a nonwoven polypropylene geotextile. The composite is tough, durable and can withstand harsh construction environments. May be installed after curing completion. Unroll FLOORGARD and position over specified area. Overlap seams and secure with BB BB20T Seam Tape. FLOORGARD may be cut to fit using scissors or a utility knife.



No.	Thickness	Size	Wt (lbs)
BB VBC90	18 mil	6' x 150' (900 SF / Roll)	53.0

### Tarp Grabbers

Add a grommet anywhere you need one. Tarp Grabbers are up to 4 times stronger than a brass grommet and are typically used in heavier plastic sheeting from 10 mil up to 30 mil thick. Great for equipment covers, large storage covers and truck tarps.



No.	Wt (lbs)
V TG	0.20

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M A S C O . N E T

# PROTECTION

## SLAB/HORIZONTAL

### Ram Board® Floor Protection

Ram Board® is a heavy-duty, temporary floor protection engineered for Contractors. Designed with cost and efficiency in mind; it lays out fast and is re-usable. Ram Board® is non-staining and utilizes its Flex-Fiber™ technology allowing for the curing of new floors on job sites. It provides the perfect solution when protecting new or existing concrete, wood, tile, stone, linoleum, vinyl composition tile, epoxy, and most other floor types.

No.	Size	Wt (lbs)
RB PB	38" x 100' (317 sq. ft.)	50.0

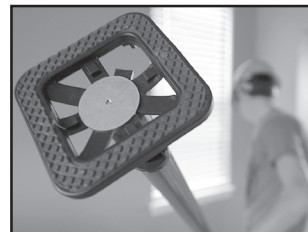


## Dust Containment

### Dust Shield Extendable Poles

Makes constructing temporary walls quick, simple and affordable. Dust Shield Extendable Poles lock screening material firmly against ceiling. Poles are dent resistant, heavy gauge aluminum. They feature a swivel bottom that allows poles to be used on flat and angled ceilings.

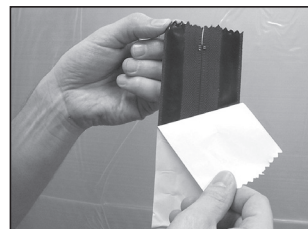
No.	Size	Color	Qty/Ctn	Wt (lbs)
TM POLE12	Poles adjust up to 12' (Condense down to 57")	Red	2	14.0



### ZIP n CLOSE® Self-Adhesive Tape

Creates instant access to tarps or plastic enclosures. Features a pressure sensitive adhesive backing. Zippers can be opened from either side. Use 1 zipper for a flap or 2 for a wider opening.

No.	Size	Color	Qty/Ctn	Wt (lbs)
TM ZIP	2.75" x 7" zipper	Blue	2	0.60



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## 5 Gallon Spill Kit

The 5 Gallon Spill Kit is a popular spill kit for trucks, heavy equipment and construction sites. Economical and easily refillable after contents are used for spill clean up. The spill kit is packaged within a water tight 5 Gallon Pail with standard Tear Tab Lid. The color is high visibility yellow.

Universal Kit absorbs water, petroleum products, chemicals, cleaners, body fluids, anti-freeze, etc.

### Contents:

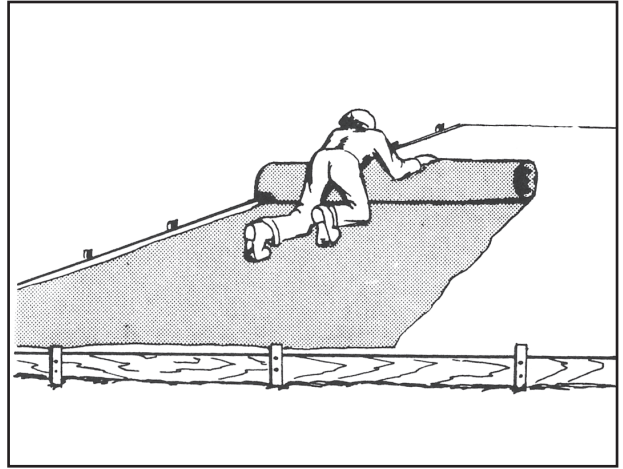
- 10 Pads, Light Wt.
- 2 Socks, 3" x 48"
- 1 Bag Ultrasorb, 5 lbs.
- 1 Temp. Disposal Bag, 4 mil.
- 1 Plastic Zip Tie
- 1 Pr Nitrile Glove
- Instruction Sheet



No.	Size	Wt (lbs)
OP SPILLKIT5G	5 Gallon Spill Kit	12.0

## Insulated Curing Blanket

Cold weather curing of concrete is best done with thermal blankets. Available with reinforced polyethylene, curing blankets are filled with layers of polypropylene foam for un-paralleled "R" value. Closed-cell polypropylene foam won't absorb water. Since the core stays dry, the blanket maintains its thermal conductivity so concrete can achieve the greatest possible strength. A dry core also makes for a lighter blanket, and that in turn speeds placement, reducing costs. Curing blankets resist tears and punctures so they can be reused again and again. Between uses the blankets are easily folded for storage and transport.



No.	Description	R-Value (With 3" Air Space)	Size	Wt (lbs)
MC 625F14	4 layer foam, 2-sided black	2.50 approx.	1/4" x 6' x 25'	8.0
MC 1225F14	4 layer foam, 2-sided black	2.50 approx.	1/4" x 12' x 25'	16.0
MC 625SA14	4 layer foam, 1-side black, 1 side aluminum	5.11 approx.	1/4" x 6' x 25'	8.0
MC 1225SA14	4 layer foam, 1-side black, 1 side aluminum	5.11 approx.	1/4" x 12' x 25'	16.0

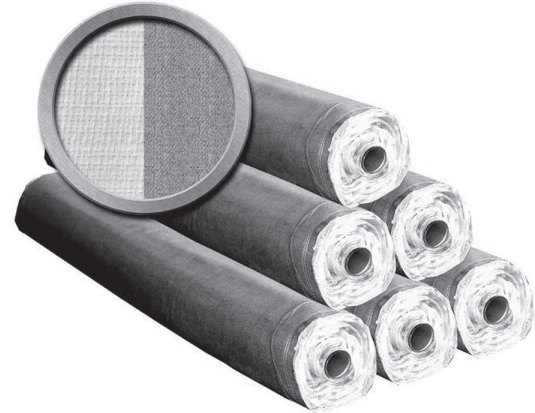
# CURING BLANKETS



## SLAB/HORIZONTAL

### Poly Burlap Curing Blanket

Poly Burlap curing blankets are a combination of 10 oz. burlap and 5 mil white opaque poly. The 5 mil polyethylene is extruded onto the 10 oz. burlap. The result is a lightweight water curing blanket that can be used over and over again. The burlap layer distributes the water evenly over the covered surface, while the white opaque poly reflects the intense rays of sun. This way, the concrete is allowed to cure properly. After each use, expose burlap side to the sun or air. The burlap will be ready to use again quickly. Meets AASHTO M-182, Class II, and ASTM C-171 specifications when chemical cures are not allowed.



No.	Size	Wt (lbs)
MC 10100CL	10' x 100'	76.0

### Transguard® 4000 - Reusable Wet Cure Covers

Consists of a natural colored polypropylene non-woven fabric with a 4 mil coating applied to one side that allows for proper moisture control during the concrete curing process, reducing cracking, dusting and scaling. The lightweight, reusable wet cure covers are more flexible than other curing materials, resulting in much easier installations, that save time, labor and money. The nonperforated white coating contains ultraviolet light stabilizers providing protection against UV degradation. Transguard® 4000 is reflective - reflects heat to decrease moisture loss (85% reflectance, ASTM E-1347). It also meets or exceeds AASHTO M-171 and ASTM C-171, "Standard Specification for Sheet Materials for Curing Concrete" for moisture retention and reflection. The material must be applied with the white polyethylene side up, so that moisture will entirely cover the full span of the deck. Overlap blankets at least 6". Transguard® 4000 should be soaked thoroughly on the non-woven synthetic side, re-wetting when necessary may be performed by the use of a soaker hose or equivalent.



No.	Size	Wt (lbs)
RF TG4000	10' x 150' (1500 SF)	95.0 approx.

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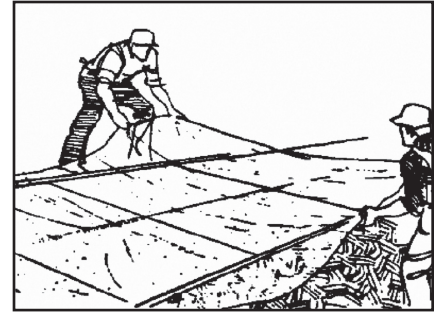
Clackamas | Eugene | West Eugene | Hillsboro | Medford | Portland | Salem | Wilsonville | Ridgefield | Seattle | Tacoma | Woodinville



## Wet Curing Blanket

These wet curing blankets are made from a cross laminating textured Polyethylene film with a non-woven Geo-Textile designed to be hydrated and inhibit moisture loss during the curing process of concrete. The white color of the film and geotextile will effectively reflect sunlight and significantly reduce heating of the concrete surface caused by sunlight in hot weather conditions. It is recommended to cover fresh concrete with the Wet Curing Blanket as soon as the concrete is poured. Designed for both interior and exterior uses. Easy to install and remove after the concrete has been cured. Available in a standard size of 6' x 150' rolls. Meets and exceeds AASHTO M-171 and ASTM C-171, "Standard Specification for Sheet Materials for Curing Concrete" for moisture retention and daylight reflection.

**Application:** Pre-wet concrete as required. Ideally flood the surface with water approximately 1/8" deep or more. Use care to prevent erosion of the surface. Soak the geo-textile side of the Wet Curing Blanket thoroughly. Apply curing blankets as soon as possible after placing and finishing the concrete without marring the surface. Unroll curing blankets with the fabric side down toward the concrete and the white-cross laminated side up. Achieve a uniform layer of water under the blanket and use a roller squeegee to help secure the cover. Observe the water content and add if needed. Re-wetting may be required during the curing process depending upon weather conditions and specification requirements. Overlap panels approximately 6" to seal in moisture. Forms should also be covered and kept wet during the curing process. Keep blankets in contact with the entire concrete surface at all times during the curing process. Care should be taken so the concrete is not stained by impurities in the water or by soiled blankets. Always review your wet curing requirements for specified methods and length of time requirement for curing. **The above installation is an example; concrete normally needs at least 7-days of continuous wet curing.**

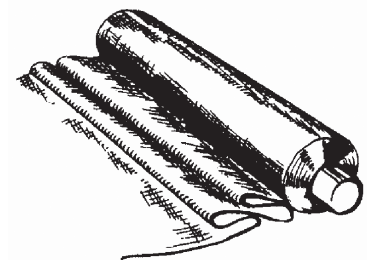


No.	Size	Wt (lbs)
BB VBC90W	6' x 150' (900 SF)	53.0

## Burlap

Burlap is an absorbent cover for curing concrete which allows periodic lapses in the sprinkling method of curing. Burlap should be rinsed thoroughly before placing. Care should be taken to ensure proper lapping and that all concrete edges are covered. Keep continuously wet. Burlap may also be used to roughen fresh concrete surfaces by wet dragging. Standard weight 10 oz.

No.	Size	Wt (lbs)
CT BURLAP	40' x 300' approx.	80.0 approx.
CT BS	14" x 26" bag, 25/Bndl	0.72/ea.



# INSERTS - COIL



## INSERTS

### Loop - Criss Cross Double Flared

The safe working load of the Double Flared Coil Loop Insert is identical to that of the Double Flared Coil Loop. However, its crisscross design will not allow the insert to "straddle" reinforcing steel or prestressing strands.

No.	Size	Wire	SWL Tension (lbs)	Min. Edge Distance	Wt (lbs)
CFI CCF112	1" x 12-3/8"	.375	9,500	15"	2.37
CFI CCF11412	1-1/4" x 12-3/8"	.375	9,500	15"	2.45
<b>Other sizes and galv available on request.</b>					



### Loop - Double Flared

The safe working load of the Double Flared Coil Loop Insert is greatly increased over that of a Single Flared Coil Loop. This increase in capacity is achieved by welding a second loop to the same coil. By adding the additional loop, it doubles the cross-sectional area of steel embedded in the concrete and at the same time, increases the area of the shear cone. The design of the insert leaves an open space between the two loops, allowing the insert to "straddle" reinforcing steel or prestressing strands.

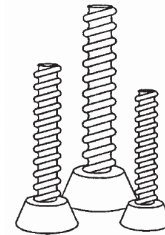
No.	Size	Wire	SWL Tension (lbs)	Min. Edge Distance	Wt (lbs)
CFI CDLF112	1" x 12-3/8"	.375	9,500	15"	2.37
CFI CDLF11412	1-1/4" x 12-3/8"	.375	9,500	15"	2.45
<b>Other sizes and galv available on request.</b>					



### Loop Protector

Provides complete protection to the helix of a Coil Loop Insert during pouring, finishing and storage operations. A waterproof grease should be applied to the threads to facilitate coil plug removal from concrete. **A specially designed removal tool is also available.**

No.	Size	Recess	Thread Length	Qty/Ctn	Wt/Ctn (lbs)
CFI CP12	1/2"	1/2"	2"	250	15.00
CFI CP34	3/4"	3/4"	3"	250	19.00
CFI CP1	1"	3/4"	4"	150	21.00



### Loop - Single Flared

The load carrying capacity of any cast-in-place concrete insert is largely dependent upon the ability of the insert to draw upon the tensile strength of the mass of concrete within which it is embedded. The Single Flared Coil Loop Insert makes effective use of this principle by increasing the depth and width of concrete embedment.

No.	Size	Wire	Min. Edge Distance	Wt (lbs)
CFI CLF346	3/4" x 6"	.375	12"	0.61
CFI CLF349	3/4" x 9"	.375	12"	0.79
CFI CLF19	1" x 9"	.375	12"	1.20
CFI CLF112	1" x 12"	.440	14"	1.80
<b>Other sizes and galv available on request.</b>				



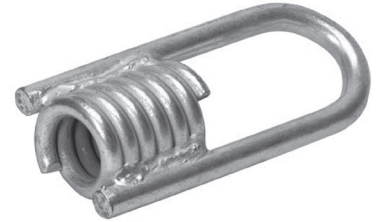
SWL is based on 1/2" set back from face of concrete and sufficient coil penetration by the lifting bolt. SWL provides a factor of safety of approximately 4 to 1 in 3,000 psi normal weight concrete. Refer to the coil bolt chart on minimum coil bolt penetration. Consult manufactures data for values on shear and reduced edge distance. Note: Masons Supply does not recommend 1/2" diameter bolts for lifting/handling of precast concrete.

### Straight Coil Loop Insert

Although simple in design and fabrication, the Straight Coil Loop Insert is highly efficient for lifting and handling precast concrete elements. Standard inserts are shown in the chart. Special inserts for use with larger diameter coil bolts, or with loops having longer lengths and of heavier wire can be furnished, if required, on special order.

No.	Size	Wire	SWL Tension (lbs)	Min. Edge Distance	Wt (lbs)
CFI CLS124	1/2" x 4"	.223	1,950	8"	0.20
CFI CLS126	1/2" x 6"	.306	3,600	12"	0.30
CFI CLS344	3/4" x 4"	.223	1,950	8"	0.40
CFI CLS346	3/4" x 6"	.306	3,600	12"	0.40
CFI CLS16	1" x 6"	.306	3,600	12"	0.80

**Other sizes and galv available on request.**



### Open Coil Insert

Open Coil Inserts are fabricated in two, four or six strut versions, as required. A standard coil is welded at one end of the strut wires and on the opposite end, an expanded pitch coil is welded. The expanded pitch coil welded to the more deeply embedded end of the insert, serves to distribute the applied loads over a larger volume of concrete.

No.	Size	Wire	SWL Tension (lbs)	Min. Edge Distance	Wt (lbs)
CFI COC34	3/4" x 4-1/2"	.375	4,250	8"	0.55
CFI COC1	1" x 5-1/2"	.440	6,250	8"	1.12
CFI COC114	1-1/4" x 7-1/2"	.440	10,480	18"	2.40

**Other sizes and galv available on request.**



### Thin Slab Coil Insert

The Flared Thin Slab Coil Insert is designed for use in very thin slabs or other conditions where a longer insert cannot be used. Inserts should be set back 1/2" from the surface of the concrete, maintaining at least 3/4" of concrete below the insert. Minimum spacing between inserts is twice the minimum corner distance.

No.	Size	Wire	SWL Tension (lbs)	Min. Edge Distance	Wt (lbs)
CFI CTS121	1/2" x 1-3/4"	.223	950	6"	0.30
CFI CTS122	1/2" x 2-1/4"	.223	950	6"	0.40
CFI CTS342	3/4" x 2-1/4"	.262	1,640	8"	0.60
CFI CTS343	3/4" x 3-1/2"	.306	2,600	9"	0.70
CFI CTS12	1" x 2-1/2"	.306	2,000	8"	0.80
CFI CTS14	1" x 4-1/2"	.306	4,750	12"	1.00



SWL is based on 1/2" set back from face of concrete and sufficient coil penetration by the lifting bolt. SWL provides a factor of safety of approximately 4 to 1 in 3,000 psi normal weight concrete. Refer to the coil bolt chart on minimum coil bolt penetration. Consult manufactures data for values on shear and reduced edge distance. Note: Masons Supply does not recommend 1/2" diameter bolts for lifting/handling of precast concrete.

# INSERTS - FERRULE

## INSERTS

### Ferrule Loop NC Insert

The Loop Ferrule Insert is fabricated by welding a looped strut to a closed-end ferrule. The Loop Ferrule Insert is available in the sizes shown in the chart below and is well suited for structural connections and the suspension of equipment, piping, etc. Minimum spacing between inserts is twice the minimum corner distance.

No.	Size	Wire	*SWL Tension (lbs)	Min. Edge Distance	Wt (lbs)
CFI FL38	3/8" x 2-3/4"	.243	2,000	10"	.15
CFI FL12	1/2" x 2-3/4"	.243	2,000	7"	.21
CFI FL58	5/8" x 3-1/2"	.258	2,200	8"	.34
CFI FL34	3/4" x 3-1/2"	.258	2,200	8"	.38
CFI FL1	1" x 6"	.375	5,300	10"	.60

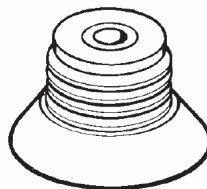
Other sizes and galv available on request.



### NC Plastic Threaded Plugs

The Threaded Plastic Plug is manufactured with National Course (NC) threads to fit 3/8", 1/2", 5/8", 3/4", 7/8" and 1" NC threaded inserts. A hole is provided through the plug that may be used to attach (nail) the plug to the form.

No.	Size	Wt (lbs)
CFI FP38	3/8"	.005
CFI FP12	1/2"	.007
CFI FP58	5/8"	.009
CFI FP34	3/4"	.010
CFI FP1	1"	.012



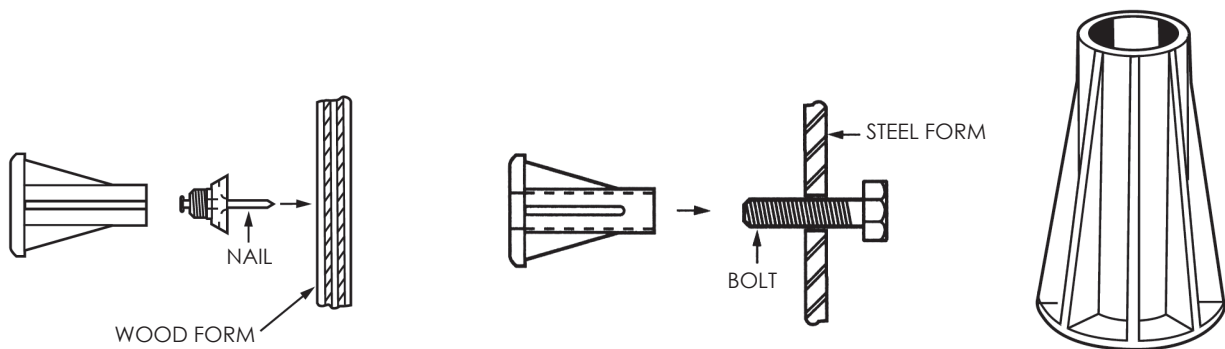
\*SWL is based on 1/2" set back from face of concrete SWL provides a factor of safety of approximately 3 to 1 in 3,000 psi normal weight concrete. Consult manufactures data on values on shear and reduced edge distance. Not for use as a lifting insert. Note: Masons Supply does not recommend 1/2" diameter bolts for lifting/handling of precast concrete.

## Nylon Threaded NC Inserts

Nylon Threaded Inserts are mineral-filled nylon inserts designed for attaching, suspending and fastening objects to precast concrete. They provide the precast manufacturer with an excellent, cost effective fastening system. They are economical, light weight, easy to handle and use, and are available in five bolt diameters. Typical applications include lifting insert for light loads; securing handles of burial vaults; securing mechanical equipment or telephone booths to concrete pads; fastening cable holders to utility poles; securing benches, picnic tables, and other landscape items to concrete bases; and suspending pipes, conduits, and other utilities from concrete panels and ceilings.

No.	Size	Length	Min. Edge Distance	*SWL Tension (lbs.)	Wt (lbs.)	Qty/Ctn
CFI PI14	1/4"	1-1/2"	3"	1,000	.026	1000
CFI PI38	3/8"	1-1/2"	3"	1,075	.020	1000
CFI PI12	1/2"	1-5/8"	3-1/2"	1,175	.048	500
CFI PI12L	1/2"	2-5/8"	5-1/2"	2,525	.080	500
CFI PI58	5/8"	3"	6"	3,375	.084	250
CFI PI34	3/4"	3-1/4"	6-1/2"	3,625	.125	200

\*SWL provides a factor of safety of approximately 3 to 1 in 5,000 psi normal weight concrete.



# INSERTS - FERRULE

## INSERTS

### NC Precast Concrete Inserts

Star Inserts are precision die-cast of zinc alloy and have excellent resistance to atmospheric conditions. These inserts are particularly suited for use in precast concrete elements and can be quickly secured to the form with an appropriately sized NC bolt. The Star Insert can also be nailed to the form utilizing the Star Adapter Plug.

Star Inserts are excellent inserts for securing machinery and equipment, for suspending piping and supporting railing/poles.

Two different types of inserts are available:

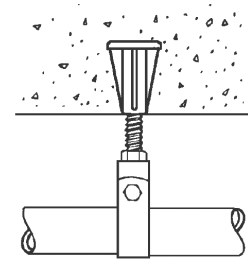
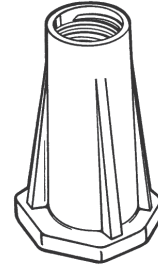
**Standard** - Insert has a closed bottom to prevent concrete from entering the insert.

**Open Bottom** - Threads run the full depth of the insert.

No.	Size	Length	*SWL Tension (lbs)	Wt (lbs)	Qty/Ctn
CFI FS38	3/8"	1-3/8"	1,200	0.25	400
CFI FS12	1/2"	2-7/8"	2,050	0.30	50
CFI FS58	5/8"	2-7/8"	2,500	0.40	50
CFI FS34	3/4"	3"	3,125	0.50	50

\*SWL provides a factor of safety of approximately 3:1.

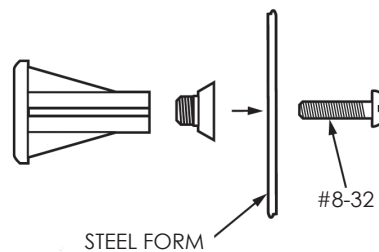
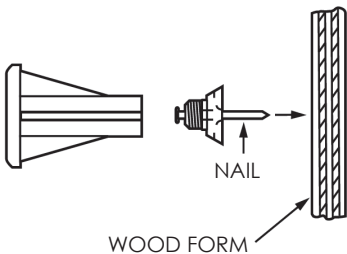
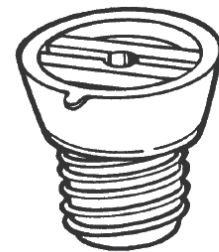
Minimum concrete compression strength 3,000 psi.



### Star Adapter Plug

The Star Adapter Plug is available in all Star Insert diameters. The plug is a setting plug for installing the insert into precast forms. Its use effectively seals the insert against concrete seepage. Before each use, coat the side of the plug as well as the threaded portion with a form release or water resistant grease. This will allow the plug to be easily removed from the concrete. The plug may be ordered with a 1/8" diameter smooth hole, for use in nailing to wood forms or a #8-32 threaded hole for attaching to steel forms.

No.	Size	Wt (lbs)	Qty/Ctn
CFI FSP38	3/8"	.02	500
CFI FSP12	1/2"	.04	100
CFI FSP58	5/8"	.08	100
CFI FSP34	3/4"	.11	100





# INSERTS - FERRULE

M A S C O . N E T

**INSERTS**

## Straight Ferrule Loop

The Ferrule Loop Insert is manufactured by welding a wire loop to a steel ferrule which has been machined from bar stock. One end of the ferrule is closed, while the other end is drilled and tapped to accept an NC threaded bolt. Typically, this insert is used to attach a precast wall panel to a building frame, as well as provide attachment of other structural elements that may be required.

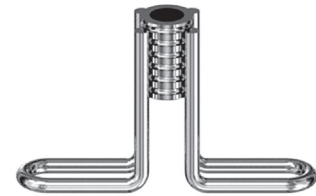


No.	Size	Wire	SWL Tension (lbs)	Min. Edge Distance	Wt (lbs)
CFI FLS124	1/2" x 4-1/8"	.223	3,000	9"	.25
CFI FLS126	1/2" x 6-1/8"	.306	4,000	9"	.38
CFI FLS584	5/8" x 4-1/8"	.223	3,000	9"	.35
CFI FLS586	5/8" x 6-1/8"	.306	5,000	11"	.48
CFI FLS344	3/4" x 4-1/8"	.223	3,000	9"	.54
CFI FLS346	3/4" x 6-1/8"	.306	5,000	11"	.67
CFI FLS786	7/8" x 6-1/8"	.306	5,000	11"	.75
CFI FLS16	1" x 6-1/8"	.306	5,000	11"	.75

Other sizes and galv available on request.

## Thin Slab NC (Wing Insert)

The Flared Thin Slab Insert was designed for use in thin precast concrete elements or for conditions where a longer insert cannot be used. This insert is closed at the back end of the ferrule to keep concrete from getting into the threads. The ferrule will accept only NC threaded bolts of appropriate diameters.



No.	Size	Wire	SWL Tension (lbs)	Min. Edge Distance	Wt (lbs)
CFI FTS122	1/2" x 1-7/8"	.223	1,200	6"	0.25
CFI FTS582	5/8" x 2-7/16"	.306	2,500	7"	0.44
CFI FTS342	3/4" x 2-7/16"	.306	2,650	6"	0.48
CFI FTS343	3/4" x 3-5/8"	.306	4,500	9"	0.66
CFI FTS12	1" x 2-7/16"	.306	3,080	6"	0.86
CFI FTS13	1" x 3-1/2"	.375	4,500	8"	1.00
CFI FTS14	1" x 4-5/8"	.306	6,500	11"	1.10

Other sizes and galv available on request.

## Open Coil Insert N/C Thread

The Expanded Coil Ferrule Inserts were developed as a more effective means for increasing the insert's tensile capacity, without increasing its depth of embedment. By increasing the width of the base, the volume of the resisting shear cone is significantly increased. The expanded pitch coils welded to the more deeply embedded end of the insert serve to distribute the applied loads over a larger volume of concrete. Available in longer lengths, as required. Minimum spacing between inserts is twice the corner spacing.



No.	Size	Wire	SWL Tension (lbs)	Min. Edge Distance	Wt (lbs)
CFI FOC34	3/4" x 4-5/8"	.375	4,250	6"	0.55
CFI FOC1	1" x 5-5/8"	.440	6,250	8"	1.20
CFI FOC114	1-1/4" x 7-5/8"	.440	9,920	10"	3.20

Other sizes and galv available on request.

**Hot Dipped Galv**

CFI FOC34HDG	3/4" x 4-5/8"	.375	4,250	6"	0.60
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SWL is based on 1/2" set back from face of concrete SWL provides a factor of safety of approximately 3 to 1 in 3,000 psi normal weight concrete. Consult manufactures data on values on shear and reduced edge distance. Not for use as a lifting insert. Note: Masons Supply does not recommend 1/2" diameter bolts for lifting/handling of precast concrete.

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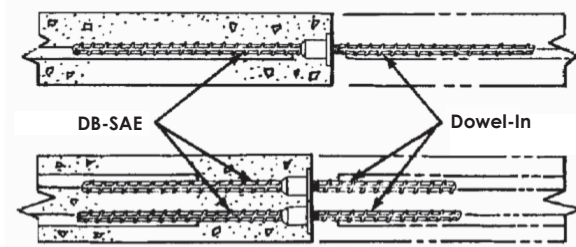
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# DOWEL BAR SUBSTITUTE



## SPLICING



### DB-SAE

The DB-SAE Splicer is a one-piece unit integrally forged from grade 60 rebar material. It is available in #4 through #11 size and is designed to achieve 150 percent of specified yield (full mechanical ultimate). Meets ASTM A706. DB-SAEs are available straight (cut to length), hooked, double-ended, thread-ended or bolt-headed in plain or epoxy coated. It is also possible to order the Splicer with a reduced washer and/or a clipped washer. Stock sizes are in #4 thru #8 Bar. We can bend to requirements. Other sizes available upon request.

No.	Size	Wt (lbs)
RC 424DB	#4 x 24"	1.50
RC 430DB	#4 x 30"	1.90
RC 436DB	#4 x 36"	2.20
RC 448DB	#4 x 48"	3.00
RC 524DB	#5 x 24"	2.30
RC 530DB	#5 x 30"	2.80
RC 536DB	#5 x 36"	3.30
RC 548DB	#5 x 48"	4.30
RC 624DB	#6 x 24"	3.40
RC 630DB	#6 x 30"	4.20
RC 636DB	#6 x 36"	4.90
RC 648DB	#6 x 48"	6.40
RC 730DB	#7 x 30"	5.20
RC 736DB	#7 x 36"	6.25
RC 748DB	#7 x 48"	8.30
RC 848DB	#8 x 48"	10.90

Other sizes available on request.

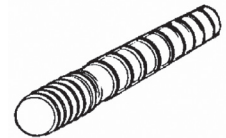


### Dowel-In

DI's are manufactured from grade 60 rebar material and available in sizes corresponding to the DB-SAE Splicer. It is available in #4 through #11. Meets ASTM A706. The end of the Dowel-In is enlarged by forging before threading so that the cross-sectional area of the bar is not reduced during threading operations, thus assuring a strength capacity of 150 percent of the specified yield. Dowel-Ins are configured to facilitate easy installation of the splice. They can be easily assembled by hand. On large projects, such as highway paving, a centrifugal chuck on an electric or air powered drill motor will speed installation. Dowel-Ins are available straight or hooked, plain or epoxy coated. Stocked sizes #4 thru #8.

No.	Size	Wt (lbs)
RC 424DI	#4 x 24"	1.40
RC 430DI	#4 x 30"	1.70
RC 436DI	#4 x 36"	2.00
RC 448DI	#4 x 48"	2.80
RC 524DI	#5 x 24"	2.10
RC 530DI	#5 x 30"	2.60
RC 536DI	#5 x 36"	3.20
RC 548DI	#5 x 48"	4.20
RC 624DI	#6 x 24"	3.00
RC 630DI	#6 x 30"	3.75
RC 636DI	#6 x 36"	4.50
RC 648DI	#6 x 48"	6.00
RC 730DI	#7 x 30"	5.15
RC 736DI	#7 x 36"	6.15
RC 748DI	#7 x 48"	8.20
RC 848DI	#8 x 48"	10.70

Other sizes available on request.

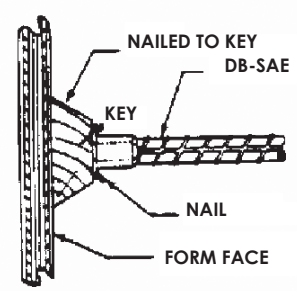
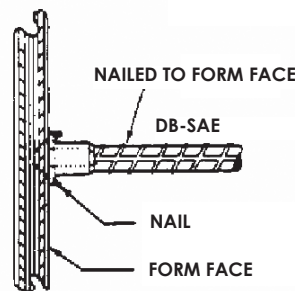


### Combination DI/DB-SAE

Combination Dowel-In on one end and DB-SAE on the other end. Designed for emergency field adjusted lengths.

No.	Size	Wt (lbs)
RC 4120COMBO	#4 x 120"	7.00
RC 5120COMBO	#5 x 120"	10.60
RC 6120COMBO	#6 x 120"	15.40
RC 7120COMBO	#7 x 120"	20.60
RC 8120COMBO	#8 x 120"	27.00

### TYPICAL SETTING METHODS



ICC and SWL information available on request.





# DOWEL BAR SUBSTITUTE

M A S C O . N E T

**SPLICING**

## Dowel Bar Substitute Chart:

SPECIFIED OR REQUIRED BAR SIZE				RECOMMENDED DOWEL BAR SPLICER AND DOWEL-IN SIZES						
Grade 60 Rebar Loads-lbs. (Kn)								Grade 60 Rebar Loads-lbs. (Kn)		
Bar Size	$P_y$	$1.25 P_y$	Pult	System Thread Size	DB-SAE Bar Size	Dowel-In Bar Size	System Min. Stress Area	$P_y$	$1.25 P_y$	Minimum $P_{ult}$ Range=95% $F_u$ Actual or 140% $F_u$ Specified**
#4	12,000	15,000	18,000	5/8" 11 UNC	#4	#4	.20"	12,000	15,000	19,200
#5	18,600	23,250	27,900	3/4" 10 UNC	#5	#5	.31"	18,600	23,250	27,760
#6	26,400	33,000	39,600	7/8" 9 UNC	#6	#6	.44"	26,400	33,000	42,400
#7	36,000	45,000	54,000	1" 8 UNC	#7	#7	.60"	36,000	45,000	57,600
#8	47,400	59,250	71,100	1-1/8" 8 UN	#8	#8	.79"	47,400	59,250	75,840
#9	60,000	75,000	90,000	1-1/4" 8 UN	#9	#9	1.00"	60,000	75,000	96,000
#10	76,200	95,250	114,000	1-7/16" 8 UN	#10	#10	1.27"	76,200	95,250	121,920
#11	93,600	117,000	140,400	1-9/16" 8 UN	#11	#11	1.56"	93,600	117,000	149,760

$P_y$  = Minimum Yield Strength of bar.

\* 5/8", 3/4", 7/8" and 1" sizes have UNC Threads.

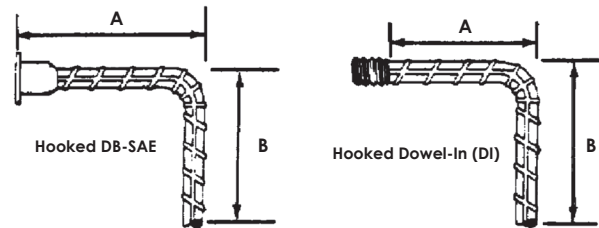
1-1/8" and larger sizes are equipped with UN Threads.

\*\*Loads shown based on 160%  $f_u$  specified.

### Hooked Splicer Hooked Dowel-In

Hooked dowels may be substituted with a hook DB-SAE or hooked Dowel-In. Hooked DB-SAEs and DIs will meet or exceed those requirements as defined in ACI 318. All bars are bent using the appropriate pin diameter. (See the table for dimensions). The "B" dimension can be any length necessary to meet building requirements.

### Hooked Splicer and Hooked Dowel-In



Bar	#4	#5	#6	#7	#8	#9	#10	#11
Min. "A" Dim.	5" (127)	5" (127)	6" (152)	7" (178)	9" (229)	12" (304)	14" (355)	15" (370)
Bend Dia.	6 d					8 d		

ICC and SWL information available on request.

**MASONS SUPPLY COMPANY**

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**199**

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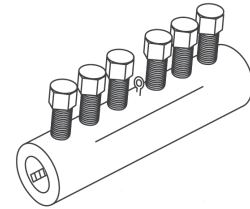
# REBAR COUPLER



## SPLICING

### Barlock S/CA-Series Couplers

Designed for use in most tension and compression applications. They are available in rebar sizes #4 through #18 and exceed 135% of specified yield of Grade 60 rebar. S/CA couplers are an approved Caltrans "Service" splice and are recognized by ICC, ACI and most State departments of Transportation. S/CA couplers are available in transition sizes, weldable half couplers and epoxy coated.

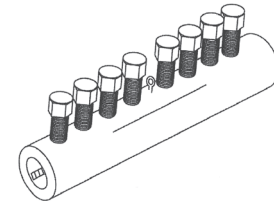


Coupler Designation	For Use on Rebar Size (in./mm)	Tube Specifications			Bolt Specifications			
		Outside Diameter (in.)	Length (in.)	Weight (lbs.)	Bolt Qty.	Head Size (in.)	Nominal Shear Torque*	Min. % Fy
BS 4SCA	#4-13M	1.3	3.9	1.0	2	0.5	40	135
BS 5SCA	#5-16M	1.7	4.5	1.8	2	0.5	80	135
BS 6SCA	#6-19M	1.9	6.3	3.5	3	0.5	80	135
BS 7SCA	#7-22M	1.9	8.0	4.1	4	0.5	80	135
BS 8SCA	#8-25M	2.2	10.2	7.6	4	0.625	180	135
BS 9SCA	#9-29M	2.9	9.0	11.4	3	0.75	280	135
BS 10SCA	#10-32M	2.9	11.5	15.5	4	0.75	350	135
BS 11SCA	#11-36M	3.1	14.0	20.5	5	0.75	350	135
BS 14SCA	#14-43M	3.5	16.5	26.0	6	0.75	350	135
BS 18SCA	#18-57M	4.3	27.1	60.0	10	0.75	475	135

\*Foot pounds

### Barlock L-Series Couplers

Similar to the standard Coupler but is designed for use when higher loads are required, such as extreme tension/compression application and/or seismic loading conditions. L-Series couplers are available in rebar sizes #4 through #14 and exceed 160% of specified yield of Grade 60 rebar. L-series couplers are approved for use by most state DOTs, are recognized as an ICC Type 2 seismic splice, and meet ACI specifications. L-Series couplers are also available in transition sizes, weldable half couplers and epoxy coated.



Coupler Designation	For Use on Rebar Size (in./mm)	Tube Specifications			Bolt Specifications			
		Outside Diameter (in.)	Length (in.)	Weight (lbs.)	Bolt Qty.	Head Size (in.)	Nominal Shear Torque*	Min. % Fy
BS 4BLL	#4-13M	1.3	5.5	1.6	3	0.5	40	160
BS 5BLL	#5-16M	1.7	6.3	2.8	3	0.5	80	160
BS 6BLL	#6-19M	1.9	8.0	4.5	4	0.5	80	160
BS 7BLL	#7-22M	1.9	9.8	5.5	5	0.5	80	160
BS 8BLL	#8-25M	2.2	12.3	9.5	5	0.625	180	160
BS 9BLL	#9-29M	2.9	11.5	15.5	4	0.75	280	160
BS 10BLL	#10-32M	2.9	14.0	19.5	5	0.75	410	160
BS 11BLL	#11-36M	3.1	16.5	24.0	6	0.75	410	160
BS 14BLL	#14-43M	3.5	19.1	32.0	7	0.75	410	160

\*Foot pounds

**200**

**MASONS SUPPLY COMPANY**

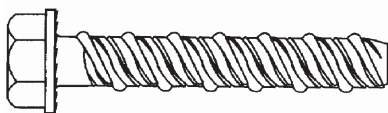
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### Wedge-Bolt

Wedge-Bolt anchors are one piece units featuring a finished hex head formed with an integral washer, a patented dual lead thread, and a chamfered tip. A one piece design eliminates the possibility of lost anchor parts or improper assembly. Wedge-Bolt anchors are vibration resistant. Unlike traditional anchors that have a small expansion mechanism, the double lead threads grip a large portion of the embedment length and there are no expansion forces to pulverize the concrete. For additional vibration resistance, the ratchet teeth on the underside of the hex washer head lock against the fixture. Wedge-Bolt anchors are easy to remove, leaving a neat clean hole. Unlike traditional anchor types, they can be removed to accommodate installation errors such as improperly drilled or unclear anchor holes. Can be installed at a shallower embedment than traditional wedge or sleeve anchors reducing the chance of striking reinforcing bars or embedded cables. Drilling time and bit wear can be reduced resulting in significant savings. These anchors are versatile and can be used in a variety of base materials. This eliminates the need to stock assorted anchor types and learn a variety of installation procedures. Wedge-Bolt anchors are manufactured from heat treated carbon steel that is plated with commercial bright zinc and a supplementary chromate treatment in accordance with ASTM Specification B-633,SC1,Type III. **Wedge Bolts must be used with Wedge Bits. Carbon Steel - Zinc Plated**

No.	Size	Min. Embed.	Std Box	Wt (lbs)
RL 7204	1/4" x 1-1/4"	1"	100	.025
RL 7206	1/4" x 1-3/4"	1"	100	.033
RI 7208	1/4" x 2-1/4"	1"	100	.043
RL 7210	1/4" x 3"	1"	100	.055
RL 7220	3/8" x 1-3/4"	1-1/2"	50	.08
RL 7222	3/8" x 2-1/2"	1-1/2"	50	.11
RL 7224	3/8" x 3"	1-1/2"	50	.12
RL 7226	3/8" x 4"	1-1/2"	50	.15
RL 7240	1/2" x 2"	1-3/4"	50	.14
RL 7242	1/2" x 2-1/2"	1-3/4"	50	.155
RL 7244	1/2" x 3"	1-3/4"	50	.21
RL 7246	1/2" x 4"	1-3/4"	50	.25
RL 7248	1/2" x 5"	1-3/4"	25	.28
RL 7250	1/2" x 6"	1-3/4"	25	.34
RL 7260	5/8" x 3"	2-1/2"	25	.28
RL 7262	5/8" x 4"	2-1/2"	25	.30
RL 7264	5/8" x 5"	2-1/2"	25	.39
RL 7266	5/8" x 6"	2-1/2"	25	.47
RL 7280	3/4" x 3"	2-1/2"	20	.48
RL 7282	3/4" x 4"	2-1/2"	20	.56
RL 7284	3/4" x 5"	2-1/2"	20	.70
RL 7286	3/4" x 6"	2-1/2"	20	.86
RL 7288	3/4" x 8"	2-1/2"	10	1.00



### SDS-Plus Wedge-Bit

No.	Size	Usable Length	Wt (lbs)
RL 1312	1/4" x 4"	2"	.09
RL 1314	1/4" x 6"	4"	.11
RL 1316	3/8" x 6"	4"	.17
RL 1318	3/8" x 8"	6"	.21
RL 1320	1/2" x 6"	4"	.23
RL 1322	1/2" x 10"	8"	.36
RL 1324	5/8" x 8"	6"	.38
RL 1326	5/8" x 12"	10"	.52
RL 1328	3/4" x 8"	6"	.42
RL 1330	3/4" x 12"	10"	.57



### Spline Wedge-Bit

No.	Size	Usable Length	Wt (lbs)
RL 1340	1/2" x 13"	8"	1.00
RL 1344	5/8" x 13"	8"	1.10
RL 1348	3/4" x 13"	8"	1.20



### SDS-Max Wedge-Bit

No.	Size	Usable Length	Wt (lbs)
RL 1354	1/2" x 13"	8"	1.00
RL 1356	5/8" x 13"	8"	1.10
RL 1358	3/4" x 13"	8"	1.20



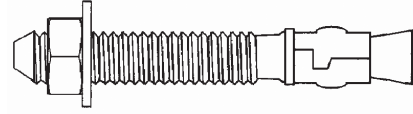
ICC and SWL information available on request.

## FASTENERS

### Wedge Anchor

A heavy-duty, all steel, expansion wedge anchor designed to work under dead and variable loads in solid concrete. A complete fastening system; anchor, nut and washer are inserted as a single unit and all at the same time.

**Carbon Steel - Zinc Plated**



No.	Size	Wt (lbs)	Qty/Ctn
RH WS1416	1/4" x 1-3/4"	.03	100
RH WS1422	1/4" x 2-1/4"	.04	100
RH WS1432	1/4" x 3-1/4"	.05	100
RH WS3822	3/8" x 2-1/4"	.08	50
RH WS3826	3/8" x 2-3/4"	.10	50
RH WS3830	3/8" x 3"	.11	50
RH WS3836	3/8" x 3-3/4"	.12	50
RH WS3850	3/8" x 5"	.15	50
RH WS1226	1/2" x 2-3/4"	.18	25
RH WS1236	1/2" x 3-3/4"	.23	25
RH WS1244	1/2" x 4-1/2"	.28	25
RH WS1254	1/2" x 5-1/2"	.32	25
RH WS1270	1/2" x 7"	.44	25
RH WS5834	5/8" x 3-1/2"	.36	10
RH WS5842	5/8" x 4-1/4"	.41	10
RH WS5850	5/8" x 5"	.47	10
RH WS5860	5/8" x 6"	.54	10
RH WS5884	5/8" x 8-1/2"	.80	10

**Also available in stainless steel.**

No.	Size	Wt (lbs)	Qty/Ctn
RH WS5870	5/8" x 7"	.62	10
RH WS3442	3/4" x 4-1/4"	.68	10
RH WS3446	3/4" x 4-3/4"	.76	10
RH WS3454	3/4" x 5-1/2"	.85	10
RH WS3462	3/4" x 6-1/4"	.95	10
RH WS3470	3/4" x 7"	.97	10
RH WS3484	3/4" x 8-1/2"	1.20	10
RH WS34100	3/4" x 10"	1.40	10
RH WS34120	3/4" x 12"	1.66	10
RH WS7860	7/8" x 6"	1.20	5
RH WS7880	7/8" x 8"	1.60	5
RH WS78100	7/8" x 10"	2.00	5
RH WS10060	1" x 6"	1.70	5
RH WS10090	1" x 9"	2.40	5
RH WS100120	1" x 12"	3.00	5
RH WS12590	1-1/4" x 9"	.60	5

**Also available in stainless steel.**

### Power Bolt

The Power Bolt is a single unit, vibration-resistant, removable anchor bolt assembly with a finished hex or flat head design. Since the anchor size is hole size, the Power Bolt eliminates layout or hole-spotting. As the anchor is driven into the hole, the slotted, over-sized annular ring on the bottom of the cone is compressed until it mates perfectly with the hole. This action prevents the anchor from spinning while it is being tightened. Carbon steel power bolt anchors are manufactured using a Grade 5 bolt. They have a commercial bright zinc finish and a supplementary chromate treatment in accordance with ASTM specification B633.

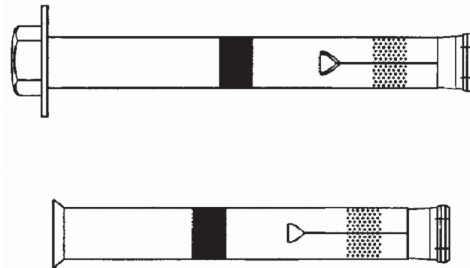
**Carbon Steel - Zinc Plated**

No.	Size	Wt (lbs)	Qty/Ctn
RL 6913	3/8" x 3"	0.11	50
RL 6916	3/8" x 4"	0.14	50
RL 6930	1/2" x 2-3/4"	0.16	50
RL 6932	1/2" x 3-3/4"	0.21	25
RL 6934	1/2" x 4-3/4"	0.26	25
RL 6956	3/4" x 7-1/4"	1.05	10
RL 6957	3/4" x 8-3/4"	1.10	10

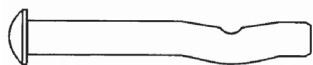
#### Flare Head

RL 6983	3/8" x 6"	0.20	50
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**Also available in stainless steel.**



ICC and SWL information available on request.



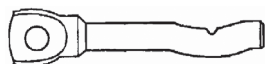
### Spike

The Spike is a patented all-steel, one piece, vibration resistant anchor for use in concrete, block, brick or stone. Using a special manufacturing process, the anchor is formed with "S" shaped configuration at the working end of the anchor to create an expansion mechanism. The spring action of the expansion mechanism is developed through the use of a heat treatment, cold working process, or die-casting depending upon the Spike style. The carbon steel Spike is manufactured from steel which is heat treated to provide a high tensile and shear strength equivalent to Grade 8.2 material. The steel is plated with commercial bright zinc and a supplementary clear chromate treatment according to ASTM B633.

#### Carbon Steel - Zinc Plated

No.	Size	Wt (lbs)	Qty/Ctn
RL 5502	3/16" x 1"	.013	100
RL 5503	3/16" x 1-1/4"	.015	100
RL 5504	3/16" x 1-1/2"	.018	100
RL 5506	3/16" x 2"	.020	100
RL 5508	3/16" x 2-1/2"	.030	100
RL 5522	1/4" x 1"	.015	100
RL 5523	1/4" x 1-1/4"	.023	100
RL 5524	1/4" x 1-1/2"	.025	100
RL 5526	1/4" x 2"	.030	100
RL 5528	1/4" x 2-1/2"	.040	100
RL 5530	1/4" x 3"	.045	100
RL 5531	1/4" x 3-1/2"	.050	100
RL 5551	3/8" x 3-1/2"	.110	25
RL 5552	3/8" x 4"	.120	25
RL 5554	3/8" x 5"	.180	25
RL 5571	1/2" x 3-1/2"	.220	50

Also available in stainless steel.



### Tie-Wire Spike

The Tie-Wire Spike is the ideal choice for installing acoustical ceiling under concrete decks. Drilled holes are smaller than conventional anchors used with eye-bolts, so installation is faster and less expensive.

#### Carbon Steel - Zinc Plated

No.	Size	Wt (lbs)	Qty/Ctn
RL 3759	1/4"	.025	100

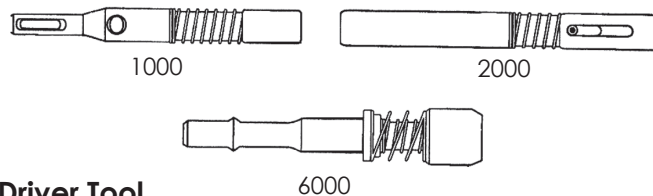


### Forming Spike

The Forming Spike is designed to securely fasten forms and related brackets to concrete and other masonry materials. It is made of through-hardened, steel which enables it to be reused several times with no loss of holding power. The double head of the Forming Spike makes removal fast and easy. Its small diameter provides quick installation and requires less time to patch the hole when removed.

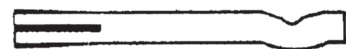
#### Carbon Steel - Zinc Plated

No.	Size	Wt (lbs)	Qty/Ctn
RL 3795	3/16" x 1-1/2"	.03	100
RL 3797	3/16" x 2-3/4"	.04	100
RL 3794	1/4" x 2-3/4"	.05	100
RH FD6234	3/16" x 2-3/4"	.03	100
RH FD8234	1/4" x 2-3/4"	.06	100



### Driver Tool

No.	Spike Size	Description
RL 3790	3/16" - 1/4"	1,000 - SDS end
RL 3791	3/16" - 1/4"	2,000 - Attaches to SDS bit
RL 3894	3/8" - 1/2"	6,000 - Spline end



### Snap Spike

A one piece, nylon anchor for use in concrete, brick or block. It is available in 1/4" x 2" for use in temporary, light duty forming applications such as tilt wall reveal strip where 1x or 2x lumber is used. The anchor is molded with an "S" shaped configuration at the working end of the anchor to create an expansion mechanism and a taper formed on the upper shank of the anchor to hold the 1x or 2x material securely in place. Once the application is completed, simply pry the lumber over the head of the anchor then shave the anchor with your scraper to snap the protruding tapered shank section off leaving the remaining portion of the anchor flush with the base material.

No.	Size	Drill Diameter	Qty/Ctn	Wt (lbs)
RL 6685	1/4" x 2"	1/4"	100	.75

ICC and SWL information available on request.

### Steel Drop-In

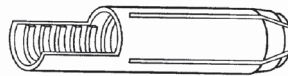
A fully assembled, highly versatile, internally expanded steel anchor for medium and heavy loads in solid concrete. Easily installed and once set the bolt, stud or threaded rod can be easily removed or replaced without affecting the Drop-In's holding power. Stocked in zinc plated.

#### Carbon Steel - Zinc Plated

No.	Size	Wt (lbs)	Qty/Ctn
<b>N/C Thread</b>			
RL 6304	1/4"	.02	100
RL 6306	3/8"	.06	50
RL 6308	1/2"	.12	50
RL 6320	5/8"	.32	25
RL 6312	3/4"	.48	10
<b>Also available in stainless steel.</b>			
<b>Coil Thread</b>			
RL 6330	1/2"	.12	50
RL 6332	3/4"	.48	10
<b>Setting Tools</b>			
RL 6305	1/4"		
RL 6307	3/8"		
RL 6309	1/2"		
RL 6311	5/8"		
RL 6313	3/4"		



n/c Thread



coil thread

### Drive Rivet

Used for attaching steel ply side rails to 1/2" plywood.

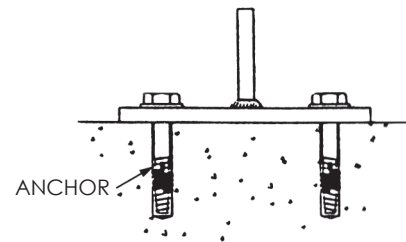
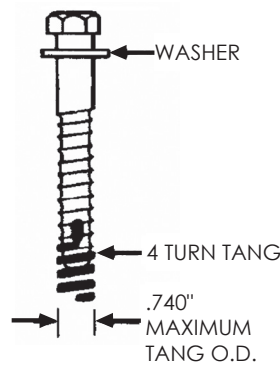
No.	Size	Qty/Ctn	Wt/Ctn (lbs)
SY 60119	1/2" Plywood	1,000	5 lbs.



### Coil Anchor

A removable 3/4" coil anchor with a hex head. Drill hole size the same as the anchor. It is also removable and reusable. Insert the assembled COIL ANCHOR through the foot plate of the pipe brace into a properly drilled hole. Tap the COIL ANCHOR bolt all the way into the hole so that the washer and bolt head rests on the foot plate of the brace. **Carbon Steel - Zinc Plated**

No.	Description	Wt (lbs)	Qty/Ctn
DS 49206	3/4" x 4-1/2"	.61	20
DS 123045	3/4" x 6"	.78	10
DS 49203	Tang only	.04	



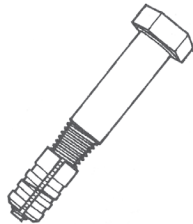
ICC and SWL information available on request.

### Taper Bolt

The new-concept concrete anchoring system, matches the capabilities of high-strength, threaded fasteners but without the usual unsightly stud. Offers high tensile and shear strength. Is also removable and reusable.

#### Carbon Steel - Zinc Plated

No.	Size	Wt (lbs)	Qty/Ctn
USE 3430	1/2" x 2-7/8"	0.20	25
USE 3431	1/2" x 4"	0.26	25
USE 3442	5/8" x 6"	0.60	25
USE 3450	3/4" x 4-1/8"	0.63	20
USE 3460	1" x 5-5/8"	1.50	10
<b>Additional Nuts:</b>			
USE 34302	1/2"	0.03	50
USE 34402	5/8"	0.05	50
USE 34502	3/4"	0.06	50
USE 34602	1"	0.16	10



### Tap-It Nylon Anchor

Functions as a one-piece anchor, toggle, blind fastener or rivet and works equally effectively in solid or hollow construction for light to medium loads in all types of material. It is noncorrosive. When using shell only and duplex nail, nail and shell can be removed. Ideal for temporary form anchoring.

No.	Size	Wt (lbs)	Qty/Ctn
<b>Mushroom Head</b>			
RL 2574	1/4" x 3" Shell Only	.005	100
RL 2523	1/4" x 1" w/Nail	.010	100
RL 2543	1/4" x 1-1/2" w/Nail	.010	100
RL 2563	1/4" x 2" w/Nail	.010	100
RL 2573	1/4" x 3" w/Nail	.230	100
<b>Flat Head</b>			
RL 2562	1/4" x 2" w/Nail	.010	100



Mushroom Head

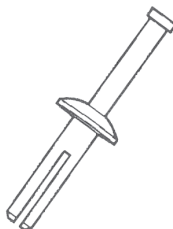


Flat Head

### Zamac Nailin

A one-piece zinc shell/steel nail drive anchor designed for light and medium loads in solid masonry.

No.	Size	Wt (lbs)	Qty/Ctn
RL 2808	1/4" x 1"	.018	100
RL 2814	1/4" x 1-1/4"	.023	100
RL 2820	1/4" x 1-1/2"	.025	100
RL 2826	1/4" x 2"	.030	100



### Pre-Cut Threaded Rod

Pre cut threaded rod, supplied with nut and washer. Use with epoxy to anchor connectors in existing concrete and masonry. B7 high strength, zinc plated rod is supplied with nut and hardener washer.

#### Carbon Steel - Zinc Plated

No.	Size	Wt (lbs)	Qty/Ctn
RL 6022	3/8" x 5-1/8"	0.14	10
RL 6023	1/2" x 6-1/2"	0.30	10
RL 6024	5/8" x 7-1/2"	0.55	10
RL 6025	3/4" x 9-5/8"	1.00	10
RL 6026	7/8" x 10-1/4"	1.45	10
RL 6027	1" x 12"	2.13	-



ICC and SWL information available on request.

# DRILL BITS

## FASTENERS

No.	Diameter	Usable Length	Wt (lbs)
TDR RB-8	1/2"	12"	0.50
TDR RB-10	5/8"	12"	0.60
TDR RB-12	3/4"	12"	0.70
<b>Removable Shank</b>			
TDR RB-14	7/8"	12"	0.90
TDR RB-16	1"	12"	1.10
TDR RB-14HO	7/8"	Head only	0.40
TDR TDS-2-12	1/2"	Shank only	0.50

### Rebar Eater

The answer to drilling through rebar in concrete! No more broken or shattered hammer bits; now you can drill through the rebar and not have to relocate the hole to avoid the rebar. Usable length 12".



No.	Size	Usable Length	Wt (lbs)
TDR 207-3-4	3/16" x 4-1/2"	2-1/2"	0.01
TDR 207-3-10	3/16" x 10"	8"	0.20
TDR 207-3-14	3/16" x 14"	12"	0.20
TDR SR055	7/32" x 14"	12"	0.20
TDR 207-4-4	1/4" x 4"	2"	0.01
TDR 207-4-6	1/4" x 6"	4"	0.10
TDR 207-4-14	1/4" x 14"	12"	0.30
TDR 207-6-6	3/8" x 6"	4"	0.20
TDR 207-6-10	3/8" x 10"	8"	0.21
TDR 207-6-14	3/8" x 14"	12"	0.40
TDR 207-7-12	7/16" x 12"	10"	0.50
TDR 207-8-6	1/2" x 6"	4"	0.30
TDR 207-8-10	1/2" x 10"	8"	0.40
TDR 207-8-14	1/2" x 14"	12"	0.60
TDR 207-9-12	9/16" x 12"	10"	0.60
TDR 207-10-8	5/8" x 8"	6"	0.50
TDR 207-10-14	5/8" x 14"	12"	0.80
TDR 207-11-10	11/16" x 10"	8"	0.60
TDR 207-12-8	3/4" x 8"	6"	0.60
TDR 207-12-14	3/4" x 14"	12"	1.00
<b>Other sizes available on request.</b>			

### SDS-Plus

SDS-Plus carbide bits are designed for use in a rotary hammer equipped with an SDS (slotted drive shaft) type chuck. The bits can be used to drill concrete, block, brick, and soft stone.



No.	Size	Usable Length	Wt (lbs)
TDR MX-7-14	7/16" x 14"	8"	0.80
TDR MX-8-14	1/2" x 14"	8"	0.90
TDR MX-9-14	9/16" x 14"	8"	1.00
TDR MX-10-14	5/8" x 14"	8"	1.10
TDR MX-11-14	11/16" x 14"	8"	1.10
TDR MX-12-14	3/4" x 14"	8"	1.20
TDR MX-14-14	7/8" x 14"	8"	1.40
TDR MX-16-14	1" x 14"	8"	1.70
<b>Other sizes available on request.</b>			

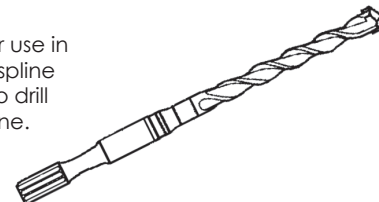
### SDS-Max

SDS-Max hammer bits are designed for faster smoother drilling and longer lasting. Precise hole location, easy start center point. These bits are heat-treated, shot-peened, superior steel. It's flute design is ultra efficient for dust removal.

No.	Size	Usable Length	Wt (lbs)
TDR 202-8-14	1/2" x 14"	8"	1.00
TDR 202-10-14	5/8" x 14"	8"	1.10
TDR 202-12-14	3/4" x 14"	8"	1.20
TDR 202-14-14	7/8" x 14"	8"	1.40
TDR 202-16-14	1" x 14"	8"	1.70
<b>Other sizes available on request.</b>			

### Spline

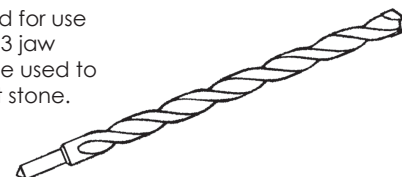
Spline carbide bits are designed for use in a rotary hammer equipped with a spline type chuck. The bits can be used to drill concrete, block, brick, and soft stone.



No.	Size	Usable Length	Shank	Wt (lbs)
TDR SM201	3/16" x 12"	10"	3/16"	0.10
TDR SM301	3/16" x 18"	16"	3/16"	0.50
TDR SM202	7/32" x 12"	10"	7/32"	0.40
TDR SM302	7/32" x 18"	16"	7/32"	0.50
TDR RT-4-12	1/4" x 12"	10"	1/4"	0.20

### Straight

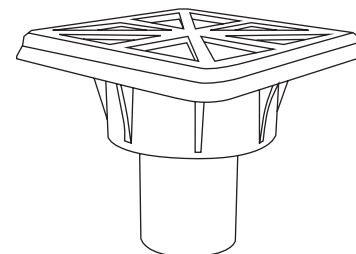
Straight shank drill bits are designed for use in a hammer drill equipped with a 3 jaw Jacobs type chuck. The bits can be used to drill concrete, block, brick and soft stone.





## Rebar Safety Cap

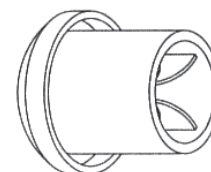
A self-centering, formed steel insert seated in a high-impact plastic cover, with a 16 sq. inch top surface area perpendicular to the rebar and designed for maximum protection. Approved by California OSHA #C1718AG and OSHA 1723AG. Complies with Federal OSHA 701 (b). Federal OSHA has ruled that if cover is in compliance with Cal OSHA, then it conforms to Fed. 701 (b).



No.	Rebar Size	Wt (lbs)	Qty/Ctn
CFA DISCUSA	#3 to #7	.44	25
CFA HHM	#7 to #11	.48	25

## Horizontal

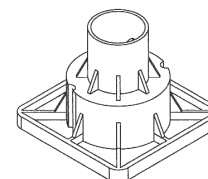
A safe solution to covering the ends of exposed rebar. Also works well on smooth bar or exposed threaded rods. **Not to be used for impalement protection.**



No.	Rebar Size	Wt (lbs)	Qty/Ctn
DD BG10	#3 to #8	.08	250
DD BG20	#9 to #18	.12	50

## SUPROTEK®

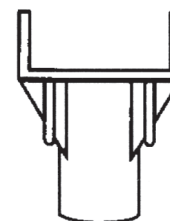
These rebar guards contain a curved steel plate which provides protection against falls that occur from an angle, preventing hazardous impalement. CAL OSHA approved per #1716AG. To be used only up to 7-1/2 feet.



No.	Rebar Size	Wt (lbs)	Qty/Ctn
DD PC110	#3 to #8	.53	100
DD PC200	#9 to #14	.72	50

## 2x4 Rebar Cap

Made of rugged, sturdy and reusable plastic. When used properly, will withstand a 250 pound weight dropped from 10 feet without the rebar protruding. Works in vertical, incline and horizontal applications. Meets CAL-OSHA 1712 requirements. When force is applied, the impact is distributed evenly over the entire length of the lumber.



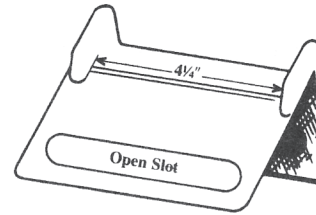
No.	Rebar Size	Wt (lbs)	Qty/Ctn
DD CARNIE	#3 to #9	.22	100

## PLASTICS

### Chain Guards

Protect precast/prestressed units during transportation. Prevents chains or strapping from slipping over panel face.

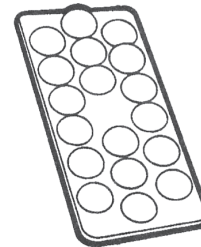
No.	Size	Qty/Ctn	Wt/Ctn (lbs)
PK CG425	4-1/2"	100	25.0



### Panel Pads

Protect architectural precast/prestressed units from discoloration, cracking, chipping and breakage during storage, packing and shipping. Available in standard and heavy duty.

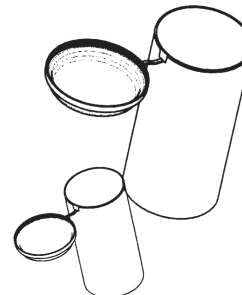
No.	Size	Qty/Ctn	Wt/Ctn (lbs)
<b>Standard</b>			
AZ PP	2-1/2" x 6"	250	45.0



### Test Cylinders

Concrete Test Cylinders meet all ASTM and AASTHO Standards. Made of durable plastic. Supplied with lids.

No.	Size	Qty/Ctn	Wt/Ctn (lbs)
TTE T6	6" x 12"	24	18.0
TTE T4	4" x 8"	36	12.0



## Prestress Sheathing

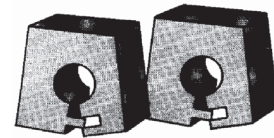
Designed to debond prestressed strand easily and economically. (Slit)



No.	Size	Qty/Ctn	Wt/Ctn
PK PRS30	1/2" x 10'	300	75.0

## Recess Plugs

For forming voids quickly and easily around ends of prestressed strands.

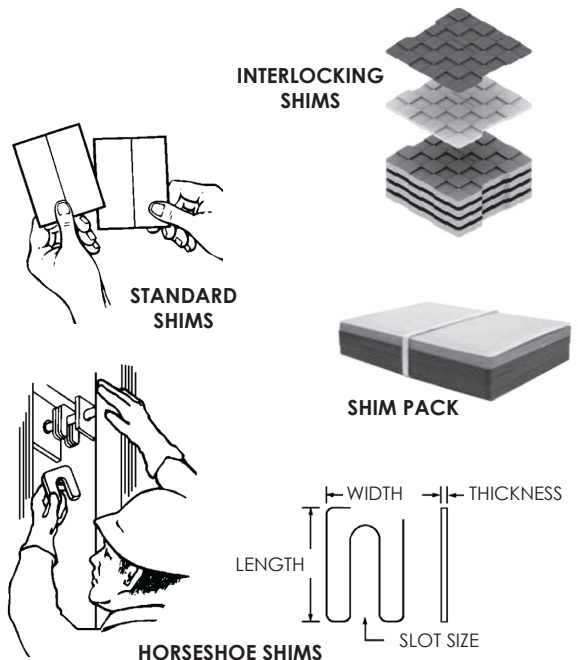


No.	Size	Qty/Ctn	Wt/Ctn
PK RP	1-1/8" x 1-1/8" x 3/4"	6,000	7.0

## Shims - Plastic

A non-corrosive, non-staining, color coded and non-slip textured surface shims. For leveling concrete units during erection.

No.	Size	Type	Wt (lbs)	Qty/Ctn	Wt/Ctn (lbs)
CT 11646S	1/16" x 4" x 6"	Standard	.09	800	72.00
CT 1446S	1/4" x 4" x 6"	Standard	.33	200	66.00
CT 1846S	1/8" x 4" x 6"	Standard	.19	400	76.00
MB 116PS	1/16" x 2" x 3"	Interlocking	.02	1000	20.00
MB 12PS	1/2" x 2" x 3"	Interlocking	.09	125	11.25
MB 14PS	1/4" x 2" x 3"	Interlocking	.05	250	12.50
MB 18PS	1/8" x 2" x 3"	Interlocking	.03	500	15.00
<b>Shim Pack</b>					
CT 111646SP	1 ea. 1/16", 3 ea. 1/4", 2 ea. 1/8", 1.0 ea 4" x 6"				
<b>Horseshoe Shims (with 1/2" slot)</b>					
CT HS14	1/4" x 2" x 1.5"	Horseshoe	.02	1000	12.00
CT HS18	1/8" x 2" x 1.5"	Horseshoe	.01	1000	9.00
CT HS116	1/16" x 2" x 1.5"	Horseshoe	.01	1000	5.00



# ANCHOR BOLTS

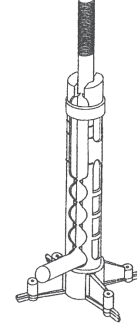


## POUR IN PLACE

### Anchor Bolt Holder

Fits 1/2" to 3/4" diameter anchor bolts. Anchor bolt locks into e-z bolt sleeve with locking ring and is then placed into the base. Unique design allows for vertical height adjustment of anchor bolts. Assures proper placement of anchor bolts on elevated slabs. Base Plate holder attaches to the decking by nail or staple.

No.	Qty/Ctn	Wt/Ctn (lbs)
AZ ABH	100	16.0



### Anchor Bolts

Anchor bolts are fabricated from low carbon steel for use in the limited load requirements of a foundation bolt. Available in 1/2", 5/8" and 3/4" diameters with national course thread. All sizes are furnished with N.C. nut only.

No.	Size	Wt (lbs)	Qty/Bag
CT 126BOLT	1/2" x 6"	0.35	100 pcs
CT 128BOLT	1/2" x 8"	0.45	100 pcs
CT 1210BOLT	1/2" x 10"	0.51	100 pcs
CT 1212BOLT	1/2" x 12"	0.61	100 pcs
CT 588BOLT	5/8" x 8"	0.70	50 pcs
CT 5810BOLT	5/8" x 10"	0.82	50 pcs
CT 5812BOLT	5/8" x 12"	1.0	50 pcs
CT 348BOLT	3/4" x 8"	1.1	50 pcs
CT 3410BOLT	3/4" x 10"	1.3	50 pcs
CT 3412BOLT	3/4" x 12"	1.5	50 pcs
<b>Hot Dipped Galvanized</b>			
CT 1210BOLTHD	1/2" x 10"	0.51	100
CT 5810BOLTHD	5/8" x 10"	0.82	50
CT 5812BOLTHD	5/8" x 12"	1.0	50
CT3410BOLTHD	3/4" x 10"	1.3	50
CT 3412BOLTHD	3/4" x 12"	1.5	50
<b>Other sizes available on request.</b>			



### Washers

Washers are used with all sizes of bolts and rod. The washers are fabricated from carbon steel.

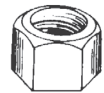
No.	Size	Wt (lbs)
CT 12WASH	1/2"	0.04
CT 58WASH	5/8"	0.08
CT 34WASH	3/4"	0.11
CT 1WASH	1"	0.17
CT 114WASH	1-1/4"	0.21



### Nuts - N/C

Nuts are used with all sizes N/C bolts and rod, the nuts are fabricated from carbon steel.

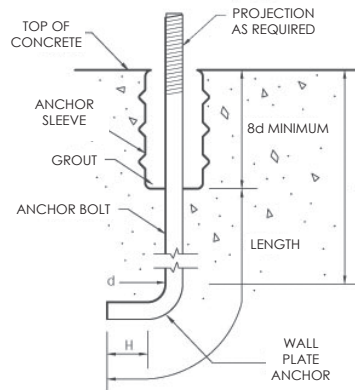
No.	Size	Wt (lbs)
CT 12NUT	1/2"	0.04
CT 58NUT	5/8"	0.08
CT 34NUT	3/4"	0.12
CT 1NUT	1"	0.32



### Anchor Bolt Sleeve

The unique high-density polyethylene plastic design provides flexibility. If sizing is required, simply cut the sleeve at the gage line as shown. Anchor Bolt Sleeves provide a grout pocket around the anchor bolt to allow the bolt to be positioned exactly. They provide a quick, easy way to make final adjustments and a clean pocket for grouting at lower cost than other methods.

No.	Bolt Size	Sleeve Size	Wt (lbs)	Qty/Ctn
SI 1701	1/2", 3/4"	2" x 5"	0.10	100
SI 1704	5/8", 3/4", 7/8"	2" x 7"	0.10	100
SI 1706	1", 1-1/4"	3" x 10"	0.26	50
SI 1708	1-1/2", 1-3/4"	4" x 15"	0.60	20
SI 1710	2", 2-1/4"	4" x 18"	0.75	20



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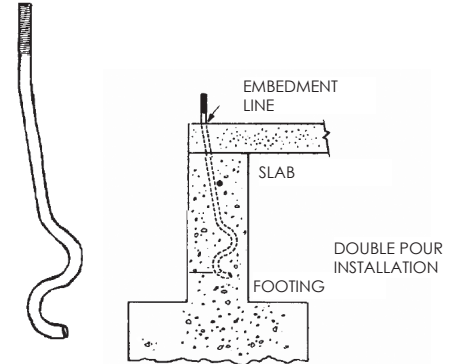
M A S C O . N E T

# ANCHOR BOLTS

**POUR IN PLACE**

## Stab Bolts

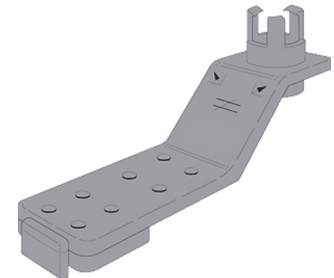
The Stab Anchor Bolt is the first tested and inspected friendly anchor bolt for holdowns. Extensive testing has been done to determine the design load capacity at a common application, the garage stem wall. Special features include; Rolled threads for higher tensile capacity; Offset angle reduces side bursting and provides more concrete cover; Stamped bolt head for identification after pour; Stamped embedded line to aid installation; and, Configuration results in minimum rebar interference. Suitable for monolithic and two pour installations. Nuts and washers are not supplied.



No.	Description	USP EQ	KC EQ	Wt (lbs)	Qty/Ctn
SS SSB16	5/8" x 17-5/8"	STB16	KCAB16	1.38	50
SS SSB20	5/8" x 21-5/8"	STB20	KCAB20	1.65	50
SS SSB24	5/8" x 25-5/8"	STB24	KCAB24	1.94	50
SS SSB28	7/8" x 29-7/8"	STB28	KCAB28	4.53	50
SS SSB34	7/8" x 34-7/8"	STB34	KCAB34	5.34	50
SS SSB36	7/8" x 36-7/8"	STB36	KCAB36	5.65	50

## Stab Bolt Holder

Designed to hold the anchor in place before the concrete pour, as required in some jurisdictions. Built-in 2x4 and 2x6 stops eliminate measuring. Elevated bolt grippers allow easy trowel finishing. Color-coded for easy size identification. Lightweight, durable and easy to use. Reusable yet cost-efficient for single application. Threaded grippers hold each bolt in the exact same location and height. They secure bolt in place without nut for quicker set-up and tear-down, and protect threads from splashing concrete. Use the 5/8" and 7/8" Anchor Bolt Holders to secure the SSTB to the formboard before the concrete pour. Available in 100 per carton.

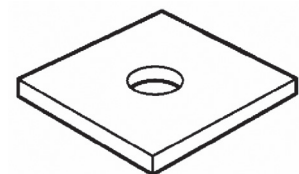


No.	Dia	Color	Wt (lbs)
CT AM58	5/8	Blue	7.15
CT AM78	7/8	Green	7.15

## Plate Washers

Used with anchor bolts to provide adequate bearing against wood members.

No.	Size	Rod Diameter	Wt (lbs)	Qty/Ctn
PW 122	2" x 2" x 3/16"	1/2"	0.20	100
<b>Hot Dipped Galvanized Finish</b>				
PW 582HD	2" x 2" x 3/16"	5/8"	0.75	50
PW 123HD	3" x 3" x 1/4"	1/2"	0.60	50
PW 343HD	3" x 3" x 1/4"	3/4"	0.50	50
PW 583HD	3" x 3" x 1/4"	5/8"	0.60	50



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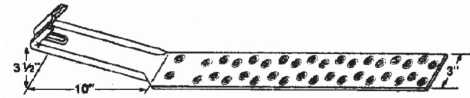
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# HOLD DOWNS

## POUR IN PLACE

### Strap Anchors

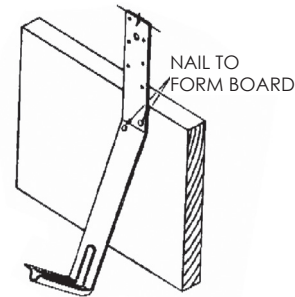
Strap Anchors are made of 12 gauge galvanized steel. Meets specifications for a variety of wood-to-concrete or applications including seismic anchorage for concrete walls-to-floor details. For anchor down use, the SSAD series has a 1 piece design, no separate anchors are required. Supplied with zinc plated finish.



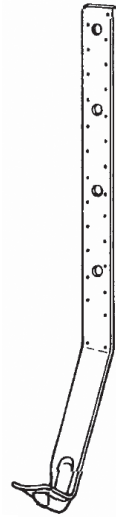
No.	Description	Simp EQ	KC EQ	USP EQ	Wt (lbs)	Qty/Ctn
CT SSAD10	10" x 12 ga.	STHD10	SSAD10	STAD10	3.16	10
CT SSAD10RJ	10" x 12 ga. Rim Joist	STHD10RJ	SSAD10RJ	STAD10RJ	4.30	10
CT SSAD14	13" x 12 ga.	STHD14	SSAD14	STAD14	4.40	10
CT SSAD14RJ	13" x 12 ga. Rim Joist	STHD14RJ	SSAD14RJ	STAD14RJ	5.00	10

### Hold Downs

Designed to be installed at the edge of concrete forms. Tests determined the pullout strength with one horizontal #4 rebar in the shear cone. Install before pouring concrete by nailing to the form. Installation holes allow nailing to the form, resulting in deeper embedment. Supplied with zinc plated finish.



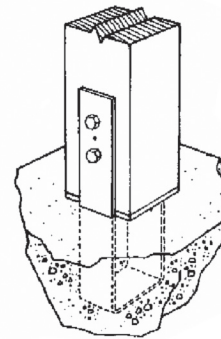
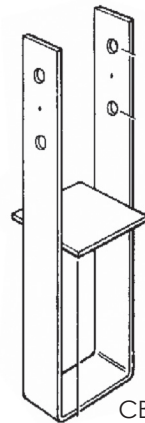
No.	Description	Simp EQ	KC EQ	USP EQ	Wt (lbs)
CT KHPAHD22	35" x 10 ga.	HPAHD22	HSA3522	HPAHD22	2.5



### Column Bases

Accommodate heavy column bases and rough sawn posts or heavy duty fence construction where high structural values and durable performance are part of the specifications. Anchors should set in position before pouring concrete. Erection nail holes are provided to speed up installation. Supplied with painted black finish.

No.	Description	Simp EQ	KC EQ	ESP EQ	Wt (lbs)
CT 44CB	4" x 4"	CB44	HA44	KCB44	4.5
CT 46CB	4" x 6"	CB46	HA46	KCB46	6.6
CT 66CB	6" x 6"	CB66	HA66	KCB66	8.1

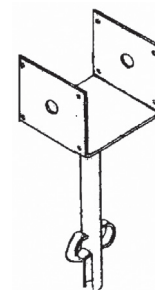


TYPICAL CB INSTALLATION

### Post Holders

For use with a variety of dimensional lumber and composite wood sizes. Low cost post base for patios, carports, breezeways and porches. Use all specified fasteners. Optional holes may be used to temporarily secure members while drilling and bolting. Supplied with painted black finish.

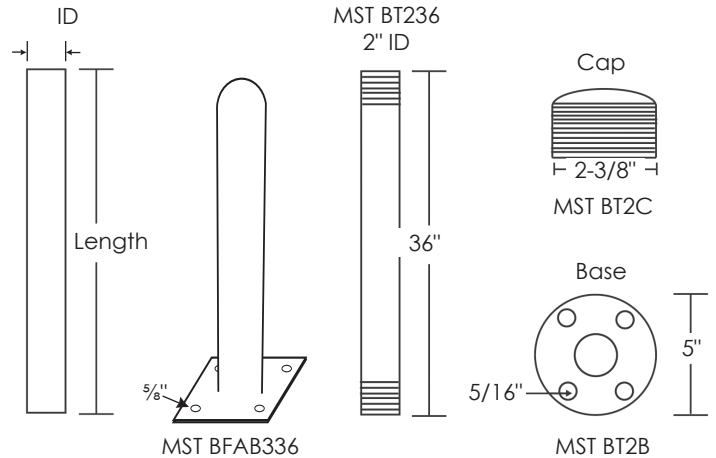
No.	Description	Simp EQ	KC EQ	USP EQ	Wt (lbs)
CT 448PH	4" x 4" x 8"	EPB44	EA44	EPB4408	1.6
CT 4412PH	4" x 4" x 12"	EPB44-12	EA44-12	EPB4412	2.1
CT 4612PH	4" x 6" x 12"	EPB46-12	EA46-12	EPB4612	2.7
CT 6612PH	6" x 6" x 12"	EPB66	EA66	EPB6612	3.1



## Pipe Bollards

Surface mount and poured in place types available.

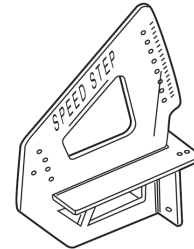
No.	Size	Description	Wt (lbs)
MST B241	2" ID x 41" L	Cut Pipe Only	12.0
MST BT236	2" ID x 36" L	Threaded Pipe	10.5
MST BT2B	5" RND	Base Plate Threaded	2.5
MST BT2C	2-3/8" O.D.	Cap Threaded	1.0
MST B336	3" ID x 36" L	Cut Pipe Only	21.0
MST B342	3" ID x 42" L	Cut Pipe Only	22.5
MST B354	3" ID x 54" L	Cut Pipe Only	25.5
MST BFAB336	3" ID x 36" L	Fabricated With Cap & Base Plate	26.5
MST B3B	6" x 8"	Base Plate Weld On w/4 5/8" Holes	4.5
MST B3C	3-1/2" O.D.	Cap Weld On	1.0
<b>Accessories</b>			
RH WS1432	1/4" x 3-1/4"	Wedge Anchor	0.05
RH WS1226	1/2" x 2-3/4"	Wedge Anchor	0.18



## SpeedStep Bracket

A reusable, high grade composite resin forming bracket designed to simplify layout, set-up and stripping of concrete stair forming. The brackets are nailed to 2 x 4 stringers and adjusted for a 4" to 8" riser and 10" to 20" tread. One size fits all standard stairs.

No.	Wt (lbs)	Qty/Ctn
CT SS	0.8	10



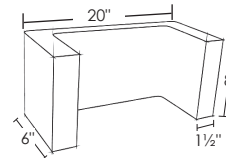
## Plastic Area Wells

No.	Size	Color	Pcs/Ctn	Wt/Ctn (lbs)
CT PVW4	19" x 4" x 12"	Grey	10	24.0



## Concrete Area Wells

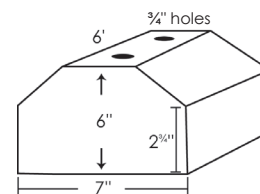
No.	Size	Color	Wt (lbs)
B AWL	20" x 6" x 8"	Grey	30.0



## Concrete Curb Bumpers

Concrete curbs available with 2 each 3/4" stake pockets.

No.	Size	Color	Wt (lbs)
B CB	6'	Gray	206.0



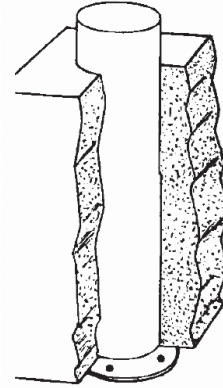
# POUR IN PLACE



## POUR IN PLACE

### Void Sleeves

To form a smooth perfect hole in concrete cheaper and faster than ever before. Made from practically indestructible linear polyethylene and can be used over again many times. Void sleeves are adjustable for any slab thickness by telescoping 2 or more together. For thickness less than 8-3/4" or for smooth slab finish, cut off the tops of concrete void sleeves and push them up through the bottom half.

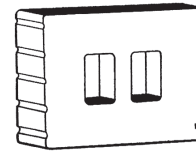


No.	Size	Wt (lbs)	Qty/Ctn (lbs)
CT 112CS	1-1/2" x 8 3/4"	0.12	100
CT 2CS	2" x 8 3/4"	0.22	100
CT 3CS	3" x 8 3/4"	0.30	50
CT 4CS	4" x 8 3/4"	0.38	50
CT 5CS	5" x 8 3/4"	0.50	30
CT 6CS	6" x 8 3/4"	0.63	30
CT 8CS	8" x 8 3/4"	1.10	10
CT 10CS	10" x 9 1/8"	1.90	10
CT 12CS	12" x 9-1/8"	2.0	10

### Foundation Vents

The deluxe plastic foundation vent is available in two sizes, also available with attached closures.

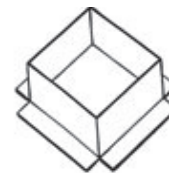
No.	Size	Free Area In <sup>2</sup>	Wt (lbs)	Qty/Ctn
<b>Grey Color</b>				
CT 6VENTG	6" x 7" x 16"	72.5	1.00	20
CT 8VENTG	8" x 7" x 16"	72.5	2.00	15
CT 6VENT-W/Closure	6" x 7" x 16"	72.5	1.75	20
CT 8VENT-W/Closure	8" x 7" x 16"	72.5	2.25	15
CT 68COMBO	6", 8" x 7" x 16"	100	2.70	12
CT 68COMBO-W	6", 8" x 7" x 16"	100	2.92	12
<b>Plugs</b>				
CT VP	6 1/2" x 7 3/4"		0.175	40



### Pier Molds

Cardboard disposable pier mold. 20 per bundle.

No.	Size	Wt (lbs)
CT 18DP	18" x 18" x 8"	0.73
CT 24DP	24" x 24" x 8"	0.90



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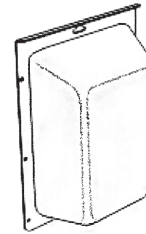
Clackamas | Eugene | West Eugene | Hillsboro | Medford | Portland | Salem | Wilsonville | Ridgefield | Seattle | Tacoma | Woodinville



## Beam Pocket

Plastic Block Outs used for post and beam construction.

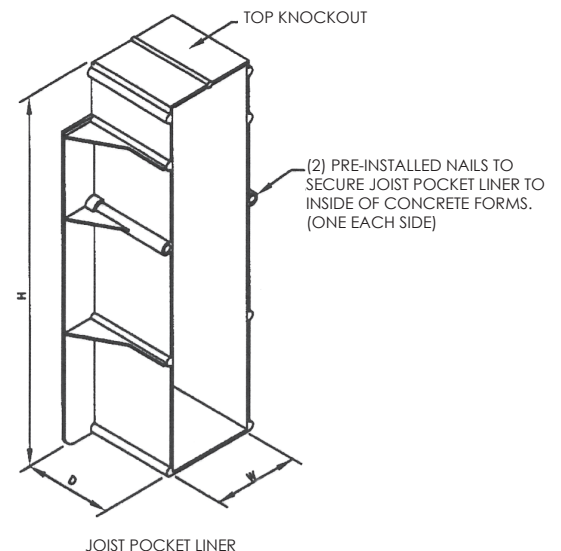
No.	Beam Size	Block Out Box Size	Qty/Case	Wt/Ctn (lbs)
CT 46B	4" x 6"	4" x 6"	110	20
CT 48B	4" x 8"	4" x 8"	96	22



## Joist Pocket Liner™

The Joist Pocket Liner™ (JPL) is a polyethylene product manufactured by an injection molding process. The JPL is used for forming a pocket (blockout) in a concrete foundation wall, to support the end of an engineered wood I-joist or a conventional wood joist. The pocket liner creates a moisture barrier and provides a vertical support system for joists in a concrete foundation wall. See product datasheet for installation details.

No.	Description	Qty/Ctn	Wt/Ctn (lbs)
JPL 2-9	2" for 9-1/2" joist	30	10
JPL 25-11	2-1/2" for 11-7/8" joist	30	15



# REGLET



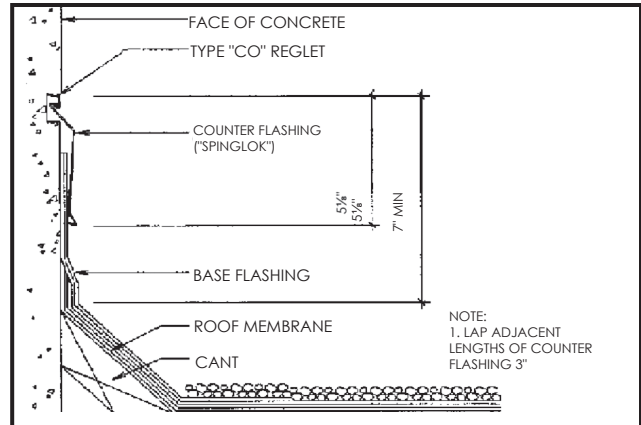
## POUR IN PLACE

### TYPE CO - Concrete

**Description:** Reglet and Counter flashing system (2-piece, spring-action type). Available in copper, stainless steel, aluminum and galvanized steel.

**Application:** CAST-IN-PLACE CONCRETE. Not recommended for tilt-up construction (requires special provision to insure proper alignment between concrete panels).

**Special Features:** Factory-provided removable foam insert protects slot from obstruction during concrete pours.



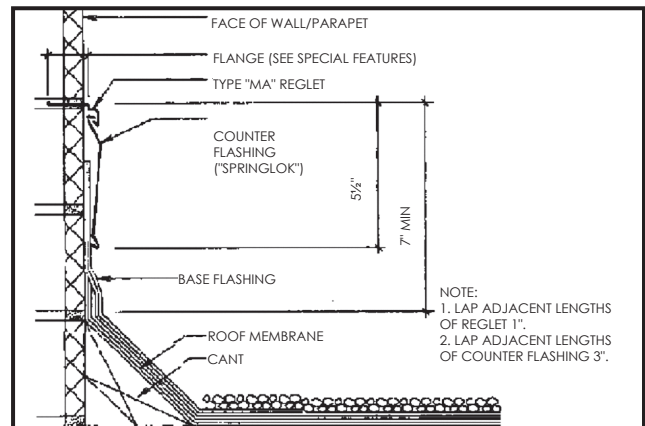
No.	Size	Wt/Pc (lbs)	Lf/Ctn
FRY CO-G	26 ga. galv. x 10'	2.0	250
FRY FLASH-G	26 ga. galv. x 10'	1.7	250

### TYPE MA - Masonry

**Description:** Reglet and counter flashing system (2-piece spring-action type). Reglet with 1-1/2" flange and counter flashing are available in copper, stainless steel, aluminum and galvanized steel. Reglet with 4" flange is available in copper, stainless steel and steel.

**Application:** BRICK or CONCRETE MASONRY UNIT (CMU).

**Special Features:** Reglet is available with 1-1/2" horizontal flange (Reglet Type MA-1.5) for brick and 4" horizontal flange (Reglet Type MA-4) for CMU.



No.	Size	Wt/Pc (lbs)	Lf/Ctn
FRY MA-G	1-1/2" x 24 ga. galv. x 10'	2.7	250
FRY FLASH-G	26 ga. galv. x 10'	1.7	250

(Continued on next page)



M A S C O . N E T

# REGLET

**POUR IN PLACE**

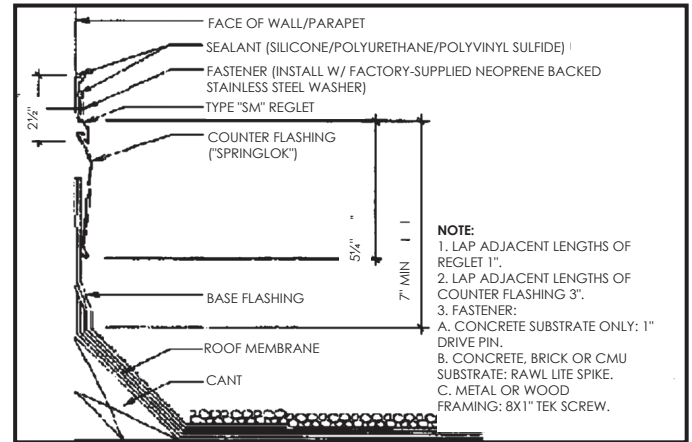
## TYPE SM - Surface Mount

**Description:** Reglet and counter flashing system (2-piece, spring-action type). Available in copper, stainless steel, aluminum, and galvanized steel.

**Application:** SURFACE MOUNT (pre-cast concrete, tilt-up concrete and retrofit applications over concrete, brick, and CMU). Requires sealant (silicon or polyurethane).

**Special Features:** Reglet supplied with neoprene-faced stainless steel washer for proper fastening.

No.	Size	Wt/Pc (lbs)	Lf/Ctn
FRY SM-G	24 ga. galv. x 10'	2.0	250
FRY FLASH-G	26 ga. galv. x 10'	1.7	250

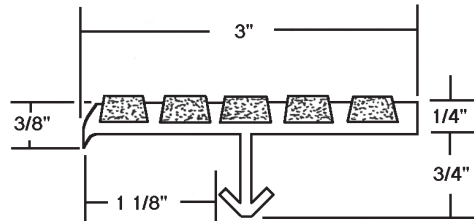


# STAIR NOSING

## POUR IN PLACE

### Safety Stair Nosing

Designed for heavy duty use indoors and outdoors, these safety nosings meet and exceed all OSHA and Barrier-Free requirements. Safety Stair Nosings are impact resistant. The nosings are manufactured from an extruded aluminum base filled with a mixture of anti-slip abrasive granules in an advanced formula epoxy binder. Their remarkable strength is capable of absorbing heavy impact. Each abrasive filled rib projects above the aluminum base for the greatest exposure of anti-slip surface. Nosings should terminate not more than 3" from ends of steps for poured concrete stairs; for concrete filled steel pan stairs, nosings should be full length of steps less 1/8" clearance. Lengths up to 12'-0" maximum in one piece.



Designed to install so that there is no projection past the face of the riser.

### Extruded Anchor

Extruded anchors run full length of tread for positive anchorage and quick installation. Since extruded anchors are concealed, no bolt holes appear on the tread surface.

### Renovation Treads

Make slippery stairs safe again. Renovate and update any stairway without the costly labor of removing and rebuilding the old stair. Renovation treads meet ADA requirements and install easily over worn stairways of every type including concrete, wood, steel, marble and terrazzo. They can be used inside and outside and are ideal for heavy traffic stairways. Ready for immediate installation by anyone who can handle a screwdriver. The attractive colors renew old, worn stairways. Drab and unsafe stairs become bright and contemporary with anti-slip protection at every step.

No.	Size	Wt/lf
AS 9511	1/4" x 3" x 12'	1.17



M A S C O . N E T

# STAIR NOSING

**POUR IN PLACE**

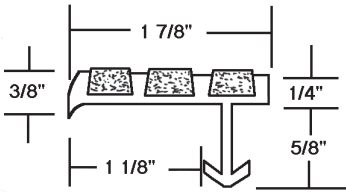
## Profiles for New Concrete Stairs and Steel Pan

**Poured concrete:** Install full step length less approximate 3" clearance.

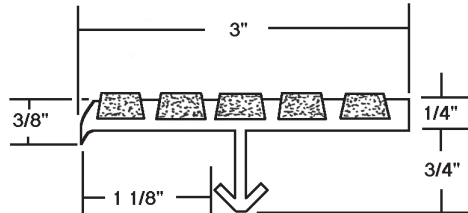
**Steel Pan:** Concrete filled, installed stringer to stringer less 1/8" clearance.

Sections not to scale

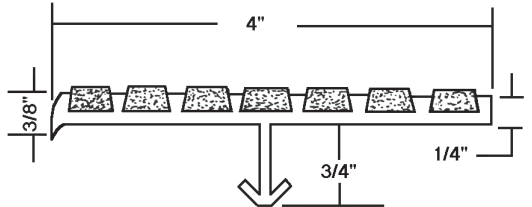
### FOR STEEL PAN STAIRS



**AS 9311**  
1-7/8" wide, 1/4" thick  
1.00 lb/lf

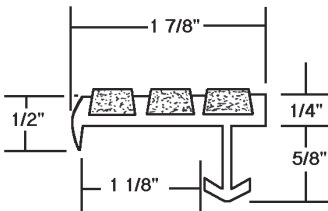


**AS 9511**  
3" wide, 1/4" thick  
1.17 lb/lf

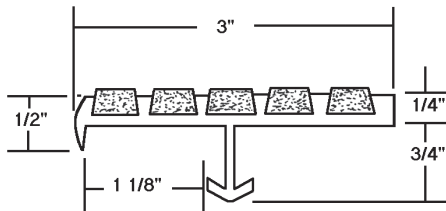


**AS 9711**  
4" wide, 1/4" thick  
1.50 lb/lf

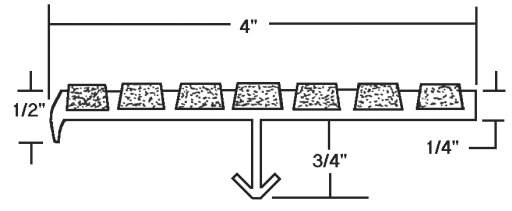
### FOR POURED CONCRETE STAIRS



**AS 3311**  
1-7/8" wide, 1/4" thick  
1.00 lb/lf

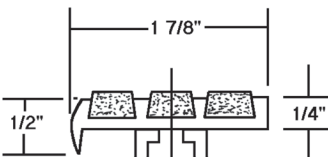


**AS 3511**  
3" wide, 1/4" thick  
1.17 lb/lf

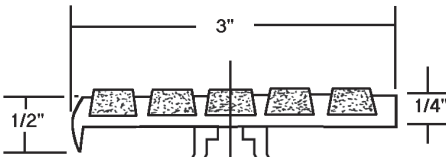


**AS 3711**  
4" wide, 1/4" thick  
1.50 lb/lf

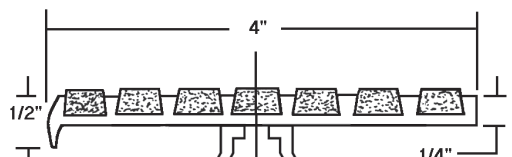
### FOR CONCRETE STAIRS



**AS 3301**  
1-7/8" wide, 1/4" thick  
1.00 lb/lf  
WING ANCHOR  
*Requires anchor, sold separately.*

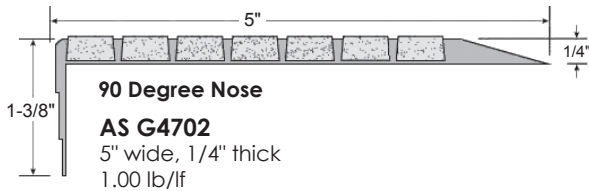


**AS 3501**  
3" wide, 1/4" thick  
1.17 lb/lf  
WING ANCHOR  
*Requires anchor, sold separately.*

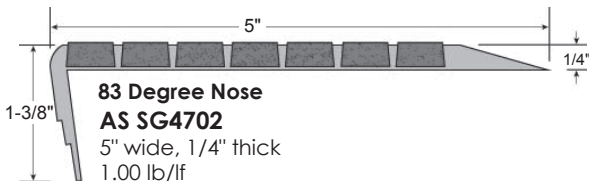


**AS 3701**  
4" wide, 1/4" thick  
1.50 lb/lf  
WING ANCHOR  
*Requires anchor, sold separately.*

### RENOVATION TREADS

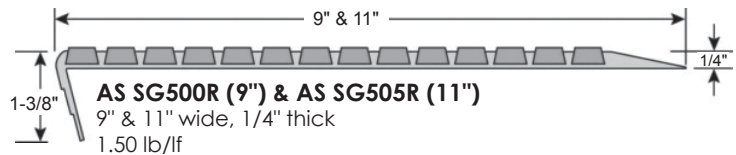
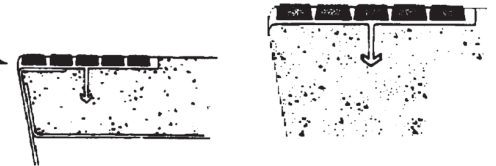


**90 Degree Nose**  
**AS G4702**  
5" wide, 1/4" thick  
1.00 lb/lf



**83 Degree Nose**  
**AS SG4702**  
5" wide, 1/4" thick  
1.00 lb/lf

**NOTE:** Nose design provides better fit at former edge of steel pan.



**AS SG500R (9") & AS SG505R (11")**  
9" & 11" wide, 1/4" thick  
1.50 lb/lf

# TRENCH DRAIN

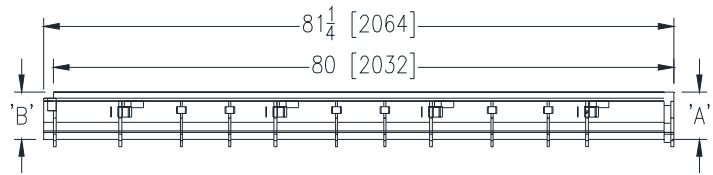
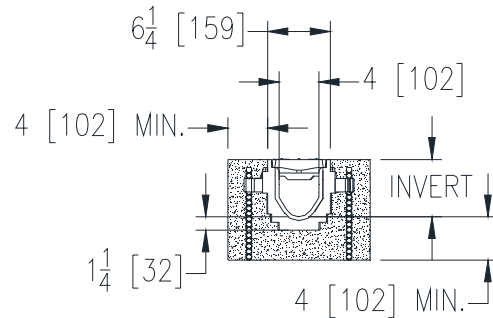
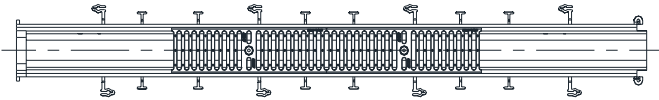
## POUR IN PLACE

### Wide Reveal System

A pre-sloped, and/or neutral trench drainage system which comes in modular lengths with integral top frame, inter-locking ends, and a smooth, and radial self-cleaning bottom of various widths (features depend on model). Combination tie-down/leveling devices can be applied at various intervals. Uses a strong, positive locking mechanical connection between sections.

#### 6 inch Width (ZN 8601 - ZN 8614)

- Made of 0% water absorbent High Density Polyethylene
- HDF HD Steel frame
- Weigh less than 2.31 lbs per linear foot
- 6 inches (6-1/4") wide
- 80 inch sectional length
- 1-1/2 inch bottom radius
- 4 inch depth
- .75% or .009" neutral bottom slope
- 20 inch, tie-down/leveling intervals
- Furnished with heavy-duty, Dura-coated cast iron grates



6' 8" High Density Polyethylene Channel Base Sections				
No.	'A' Shallow Inv. (inches)	'B' Deep Inv. (inches)	Flow (gpm)	Wt (lbs)
ZN 8601	3.50	4.10	93	-
ZN 8602	4.10	4.70	122	-
ZN 8603	4.70	5.30	152	-
ZN 8603N	5.30	5.30	-	-
ZN 8604	5.30	5.90	183	-
ZN 8605	5.90	6.50	214	-
ZN 8606	6.50	7.10	245	-
ZN 8606N	7.10	7.10	-	-
ZN 8607	7.10	7.70	276	-
ZN 8608	7.70	8.30	308	-
ZN 8609	8.30	8.90	339	-
ZN 8610	8.90	9.50	371	-
ZN 8611	9.50	10.10	403	-
ZN 8612	10.10	10.70	435	-
ZN 8612N	10.70	10.70	-	-
ZN 8613	10.70	11.30	467	-
ZN 8614	11.30	11.90	498	-
ZN 8615	11.90	12.50	530	-

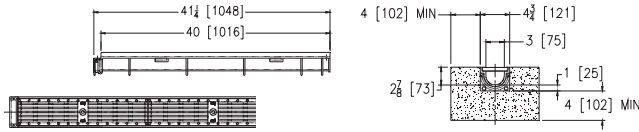
No.	Description	Wt (lbs)
<b>Outlet Adapters</b>		
ZN 886-E1	Closed End Cap	-
ZN 886-E2	2" No-Hub End Outlet	-
ZN 886-E3	3" No-Hub End Outlet	-
ZN 886-E4	4" No-Hub End Outlet	-
ZN 886-U2	2" No-Hub Bottom Outlet	-
ZN 886-U3	3" No-Hub Bottom Outlet	-
ZN 886-U4	4" No-Hub Bottom Outlet	-
<b>Grate Options</b>		
ZN P6-DGC	Ductile Iron Slotted (C)	-
ZN P6-HPD	Heel-Proof Ductile Slotted Grate (B)	-
ZN P6-DGE	Ductile Iron Slotted (E)	-
<b>Accessories</b>		
ZN 886-HDF	80" Heavy Duty Steel Frame	-
ZN 887-6X20	6"x20" Catch Basin	-
ZN 887-HDF-6X20	Heavy Duty Frame For 6"x20" CB	-
ZN 887-IA-HD-6X20	Inlet Adapter For 6"x20" CB w/HDF	-
ZN 887-INLET-6-NS	Inlet Adapter For 6"x20" CB	-



M A S C O . N E T

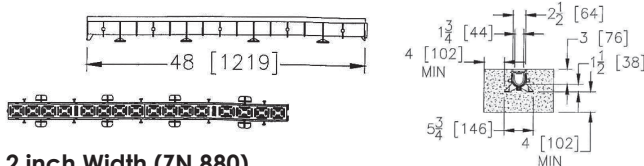
# TRENCH DRAIN

**POUR IN PLACE**



## 4 inch Width (ZN 884)

- Made of 0% water absorbent Polypropylene
- Weigh less than 2 lbs per linear foot
- 4 inches (4-3/4") wide
- 40 inch sectional length
- 1.634 inch bottom radius
- 3 inch depth
- .009" neutral bottom slope
- 20 inch, tie-down/leveling intervals
- Furnished with Heelproof Polypropylene grates



## 2 inch Width (ZN 880)

- Made of High Density, UV-10 stable Polyethylene
- 2 inches (2-1/2") wide
- 48 inch sectional length
- 3 inch depth
- Neutral bottom (no slope)
- Tongue and Groove snap fit connections
- 24 inch, tie-down/leveling intervals
- Furnished with High-Density Polyethylene grates

No.	Description	Wt (lbs)
<b>Channel Base Section</b>		
ZN 884-CHANNEL	40" Polypropylene D.Grey Channel	-
<b>Outlet Adapters</b>		
ZN 884-E1	Closed End Cap	-
ZN 884-E2	2" No-Hub End Outlet	-
ZN 884-U3	3" No-Hub Bottom Outlet	-
<b>Decorative Grate Options</b>		
ZN P4-CG	20" Cast Iron Slotted Grate (B)	-
ZN P4-4HPP	Heel-Proof Polyethylene Grate, Dark Grey (A)	-

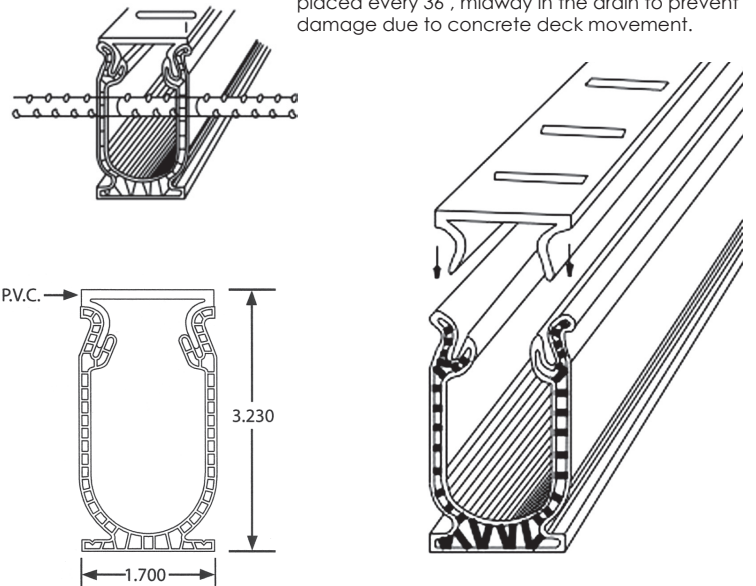
No.	Description	Wt (lbs)
<b>Channel Base Section</b>		
ZN 880-CHANNEL	4' High Density Polyethylene Drain Channel with Grey Grate	-
<b>Outlet Adapters</b>		
ZN 880-E1	Closed End Cap	-
ZN 880-E150	1.5" No-Hub End Outlet	-
ZN 880-U150	1.5" No-Hub Bottom Outlet	-
<b>Miscellaneous Options</b>		
ZN 880-C45	45 Degree Channel	-
ZN 880-C90	90 Degree Channel	-

## Deck Drain

Deck Drain is a removable top drain that features a double wall base and snap in top (PVC). When installing this drain the tops are staggered past the joints making the joints very rigid. Because the tops are removable, this drain is easy to clean and the tops can be replaced if ever damaged. Deck Drain is used in many residential and commercial swimming pools, patios and other pedestrian traffic areas. Color is grey.

No.	Description	Qty/Ctn	Wt (lbs)
STG SDDG	10' Deck Drain	8	
STG SDDTCG	10' Gray Top Cap	8	
STG SDD90G	90 Degree	10	
STG SDD-TW	Tee	4	
STG DEA	End Adapter	4	
STG DEP	End Plug	10	
STG DCUP	Coupler	12	

This drain is not designed to be used as a full expansion. It requires that a 3/8" rebar be placed every 36", midway in the drain to prevent damage due to concrete deck movement.



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# TRENCH DRAIN



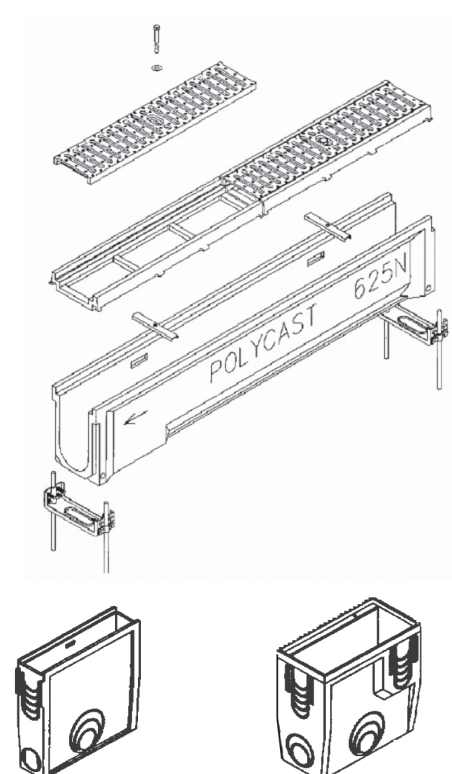
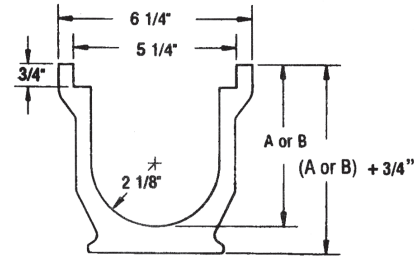
## POUR IN PLACE

### Polycast

Precast concrete drains are an improved method of installing drainage systems in concrete slabs. Each channel has built-in 0.65% slope that simplifies installation and guarantees efficient drainage. Precast components eliminate complicated formwork. Just assemble the components inside a prepared excavation and pour the slab. Installation time and labor is a fraction of that required to form a cast-in-place drainage system. Precast channels are made of high strength polymer concrete that resists damage from freeze/thaw and exposure to a wide range of chemicals. The extremely smooth, rounded surface provides maximum liquid flow. All channels come complete with either galvanized steel (light load) or cast iron (medium load) gratings. Standard channel length is 48". A wide selection of grates is

available to handle any situation. For general usage, galvanized steel is standard. The cast iron grate is ideal for medium traffic areas. The fiberglass grate is highly resistant to corrosives. Stainless steel is available for food processing areas. Drainage channels are supplied complete with the specified grate. The system also includes catch basins with removable trash buckets. All channels are numbered and have arrows indicating the flow direction. This versatile system is economical, durable and easy to install. It provides an ideal solution to almost any surface drainage problem. A reinforced frame system is required to resist heavy loads on slabs where hard wheeled traffic is anticipated. Call Mascons for more information on your load requirements and chemical resistance.

No.	Size	Wt (lbs)
<b>Channels</b>		
PC 600-625	4' Polyester Channels	37.0 - 77.0
<b>Grates</b>		
PC 640	4' Slotted Galv Grate	8.0
PC 641	2' Cast Iron Slotted Grate	15.0
PC 641D	2' Ductile Iron Slotted Grate	13.0
PC 646	4' Perforated Galv Grate	8.0
PC 647	4' Slotted S/S Grate	7.0
PC 644	4' x 5/8" Fiberglass Grate	10.0
PC 657	4' Perforated S/S Grate	8.0
PC 670	2' Duraguard Grate	4.0
PC 640R	4' Slotted Galv Reinforced Grate	12.0
PC 646R	4' Perforated Galv Reinforced Grate	12.0
PC 647R	4' Slotted S/S Reinforced Grate	12.0
PC 657R	4' Perforated S/S Reinforced Grate </td <td>14.0</td>	14.0
<b>Accessories</b>		
PC 700	2' Cast Iron Frame	15.0
PC 700PE	2' Duraguard Frame	2.0
PC 642	Locking Device for Galv Grate	1.0
PC 642B	Locking Design for CI Grates	1.0
PC 642BH	Locking Design for CI Grates/Frames	1.0
PC 642S	Locking Design for S/S Grates	1.0
PC 633	Alignment Chair	1.5
PC 670F	Universal End Cap (Shallow End)	0.5
PC 670M	Universal End Cap (Deep End)	0.5
PC 650	6" x 24" Catch Basin	94.0
PC 651	12" x 24" Catch Basin	125.0
PC 643	12" x 24" Cast Iron Grate	63.0
PC 650TA	650 Trash Bucket Plastic	3.0
PC 651TA	651 Trash Bucket Plastic	4.0



650 catch basin

651 catch basin

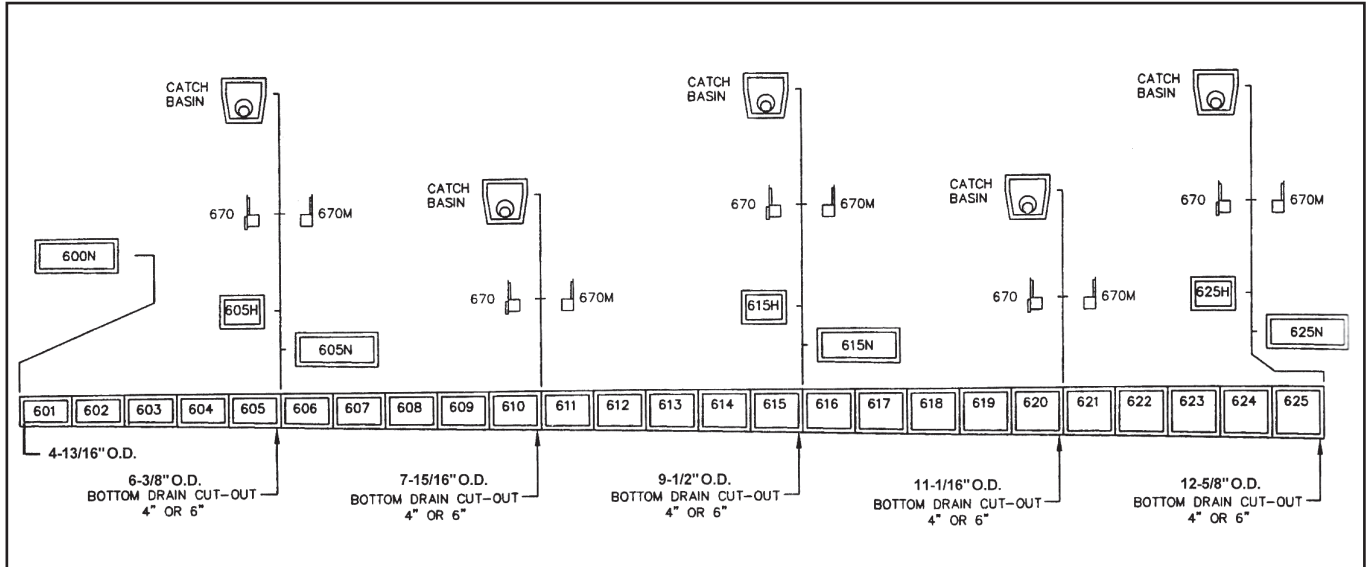




M A S C O . N E T

# TRENCH DRAIN

**POUR IN PLACE**



Channel Number	Weight Lbs	Inlet Dim 'A'	Outlet Dim 'B'	Channel Number	Weight lbs	Inlet Dim 'A'	Outlet Dim 'B'
PC 600N	37	4-1/16	4-1/16	PC 614	59	8-1/8	8-7/16
PC 601	38	4-1/16	4-3/8	PC 615	60	8-7/16	8-3/4
PC 602	43	4-3/8	4-11/16	PC 615N (nonsloped)	61	8-3/4	8-3/4
PC 603	43	4-11/16	5	PC 615H (nonsloped 24")	30	8-3/4	8-3/4
PC 604	44	5	5-5/16	PC 616	61	8-3/4	9-1/16
PC 605	45	5-5/16	5-5/8	PC 617	62	9-1/16	9-3/8
PC 605N (nonsloped)	46	5-5/8	5-5/8	PC 618	63	9-3/8	9-11/16
PC 605H (nonsloped 24")	22	5-5/8	5-5/8	PC 619	64	9-11/16	10
PC 606	47	5-5/8	5-15/16	PC 620	67	10	10-5/16
PC 607	50	5-15/16	6-1/4	PC 621	68	10-5/16	10-5/8
PC 608	51	6-1/4	6-9/16	PC 622	71	10-5/8	10-15/16
PC 609	52	6-9/16	6-7/8	PC 623	73	10-15/16	11-1/4
PC 610	54	6-7/8	7-3/16	PC 624	75	11-1/4	11-9/16
PC 611	55	7-3/16	7-1/2	PC 625	76	11-9/16	11-7/8
PC 612	56	7-1/2	7-13/16	PC 625N (nonsloped)	77	11-7/8	11-7/8
PC 613	57	7-13/16	8-1/8	PC 625H (nonsloped 24")	38	11-7/8	11-7/8

700 Hardnose and 700 PE Duraguard adds 1-3/16" to A or B

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# CHANNEL DRAIN



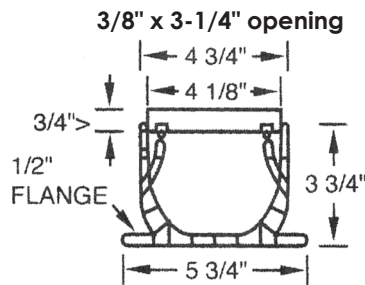
## POUR IN PLACE

### Plastic Drain

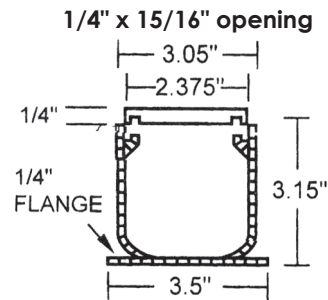
Channel Drains are a economical alternative to precast concrete drains. Light weight and easy to install. UV inhibitors in the grates, channel and component parts prevents fading and cracking from the sun. All plastic grate and channel components are chemically resistant, rust proof and maintenance free. Channel Drains operate on the same principal as a roof gutter. Mini, Spee-D and Micro drains connect like PVC pipe. Pro Series injected Molded Channel have mechanical interlocking joints. The channels easily connect to sewer and drain pipe fittings or SCH 40 pipe and fittings. This system also offers a choice of outlets. Water can be evacuated from the bottom or from the

end of the channel. It eliminates grading a deck surface to a low area. Instead, the deck is gradually sloped in one direction or plane, and the channel drain acts as a perimeter drain to the edge of the slope. Most hardscapes experience more runoff than landscapes due to the lack of water absorption. Channel Drain systems provide more overall open surface area than conventional area grates. Spee-D and Pro Series will handle light automobile traffic at low speeds. Mini and Micro are designed for foot traffic applications only. **For specific load information, contact Masons Supply.**

#### SPEED-D



#### MINI

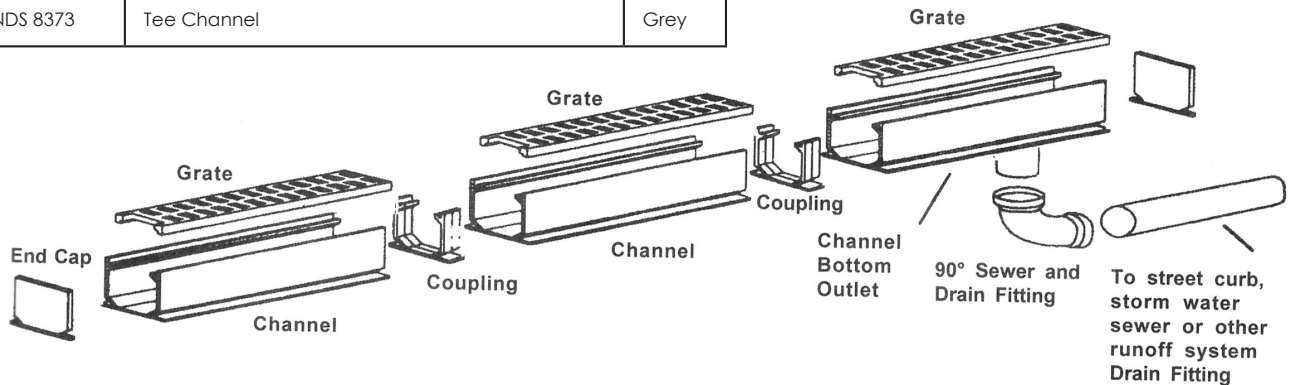
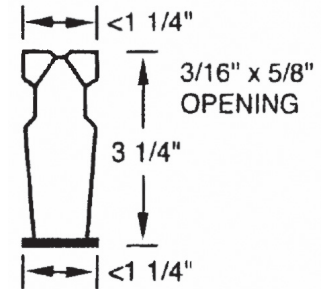


SPEED-D		
No.	Description	Color
NDS 241	2' Grate	Grey
NDS 243	2' Grate	Black
NDS 400	4' Channel	Grey
NDS 401	10' Channel	Grey
ACCESSORIES		
NDS 246	End Outlet w/2" Schedule 40 SPT	Grey
NDS 249	End Outlet w/3" & 4" Offset (Connects to 3" S&D Pipe, 4"S&D Fittings)	Grey
NDS 234	2' Channel w/Fabricated 3" & 4" Spigot (Bottom Outlet with Strainer)	Grey
NDS 247	Solid End Cap	Grey
NDS 248	Coupler	Grey
NDS 2381	90° Elbow Channel	w/Grey Grate
NDS 2301	45° Elbow Channel	w/Grey Grate
NDS 2371	Tee Channel	w/Grey Grate

MINI		
No.	Description	Color
NDS 541	3' Grate	Grey
NDS 500	6' Channel	Grey
Accessories		
NDS 548	Coupler	Grey
NDS 547	Solid End Cap	Grey
NDS 546	End Outlet w/2" Sch. 40	Grey
NDS 550	3' Channel w/2" Sch. 40 Spigot Bottom Outlet	Grey
NDS 5380	90° Elbow Channel	w/Grey Grate
NDS 5300	45° Elbow Channel	w/Grey Grate
NDS 5370	Tee Channel	w/Grey Grate

## MICRO

No.	Description	Color
NDS 8003	10' Channel Includes (1 Coupler)	Grey
<b>Accessories</b>		
NDS 8653	Channel Clean Out	Grey
NDS 8481	Coupler	Grey
NDS 8473	End Cap	Grey
NDS 8463	End Outlet, w/1-1/2" Sch. 40	Grey
NDS 8503	Bottom Outlet w/ 1-1/2" Sch. 40 Outlet	Grey
NDS 8513	Side Outlet w/ 1-1/2" Sch. 40 Outlet	Grey
NDS 8383	90° Elbow Channel	Grey
NDS 8303	45° Elbow Channel	Grey
NDS 8373	Tee Channel	Grey



### Installation Procedures

1. Locate lowest spot or any area where excess water will accumulate.
2. Dig trench wide enough to allow for 3" of back fill on each side of Spee-D, 2" for Mini Channel, 1" for Micro Channel and 4" for Pro Series. Dig trench deep enough for overall height of channel and grate plus 3" for Spee-d, 2" for Mini, 1" for Micro and 4" for Pro Series. Allow 1/4" recess of grate below surface level for additional drainage.
3. Backfill trench with either concrete or sand and tamp thoroughly. This allows for a level base and provides support. Concrete is always recommended for automobile traffic applications. **(NOTE: Trench bed must be compacted prior to installing channel.)**
4. Measure and cut channel with fine tooth saw to desired length and remove burrs. Assemble channel, using couplings and channel accessories. Test for accurate measurements by placing channel in trench. **(NOTE: You must allow for bottom or end outlets to connect to sewer and drain pipes).**
5. Disassemble channel drain and apply PVC primer and PVC cement to all joints. Reassemble channel joints. Allow cement to dry thoroughly.
6. Install grate on channel. Completely cover grate with duct tape. **(NOTE: Grate must be on channel prior to installation to prevent deflection by concrete).**

# WATERSTOP



## POUR IN PLACE

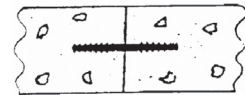
### PVC

Our PVC Waterstop is made from new materials not reprocessed or reclaimed materials. Unaffected by normal range of concrete or concrete additives. Will not discolor concrete nor produce electrolytic action. Will perform over wide temperature ranges -35° to 175°F. PVC Waterstop is used where concrete is subject to hydrostatic pressure. Provides a positive seal to contain water above or below grade. PVC is most suitable for most common construction. For specific chemical resistance, please call. There are considerations when choosing a waterstop; hydrostatic pressure, wall thickness, type and size of joint, movement and chemical resistance. Dumbbell types and ribbed no center bulb styles are used where no joint movement is expected. Center bulb type can be used in both expansion

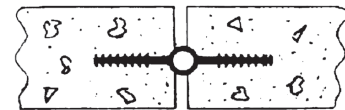
and construction joints subject to movement. Split Waterstop allows waterstop to be used easily in bulk head forming. For walls and slabs that are less than 9" thick, typically 4" to 6" waterstop is used. For thickness over 9", typically 9" is used. Waterstop irons must be used for all splicing requirements. See next page for splicing details. There are several important requirements for waterstop joints; Waterstop must be properly located and braced during concrete placement, center bulb on joints. Waterstop must be clean of foreign matter including concrete splatter. Must be properly vibrated and consolidated. Splices must be done right. Factory splices are available on request. Specifications: Corp of Engineers CRD C-572-74.

No.	Size	Description	Head of Water Ft	Wt/Lf (lbs)	Lf/RL	Alt. Vendor
DJ WS3	4" x 3/16"	Ribbed Center Bulb	65	0.50	50	701
DJ WS3A	4" x 3/16"	Ribbed Center Bulb Tapered	65	0.40	50	701
DJ WS4B	6" x 3/16"	Ribbed Center Bulb Tapered	100	0.70	50	703
DJ WS5BR	6" x 3/8"	Ribbed Center Bulb Tapered	125	1.26	50	705
DJ WS7	9" x 3/8"	Ribbed Center Bulb Tapered	150	1.62	50	709
DJ WS300	4" x 3/16"	Split Ribbed Center Bulb	65	0.50	50	721
DJ WS400	6" x 3/16"	Split Ribbed Center Bulb	100	0.89	50	--
DJ WS500	6" x 3/8"	Split Ribbed Center Bulb	125	1.26	50	--
DJ WS700	9" x 3/8"	Split Ribbed Center Bulb Tapered	150	1.62	50	722
DJ WS9	6" x 3/8"	Ribbed Center Bulb	150	1.64	50	732
DJ WS10	9" x 3/8"	Ribbed Center Bulb	150	2.34	50	735
DJ WS11	6" X 3/8"	Ribbed Flat	175	1.46	50	679
DJ WSDB8	4" x 3/16"	Dumbbell	65	.50	50	741
DJ WSDB5	6" x 3/16"	Dumbbell	90	.76	50	746
DJ WSDB7	6" x 1/4"	Dumbbell	100	.98	50	747
DJ WSDB2	6" x 3/8"	Dumbbell	100	1.53	50	748
DJ WSDB3	9" x 3/8"	Dumbbell	100	2.21	50	751
DJ WSDB200	6" x 3/8"	Split Dumbbell	100	1.54	50	759

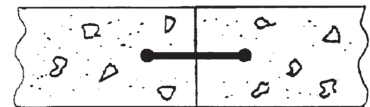
Many other sizes available.



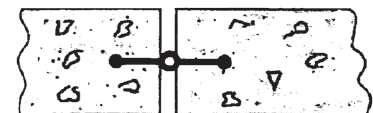
Ribbed Flat Waterstop



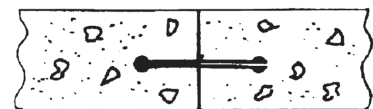
Ribbed with Center Bulb Waterstop



Dumbbell Waterstop



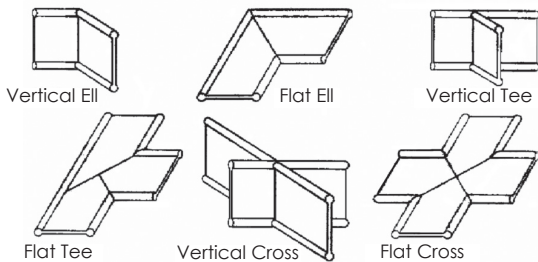
Dumbbell with Center Bulb Waterstop



Split Waterstop

### Factory Made Splices Available

- Eliminates intricate field splicing.
- Permits faster waterstop installations.
- Insures correct splicing in critical areas.
- Eliminates guesswork.



### Chemical Resistant

TPE-Rubber Waterstops greatly expand the scope of conventional Waterstops because they do not degenerate under a host of aggressive chemicals, solvents and hot petroleum oils that would destroy PVC. TPE Rubber Waterstops are capable of withstanding joint movement. TPE Rubber Waterstops also have an added advantage of being joined with our regular Waterstop Splicing Irons. The intended use for TPE Rubber Waterstops is for primary and secondary containment facilities where compatibility, resistance and performance values determine the choice based on the specific application test data. TPE Rubber Waterstops are available in 4", 6" and 9" ribbed centerbulb design; which provides for movement within a joint and may be used for above or below grade applications.

No.	Size	Description	Wt/Lf (lbs)
JP 436	4" x 3/16"	Ribbed Center Bulb	0.40
JP 636	6" x 3/16"	Ribbed Center Bulb	0.70
JP 936	9" x 3/16"	Ribbed Center Bulb	1.07



### Hog Ring Plier

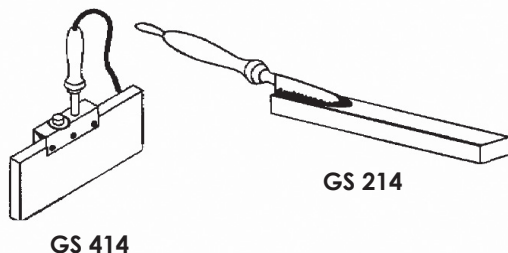
No.	Wt (lbs)
CT HRP	0.50



### Hog Ring

7/8" opening hog rings should be placed at the outer most rib of waterstop 12" on center. Tie off to reinforced steel.

No.	Size
CT HR	#3, 25 lbs/carton (88 pieces/lbs approx)

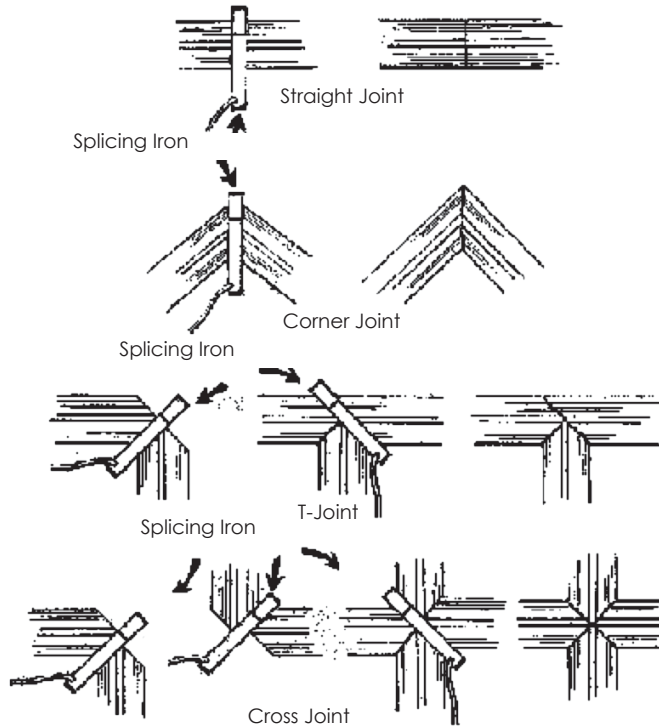


### Heating Iron

For PVC Waterstop, cut ends square and hold both sides against iron to 350°- 380° F. Do not allow the iron to reach 400° F, PVC will degrade and turn dark color. When about 1/8" to 1/4" of material becomes soft and gummy, remove the iron and press ends firmly together. Hold tightly and allow material to cool before applying stress. All center bulb waterstop must be aligned. For TPE Waterstop preheat iron to 380° to 410° F. 115 volt, 6 amps, 6' cord.

No.	Size	Wt (lbs)
GS 214	2" x 14"	4.00
GS 214C	2" x 14" Teflon Cover	0.17
GS 414	4" x 14"	8.00
GS 414C	4" x 14" Teflon Cover	0.34

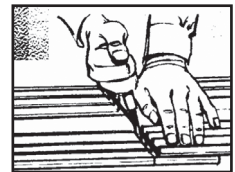
## How to make most common spliced sections



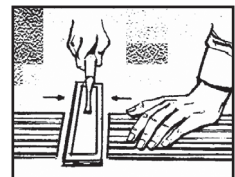
### Splicing Technique

A warm-up time of approximately 5 to 10 minutes is necessary to bring the splicing iron to the required 350°-380°F. The entire splicing operation involves three simple steps. Do not allow the iron to reach 400°F. PVC will degrade and turn dark. For TPE Waterstop, preheat iron 380° to 410°F.

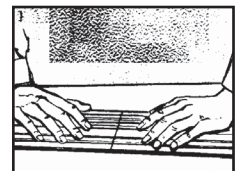
Overlap the two pieces of waterstop to be sliced and then cut with sharp knife or saw. This assures matching edges. **IMPORTANT: Edges must be cut straight.**



Press the straight cut against the sides of the pre-heated splicing iron until the PVC melts, an 1/8" to 1/4", the material becomes soft and gummy. This takes approximately 3-5 minutes.



Quickly remove the splicing iron and press the melted edges together to form a neat butt-splice. The joined sections should not be stretched or moved for 1 minute. To cool the material quickly, use cold water. Typical spliced sections and the manner of accomplishing them, are shown above.





M A S C O . N E T

# WATERSTOP

**POUR IN PLACE**

## Bentonite

Waterstop-RX® is a concrete construction joint waterstop that provides a permanent seal by expanding upon contact with water. Waterstop-RX® is an active sodium bentonite based waterstop that is designed to replace conventional passive PVC dumbbell waterstops, thus eliminating the requirement of split-forming and product seam welding.

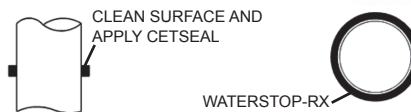
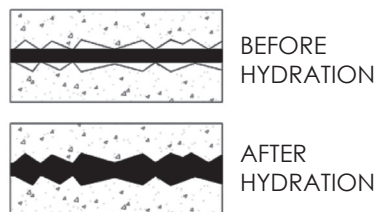
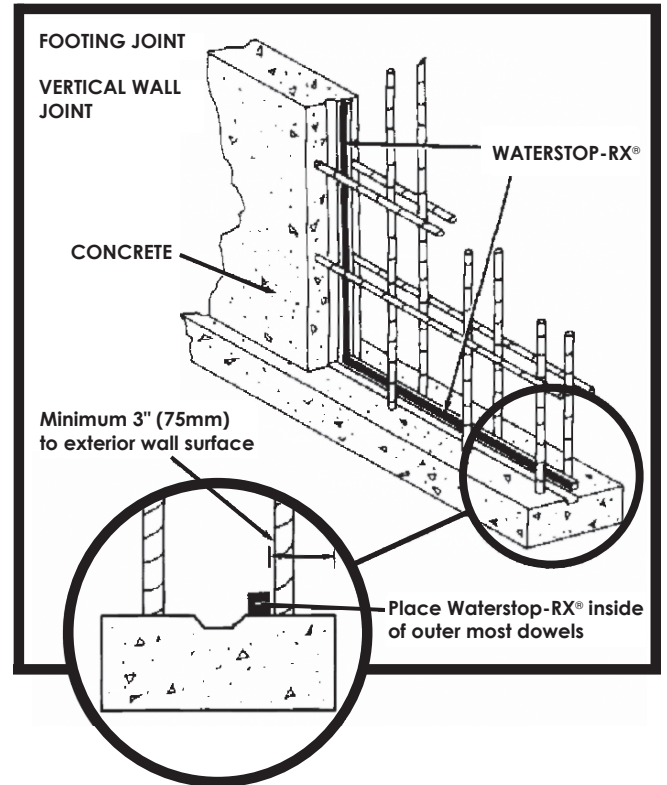
Waterstop-RX® is manufactured in lightweight, flexible coils that can be installed in both hot and cold weather. The product is adhered to concrete, steel, and PVC (pipes) with **CETSEAL** sealant/adhesive; at or exceeding the required minimum distance from the exterior concrete surface.

The key to Waterstop-RX® is sodium bentonite. Sodium bentonite swells when in contact with water, forming an impermeable barrier. This swelling property allows Waterstop-RX® to form a permanent pressure seal within the concrete joint, thus eliminating water migration over or along the waterstop. In addition to forming a positive pressure seal, the products expansion properties allow it to seal small cracks and void areas.

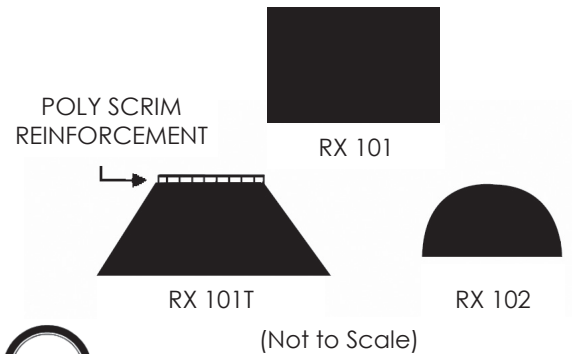
Waterstop-RX® is designed for structural concrete with a minimum of 3,000 psi. **RX 101** and **101T**, require a minimum 3" of concrete coverage. **RX 102** requires a minimum concrete coverage of 2".

RX 101 and 101T are designed for vertical and horizontal reinforced concrete 8" thick or greater, with two rows of reinforcing steel. RX 101 has more water resistance and will react slower in water or wet conditions before concrete is placed. RX 101T (trapezoidal) is recommended for shotcrete or gunite concrete construction, extreme hot weather and difficult applications. RX 102 is designed for vertical reinforced concrete 5" thick or greater; and horizontal reinforced concrete 4" thick or greater. RX 102 is designed primarily for concrete with one row of reinforcement.

**CETSEAL** is a multi-purpose, low VOC, 100% solids, single component polyether moisture cure adhesive used to secure Waterstop-RX® into position. Apply a continuous bead of CETSEAL to substrate then install Waterstop-RX® before CETSEAL skins over and cures within 30 minutes. Adhesive yield will vary with use, substrate and application.



WATERSTOP-RX INSTALLED AROUND ALL APPLICABLE PENETRATIONS



No.	Size	Concrete Thickness	Concrete Cover	Qty/Ctn	Wt/Ctn (lbs)
AC RX101	1" x 3/4"	8" Minimum	3"	100 Lf	53.0
AC RX101T	1-1/4" x 1/2"	8" Minimum	3"	120 Lf	43.0
AC RX102	3/4" x 3/8"	5" to 8" Minimum	2"	200 Lf	34.0
<b>CETSEAL - Sealant/Adhesive</b>					
AC CS	10 oz. Cartridge	10 oz. cartridge yield = approx. 20 Lf		12/case	12.0

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# WATERSTOP



## POUR IN PLACE

### Hydrophilic

Hydrophilic waterstop is a chemically modified natural rubber. This patented process chemically binds hydrophilic agent to the rubber. This permits the seal to undergo controlled expansion when in the presence of moisture. This expansion capability provides a "double locking" waterstop. One from rubber's natural resilience and one from the expansion. Any void within the limits of the products volume expansion coefficient, will be filled by the expansion of the seal when it is hydrated. Excellent durability and resistance to chemicals. It can perform in a wide range of solutions such as salt water and cement water. The material does not contain any toxic substance or heavy metals and is environmentally safe.

### MC-2010MN

Pre-formed rubber strip with stainless steel net. Used to replace conventional PVC waterstops in construction joints and control joints. Will withstand high hydrostatic head and intermittent exposure to rain or water. Expands up to 2 times by volume. Embedded wire mesh promotes vertical expansion vs longitudinal. Attach with screws, nails, glue, P-201 (may need nails or screws with P-201). Can be used on rough concrete with P-201. NSF certified for potable water.

#### Minimum Use Conditions:

Wall/slab thickness greater than 9" (10" recommended).  
 Minimum 4" concrete coverage - 6.5 ft. wall height (check with Masons for variations).  
 Between double row of rebar.  
 Below grade or water present either side of wall/slab joint.

No.	Size	Qty/Ctn	Wt/Ctn (lbs)
ADE MC2010MN	20 mm x 10 mm (.78" x .39")	82 lf	17.50

### MC-2005M

Pre-formed rubber strip with stainless steel net. Use between joints or structural elements where expected joint opening does not exceed 0.05". Will withstand intermittent exposure to rain or water. Expands up to 2 times by volume. Embedded wire mesh promotes vertical expansion vs longitudinal. Attach with glue or P-201 (may need screws with P-201). Can be used on rough concrete with P-201.

#### Minimum Use Conditions:

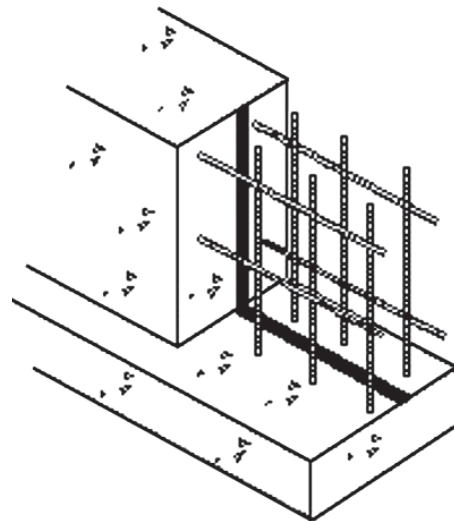
Wall/slab thickness greater than 9" and less than 24".  
 Minimum 4" concrete coverage - 6.5 ft. wall height (check with Masons for variations).  
 Between double row of rebar.  
 Below grade or water present either side of wall/slab joint.  
 Hydrostatic head less than 50 ft.

No.	Size	Qty/Ctn	Wt/Ctn (lbs)
ADE MC2005M	20 mm x 5 mm (.79" x .20")	165lf	35.00

### Contact Adhesive

**2141 Adhesive:** is easy-brushing, general purpose rubber adhesive with excellent water resistance. Good for concrete, steel, neoprene, butyl and natural rubber. Surface must be clean, dry and dust free. Apply adhesive to both surfaces and allow to initially dry, typically 5-10 minutes. Press surfaces together. Bond life is up to 15 minutes. Coverage is 82 lf/qt.

No.	Size	Wt (lbs)
ADE Q2141	1Qt	2.50



### 80 Spray Adhesive

**Description:** Neoprene-based aerosol contact adhesive. Plasticizer resistance. High temp. resistance to 200° F. Fast drying; Fast bonding. Durable - high strength adhesive.

**Application:** Bond all types of rubber except EPDM. Bond most supported vinyl, leather. Adhere stainless steel panels, stiffeners, and metal kick plates. Adhere many plastics, laminate and wood products. Recommended for bonding ADEKA preformed waterstops.

**Coverage:** 24 oz. can yields = approx. 75 ft<sup>2</sup>

No.	Size
TM 80	24 oz. can, 12/case, 13 lbs.

# 230

## MASONS SUPPLY COMPANY

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Clackamas | Eugene | West Eugene | Hillsboro | Medford | Portland | Salem | Wilsonville | Ridgefield | Seattle | Tacoma | Woodinville



## KM-String

Pre-formed string. Used to waterproof sheet piles and cracks where running water is present. String size should be 1.2 times the width of the gap. Size approximately 0.2" ~ 1.6".

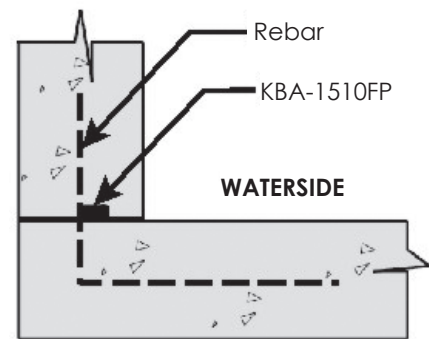
## KBA-1510FP

Pre-formed rubber strip. Used in non-moving joint where less than 4" of concrete coverage is available. Can be used outside of rebar. Low expansion pressure can be used with limited concrete coverage (2"). Expands approximately 25% by volume. Attach with glue or P-201 (may need screws with P-201). C approximately 0.6" x 0.4".

### Minimum Use Conditions:

Wall/thickness greater than 4".  
Minimum 2" concrete coverage.  
Can be used with single row of rebar or double row of rebar.  
Below grade or water present either side of wall/slab joint.  
Hydrostatic head less than 25 ft.

No.	Size	Qty/Ctn	Wt (lbs)
ADE KBA1510FP	15mm x 10mm (.59" x .39")	82 lf	8.0



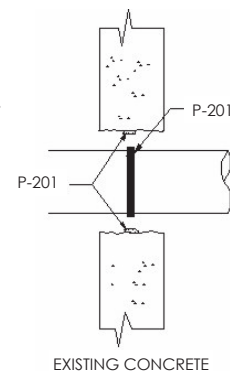
## P-201 Cartridge

A single component hydrophilic compound used in water and repair applications. It can be placed on damp or uneven surfaces and functions in a wide range of temperature ground water conditions. P-201 is used in pipe penetrations, preventing water penetration in sheet piles, pre-cast concrete joints, and a variety of joint and crack repair applications. P-201 is used in conjunction with formed Adeka waterstops whenever damp or rough surfaces are encountered. Expansion rate of P-201 is 80%. 6 per case. See technical bulletin for more information.

### Minimum Use Conditions:

Wall/slab thickness greater than 6".  
Pipe diameter greater than 2" and less than 24" (check with Masons for exceptions).  
Typical bead size 3/8" x 1/2".  
Will withstand high hydrostatic head.  
Must be cured before placing concrete.  
Curing time dependent upon temperature and humidity.  
Minimum 2-1/2" concrete coverage.

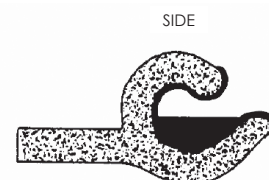
No.	Size	Wt (lbs)
ADE P201	11 fl oz. cartridge	1.20



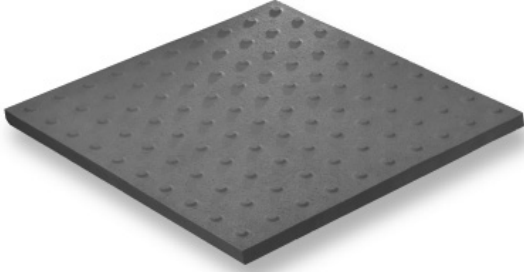
## A-30

A-30 is a liquid rubber has a high expansion rate when it comes in contact with water. Used to fill the gaps of interlocking sheet pile. See technical bulletin for more information.

No.	Size	Wt (lbs)
ADE A30	4.0 gal. pail	50.0



## Concrete Tactile Warning Panels



## CASTinTACT®

A dependable long term solution meeting ADA Federal Guidelines for detectable warning. Designed for exterior use at the bottom of curb ramps and other locations such as depressed corners, raised crosswalks, raised intersections, borders of medians and islands, the edge of transit platforms, and sidewalks where railroad tracks cross as required under Section 504 of the Rehabilitation Act of 1973 and the American with Disabilities Act - 28 CFR Part 35 Title II and 28 CFR 36 Title III.

**CASTinTACT® - High strength cementitious concrete panels - enhanced with microsilica - 3 dimensionally reinforced with structural fibrillating monofilament fibers.**

Cementitious concrete panels offer dimensional stability and compatibility to concrete; similar co-efficient of expansion as base. Superior strength, durability and abrasion resistance achieved with an engineered mix design.

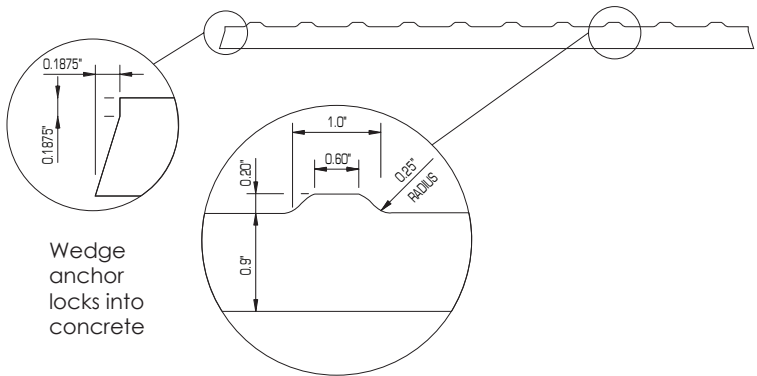
Microsilica enhanced to increase compressive strength and reduce

permeability to chloride ion intrusion; resists severe exposure to wet freeze thaw damage and de-icing chemicals.

Three dimensional reinforced with fibrillating monofilament fibers to increase flexural strength, ductility and toughness.

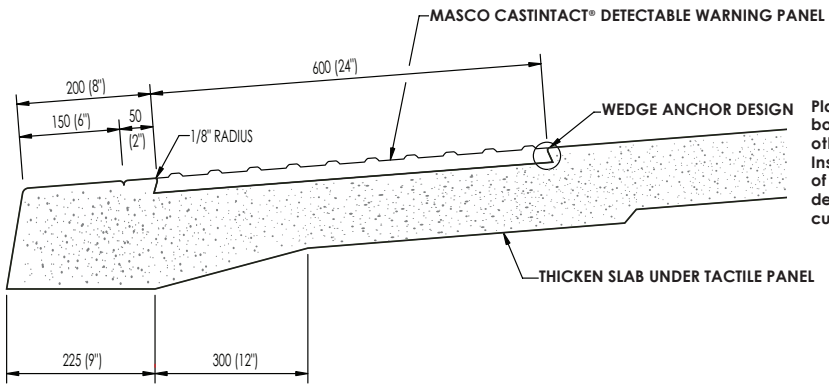
Panels are architectural finished to enhance concrete work. Full depth UV and weather proof integral colors provides long term visual contrast. Textured concrete finish for wet and dry slip resistance.

**CASTinTACT® panels are uniquely installed in a patented early entry-fast set method that takes 10 minutes.** Panels are recessed flush to surface and bond to concrete base becoming a integral and permanent part of the walking surface. Because they are concrete, they offer long term durability, compatibility, similar coefficient of expansion as the concrete base, and easy to clean, maintain and repair.



Dome Specifications	
Dome Base	0.9"-1.4" (23-36 mm)
Dome Top	50-65% of the base diameter
Dome Height	0.2" (5 mm)
Dome Spacing	1.6" min - 2.4" max
Base to Base Spacing	0.65" (17 mm) min

### CASTinTACT® - Installed Cross Section



Place CASTinTACT® 3 at the bottom of curb ramps and other blended transitions. Install across the full width of ramp a minimum 24" in depth and set back 8" from curb line.

**MADE IN THE USA**

Additional information available on [www.CASTinTACT.com](http://www.CASTinTACT.com)

**Installation Tools Needed:**

**INSTALaTACT®**  
 MA CT2 (2'X4' TOOL)  
 MA CT3 (3'X4' TOOL)

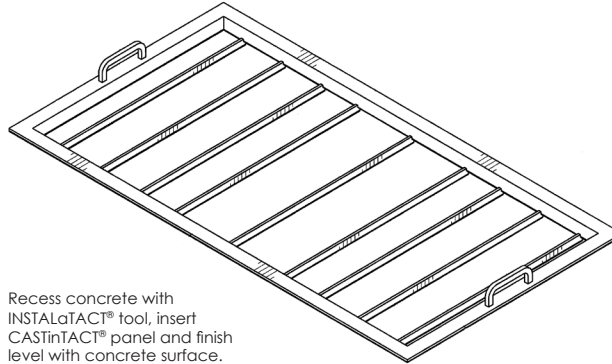
- Level
- Square Point Shovel
- Wood Float
- Rubber Mallet
- Sprayer for Water
- Buckets
- 1/8" Radius Edger
- Hydra Sponge
- Stainless Steel Wire Brush

**Supplies Needed:**

- CASTinTACT®** Panels
- CASTinTACT® PreMix or Portland Cement
- Masons Sand
- Potable Water

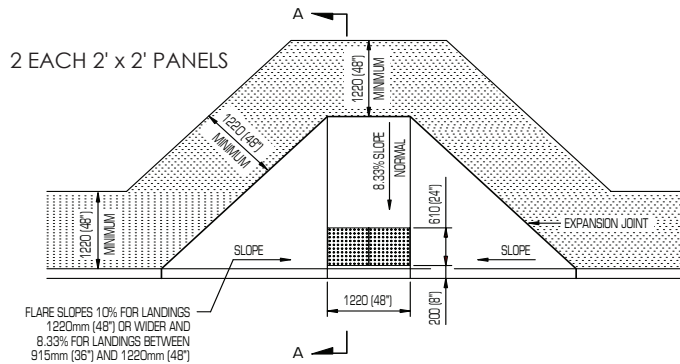


CASTinTACT® PANELS ARE EARLY ENTRY-FRESH SET WITH INSTALaTACT® TOOL  
 US Patents 7,000,361 & 7,121,048.



Recess concrete with INSTALaTACT® tool, insert CASTinTACT® panel and finish level with concrete surface.

**Ramp drawings available**



1220mm (48") PERPENDICULAR SIDEWALK RAMP DETAIL

The selection and use of this drawing, while designed in accordance with generally acceptable engineering principles and practices, is the sole responsibility of the user and should not be used without consulting a registered professional engineer.

**CASTinTACT® Advantage:**

- ❑ Cementitious concrete panels used for both new construction and retrofit.
- ❑ Easy to cut and core, uses on radiuses, around bollards, stairs, and vault boxes.
- ❑ Textured concrete finish for wet and dry slip resistance.
- ❑ High compressive and flexural strength, durable, tough and crack resistant.
- ❑ Contrasting color is integral throughout concrete panel.
- ❑ Compatible with concrete base, similar thermal co-efficient of expansion as base.
- ❑ Resistant to severe exposure, wet freeze thaw damage from de-icing chemicals.
- ❑ Panels become an integral and permanent part of the walking surface.
- ❑ Unique patented early entry-fast set installation method that takes 10 minutes.
- ❑ **CASTinTACT® panels do not float during installation. Panels stay where placed.**
- ❑ Eliminates air pockets, voids, tripping hazards and ballast weight used during installation.
- ❑ Panels appearance improves with wear and age.
- ❑ Easy to clean, maintain and repair.

Technical support available with seminars, specifications, and drawings.

On site training available.

Everything needed for successful project!

CASTinTACT® is offered with a five year limited warranty and will certify panels to meet or exceed internal standards as well as previously stated ASTM performance standards.



Additional information available on [www.CASTinTACT.com](http://www.CASTinTACT.com)



## Concrete Tactile Warning Panels

### CASTinTACT® Panel Specification

Panel Thickness 0.9"		
Reinforcement	Monofilament self fibrillating polypropylene / polyethylene structural fiber.	
Compressive Strength	ASTM C 140	10,000 psi average
Flexural Strength	ASTM C 293	1,100 psi average
Water Absorption	ASTM C 140	< 5% average
Freeze Thaw Durability	ASTM C 1262 (100 cycles) 3% NaCl	< 1%
Freeze Thaw Durability	ASTM C 1645 (25 cycles) 3% Saline Solution	Passed
Scaling Resistance	ASTM C 672 (50 cycles)	0 - 1
Abrasion Resistance	ASTM C 779 (1 hour)	< .02"
Abrasion Resistance	ASTM C 418	< .02 cm <sup>3</sup> /cm <sup>2</sup>
Slip Resistance	ASTM C 1028 Modified	> .8 wet or dry
Rapid Freezing & Thawing	ASTM C 666 (300 cycles) Procedure A	100%
Flexural Strength	ASTM C 348	2,000 psi

### CASTinTACT® Panel Dimensions (Top Face)

2.35" Dome Spacing	Actual Sizes
2' x 2' Panel	23.5" width x 24" depth
2.5' x 2' Panel	30.55" width x 24" depth
3' x 2' Panel	23.5" width x 36" depth
Dimension Tolerances:	
+/- 1/8" (width, length, height)	

CASTinTACT® has been successfully used by many states and cities in the United States. Call for a list of projects in your area.

### Panel Sizes & Colors

No.	Description
MA CT22B	2' x 2' Black
MA CT22SR	2' x 2' Salem Red
MA CT22W	2' x 2' White
MA CT22Y	2' x 2' Yellow
MA CT2.52B	2.5' x 2' Black
MA CT2.52SR	2.5' x 2' Salem Red
MA CT2.52W	2.5' x 2' White
MA CT2.52Y	2.5' x 2' Yellow
MA CT32B	3' x 2' Black
MA CT32SR	3' x 2' Salem Red
MA CT32W	3' x 2' White
MA CT32Y	3' x 2' Yellow
Pallet Sizes	
2' x 2' panels	48 panels / pallet (2,400#)
2.5' x 2' panels	38 panels / pallet (2,400#)
3' x 2' panels	34 panels / pallet (2,500#)

### Contrasting color is integral in panels!

CASTinTACT® panels comply with ADAAG visual contrast requirements of light-on-dark or dark-on-light with inert synthetic iron oxide pigments meeting ASTM C979 - Standard Specification for Pigments for Integrally Colored Concrete.

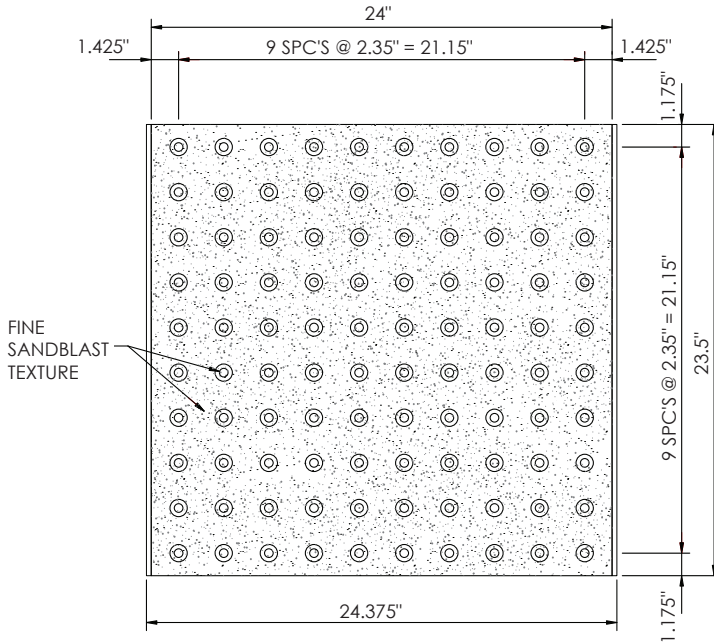
### Versatility of CASTinTACT® - New Construction & Retrofit

- Unique early entry - fast set method - 10 minute install
- Recess concrete with INSTALaTACT®, lock in CASTinTACT® panels, install control joints and finish. US Patent No. 7,000,361 & 7,121,048.
- Panel Caddy easily lowers panels into place. Increases efficiency. Patent Pending.
- Easy to cut and core drill. Use on radiuses, around vaults, bollards, and light standards.

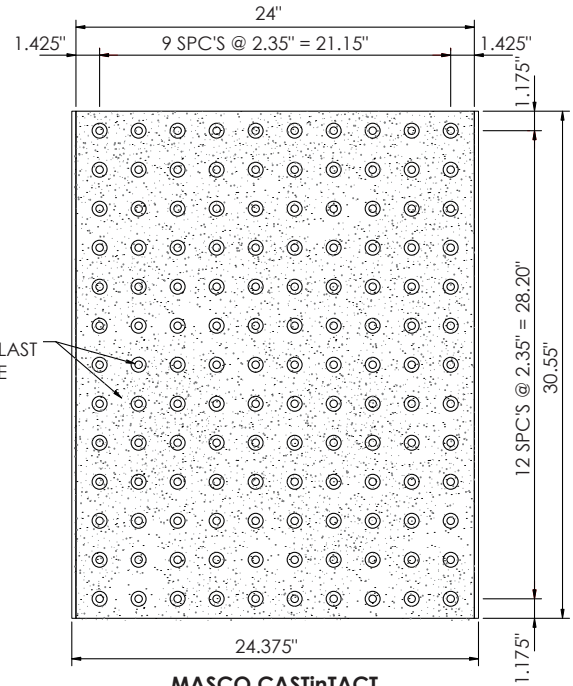
**Total CASTinTACT® Solution - Installation, Durability, and Maintainability.**

Additional information available on [www.CASTinTACT.com](http://www.CASTinTACT.com)

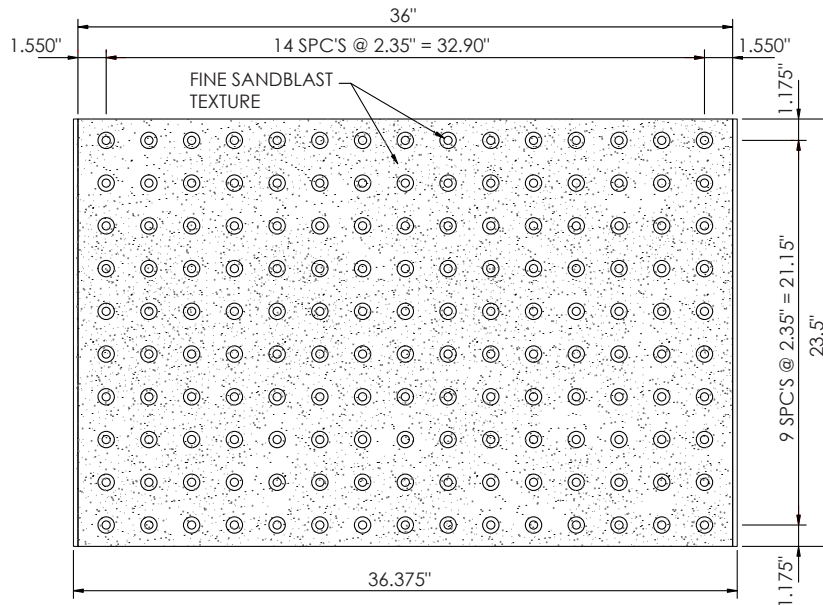
Panel Drawings



MASCO CASTinTACT  
CAST-IN-PLACE DETECTABLE  
WARNING PANEL 24" x 24"  
PART # MA CT22(CLR)



MASCO CASTinTACT  
CAST-IN-PLACE DETECTABLE  
WARNING PANEL 30" x 24"  
PART # MA CT2.52(CLR)



MASCO CASTinTACT  
CAST-IN-PLACE DETECTABLE  
WARNING PANEL 36" x 24"  
PART # MA CT32(CLR)

Additional information available on [www.CASTinTACT.com](http://www.CASTinTACT.com)

## Concrete Tactile Warning Panels

### Installation

- Versatile for all exterior applications.
- Fast installation into fresh concrete; typical fresh set curb ramp takes 10 minutes.
- Recess flush, becoming an integral part of the walking surface, adding structural integrity.
- Panels remain flush with surface - no floating for tripping hazards.
- Proper control joints easily cut during early entry - fresh set install, preventing random cracking.
- Adaptive - easy to cut and core drill with diamond blades on the job.
- Drawings available in .DWG and .PDF formats online.
- Contractor training available by local distributors.

### Weathering

- Compatible with substrate; similar thermal coefficient of expansion as concrete.
- Engineered panel resists damaging effects from deicing chemicals & freeze thaw cycles.
- Cementitious concrete panels handle a wide range of temperatures.
- Integrally pigmented panels maintain color fastness with exposure to weather and sunlight.
- Concrete panels absorb and retain heat to melt snow and ice faster.

### Durability

- High strength cementitious concrete uniquely cast to produce a very dense compacted panel.
- Structurally reinforced to add strength and durability.
- Panels resist cracking and damage.
- Superior abrasion resistance is achieved with an interlocking mixture of granite and quartz aggregate.
- Panels recess to become an integral, permanent part of surface.

**CASTinTACT® is offered with a five year limited warranty and will certify panels to meet or exceed internal standards as well as previously stated ASTM performance standards.**

### Maintenance/Repair - REPAIRaTACT® Tool

- CASTinTACT® concrete panels are easily cleaned by pressure washing.
- Mild detergent washes and commercial concrete cleaners speed process.
- Cementitious panels can be repaired without replacing the entire ramp.
- Truncated domes are easy to core drill and replace.

Repair Truncated Dome Panels  
Keep your ramps in compliance.  
**CASTinTACT®** cementitious concrete panels can be repaired fast and easy without replacing the entire ramp.



REPAIRaTACT Tool

MA RT

Additional information available on [www.CASTinTACT.com](http://www.CASTinTACT.com)

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## Early Entry - Fresh Set

### 3.3 CAST IN PLACE INSTALLATION PROCEDURES

- ▶ **A.** Temperature affects the setting time and rate of strength of concrete, standard ACI procedures for storing, mixing, and placing concrete in hot or cold weather are recommended. See ACI 305 "Standards on Hot Weather Concreting," or ACI 306 "Standard on Cold Weather Concreting."
- B.** Provide expansion and control joint width indicated in drawings. All joint materials used follow manufacturer's directions and instructions.
  - 1. Expansion joints must be carried through all layers of installation materials including warning panels, concrete substrate and steel reinforcing. Joints should be spaced typically 8' to 12' in both directions. All perimeter edges of ramps or blended transitions should have expansion joints. (Refer to ACI 360R guidelines for details on placement, size and specifications of material)
- C.** Position forms for proper grade, slopes and uniform slab thickness. Consult contract documents for details on reinforcement and joint placement to prevent random cracking.
- D.** The concrete specified shall conform to contract documents with a maximum slump of 4". Concrete shall be poured and finished to the proper grade and slope prior to warning panel placement. Concrete thickness shall be increased 1" in depth beneath area receiving warning panels.
- E.** Consult contract documents for more information on locations to receive detectable warning panels.
  - 1. Monolithic poured curb and sidewalk - place panels 6" to 8" from curb line.
  - 2. Existing curbs - place panels 8" from curb line to allow 2" of new concrete in front of panels.
  - 3. Install across the full width of ramp or blended transition a minimum 24" in depth.
- F.** Recess panels below finish grade with **INSTALaTACT®** installation template tool before initial concrete set and level base with wood float to leave an open surface.
- G.** Pre-dampen back of **CASTinTACT®** panels with potable water. Apply 1/8" thickness of **CASTinTACT® Wet Set PreMix** (3:1 ratio of powder to potable water) or (1:1:½ ratio of Portland cement, clean masons sand and potable water). Work into textured surface on back of panel with rubber float for 100% surface coverage. Alternatively a scrub coat of fresh concrete removed from the **INSTALaTACT®** tool can be used as a parge coat.
- H.** Install Tactile Panels immediately in fresh concrete and lightly tap panels to grade using a rubber mallet to insure bond and 100% surface contact. **Wedge or flared edge of panel facing the curb and square edges of panel joints butted together.** Base of

truncated dome should be flush with adjacent surfaces to permit proper drainage and eliminate tripping hazard between surfaces. Tolerance between tactile panels and surrounding surfaces is 1/16" maximum. Immediately after placement re-check slope and elevation for proper grade.

ALTERNATE (EXTREME CLIMATES) Leave a 3/16" gap between square cut panels joints and seal with a compatible elastomeric sealant conforming to ASTM C920. Follow sealant manufacturer's recommendations for joint preparation and installation procedures. Protect from traffic until sealant cured.

**I.** Finish surrounding concrete flush with tactile panels. Edge around panels with 1/8" radius edger, install control joints and finish in accordance with project specifications.

**J.** Finish joints per specifications. Follow all manufacturer's recommendations for joint preparation and installation procedures.

**K.** Clean fresh dried concrete residue off panels with a stainless steel wire brush and rinse with clean water and hydra sponge to ensure a clean appearance.

**L.** Fresh concrete surrounding tactile panels should be cured in accordance with ACI 308. Use a curing compound meeting ASTM C 309. **PROTECT PANELS WITH PROTECTaTACT OR SIMILAR WHILE SPRAYING CURING COMPOUND.**

### ▶ 3.4 CLEANING

- A.** Remove all unused material, tools, and equipment. Dispose of properly.
- B.** If the detectable / tactile surface requires, clean the panels in accordance with **CASTinTACT® Cleaning and Maintenance Guide.**

### ▶ 3.5 PROTECTION

Protect the **CASTinTACT®** Warning Panel surface from traffic until desired strength is achieved. If necessary, protect panels with plywood and a underlayment layer of non-staining, non-woven curing blanket until acceptance of work. Secure plywood if needed.

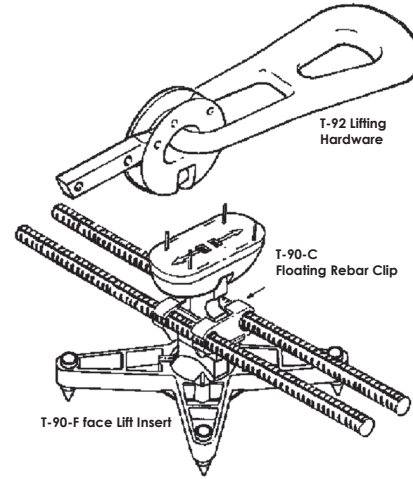
### ▶ 3.6 STORAGE

Store products under cover in manufacturer's unopened packaging until ready for installation. Store pallets on supported flat surface. **DO NOT DOUBLE STACK PALLETS.**

Download the full specifications online at [www.CASTinTACT.com](http://www.CASTinTACT.com)

### Tilt-up 3 system

Offers the Tilt-Up contractor an economical, strong method to lift, handle and place concrete tilt-up wall panels. The System features a design that utilizes the same lifting hardware for both face lift and edge lift applications. This system is a high quality, high strength, quick connect disconnect.



### T-92 lifting hardware

Consists of a clutch body, curved bolt/release arm and high strength bail. The bail is designed to readily align itself to the pull of the rigging. Once the hardware is properly engaged and under load, the hardware cannot be disengaged. Remote ground release is easily accomplished after the load has been relaxed. The hardware is designed to service both face lift and edge lift system conditions. SWL is 15,000 lbs. with an approximate factor of safety of 5 to 1.

No.	Wt (lbs)
DS 122026	10.0

### T-90-F Face Lift insert

Furnished as an assembly, complete with the strong forged foot insert, wide spread, stable plastic base, floating rebar clip and plastic locator setting plug. The face lift insert is easy to position and tie to the rebar mat. The rebar clip provides a quick, positive method of fastening the insert to the rebar mat. The clip slips onto the body of the insert where it floats with any movement of the rebar mat, preventing misalignment of the insert due to fluctuations of the rebar mat.

No.	Size	Wt (lbs)
DS 5FL	5"	1.60
DS 512FL	5-1/2"	1.65
DS 6FL	6"	1.70
DS 612FL	6-1/2"	1.75
DS 7FL	7"	1.80
DS 712FL	7-1/2"	1.85
DS 8FL	8"	1.90

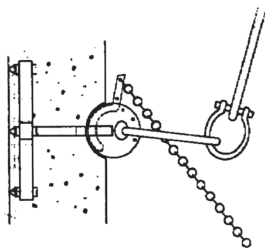
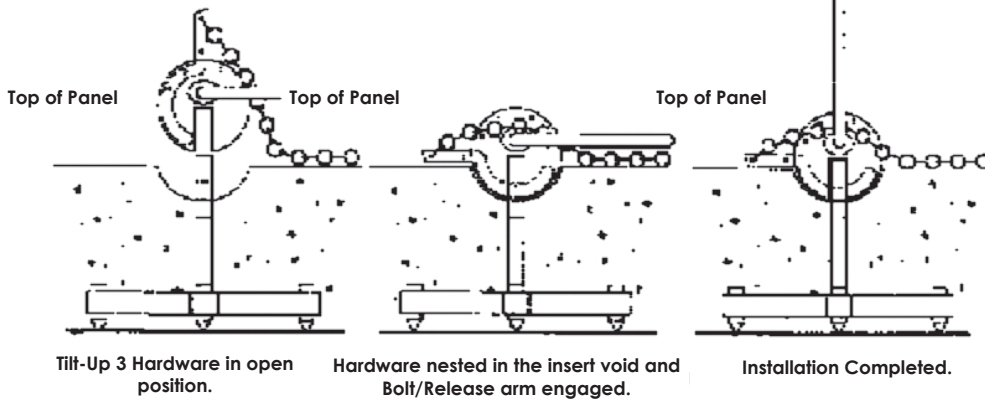
### T-90-F Face Lift Insert Selection Chart:

Structural Panel Thickness	5"	5-1/2"	6"	6-1/4"	6-1/2"	7"	7-1/4"	7-1/2"	8"
Insert Safe Working Load (lbs)	8,000	10,000	12,000	12,500	13,000	15,000	15,000	15,000	15,000

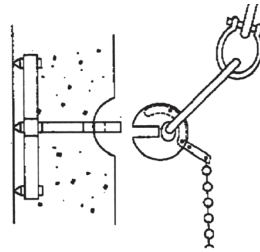
DO NOT use with seeded aggregate 1/2" or larger as aggregate may "pop out" during the erection process, resulting in a reduced insert safe working load.

SWL provides a factor of safety of approximately 2 to 1 in 2,500 psi normal weight concrete.  
Consult manufacturers data on values on shear and reduced edge distance.

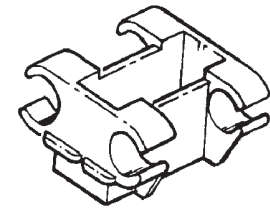




The crane line should be slackened slightly to permit the release of the lifting hardware.



To release the hardware, apply a quick, even downward force to the release line.

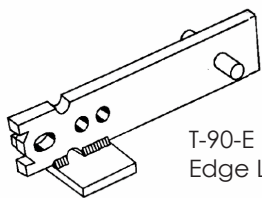


T-90-C  
Rebar Clip

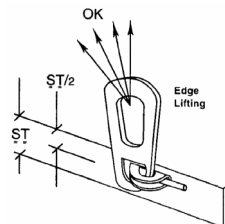
### T-90-E Edge Lift Insert

Has an integral shear plate for maximum transfer of shear load into the concrete. The insert is furnished with a disposable recess plug that is used to attach the assembly to the panel form. Make certain that the crane applies the lifting load in a direction toward the top of the panel or perpendicular to the casting bed. DO NOT allow the crane to apply a load toward the bottom of the panel.

No.	Size	Wt (lbs)
DS FL147	2 ton	2.25
DS FL148	4 ton	5.41
DS FL149	8 ton	10.50



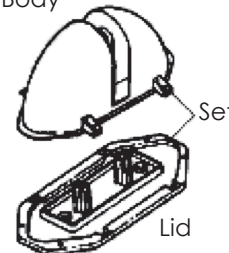
T-90-E  
Edge Lift Insert



### T-90 Edge Lift Chart:

Structural Panel Thickness	Shear Safe Working Load (lbs.)	Tension Safe Working Load (lbs.)
4"	4,300	4,700
5"	5,250	5,900
6"	6,200	7,000
7"	7,050	8,200

Body



Set  
P-99-D  
Disposal Recess  
Plug  
Lid

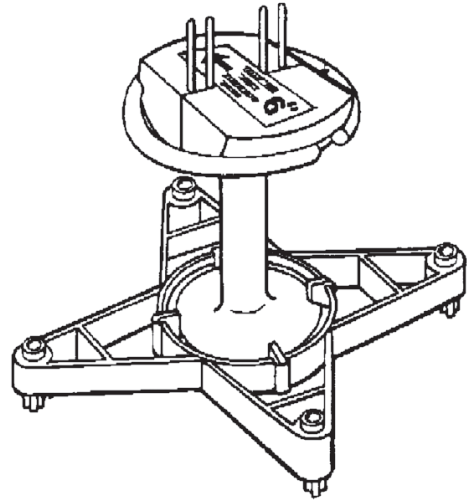
SWL provides a factor of safety of approximately 2 to 1 in 2,500 psi normal weight concrete. Consult manufacturers data on values on shear and reduced edge distance.

### Ground Release II Insert

The Ground Release II System is a unique method of tilting concrete tilt-up wall panels into position and allows the hardware to be easily released from the ground. Ladders are normally not required during the hardware release process which greatly increases worker safety and productivity.

#### Features of the Ground Release II Insert:

- Flexible Plastic Antenna folds over when screed passes, but springs back to indicate insert location.
- Plastic Recess Plug creates a void for attaching the Ground Release II Lifting Hardware to the insert head. The expendable plastic recess plug is easily removed from the hardened concrete.
- Directional Label indicates correct panel thickness and direction of plastic recess plug in relation to top and bottom of panel.
- Ground Release II Anchor. This hot forged anchor permits rapid hardware attachment and allows smooth rotation of the hardware during the releasing operation.
- Plastic Support Base is designed to provide maximum support and stability for the Ground Release II Anchor and eliminates any potential rust problems.
- Ground Release II Inserts are shipped assembled, ready to use and are sized 1/8" less than panel thickness.  
SWL provides a safety factor of approximately 2 to 1 in 2,500 psi normal weight concrete.  
Consult manufacturers data on values on shear and reduced edge distance.



No.	Size	Wt (lbs)
DS 5GR	5"	1.60
DS 512GR	5-1/2"	1.65
DS 6GR	6"	1.70
DS 612GR	6-1/2"	1.75
DS 7GR	7"	1.80
DS 712GR	7-1/2"	1.85
DS 8GR	8"	1.90

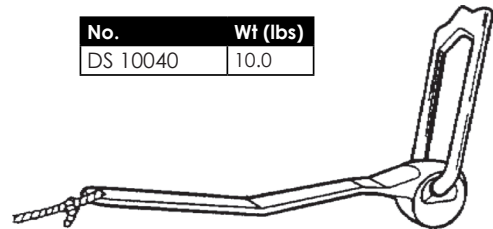
Single Ground Release II Insert Selection Chart								
Structural Panel Thickness	5"	5 1/2"	6"	6 1/2"	7"	7 1/2"	8"	
Ground Release II Anchor Length	3 3/4"	4 1/4"	4 3/4"	5 1/4"	5 3/4"	6 1/4"	6 3/4"	
Insert Safe Working Load (lbs)	8,000	10,000	12,000	13,000	15,000	15,000	15,000	15,000

### Ground Release II Lifting Hardware

Ground Release II Lifting hardware unit offers you, the tilt-up contractor, the latest and easiest to use tilt-up lifting hardware unit on the market today! This new lifting hardware unit is a simplified design and when combined with our Ground Release II Insert provides you with a superior system for the quick and efficient erection of tilt-up concrete wall panels.

- Bail will accept all conventional crane attachments. Unit moves easily as it follows line of action of crane cable.
- Lifting Body attaches to head of insert. Whenever diagonal loads are applied to the bail, the result is a combination of a compressive load applied to the concrete and a tension load applied to the insert.
- Release Line is a 1/2" hollow braided Polyethylene Cord of sufficient length to reach the ground.
- SWL is 15,000 lbs with an approximate factor of safety of 5 to 1.

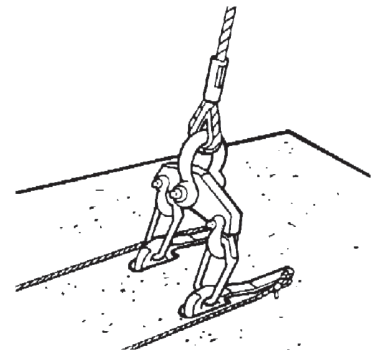
No.	Wt (lbs)
DS 10040	10.0



## Double Ground Release II System

Over the last few years, Dayton Superior has seen a trend develop towards the use of heavier tilt-up wall panels on many of the tilt-up projects erected in the United States. In an effort to reduce the number of rigging changes required, when these heavier panels are to be erected, Dayton Superior has developed and tested a new, double insert lifting system for increased lifting capacity. This new lifting system consists of two Ground Release II inserts, two Ground Release Lifting Hardware units and the Ground Release II Spreader Beam with twin 8½ ton shackles. In order to develop the safe working loads listed in the Double Ground Release II Insert Selection Chart, our Ground Release II Inserts must be spaced by the panel contractor at 12" on center. A spacing of less than 12" will greatly reduce the lifting capacity of the system and the use of wider spacings is not recommended. After the tilt-up panel has been lifted into position and properly braced off, the two Ground Release II hardware units are released from the panel in the very same manner used to release single unit. SWL provides a safety factor of approximately 2 to 1 in 2,500 psi normal weight concrete. Note you must use 2 ground release inserts spaced at 12" on center to obtain SWL on chart. Consult manufacturers data on values on shear and reduced edge distance.

DOUBLE GROUND RELEASE II							
Structural Panel 5" Thickness	5"	5½"	6"	6½"	7"	7½"	8"
Ground Release II Anchor Length	3¾"	4¼"	4¾"	5¼"	5¾"	6¼"	6¾"
Insert Safe Working Load (lbs)	13,000	15,000	17,000	19,000	22,000	24,000	26,000



**SWL provides a factor of safety of approximately 2 to 1 in 2,500 psi normal weight concrete. Consult manufacturers data on values on shear and reduced edge distance.**

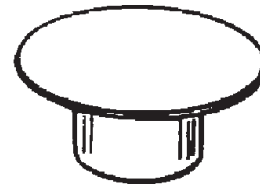
## Northwest Bondbreaker Fast Dry

NORTHWEST BONDBREAKER FAST DRY is a fast drying, long chain, chemically reactive bondbreaker for tilt-up construction. It is formulated specifically for the unique climate of the Northwest United States and is available exclusively from Masons Supply Company. NORTHWEST BONDBREAKER FAST DRY is free of silicones, resins, and waxes. Panels will lift clean and free of resin staining. Organic compounds in NORTHWEST BONDBREAKER FAST DRY react with the free limes in the concrete, produce gels that form a water impermeable barrier. The water impermeable barrier restricts mix water (needed for hydration) from being sucked into the casting slab. The resulting downside surface of the panel will be stronger and have a more uniform appearance.

No.	Size
MS 5GNWB	5 gal pail, 50 lbs, 36 pallet
MS 55GNWB	55 gal Drum, 550 lbs
See <b>MASCO LIQUID &amp; POWDER CATALOG</b> for more information.	

## Ground Release Patch Cap

- Cost savings of 60% over conventional grouting methods.
- Fast and easy to install; no more messy grout patching.
- 6" diameter flange covers insert hole.
- Beveled flange edge and friction lock cylinder assures tight, flush fit.
- Available only in concrete grey ABS paintable plastic.
- Packaged 20 pcs. per bag.



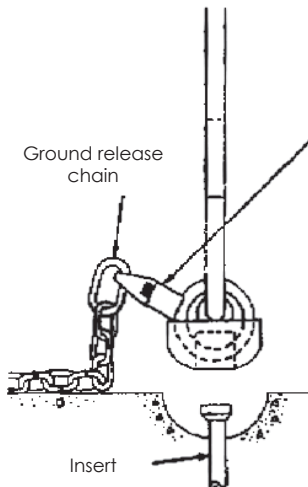
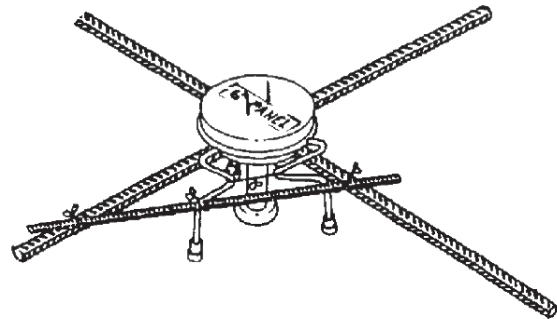
No.	Wt/Ctn (lbs)
DS 60888	1.3

SWL provides a factor of safety of approximately 2 to 1 in 2,500 psi normal weight concrete.  
Consult manufacturers data on values on shear and reduced edge distance.

## Gyro Tilt Plus System

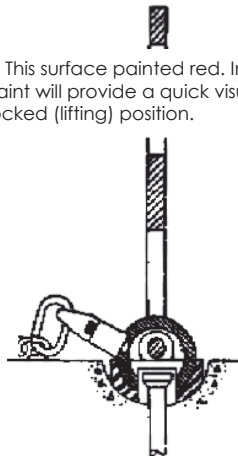
**Insert** - The GTP inserts are simply wired to the rebar mat at designated points. No special orientation is required but reasonable care should be taken to assure that the insert is the correct overall height for the panel and remains perpendicular to the panel face during concrete placement.

**Hardware** - After proper concrete cure, the GTP Hardware is attached to the crane rigging and moved to the panel to be picked. The plastic void cap is removed from the insert assembly and the void checked for foreign matter. The hardware is then placed in the void in the "open position" which allows the hardware to nest into the ring of the "closed position" engages the hardware ball/detent lock-up, captures the insert and allows the lifting sequence to begin. Visual inspection will confirm proper hardware installation.

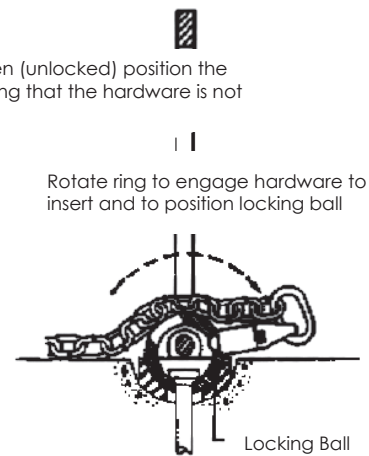


**Gyro Tilt Plus Hardware  
in open position**

**NOTE:** This surface painted red. In the open (unlocked) position the red paint will provide a quick visual warning that the hardware is not in a locked (lifting) position.



**Hardware nested  
in the insert void**



**Installation Complete  
Locking Ball in position**

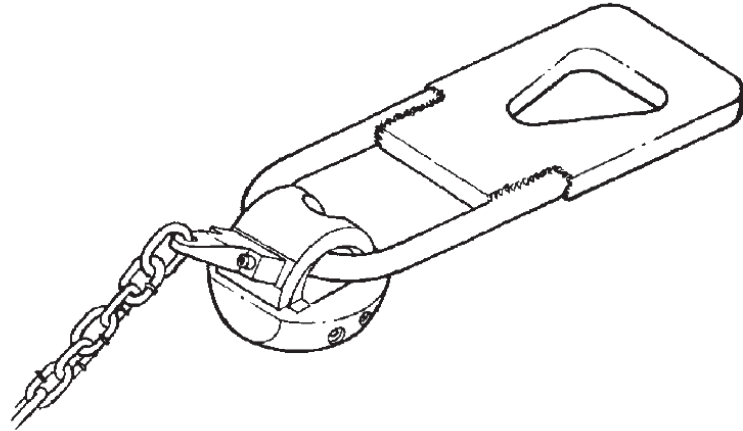
**GYRO TILT PLUS INSERT FACE LIFT SAFE WORKING LOADS**

Panel Structural Thickness mm	5"	5½"	6"	6¼"	6½"	7"	7¼"	7½"	8"
Insert Safe Working Load	8,000	10,000	12,000	12,000	13,000	15,000	15,000	15,000	15,000

**SWL provides a factor of safety of approximately 2 to 1 in normal weight 2,500 psi concrete. Consult manufacturers data on values on shear and reduced edge distance.**

### Gyro Tilt Plus Hardware

The Gyro Tilt Plus is the natural, evolutionary development of the parent Gyro Lift System. The addition of a simple ground release capability to the long list of design features of the parent system makes Gyro Tilt Plus an extremely versatile lifting system. The Gyro Tilt Plus System's expanded capabilities are nicely suited to tilt-up concrete construction. It's ease of use makes the erection and handling of tilt-up panels quick, safe and cost effective.

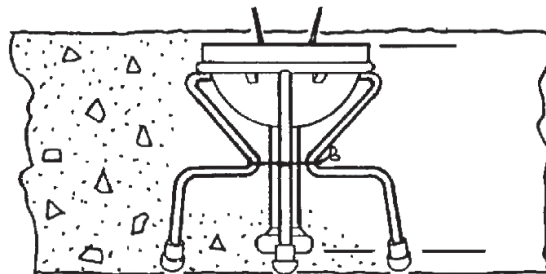
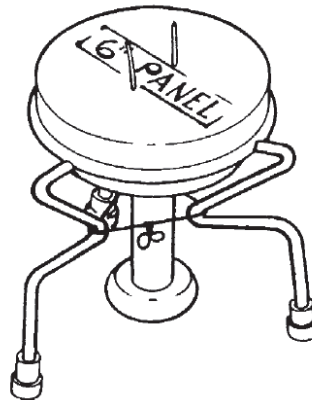


No.	Wt/Ctn (lbs)
RC 10013	13.5

### Gyro Tilt Plus Insert

The GTP Insert is a 3/4" diameter insert manufactured from high quality steel. The hot forged spherical head is engaged by the system hardware. The insert assembly is complete with a plastic void and plastic-protected wire base. The insert assembly is easily positioned and tied to the rebar mat and requires no special orientation.

No.	Size	Wt (lbs)
RC GP5	5"	1.60
RC GP512	5½"	1.65
RC GP6	6"	1.70
RC GP612	6½"	1.75
RC GP7	7"	1.80
RC GP714	7¼"	1.83
RC GP712	7½"	1.85
RC GP8	8"	1.90
RC GP812	8½"	2.53
RC GP9	9"	2.56

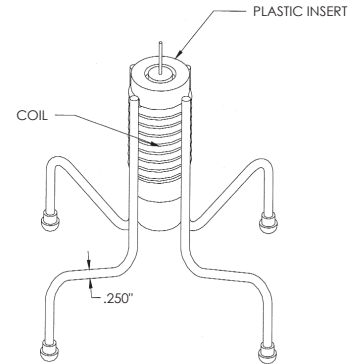


FACE LIFT APPLICATION

### Single Pick-up Insert

Used for fixing braces, attaching strongbacks and lifting. Wire legs have plastic tips and insert has a locator plug to locate the fixing point when the panel is erected. Minimum 15" edge distance is highly recommended or loads have to be reduced. Approximate 2:1 safety factor rating in 2500 psi concrete.

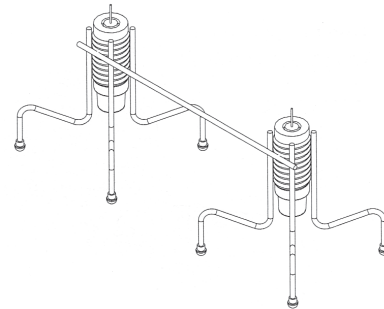
No.	Size	Wt (lbs)
DS T11512	1" x 5-1/2"	1.31
DS T116	1" x 6"	1.33
DS T11146	1-1/4" x 6"	1.92
DS T11147	1-1/4" x 7"	1.95
<b>Other sizes available on request.</b>		



### Double Pick-up Insert

Plastic tipped and have locator plugs installed. Available in 1" and 1-1/2" diameter. Spaced 12" and 15" from center. Used in combination with angle lifting plate. Minimum coil penetration for 1" is 2-1/2" and for 1-1/2" is 3". Approximate 2:1 safety factor rating in 2,500 psi concrete.

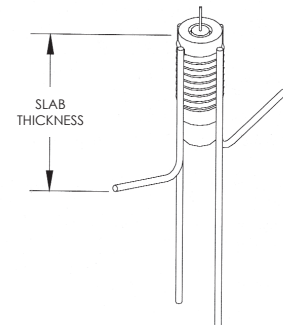
No.	Size	Wt (lbs)
DS T216	1" x 6"	3.04
DS T21612	1" x 6-1/2"	3.06
DS T217	1" x 7"	3.10
<b>Other sizes available on request.</b>		



### Slab Brace Anchor

Slab Anchors are 3/4" diameter inserts designed for anchoring wall braces to the floor slab. Slab Anchors have two legs that are pushed into the subgrade. Slab Anchors are designed for use in concrete slabs with a minimum thickness of 5" and minimum strength of 2,500 psi. Care must be taken when positioning the anchors. The horizontal strut bends must rest atop the subgrade for proper positioning. Do not allow the bends to be pushed into subgrade.

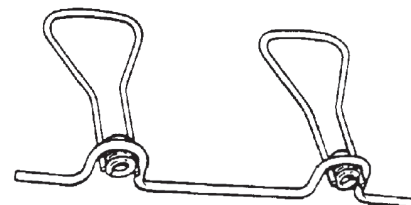
No.	Size	Wt (lbs)
DS T45	5"	1.00
DS T46	6"	1.25



### Edge Pick-Up Insert

Edge pick insert is used in the edge of precast or tilt up panels for lifting purposes. It is available with 3/4" or 1" dia. coils and uses standard coil bolts for setting and lifting.

No.	Size	Wt (lbs)
DS T33412	3/4" x 12"	3.0
DS T3112	1" x 12"	3.3
DS T311412	1-1/4" x 12"	3.5

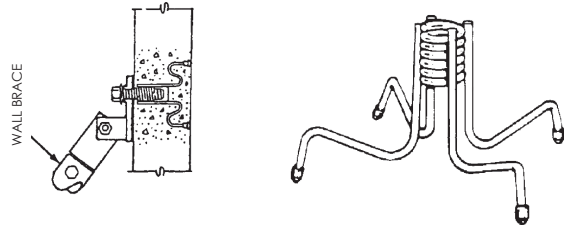


SWL information available on request.

### Wall Brace Anchor

For use in panels where the brace is to be attached to the "up face" of the panel as it lies on the casting slab. These anchors are often referred to as "standard" Brace Anchors. Use standard coil threaded bolts. Available in plastic tipped feet and insert locator plugs installed. Recommended minimum distance from edge of panel or panel opening is 12".

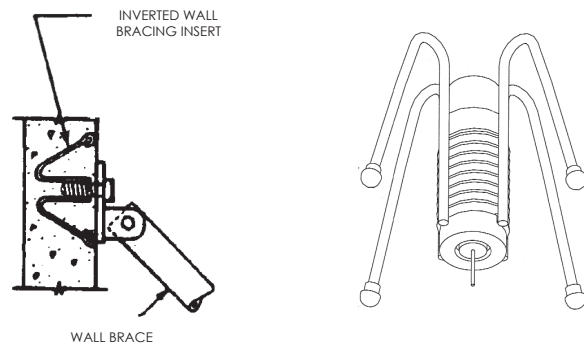
No.	Size	Wt (lbs)
DS 512T6A	3/4" x 5 1/2"	1.13
DS 6T6A	3/4" x 6"	1.17
DS 612T6A	3/4" x 6 1/2"	1.22
DS 7T6A	3/4" x 7"	1.27
DS 712T6A	3/4" x 7 1/2"	1.31



### Inverted Wall Brace Insert

For use in panels where the brace is to be attached to the "down face" or underside of the panel after it is lifted from the casting slab. These anchors are often referred to as "inverted" anchors. Uses standard coil threaded bolts. Supplied with plastic tipped feet and insert locator plugs installed. Approximate 2:1 safety factor rating in 2500 psi concrete. Recommended minimum distance from edge of panel or panel opening is 12".

No.	Size	Wt (lbs)
DS 5T5A	3/4"	0.80
DS 512T5A		
DS 6T5A		

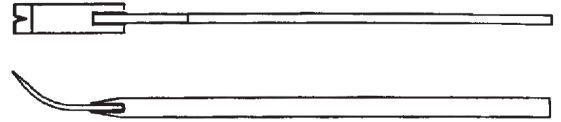


SWL information available on request.



### Stripping Bar

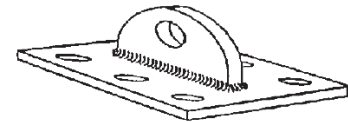
This all purpose is a heavy duty tool that has many uses on any jobsite, from stripping forms to jockeying tilt-up panels. The handle is fabricated from 1 x 2 tubular steel which is carefully mig-welded to a heat-treated milled blade.



No.	Size	Wt (lbs)
TBS S	3" blade width x 57"	14.0
<b>Stripping Bar Junior</b>		
TBS SJ	46"	12.0

### Drill-In Lift Plate

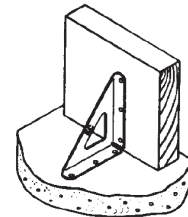
For use in Tilt-up panels when lifting inserts cannot be located. Consult Masons for technical information.



No.	Description	Wt (lbs)
DS 10052	Panic Plate	33.0

### Form Angle

The Form Angle (shelf bracket) is used for tilt-up perimeter forming is fabricated from 18 gauge galvanized steel which allows for numerous re-uses. The two sizes of holes permit various attachment methods. Used to fasten the angle to the floor slab and form lumber. Suggested spacing is 2'-0" on center when using 2x lumber as edge forms. 50 pcs per carton.

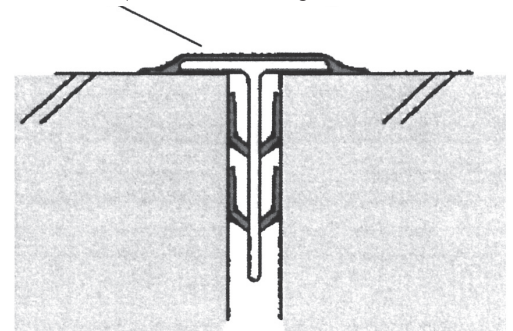


No.	Size	Wt (lbs)
CT CF6	7/8" x 5-3/16" x 6-15/16"	1.0

### Saw Cut Cover

This saw cut cover combines rigid and flexible PVC. This combination of materials provides a faster, easier method for temporarily sealing and protecting saw cut joints in your slab. Its rigid structure makes it easy to install compared to all flexible products. Its flexible fins ensure a **secure fit** in imperfect saw cuts, and a tighter seal against the slab than with all rigid products.

Unique Low-Profile Design

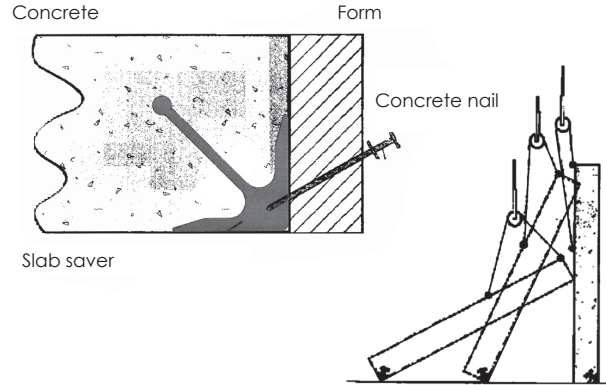


No.	Length	Wt (lbs)	Qty/Ctn
PS SCC	8' - 0"	0.22	100

## TILT-UP/PRECAST

### Slab Saver II

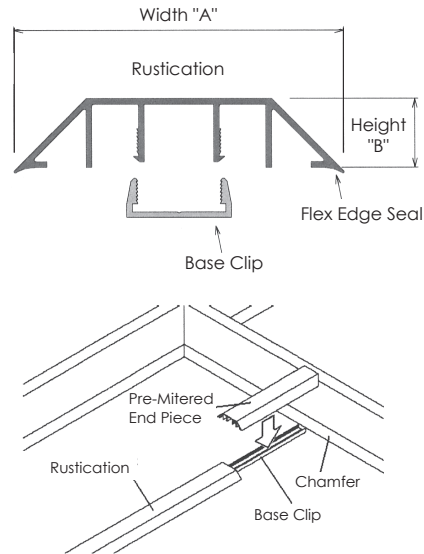
A patented product manufactured from durable polypropylene, molded into a "T" section with stem. The purpose of Slab Saver is to eliminate the scarring and damage of the concrete at time of lifting a tilt-up panel. After edge forms are put in place, a 2' piece of Slab Saver is put into each bottom corner of the panel and nailed into place. Concrete is poured, vibrated and consolidated around the stem of the Slab Saver. Nails are pulled and forms are removed. Slab savers are made from durable PVC and will not scratch your floors. They are easy to install and will help reduce your installation costs.



No.	Size	Qty/Ctn	Wt/Ctn (lbs)
PS 734	24"	42	38.0

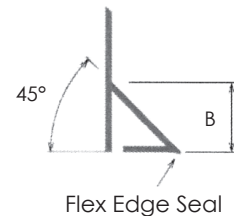
### Rustication - PVC Rigid

Rustications are made of durable PVC used for the addition of rustication bands in concrete. Incorporated in the patent pending design is a double 45° chamfer for a smooth concrete edge and concealed fasteners. Clean area where product is to be installed to allow the product to seal tightly against the casting surface. To install, place base clip down on casting surface and install fasteners at 16 to 24 inches on center. The base clip has been designed with a "V" groove to position the fastener or drill bit in the center of the clip. It is important the fastener head does not exceed a height 3/16" above the finish surface of the clip base. Once the clip base is securely fastened to the casting surface, place the Tru-Line rustication piece over the base clip, aligning the grooved tabs into the base clip. Apply pressure down vertically over the center of the Rustication, working from one end the other, until it locks into position. Since the Rustication is made of a smooth plastic, there is no need for form coating or oiling of the plastic, though oil may provide an easier release. Concrete can be placed directly on the surface, though care should be taken when concrete is pumped to place concrete directly over the center of the piece. Standard length is 8'. Additional base clips are available in 8'-0" lengths.



No.	Width "A"	Height "B"	Chamfer Angle	Pieces per Box	Wt/Ctn (lbs)
<b>Standard Profile</b>					
PS 712	2-1/2"	3/4"	45°	12	18.0
PS 713	3 1/2"	3/4"	45°	20	45.0
No.	Std. Lengths			Pieces per Box	Wt/Ctn (lbs)
<b>Base Clip II</b>					
PS 744	8'			60	25.0
No.	Description	Size	Chamfer Angle	Pieces/Ctn	Wt/Ctn (lbs)
PS 765	Hanging Chamfer	3/4" x 8'	45°	42	42.0

### HANGING SINGLE CHAMFER



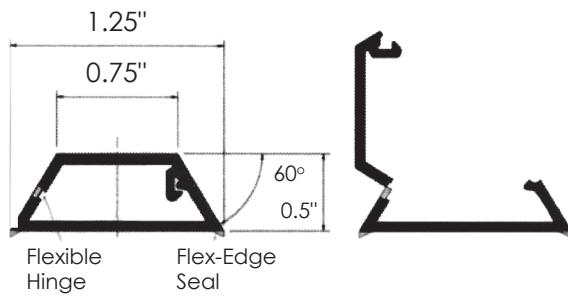
### Tri-SNAP Rustication

Tri-SNAP rustications create rustication bands (reveals) in concrete walls. They snap open to allow nails or other fasteners to be hidden to maintain a smooth, clean rustication each time. These are manufactured from a nonstick PVC and clean-up easily and can be reused as well.

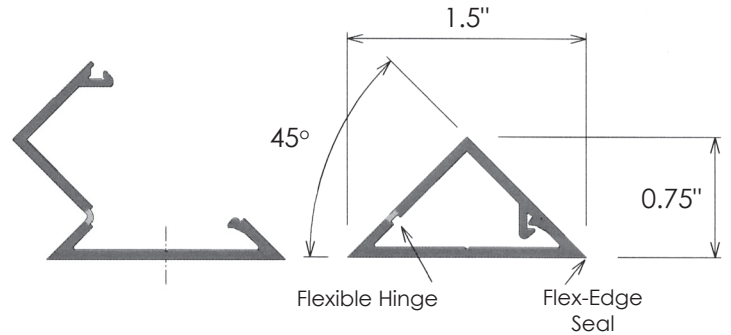
#### Benefits:

The Tri-SNAP makes fasteners virtually invisible by eliminating marks in the finish left by nail heads. The rustication's seal fits tightly against the casting surface - preventing concrete seepage. These rustications need far fewer fasteners than wood. TRI-SNAPS can also be glued into place. TRI-SNAPS are made from PVC, a perfect material because it cleans up so easily. You will save the cost and mess of form coat since PVC does not need a bond breaker.

No.	Size	Qty/Ctn	Wt/Ctn (lbs)
PS 756	1-1/4" x 3/4" x 8'	32 pcs	27.50
PS 742	1-1/2" x 3/4" x 8'	32 pcs	31.50



**1.25" Snap Rustication (PS 756)**



**1.5" Tri-Snap Rustication (PS 742)**

### F-26™ Construction Adhesive

A premium grade, heavy duty construction adhesive. Can be used to glue-down chamfers and rustications. Amazing bond and easy clean-up save the time and expense of patching holes left in your slab by fasteners. Works in any climate - It won't get runny or stiff! Dried adhesive can be scraped up after the tilt, leaving your slab clean and free of blemishes. Keep product away from any polystyrene plastic or lacquer surfaces.

#### Coverage:

Approximately 150-200 lineal ft./tube

#### Application:

Gun extrusion

#### Working Time:

Approximately 30 minutes

No.	Volume/Tube	Qty/Ctn	Wt (lbs)/Tube
PS F26	29 fl. oz.	12 tubes	2.30

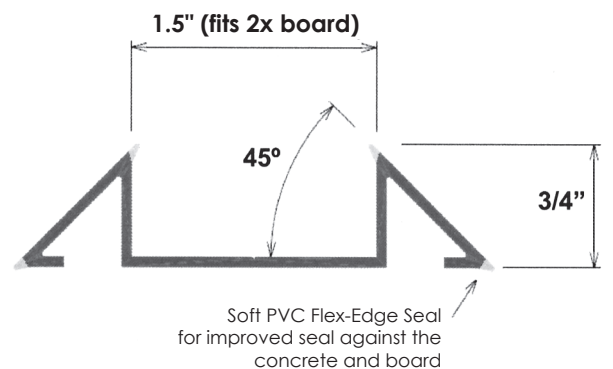


### Chamfers - PVC Rigid

Ideal for use in precast and tilt-up construction to support wood forms. Made from non-stick PVC, an ideal material because it cleans up so easily. PVC is reusable, making investment pay off many times. PVC does not need a formcoat or bond breaker so installation is easy and quick.

These chamfers form a tight seal against the casting surface so concrete doesn't flow where it doesn't belong. Seam lines are minimized with standard 8' lengths for a better appearance. Double chamfer accommodates 1-1/2" (2x) lumber. Rustications are stackable for easy storage between jobs.

#### Double Chamfer 2 x 3/4"



No.	Description	Chamfer Angle	Qty/Ctn	Wt/Ctn (lbs)
PS 863	2" x 3/4" Double	45°	25 pcs	48.00
PS 737	1.25" x 3/4" Double	45°	32 pcs	54.50

All parts 8 ft. in length

## TILT-UP/PRECAST

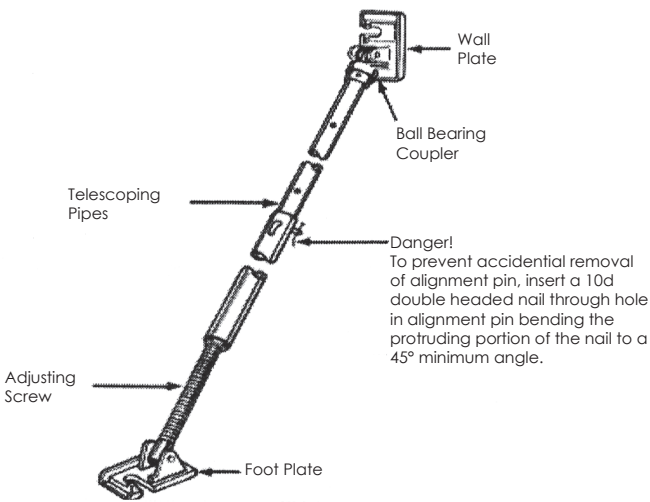
### Pipe Braces

The Tilt-Up Pipe Brace is a time tested accessory which has become the standard in tilt-up construction. Its proper relation of strength to weight permits ease of handling while providing a rugged brace which is easily adjusted. The tilt-up brace is attached to the panel before tilting by means of a 3/4" diameter coil bolt threaded into the brace anchor. When the panel is tilted into its final position, the floor brackets is normally bolted to the floor slab with our T-13 Coil Anchor Drill In Expansion Anchor. Good construction practices dictate the use of a cut washer under the head of both bolts. A slotted hole on the floor and wall base plate provides easy attachment and has raised stops to prevent the brace from sliding sideways once the coil bolts have been tightened. Both brackets remain flat at all times as pivoting action is provided in both the floor and wall brackets. After the panel is tilted to the approximate vertical position, the Tilt-Up Brace is used to align and hold the panel until it is permanently anchored by further construction. The floor bracket of pipe brace hardware is attached to a 1-1/2" diameter threaded rod. This galvanized threaded rod has 4-1/2 contour threads to the inch that are fast and non-clogging. A weld spot at the top of the threaded adjusting rod prevents accidental removal. Tilt-Up braces are designed for use only in connection with bracing tilt-up precast concrete construction against wind loads. Due to the problems involved in brick in masonry walls, Mason Supply assumes no responsibility if braces are used to support concrete block, brick or other masonry walls. The telescoping pipe braces can be rough adjusted in increments of 6" by aligning the pin holes in the two pipes. Finer adjustment can be attained by simply rotating the entire pipe assembly clockwise or counterclockwise as required. Ease of rotation is guaranteed by the ball bearing coupler attached to the pipe at the wall bracket.

The B-8 Jumbo Brace is a heavy duty brace that needs no knee bracing or lateral bracing. It is a fixed length brace with 15"-18" of adjustment available for minor field variations. The Jumbo Brace is a full swivel brace that can be rotated about its own axis after it has been attached for accurate plumbing of panels. **Due to circumstances beyond Masons Supply's control, maximum brace lengths and styles may vary slightly. It is good construction practice to consider the working length of these pipe braces to be 6" more than their minimum length and 6" less than their maximum length.**

### Adjustable Braces

No.	Brace	Range	Color Code	Inside Pipe*	Outside Pipe*	Wt (lbs)
MAS 100M1	M-1	Approx. 7'-6" to 11'-6"	Red	2" x 6'	2½" x 6'	90.0
MAS 100M2	M-2	Approx. 11'-6" to 19'-6"	Yellow	2" x 10'	2½" x 10'	130.0
MAS 100M6	M-6	Approx. 9'-6" to 15'-6"	Blue	2" x 8'	2½" x 8'	110.0
MAS 100M7	M-7	Approx. 5'-6" to 8'-0"	Black	2" x 4'	2½" x 4'	70.0
DS 10041	B-1	Approx. 7'-6" to 8'-10"	White	1½" **	2" x 3' **	55.0
RC 10003	Lo-Wall	Approx. 7'-9" to 12'-6"	White	2" x 6'	2½" x 6'	90.0
DS 10042	B-2	Approx. 13'-0" to 20'-6"	Yellow	1½" x 10'-6"	2" x 10'-6"	96.0
DS 10043	B-4	Approx. 14'-0" to 23'-6"	Orange	2" x 12'	2½" x 12'	148.0
DS 10044	B-5	Approx. 23'-6" to 39'-0"	Green	2" x 21'	2½" x 21'	226.0
DS 10045	B-6	Approx. 10'-0" to 14'-0"	Blue	1½" x 7'	2" x 7'	75.0



Adjustable Brace

\* Measurements are pipe only - screws, swivels not included  
 1½" pipe - 1⅝" outside diameter, 1½" inside diameter  
 2" pipe - 2⅝" outside diameter, 2" inside diameter  
 2½" pipe - 2⅞" outside diameter - 2½" inside diameter

\*\* B-1 Brace has two inner pipes and a 3' outer pipe with a handle

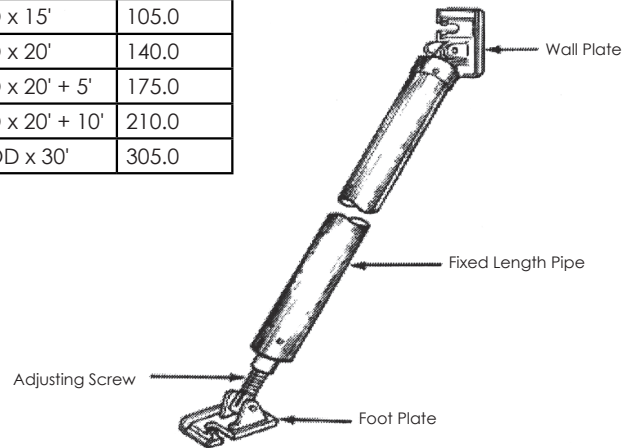
**Note:** All braces must be properly banded prior to return. (refer to proper banding illustrations). Braces must be kept clean or a cleaning charge will be assessed.

## Fixed Braces

No.	Brace	Range	Color Code	Pipe****	Wt (lbs)
DS 10039	B-7	Approx 16'-3" to 17'-9"	Red/White***	4" OD x 15'	105.0
DS 10046	B-8	Approx 21'-3" to 22'-9"	Red/White***	4" OD x 20'	140.0
DS 10047	B-9	Approx 26'-3" to 27'-9"	Red/White***	4" OD x 20' + 5'	175.0
DS 10048	B-10	Approx 31'-3" to 32'-9"	Red/White***	4" OD x 20' + 10'	210.0
DS 09025	B-12	Approx 31'-3" to 32'-9"	N/A	5½" OD x 30'	305.0

\*\*\* Red - Dayton Style  
White - Richmond Style

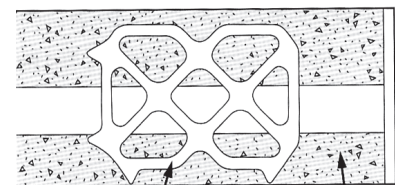
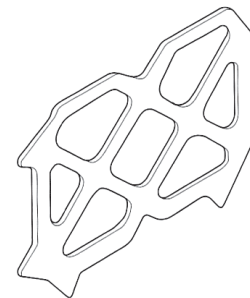
\*\*\*\* Measurements are of pipe only - screws, swivels not included  
3½" pipe - 4" outside diameter, 3¾" inside diameter  
5" pipe - 5½" outside diameter, 4¾" inside diameter



**Fixed Brace**

## Delta Tie

A unique insulated precast concrete panel connector. It allows the precaster to fabricate a highly energy-efficient, insulated precast concrete sandwich wall panel using the insulating foam of his choice. This versatile connector allows the foam insulation to be placed from panel edge to panel edge, eliminating thermal bridges and costly energy loss. The foam insulation is sandwiched between two concrete wythes, or layers, to form a long-lasting, energy-efficient precast concrete sandwich wall panel. The three wythes are tied together using Delta Ties. Spacing of the Delta Ties varies, based on the panel's required composite moment capacity. The Delta Tie is produced using an engineered composite matrix. It consists of a geometrically configured, two-dimensional truss manufactured from continuous wound fiberglass embedded in an alkali resistant resin. The design of the Delta Tie produces a connector of remarkable strength and durability. The non-metallic, non-corrosive design of the Delta Tie eliminates any thermal transfer through the panel, increasing the insulating efficiency of the panel. Advantages include an increased load bearing, stiffer insulated panels, design flexibility, cost reduction, quick and easy installation, and applicable to all brands of foam panel insulation.



DELTA TIE

INSULATED CONCRETE PANEL

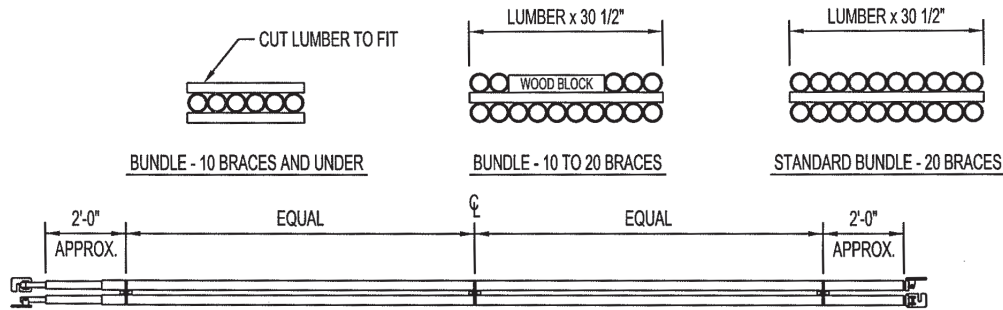
No.	Size	Wt/Ctn (lbs)	Qty/Ctn
DS 124107	5" x 7"	25.0	200

## TILT-UP/PRECAST

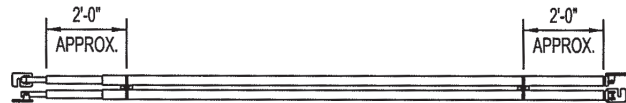
### BANDING CHART

#### ADJUSTABLE BRACES

DAYTON - B-1, B-2, B-4, B-5 & B-6 / RICHMOND LO-WALL, STANDARD & LONG / MASONS - M-1, M-2, M-6 & M-7



**BAND IN THREE LOCATIONS**  
DAYTON B-5 BRACES AND RICHMOND LONG BRACES

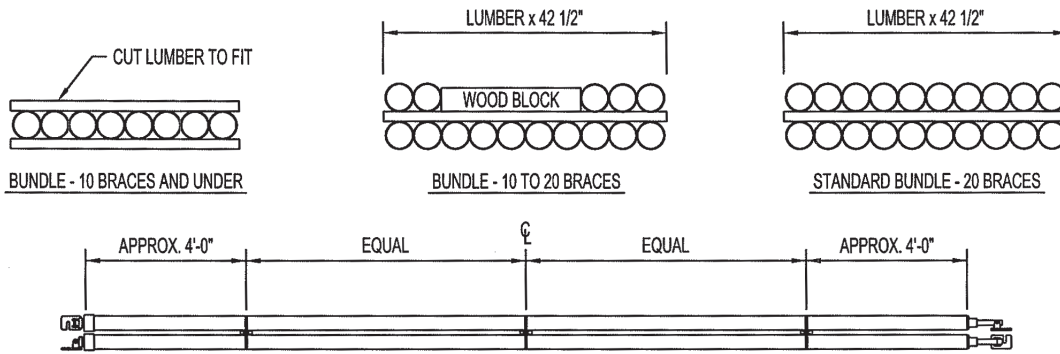


**BAND IN TWO LOCATIONS**  
DAYTON B-1, B-2, B-4 & B-6 / RICHMOND LO-WALL & STANDARD / MASONS M-1, M-2, M-6 & M-7

**NOTE:** IF THE INSIDE PIPE DOES NOT EASILY SLIDE INTO THE OUTSIDE PIPE DO NOT FORCE THEM TOGETHER. MANY BENDS CAN BE STRAIGHTENED WITH A MINIMAL CHARGE. WHEN THE BRACE IS FORCED TOGETHER IT CAUSES NON-REPAIRABLE DAMAGE. FULL REPLACEMENT COST WILL BE CHARGED FOR NON-REPAIRABLE DAMAGE.

#### FIXED BRACES

DAYTON - B-7, B-8, B-9 & B-10 / RICHMOND MIGHTY-MAXI, MM+5, & MM+10



**BAND IN THREE LOCATIONS**  
DAYTON B-7, B-8, B-9 & B-10 / RICHMOND MIGHTY-MAXI, MM+5 & MM+10 BRACES

#### DAYTON - B-12 BRACE

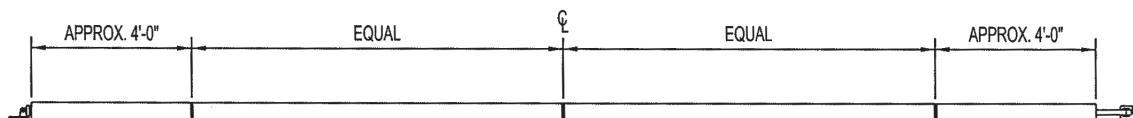
ALIGN DUNAGE BETWEEN BUNDLES WITH LUMBER IN BUNDLES.



**STANDARD BUNDLE - 8 BRACES**



ORIENT BRACE TO PREVENT BOLTS FROM DAMAGING NEIGHBORING BRACES

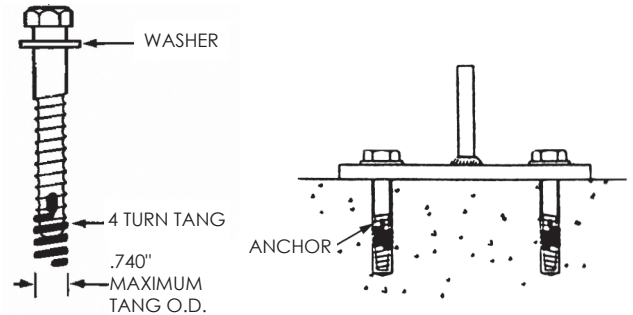


**BAND IN THREE LOCATIONS**  
DAYTON B-12 BRACES

### Coil Anchor

Insert the assembled COIL ANCHOR through the foot plate of the pipe brace into a properly drilled hole. Tap the COIL ANCHOR bolt all the way into the hole so that the washer and bolt head rests on the foot plate of the brace.

No.	Description	Wt (lbs)	Qty/Ctn
DS 49206	3/4"x4-1/2"	.80	20 sets
DS 123045	3/4"x6"	1.0	20 sets
DS 49203	Tang only	.04	100



### Dry Film Lubricant

For proper reuse of the COIL ANCHOR, dip the threaded portion of the bolt into our liquid DRY FILM LUBRICANT and immediately shake off any excess lubricant. Set the lubricated bolt aside and allow the lubricant to dry. Thread the new tang onto the bolt so the flattened end of the tang points towards the head of the bolt. The tang should be assembled onto the bolt with only a light finger tightness, NO MORE than 1 1/2 turns, making certain that you DO NOT pre-expand the tang.

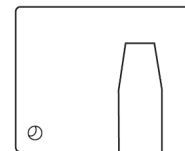


No.	Size	Wt (lbs)
DS 49205	6 oz	0.40

### T-13-G Thread Gauge

T-13-G Thread Gauges are recommended to check T-13 bolt thread wear when reusing T-13 Coil-Anchor Bolts.

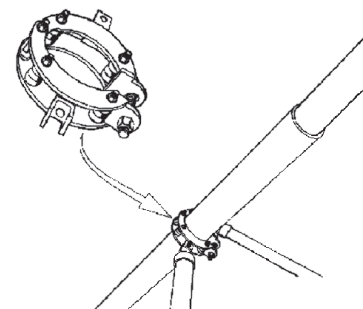
No.	Wt (lbs)



### Knee Brace Bracket

Stiffens and increases the safe working load of B-8, B-9, and B-10 jumbo braces. Eliminates need for lateral and end bracing. Adjustable tripod legs allow the brace to be secured to various structural geometrics.

No.	Wt (lbs)
DS T17HD	5.0



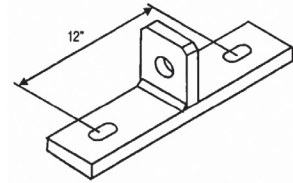
# LIFTING PLATES



## TILT-UP/PRECAST

### Edge Lift Plate

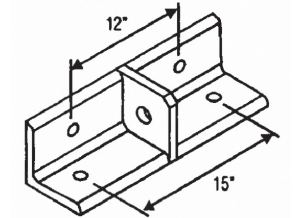
Edge lifting plate is specifically designed to be used with either the double edge pickup insert or the double end pick-up insert. For use with 3/4" or 1" diameter inserts. Minimum coil bolt length to be used is 4". Cut washer are required under the head of each bolt. SWL 8,800 lbs. Based on a 5:1 safety factor.



No.	Description	Wt (lbs)
DS 49105	4" x 18", 1" thick	23.0

### Lifting Angle

Although the lifting angle is generally used for face lifting tilt-up panels it can be used on edge lift conditions where the panel thickness is 6" or greater. Made from structural steel angle 6" x 6" x 3/4" thick x 21" long with 1-1/2" diameter hole for clevis attachment. For use with 1" double coil inserts. Use of a washer and coil bolts of minimum length is required. SWL 12,000 lbs. for 1" bolt diameter and 18,000 lbs for 1-1/4" and 1-1/2". Based on a 5:1 safety factor.



No.	Description	Wt (lbs)
DS 49101	6" x 6" x 21", 3/4" thick	53.0

### Cast Eye Bolt - Coil

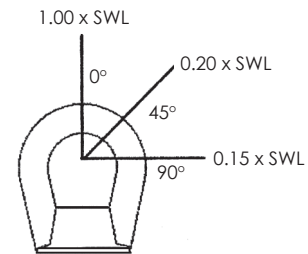
An cast eye bolt is an eye nut with coil rod welded in place. To develop full load the shoulder must be against the face of the concrete. Intended for straight tensile loads only. Pulling at angles is not recommended. Masons recommends that coil rod is welded by certified welder. Based on a 5:1 safety factor.



No.	Bolt Diameter	Length	Wt (lbs)
DS 49584	1/2"	2-1/2"	0.10
DS 49588	3/4"	3"	0.16
DS 49592	1"	3-1/2"	0.22
DS 49596	1-1/4"	4"	0.41

### Cast Eye Nut - Coil

Made of ductile iron, the cast eye nut is threaded all the way through with coil thread and eliminates the need to inventory many different lengths of cast eye bolts. Continuous threaded coil rod is cut to the required length and threaded into the eye nut. The shoulder must be secured against face of concrete to develop full load. Intended for straight tensile loads only. Pulling at angles is not recommended. Masons recommends that coil rod be welded by a certified welder. Based on a 5:1 safety factor.



Load Reduction Formula

No.	Bolt Diameter	SWL Tension (lbs)	Wt (lbs)
DS 32360	1/2"	2,700	0.10
DS 32362	3/4"	3,600	0.16
DS 32364	1"	7,200	0.22
DS 32365	1-1/4"	10,600	0.41

### Swivel Lift Plates

The swivel lift plate is designed for attaching to any type of single lift insert. The double swivel lift plate allows bail to rotate in direction of applied loads. Available in 3/4", 1", 1-1/4" and 1-1/2" coil bolt sizes. Use coil bolts of required minimum length. Based on a 5:1 safety factor.

No.	Description	Height	SWL Tension (lbs)	Wt (lbs)
DS 49109	3/4" Swivel	1-3/8"	7,000	14.0
DS 49110	1" Swivel	1-3/8"	10,000	14.0
DS 49122	3/4" Double Swivel	1-1/2"	7,000	8.0
DS 49124	1" Double Swivel	2"-11/16"	9,000	8.0
DS 49126	1-1/4" Double Swivel	2-3/4"	13,500	16.1



SWIVEL LIFT PLATE



DOUBLE SWIVEL LIFT PLATE



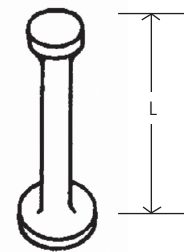
## Swift Lift System

The Swift Lift (SL) System is a quick connect-disconnect system which allows precast concrete units to be handled repeatedly with speed, safety and economy. The system is a non-welded system and also avoids threaded connections, which are time-consuming, subject to thread wear and damage, and the further risk of not being fully engaged, with consequent reduction of the safe working load. The reusable SL Lifting Eye is free of these disadvantages and by virtue of its quality and heavy duty construction will give years of use. The Swift Lift System is available with safe load ratings of 1, 1.3, 2, 2.5, 4, 5, 8, 10, and 20 tons. Each component is clearly marked in tons with the maximum safe rating load. The system is extremely versatile in use, being suitable for vertical pull or diagonal pull. It can also be used to raise concrete units from the horizontal to the vertical position without the aid of a tilting table.

## P-52 Swift Lift Anchor

The P-52 Swift Lift Anchor is hot forged from carbon steel. The formed head provides spherical seating that the Lifting Eye engages, while a disc-shaped foot is embedded in the concrete. Due to its being forged part, the Swift Lift Anchor does not depend on welds or thread engagement to develop its safe working load. Forging provides maximum safety with its advantageous material structure. This allows anchor to easily meet the OSHA requirement of a 4 to 1 factor of safety.

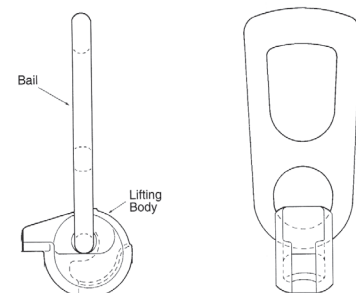
No.	Anchor Size Ton x Length	SWL (tons)	Wt (lbs)
DS 60596	3/8 X 4-3/4	1 Ton	0.19
DS 60663	9/16 X 3-3/8	1.4 Ton Galvanized	0.32
DS 126866	9/16 X 6-3/4	2 Ton Galvanized	0.55
DS 60673	3/4 X 4-3/4	2.9 Ton Galvanized	0.97
DS 60675	3/4 X 9-1/2	4 Ton Galvanized	1.58
DS 60679	1-3/16 x 13-3/8	8 Ton Galvanized	4.61
<b>Other sizes available on request.</b>			



## P-50 Swift Lift Universal Lifting Eye

Uni-Lift Hardware is specially designed with a "T" shaped slot that hooks under the anchor head. The bail is a solid steel plate with a large hole to attach a cable clevis. The bail rotates from front to back in the lifting body. This action is an advantage over other existing systems as rigging does not need to be reversed when rotating a panel up and down. Has approximately a 5:1 safety factor. Under no circumstances should user modify, apply heat, weld or grind any part of the lifting hardware.

No.	Size (Tons)	Wt (lbs)
DS 60571	1-1.3 T	3.0
DS 60574	1.5-2.5 T	5.0
DS 60577	3.0-5.0 T	7.5
DS 60580	6.0-10.0 T	17.0
DS 60583	20.0 T	35.0

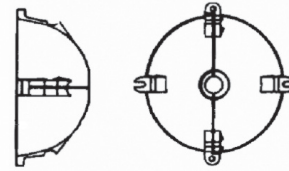


SWL provides a factor of safety of approximately 5 to 1.

## TILT-UP/PRECAST

### P-54 Disposable Recess Plug

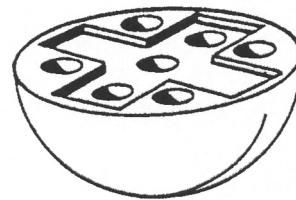
Available in two sizes; 9/16" or 3/4" anchor shaft diameter. Provides void clearance in concrete for lifting eye. Built in tabs hold and locate preformed shear bar in proper location. Made from high density polyethylene. Two halves snaps easily around head of Swift Lift Anchor. Designed for use only with P-59 smooth wire shear bar, DO NOT USE with rebar type shear bars.



No.	Size
DS 60725	2 Ton
DS 60728	4 Ton

### P-56 PL Recess Plug

The P-56-PL Swift Lift Plus Recess Plug is manufactured from high-grade elastomeric, thermal set urethane to provide improved tear, heat and chemical resistance. The versatile, reusable plug utilizes a variety of accessories to provide installation and stripping ease in many different applications. P-56-PL recess plugs are available for 1, 2, 4 and 8-ton system sizes.

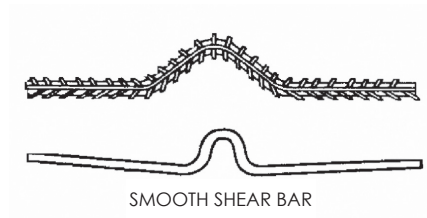


No.	Size	Wt (lbs)
DS 60721	1 Ton	0.18
DS P56PL2	2 Ton	0.35
DS P56PL4	4 Ton	0.68
DS 60730	8 Ton	1.00

### P-59 Shear Bar

When edge lifting thin precast wall panels from flat to vertical, the P-59 shear bar is used to transfer the applied shear load deeper into the panel. In order for the shear bar to work properly, it must be secured tightly against the recess plug.

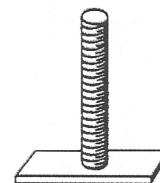
No.	Size	Description	Wt (lbs)
DS 60116	8 Ton	#6 Rebar	4.38
DS 60132	2 Ton	.375 Smooth Rod	0.94
DS 60134	4 Ton	.440 Smooth Rod	1.50



### P-67 Stud Plate

Available with 5/16"-18 NC threads for use with 1 ton recess plugs and 7/16"-14 NC threads for use with all other P-55 Recess Plugs.

No.	Size	Wt (lbs)
DS P67PL2	3/8" x 3" 2 Ton	.23
DS P67PL4	3/8" x 3" 4 Ton	.28
DS P67PL8	3/8" x 3" 8 Ton	.30



### P-64 PL Wing Nut

This nut is available in two different thread sizes. The 5/16"-18 NC threaded wing nut is designed for use with the 1 ton P-63 SL Stud while the 7/16"-14 NC threaded unit works with the 2,4 and 8 ton studs

No.	Size
DS 103410	3/8", 2, 4, 8 tons



### Fleet-Lift System

The Fleet Lift System is an economical, quick connect disconnect system which allows precast concrete units to be handled repeatedly with speed and safety. The fleet lift ring clutch is easily connected to the anchor. The high quality and heavy duty construction of the fleet lift ring clutches will give years of safe use. Fleet Lift Anchors are available in 1, 2, 3, 4, 6, and 8 ton capacities. Each system component is clearly marked in tons with the maximum safe working load. This system is extremely versatile, being suitable for vertical and diagonal pulls. It can be used to raise concrete units from the horizontal to the vertical without the aid of a tilting table.

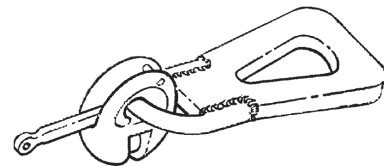
### P-91 Ring Clutch

P-91 Fleet Lift Ring Clutches consists of a clutch body, curved bolt and a high strength steel bail. Attachment is as simple as sliding the curved bolt to the opened position, placing it over the anchor head and sliding the bolt to the closed position. The design of the steel bail permits full 360° rotation and will easily align itself with the rigging, allowing the safest position for lifting. Once engaged and under at least four hundred pounds of load, the clutch cannot be intentionally or accidentally disengaged. When remote release is required, it can be easily accomplished with a lanyard after the load has been released. SWL provides a factor of safety of approximately 5 to 1 ultimate to rated load.

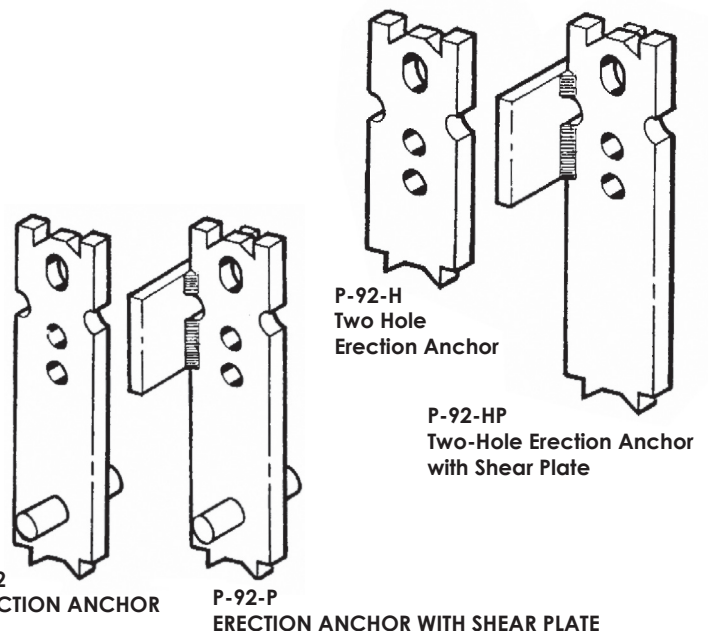
No.	Size	Wt (lbs)
DS FL001	2 Ton – 3 Ton	4.60
DS FL002	4 Ton – 6 Ton	9.00
DS FL003	8 Ton – 10 Ton	20.00

### P-92 Erection Anchors

P-92 Erection anchors are engineered from high strength steel. All P-92 Erection Anchors have a special head design to control ring clutch pressure so it never bears on the concrete, helping to eliminate spalling during edge lifting. All anchors are available in plain finish, hot dipped galvanized or the durable and economical epoxy coating. P-92 Erection Anchors come in many different styles. The most popular is the standard P-92 Erection Anchor. This anchor is used with a fleet lift shear bar to safely lift precast elements from the edge in shear and transfer to tension. The P-92 Erection Anchor with shear plate eliminates the need for the shear bar. The shear plate accomplished the same function as the standard erection anchor and shear bar. The P-92-H Two Hole Erection Anchor, the most economical erection anchor, uses a shear bar or shear plate to resist shear and a required tension bar to safely lift and handle precast units from the edge. P-92 Erection Anchors are available in 2, 4, 6, and 8 ton capacities.



No.	Size	Wt (lbs)
<b>P-92</b>		
DS FL047	2 Ton	1.80
DS FL048	4 Ton	4.61
DS FL049	8 Ton	9.65
<b>P-92-P</b>		
DS FL147	2 Ton	2.25
DS FL148	4 Ton Galvanized	5.41
DS FL149	8 Ton	10.46



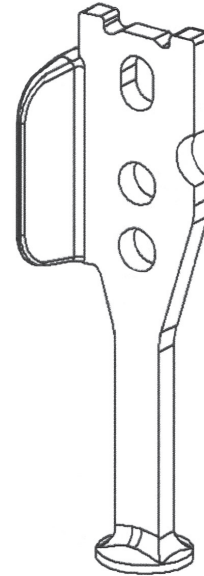
SWL provides a factor of safety of approximately 4 to 1 in 3,500 psi normal weight concrete.  
Consult manufacturers data on values on shear and reduced edge distance.

## TILT-UP/PRECAST

### P-92-FEW Fleet Lift Forged Erection Anchor

Ideal for horizontal to vertical edge lifts and the shear rotation of thin-walled units. It has a specially designed head to provide added protection against spalling. The specially designed body allows for full reinforcement. Because the concrete forms in the newly designed slot, the anchor develops a shear cone at the bottom of the slot opening.

No.	Size	Wt (lbs)
DS 127619	3T	
DS 127615	6T	
DS 127616	10T	



### P-94-S Fleet Lift S-Anchor 6-Ton

The P-94-S Fleet-Lift S-Anchor is a high strength, hot forged anchor that can be "wet set" or used with the optional T-41 Plastic base in face-lift applications. When the P-94-S anchor is used with the Fleet-Lift high capacity ring clutches, safe working loads up to 12,000 pounds can be realized.

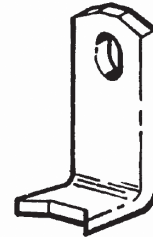
No.	Size	SWL Tension	Wt (lbs)
DS FL501	3-1/8"	3,900	
DS FL502	3-7/8"	5,000	
DS FL503	4-1/8"	5,370	
DS FL505	4-7/8"	6560	
DS FL506	5-1/8"	6970	
DS FL509	5-7/8"	8250	
DS FL510	6-1/8"	8700	
DS FL513	6-7/8"	10070	
DS FL515	7-7/8"	12000	



SWL provides a factor of safety of approximately 4 to 1 in 3,500 psi normal weight concrete.  
Consult manufacturers data on values on shear and reduced edge distance.

### P-93 L-Anchor

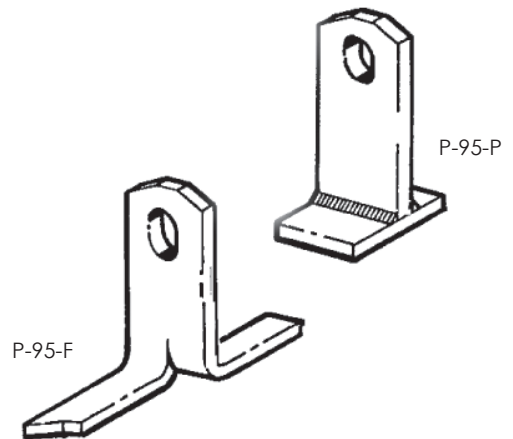
The P-93 L-Anchor has a simple but efficient design capable of high pullout strengths. The L-Anchor is designed for face or edge lifting, and due to its strength and economy, is used commonly in earth retaining type panels. The P-93 L-Anchor is only available in 1 ton capacity. A special recess member with a narrow anchor slot is used in conjunction with this anchor.



No.	Size	Wt (lbs)
DS FL050	2 ton	0.30

### P-95 Plate and Flat Foot Anchors

P-95-F Flat Foot and P-95-P Plate Anchors are designed to be installed in the back of thin panels. These anchors have high tension and shear capacities and are easy to reinforce, when required. P-95-P Plate Anchors are available in 2, 4, and 8 ton capacities. P-95-F Flat Foot Anchors are available in 2 and 3 ton capacities. When higher capacities are required, a Plate should be used.

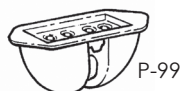


No.	Size	Wt (lbs)
<b>P-95-F</b>		
DS FL058	2-3/4"x2 ton	0.50
DS FL400	3-3/8"x2 ton	0.58
DS FL157	3-3/4"x3 ton	0.92
<b>P-95-P</b>		
DS FL128	2-1/4"x2 ton	0.71
DS FL044	4-3/8"x4 ton	1.96
DS FL043	6-7/8"x8 ton	4.36

### P-99 Recess members and accessories

Recess Members are specially designed to hold Fleet-Lift anchors securely in place during the placement of concrete. The Recess holds the anchor at the proper depth below the concrete surface and creates a void for the ring clutch. The small void is easily patched to prevent exposure of the anchor to the elements. Recess Member is manufactured with an iron insert threaded with durable 3/8" coil threads to accept the 3/8" holding rod. All Fleet Lift Recess members utilize the same P-101 holding rod. Fleet-Lift Recess Members are available in 1, 2, 4, and 8 ton sizes.

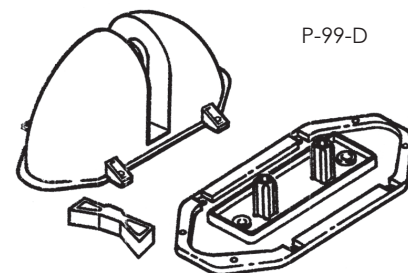
No.	Size	Wt (lbs)
<b>P-99</b>		
DS FL051	1 Ton	0.21
DS FL200	2 Ton	0.20
DS FL062	4 Ton	0.50
DS FL121	8 Ton	1.50



### P-99-D Recess members and accessories

P-99-D Fleet-Lift Disposable Recess Plug can be used to preset Fleet-Lift face-lift or edge-lift anchors or can be used to "wet set" P-94 Anchors. The Cover/Patch fits tightly onto the recess plug to fully protect the unit. The Cover/Patch is concrete gray in color and can be used as a patch over the recess opening for temporary or permanent cover.

No.	Description	Size	Wt (lbs)
DS FL067B	Body	4 and 6-ton	0.10
DS 067L	Lid	4 and 6-ton	0.10
DS 067S	Set	4 and 6-ton	0.20



## TILT-UP/PRECAST

### P-98-S Shear Bar

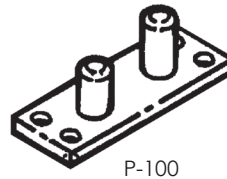
P-98-S Shear Bars are designed specifically to fit fleet lift erection anchors. The P-98-S Shear Bar will work with the erection anchor to achieve the highest shear capability. Shear Bars are available in plain finish, hot dipped galvanized or epoxy coating. Shear Bars are available in 2, 4, and 8 ton sizes.

No.	Size	Wt (lbs)
DS FL140	2 Ton	0.98
DS FL141	4 Ton	1.07
DS FL142	8 Ton	1.23

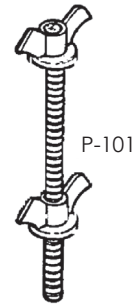


### Holding Plate and Rod

No.	Size	Wt (lbs)
<b>P-100</b>		
DS FL160	2 ton	0.14
DS FL144	4 ton	0.24
DS FL111	8 ton	0.58
<b>P-101</b>		
DS FL131	3/8"x7"	0.24



P-100



P-101

### P-102 Steel Wedge:

No.	Recess Load Range	Wt (lbs)
FL 017	2 Ton	0.13
FL 084	4 Ton	0.38
FL 085	8 Ton	0.94



P-102

### P-103 Foam:

No.	Anchor Load Range	Unit/Pkg	Wt/Pkg (lbs)
FL 087	1 & 2 ton	1,000	5.00
FL 069	3 & 4 ton	1,000	5.00
FL 091	6 & 8 ton	500	10.00



P-103

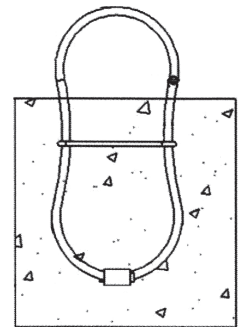
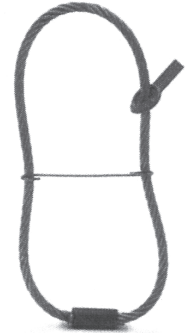
SWL provides a factor of safety of approximately 4 to 1 in 3,500 psi normal weight concrete.  
Consult manufacturers data on values on shear and reduced edge distance.

### P-110 Wire Rope Lifting system

An economical lifting loop for utility type structures. It is used in either face or edge lifts applications and is 'mucked' into the surface of the concrete. The galvanized wire rope is formed in a figure 8 shape, with the ends of the rope secured by a positive swaged clamp, and a steel band at approximately the mid point to establish proper shape. The Wire Rope Lifting System is embedded 2/3 of it's length into the concrete. The hardware must be standard hook or clevis with a diameter at least twice the rope diameter.

#### Features & Benefits:

- 7 Standard sizes - handles most precast applications up to 10,000 lb swl
- Mucked into surface - no recess members required by the precaster
- Uses standard jobsite Crosby Hooks - no hardware purchases required by precaster
- Galvanized wire rope - reduces rusting of the anchor
- Can be cut off or left exposed - reduces labor cost for precaster
- Economical for the cost concious precaster



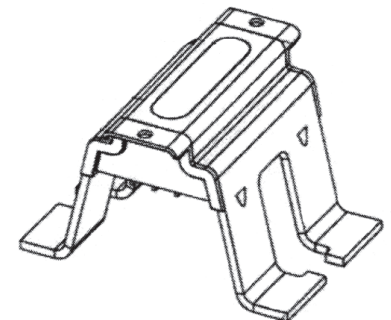
No.	Capacity	SWL (lbs)	Wire Rope Length	Rope Diameter	Wt (lbs)
	0.8T	1,600	21"	0.236"	
	1.2T	2,400	24"	0.276"	
	1.6T	3,200	26"	0.315"	
	2.0T	4,000	31"	0.354"	
	2.5T	5,000	32.5"	0.394"	
	3.8T	7,600	37"	0.472"	
	5.0T	10,000	38"	0.551"	

Note: SWL is 4:1 in 3,000 psi concrete

### P-38 Core Wall Slotted Insert II

Designed to create a higher load capacity and greater ease to install the product. 7 gauge one piece steel tampered body. One piece plastic void former and removable plastic cap. 3/4" - 10 special nut design.

No.	Size	Tension Safe Working Load (lbs)	Shear Safe Working Load (lbs)	Wt (lbs)
	2.5" x 4"	4,660	5,150	
	2.5" x 6"	5,500	6,400	
	2.5" x 8"	5,500	7,300	
	3.5" x 4"	6,300	8,600	
	3.5" x 6"	6,750	8,700	
	3.5" x 8"	7,100	8,700	
	4.5" x 4"	8,600	10,700	
	4.5" x 6"	8,800	10,950	
	4.5" x 8"	9,100	10,950	



SWL provides a factor of safety of approximately 4 to 1 in 3,500 psi normal weight concrete.  
Consult manufacturers data on values on shear and reduced edge distance.

## TILT-UP/PRECAST

### Utility Anchor System

Designed to economically simplify the lifting and handling of precast concrete elements. Its economics, ease of use and versatility will be a welcome addition to your precast operations.

#### Key Advantages

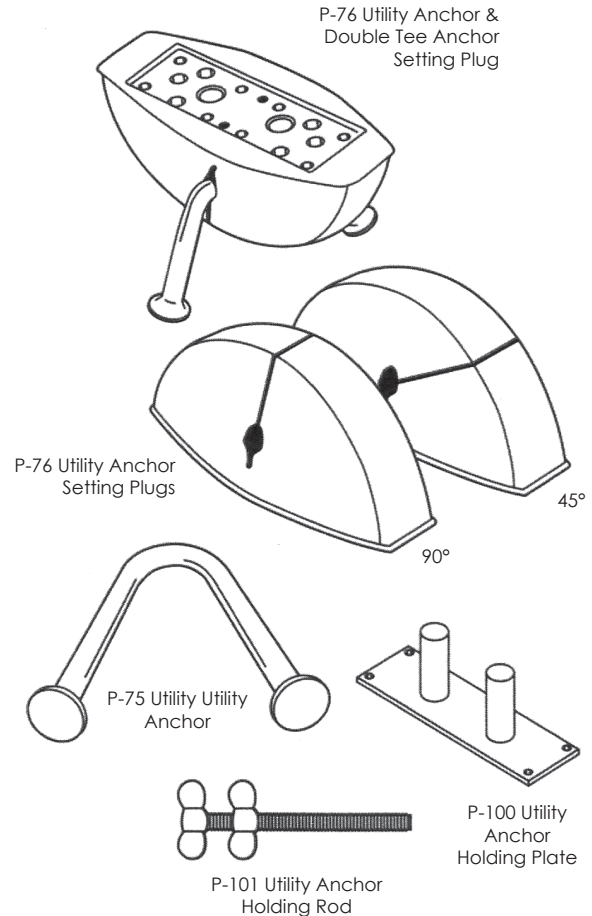
- High Strength - Up to 24,000 lbs. SWL
- No special lifting hardware required
- Uses a standard hook or clevis
- Easy to install and use
- Utilizes reusable 90° and 45° polyurethane recess plugs
- Eliminates "through holes" in the precast element
- An economical and versatile system - applicable to any precast concrete element

No.	Slab Thickness	Wt (lbs)
DS 44A444	4"	
DS 54A444	5"	
DS 64A444	5-5/8"	
DS 54A671	5"	
DS 64A671	5-5/8"	
DS 84A671	7-5/8"	
DS 124A875	12"	

**Coil Rod Assembly**  
Used with rubber former with threaded hole.  
Two Wing nuts are included.

No.	Size	Wt (lbs)
DS FL131	6-3/8" x 3/8"	0.20

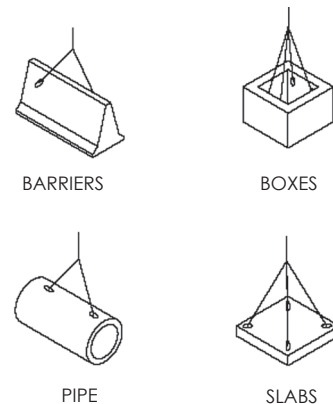
**Easy Lift Wet Set Plate**



### Load Chart for Easy Lift

No.	SWL Shear Load (lbs)	SWL 45° Load (lbs)	SWL Tension Load (lbs)
DS 44A444	5,800	2260	3,200
DS 54A444	7,710	2730	3,860
DS 64A444	4,460	3150	4,600
DS 54A671	8,430	3220	4,560
DS 64A671	15,780	5170	7,320
DS 84A671	18,500	7660	10,830
DS 124A875	24,000	24000	24,000

Note: The Easy Lift used as a pulling iron the SWL can be increased by 33%



Working load is based on 4:1 safety factor of the anchor and on minimum 4000 psi normal weight concrete.



### Coil Rod

High tensile continuous threaded rod is available in diameters from 1/2" through 1-1/2" and in lengths of 12'. May be cut with carborundum blades without damaging threads. Do not use cutting torch to cut coil rod.

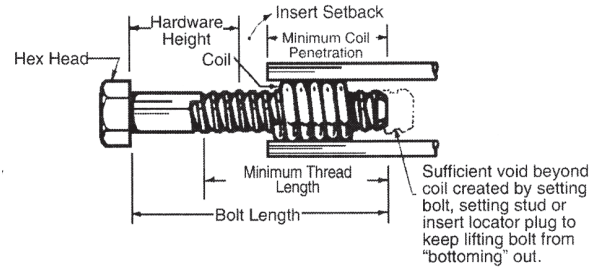
No.	Size	Length	SWL Tension (lbs)	Shear	Wt/lf (lbs)
RC 12HTC	1/2"	12'	3,600	2,400	0.53
RC 34HTC	3/4"	12'	7,200	4,800	1.15
RC 1HTC	1"	12'	15,000	10,000	2.04
RC 114HTC	1 1/4"	12'	22,500	15,000	3.48
RC 112HTC	1 1/2"	12'	27,000	18,000	6.01

**Masons will not guarantee safe working load which has been field welded or bent.**



### Forged head coil bolt data & minimum coil penetration

3/4" DIAMETER		1" DIAMETER		1-1/4" DIAMETER		1-1/2" DIAMETER	
SAFE WORKING LOAD		SAFE WORKING LOAD		SAFE WORKING LOAD		SAFE WORKING LOAD	
TENSION 7,200	SHEAR 4,800	TENSION 14,500	SHEAR 9,600	TENSION 20,300	SHEAR 13,500	TENSION 28,000	SHEAR 18,000
MINIMUM COIL PENETRATION 2-1/4"		MINIMUM COIL PENETRATION 2-1/2"		MINIMUM COIL PENETRATION 3"		MINIMUM COIL PENETRATION 3"	



### Coil Bolts

Coil bolts are designed with fast-threading, self-cleaning threads. The threads are contoured to mate with the helix coils of coil ties and coil loops. Coil bolts may be furnished with standard formed head or made from coil rod with heavy hex nut welded on. Available in 3/4", 1", 1-1/4" and 1-1/2" diameter.



COIL BOLTS ARE NEVER TO BE TIGHTENED USING AN IMPACT WRENCH.

No.	Size	Bolt Length	Min. Thread Length	Wt (lbs)
DS 12212CB	1/2"	2-1/2"	2-1/4"	0.150
DS 122CB	1/2"	2"	1-3/4"	0.120
DS 123CB	1/2"	3"	2-1/4"	0.175
DS 12312CB	1/2"	3-1/2"	2-1/2"	0.200
DS 124CB	1/2"	4"	3-1/4"	0.230
DS 125CB	1/2"	5"	4-1/4"	0.285
DS 126CB	1/2"	6"	5"	0.340
DS 343CB	3/4"	3"	2-3/4"	0.430
DS 34312CB	3/4"	3-1/2"	3"	0.490
DS 344CB	3/4"	4"	3-3/4"	0.550
DS 345CB	3/4"	5"	4-3/4"	0.670
DS 346CB	3/4"	6"	5-3/4"	0.780

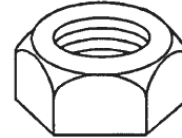
**1" & 1-1/4" & 1-1/2" coil bolts also available.**

SWL provides a factor of safety of approximately 5 to 1

### Coil Nuts

Hex shaped coil nuts are available for all sizes of coil rod. 2 standard or 1 heavy nut is required to develop full strength of high tensile coil rod.

No.	Size	SWL Tension (lbs)	Wt (lbs)
<b>Regular</b>			
RC 12CN	1/2" x 7/16"	1,800	0.06
RC 34CN	3/4" x 5/8"	3,600	1.19
RC 1CN	1" x 1"	7,200	0.41
RC 114CN	1-1/4" x 1-1/4"	10,800	0.76
RC 112CN	1-1/2" x 1-1/2"	16,200	1.19
<b>Heavy</b>			
DS B2512	1/2" HD x 1-3/16"	3,600	0.19
DS B2534	3/4" HD x 1-3/16"	7,200	0.26
DS B251	1" HD x 2"	15,000	0.72
<b>Other sizes available on request.</b>			



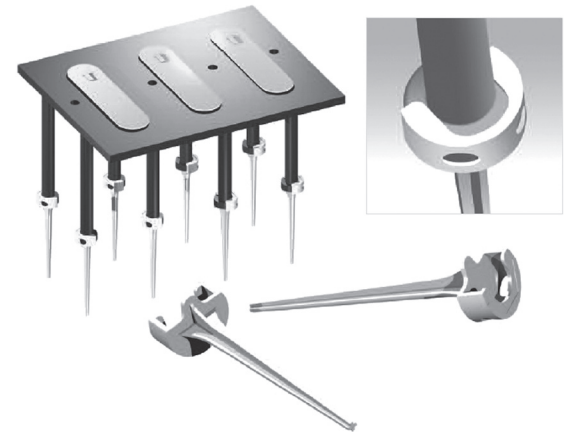
STD



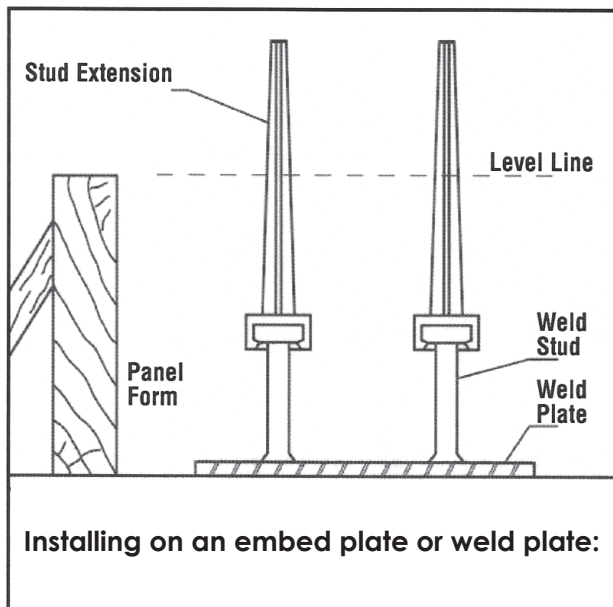
HD

### Stud Extender

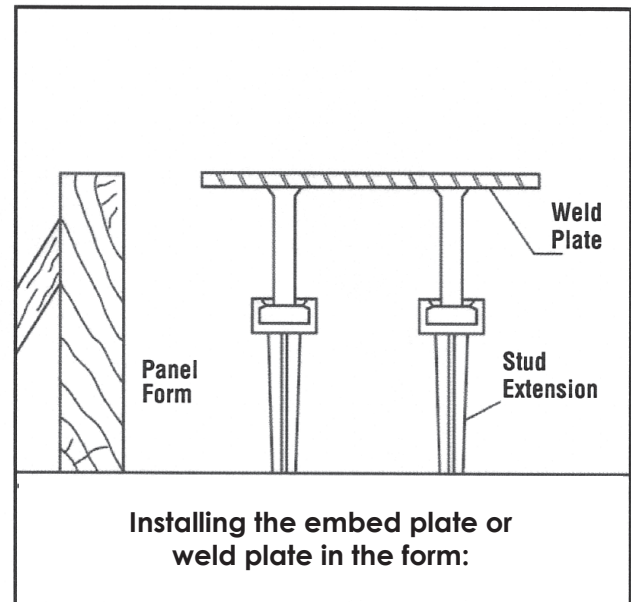
The Stud Extender is designed as an adjustable height support chair for embed/weld plates. The Stud Extender eliminates the tedious, labor-intensive wood forming or risky "wet setting" of embed plates in the top-face of a concrete panel. They are easy to use and eliminate wood framing. They save time, materials and have constant accuracy. Screed and finish panels easily with the Stud Extender.



No.	Qty/Ctn	Size	Wt/Ctn (lbs)
<b>Small</b>			
MB SES	500	1"	5.0
<b>Large</b>			
MB SEL	500	1-1/4"	10.0



- ▶ Press the Stud Extender onto the head of the weld stud.
- ▶ Place the weld plate next to the panel form.
- ▶ Run a level line from the top of the form across the Stud Extenders.
- ▶ Cut off the Stud Extender at the level line.



- ▶ Turn the weld plate upright & place in the proper predetermined position.
- ▶ Secure the weld plate studs to the rebar mat or edgeform.

SWL provides a factor of safety of approximately 5 to 1

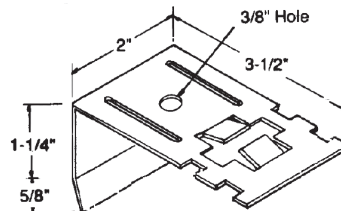
# BRICK TIES



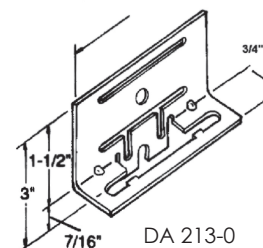
## MASONRY

### DA213S Seismic

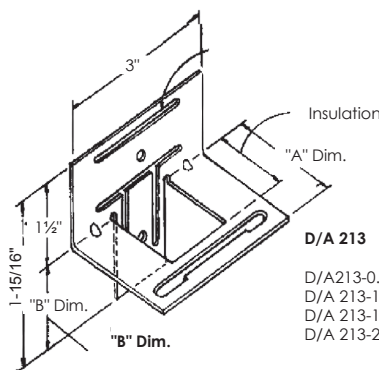
DA 213S is a seismic veneer anchor designed to meet performance criteria as defined by building codes. These anchors can be used for tying brick veneer to wood stud, steel stud, steel framing, CMU masonry, brick and concrete. They are fabricated with shear lugs that accommodate 9 gauge veneer reinforcement. The connectors are individually mounted and are easily installed. The 14 gauge plate is engineered to be attached to the face of a CMU or concrete steel stud, wood stud or steel frame. The 12 gauge pintle shear lugs hold pencil rod in place for greater pull out stress resistance and ductility. Adjust 1-1/4" up or down for different course heights and allows at least 1/2" horizontal in-plane movement to accommodate expansion and contraction. A hot dipped galvanized finish is standard, and 304 stainless steel is available. It is recommended the use of two screws for stud applications, either the Stalgard or Stainless Steel SX Screws for steel stud, Stalgard Screws for wood stud, or a spike for concrete or masonry retrofit applications. Hot dipped galvanized conforms to ASTM A-153, Class B. Other gauge steel and finishes available on request.



DA 312SP



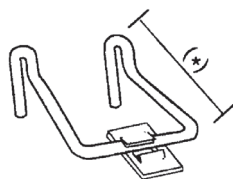
DA 213-0



D/A 213	"A" Dim.
D/A213-0.5	1-1/4"
D/A 213-1	1-3/4"
D/A 213-1.5	2-1/4"
D/A 213-2	

1"	-213-0.5
1"	-213-1
1-1/2"	-213-2
1-1/2"	-213-1.5

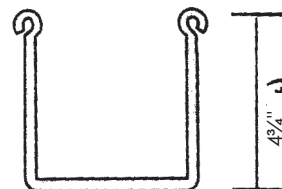
No.	Insulation	Qty/Ctn	Wt/Ctn (lbs)
<b>Plate</b>			
DA 213-0	0	350	52.50
DA 213-.5	1/2"	350	59.50
DA 213-1	1"	350	66.50
DA 213-1.5	1-1/2"	175	36.75
DA 213-2	2"	175	40.25
DA 213-3	3"	175	47.25
No.	Size	Qty/Ctn	Wt/Ctn (lbs)
<b>Pintle</b>			
DA 312SP	3-1/2"	175	52.50
DA 412SP	4-1/2"	175	59.50



### Seismic Wire Pintle

The pintle is 3/16" diameter wire conforming to ASTM A-82 with a seismic clip welded to pintle. Pintle adjustments are maximum of 1-1/4" up or down. Continuous wire fits into place providing a single unit for stability. The seismic clip conforms to requirements of Uniform Building Codes for seismic zones. Continuous wire is embedded in mortar joint, secured to tie anchor which is fastened to support structure. It adds stability and protects against problems associated with thermal expansion and contraction. Also provides more uniform distribution of lateral forces. Hot dipped galvanized. Other finishes available on request. Conforms to ASTM A-153, Class B.

No.	Size	Qty/Ctn	Wt/Ctn (lbs)
DA 3P-C	3"	350	42.0
DA 4P-C	4"	350	50.0



### Seismic Eye

Designed to be laid in the mortar joint of CMU masonry. Available in 3/16" wire conforming to ASTM A-82. A seismic wire pintle is connected to the seismic eye. Typically spaced 16" vertically and 16" horizontally. Continuous wire fits into the clip and is embedded into the mortar joint. Hot dipped galvanized conforming to ASTM A-153, Class B.

No.	Size	Qty/Ctn	Wt/Ctn (lbs)
DA 518-4	4-3/4"	350	37.0

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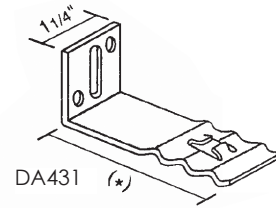
M A S C O . N E T

# BRICK TIES

## MASONRY

### Seismic Strap Anchor

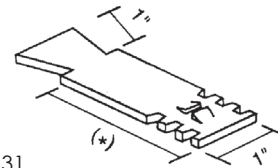
DA 431 is a special 14 gauge seismic corrugated veneer anchor with two shear lugs, which is engineered for use with pencil rod to resist out of plane movement and afford greater ductility in seismic zones 3 and 4. Designed to be screwed to wood or steel stud backup.



No.	Size	Qty/Ctn	Wt/Ctn (lbs)
DA 431-3	3-1/2"	250	37.5
DA 431-4	4-1/2"	250	42.5

### Seismic Dovetail Anchor

DA131 is a 16 gauge adjustable seismic corrugated veneer anchor with two shear lugs, which is engineered for use with pencil rod to resist out of plane movement and afford greater ductility in seismic zones 3 and 4. Engineered to fit standard dovetail slot with 5/8" throat opening.

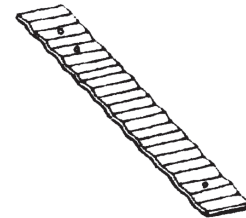


No.	Size	Qty/Ctn	Wt/Ctn (lbs)
DA 131-3	3-1/2"	250	20.0
DA 131-4	4-1/2"	250	25.0
DA 131-5	5-1/2"	250	30.0

Dovetail Slot available see page 83.

### Corrugated Wall Ties

Residential non-seismic brick ties available in mil galvanized steel 7/8" wide and 7" long; thickness 22 and 16 gauge.



CORRUGATED WALL TIES

No.	Size	Qty/Ctn	Wt/Ctn (lbs)
DA 167WT	16 ga.x 7"	500	55.0
DA 227WT	22 ga. x 7"	1,000	55.0
DA 227WT-T	22 ga. x 7"	1,000	55.0

### Stainless Screws



Stainless Steel is available with and without washers. This self-drilling screw has a hardened point for easy installation. Is frequently specified on stainless steel anchor jobs. The maximum in corrosion resistant.

No.	Description	Qty/Ctn	Wt/Ctn (lbs)
TEC 1012SS	#10 x 1-1/2"	1,000	17.0
TEC 10112SSW	#10 x 1-1/2" w/washer	1,000	20.0

### Coated Screws



The maximum in corrosion resistant coating. Attractive silver-grey finish covers entire fastener surface. Compatible with painted or metal surfaces. Out performs existing mechanical and electro-platings. Does not promote corrosion that can be caused by electrochemical reaction between dissimilar metals.

No.	Description	Qty/Ctn	Wt/Ctn (lbs)
<b>Metal Studs:</b>			
TEC 10112HC	#10 x 1-1/2"	3,000	34.0
TEC 10112HCW	#10 x 1-1/2" (w/washer)	2,500	30.0
<b>Wood Studs:</b>			
TEC 102WW	#10 x 2" (w/washer)	2,000	30.0

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# BRICK TIES

## MASONRY

### DW-10HS® Anchors

Primarily for use when there is no insulation and little potential for wallboard deterioration. DW-10HS is 6" long with 3-5/8" vertical adjustability. Stocked in 14 gauge Hot Dip Galvanized. 12 gauge and Type 304 Stainless Steel is available on a special order basis. All anchors furnished with 9/32" diameter holes.



No.	Size	Qty/Ctn	Wt (lbs)
HB DW10HS	6"	250	43.0

### BYNA-Lok™ Ties

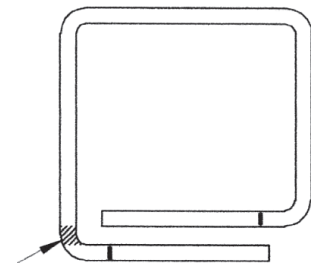
Swage & mild pitch on legs of the Byna-Lok™ Wire Tie provide an integral track for continuous joint reinforcing wire. Suitable for standard 3/8" mortar joint. More surface engagement of the continuous wire and the integral track than any other system on the market. Reduces potential for incorrect placement or disengagement of the continuous wire due to workmanship error. Hassle-free installation of the continuous wire into the Byna-Lok™ Wire Tie. Economical; add continuous wire to masonry walls at little additional cost. Suitable for use with a variety of H&B anchors. Available 3/16" dia. x 3", 4", and 5" long, Hot Dip Galvanized finish. Type 304 Stainless Steel on a special order basis.

No.	Size	Qty/Ctn	Wt (lbs)
HB 3BL	3"	250	21.0
HB 4BL	4"	250	25.0
HB 5BL	5"	250	28.0



Upward pitch front leg

Upward pitch rear leg



Swaged to accept continuous wire.

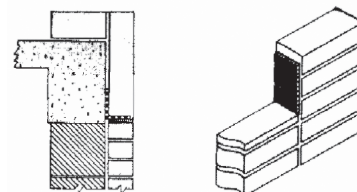
### Expansion Joint

**Horizontal Expansion Joint:** 1/4"x2-3/4"x50' adhesive on one side; compression up to 35%; manufactured of closed cell neoprene conforming to ASTM D 1056, RE41.

No.	Wt (lbs)
DA 2010	2.5

**Vertical Expansion Joint:** 3/8"x3"x50' with no adhesive; compression up to 35%; manufactured of closed cell neoprene conforming to ASTM D-1056, RE 41.

No.	Wt (lbs)
DA 2015	3.0





# BRICK ACCESSORIES

M A S C O . N E T

MASONRY

## Louvered Weephole

Allows moisture to leave the brick cavity wall and not re-enter. Protective strips on top prevent mortar droppings from clogging opening. Fits 1/2" joint widths and available in 2-1/4" or 2-7/8" high. 200 per box.



No.	Description	Wt (lbs)
HB 343	2-1/4" PVC	5.0
HB 343W	2-1/4" Alum	5.0

## Plastic Weephole

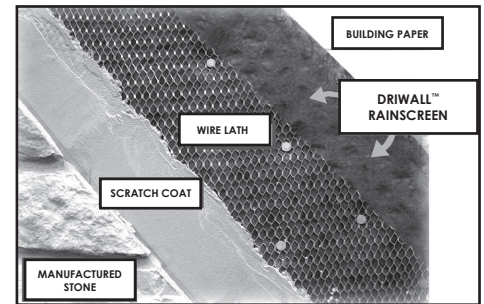
Clear plastic used to provide drainage of moisture from masonry cavity walls. 3/8" O.D. x 1/4" I.D.x4".



No.	Qty/Ctn	Wt (lbs)
DA 1005	1,000	9.0

## Driwall™ Rainscreen

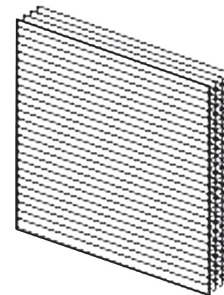
Driwall™ Rainscreen is a nominal 0.25 inch, randomly oriented geometric patterned drainage and ventilation mat. It is designed to eliminate moisture and moisture vapor in masonry and other siding and roofing applications. Applications include: stucco, thin stone or brick, manufactured stone, stone & brick masonry, lap siding, siding applications, and roofing applications. The product is useful in cavity wall designs and rainscreen systems, which an airspace is needed for drainage and ventilation. No mortar or other debris can enter the cavity assuring proper drainage and ventilation.



No.	Thickness	Width	Length	Area	Wt (lbs)
KN DW020	0.25"	48"	65'	260 ft <sup>2</sup>	26.0

## Cell Vent

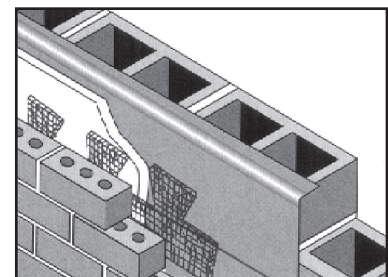
Clear plastic cell vent consists of many small adjacent passageways bonded together in one unit. Cellular composition provides easy drainage for moisture along the full height of the head joint. Recommended for use in course directly on top of flashing. For vented cavity wall, use cell vent on top of flashing course and weep holes below shelf angle. Spacing at 24".3/8" wide x2-1/2" deep x 3-3/8" length.



No.	Qty/Ctn	Wt (lbs)
DA 1006	200	5.0

## Mortar Net

Placed on top of flashing inside cavity, where it catches and suspends mortar droppings above level of weep holes and flashings. Dovetail shape prevents mortar from forming a continuous dam. Shape of material, in combination with 90% open plastic mesh configuration, allows water and air to move rapidly and easily through material to the weeps. Constructed of 1" and 2" wide density polyethylene. Available in 2 foot lengths and packed 50 pieces per bundle.



No.	Size	Qty/Ctn	Wt (lbs)
HB 1MN	1"	100	9.0
HB 2MN	2"	100	18.0

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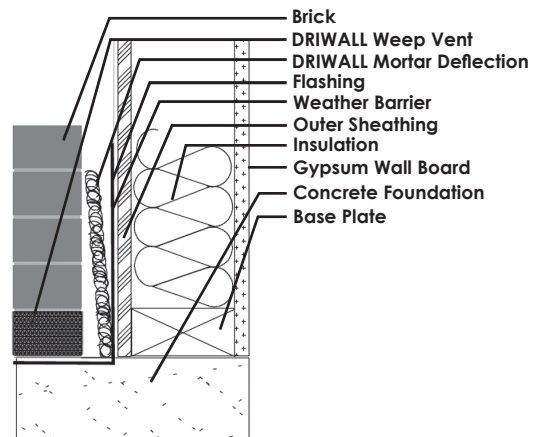
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## MASONRY

### Mortar Deflection

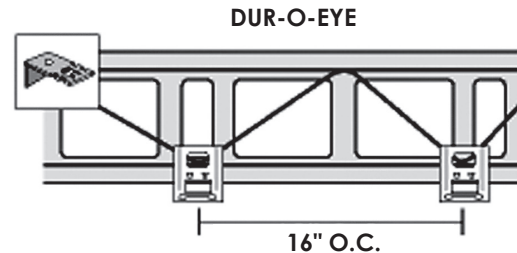
For use at the base of the wall and where flashing is installed to keep the airspace clear of mortar and debris. Mortar deflection will allow the weep holes to stay open and drain properly. Designed for commercial and residential construction. Mortar deflection does not absorb water and helps prevent mold. Can be installed by simply placing a continuous strip in the cavity at all flashing locations. Place horizontally on top of the flashing to ensure that the mortar droppings are broken up and deflected away from the weep holes. Mechanical attachment is not required.



No.	Thickness	Length	Area	Qty/Ctn	Wt/Ctn (lbs)
KN DW1	0.75"	50'	200 sq. ft.	4 rolls	18.0
KN DW2	1.60"	25'	100 sq. ft.	4 rolls	20.0

### Seismic Dur-O-Eye™ and Ladur Eye™

The use of Seismic Dur-O-Eye™ or Ladur Eye™ to tie two masonry wythes together is recommended where seismic or high wind loads may occur. Both products have been specifically engineered to simplify installation while providing more accurate placement. The key to this system is the patented steel plate and pintle. This plate features positioning tabs on the underside which align the assembly with the masonry wall. Once in place, these tabs assure proper mortar coverage for corrosion protection as well as proper embedment for maximum strength. The pintle plate has a pair of shear lugs which hold pencil rod in place for greater pullout resistance and ductility in Seismic Zones 3 and 4. The pintle itself adjusts 1-1/4" up or down to allow for different course heights and allows at least 1/2" horizontal in place movement to accommodate expansion and contraction. Since the Plate and Truss or Ladur reinforcement come as a single, ready to use unit, there's no fumbling with clips or other job site assembly.



### Installation-Truss and Ladur

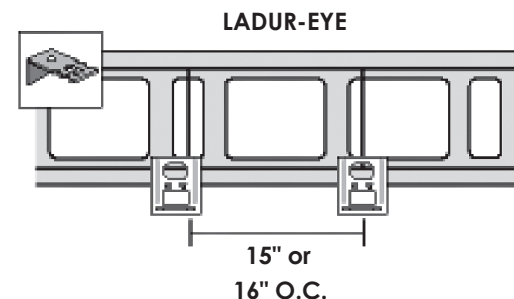
Use at least one longitudinal side rod for each bed joint. Out to out spacing of the side rods is approximately 2" less than the nominal thickness of the wall or wythe in which the reinforcement is placed.

#### Splices

Side rods should be lapped 6" at splices in order to provide adequate continuity of the reinforcement when subjected to normal shrinkage stresses.

#### Centering and Placement

Place joint reinforcement directly on masonry and place mortar over wire to form bed joint. This applies to both truss type (shown) and ladur type.







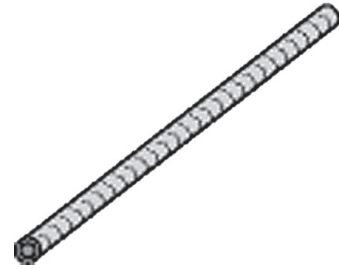
# JOINT REINFORCING

M A S C O . N E T

MASONRY

## Straight and Cut

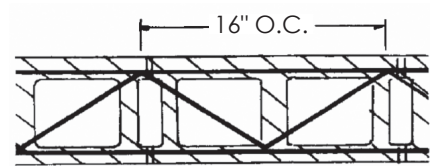
For brick veneer walls. Standard 9 gauge deformed wire. Packages in 10' lengths, 100 pieces or 1,000' per bundle. Wire hot dipped galvanized to meet ASTM A-153, Class B.



No.	Description	Wt/Bndl (lbs)
W 9HD10	Hot Dipped	60.0
W 9SS	Hot Dipped Stainless Steel	60.0

## Truss

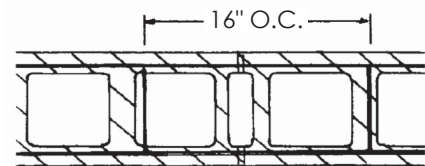
Truss design is a prefabricated reinforcement for embedment in the horizontal mortar joints of masonry. Manufactured from wire conforms to ASTM A 83 for cold-drawn steel wire. It consists of two 9 gauge deformed longitudinal wires welded to a continuous 9 gauge diagonal cross wire at 16" O.C. Out-to-out spacing is approximately 2" less than the nominal thickness of the wall. Wire is hot dipped galvanized to meet ASTM A-153, Class B. Other wire gauge available on request. 500 lf per bundle.



No.	Size	Wt/Bndl (lbs)
W 4KWEB	4"	90.0
W 6KWEB	6"	90.0
W 8KWEB	8"	95.0
W 10KWEB	10"	100.0
W 12KWEB	12"	105.0

## Ladur

Ladder design is a prefabricated reinforcement for embedment in the horizontal mortar joints of masonry. It is manufactured from wire conforming to ASTM A-82 for cold drawn steel wire. It consists of two 9 gauge parallel deformed longitudinal welded to perpendicular 9 gauge cross wire. Out to out spacing is approximate two inches less than the nominal thickness of the wall. Wire is hot dipped galvanized to ASTM A-153, Class B2. Other wire gauge available on request. 500 lf per bundle.



No.	Size	Wt/Bndl (lbs)
W 6LADUR	6"	65.0
W 8LADUR	8"	70.0
W 10LADUR	10"	75.0
W 12LADUR	12"	80.0

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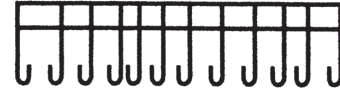
# BLOCK ACCESSORIES



## MASONRY

### Seismic Comb

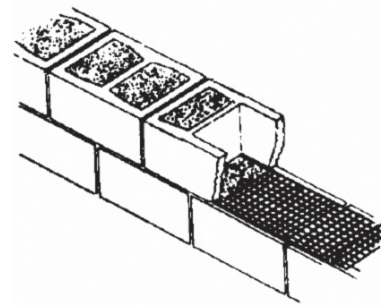
Masonry confinement reinforcement located in horizontal mortar joint to improve seismic performances of shear walls. Provides the Vertical Rebar confinement requirements in Section 2108.2.5.6 (1994). Made with 3/16" diameter wire conforming to ASTM A-82 with hot dipped galvanized finish ASTM A-153, is standard.



No.	Size	Wt/Ctn (lbs)
DA 8SC	8"x24"	1.0
DA 12SC	12"x36"	2.2

### Grout Stop

Designed to prevent grout from falling through block core while maintaining positive bond in mortar joint. Constructed of strong non-corrosive polypropylene monofilament screening. Available for 6", 8", 10" and 12" CMU. Provides improved bonding of masonry anchor in hollow block construction. Does not interrupt mortar bond between blocks. Available in 100 lined foot rolls.

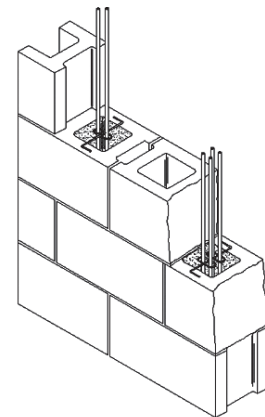
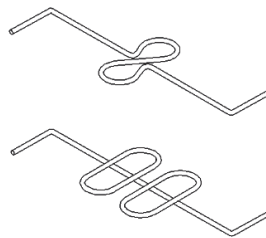


No.	Size	Qty/Ctn	Wt/Ctn (lbs)
DA 6DS	6"	27	10.0
DA 8DS	8"	18	10.0
DA 10DS	10"	14	10.0
DA 12DS	12"	12	10.0

### Rebar Positioner

Available in 9 gauge wire to hold a maximum of #7 bar in position at center of wall or either side of cavity. Located at top of 1st course and course below top of wall with maximum of 4' between positioners. Required for reinforced masonry by Uniform Building Code and ACI-530.0. 500 pieces per carton.

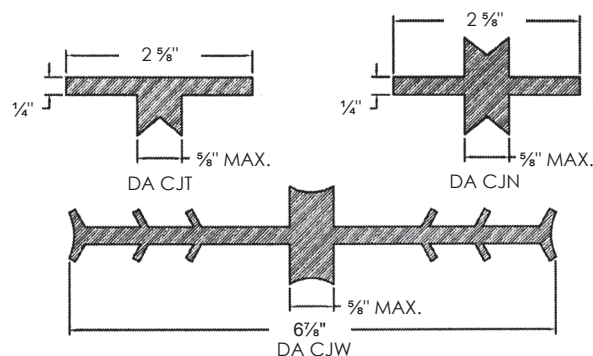
No.	Size	Wt/Ctn (lbs)
CT 6RP	6"	24.0
CT 8RP	8"	27.0
CT 8RP2	8" double	36.0
CT 10RP	10"	30.0
CT 10RP2	10" double	33.0
CT 12RP	12"	32.0
CT 12RP2	12" double	35.0



### Control Joints

Extruded from a specially formulated PVC compound with 80 durometer hardness conforming to ASTM D-2240. Designed for use in solid or cavity masonry wall construction at pilasters, columns, intersections or other joints. In long walls, control joints are recommended to provide resistance to cracking under stress of expansion and contracting.

No.	Description	LF/Ctn	Wt/Ctn (lbs)
DA CJT	2-5/8" T-Flat	60	42.0
DA CJN	2-5/8"	60	53.0
DA CJW	6-7/8"	60	66.0





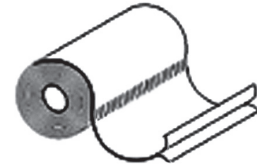
M A S C O . N E T

# FLASHING

## MASONRY

### Blueskin®

Blueskin®, when applied appropriately, will virtually eliminate drafts and water leaks at critical areas around the exterior of your building. The membrane is made of an SBS rubberized asphalt compound that is integrally laminated to a (blue) cross laminated polyethylene film, and is specially designed to be self-adhered to all prepared substrates of concrete, CMU's, primed steel, rigid vinyl, mill finish and anodized aluminum, galvanized metal, drywall, plywood, and OSB sheathing. The SBS membrane is flexible with excellent adhesion at low temperatures. Blueskin® is impermeable to air, moisture vapor, and water; and is self-sealing when penetrated with most fasteners. Stocked in 40 mil thickness.

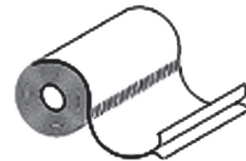


No.	Size	Wt (lbs)
CD BS640	6"x75'	9.5
CD BS940	9"x75'	14.3
CD BS1240	12"x75'	18.0
CD BS1840	18"x75'	27.0
CD BS3640	36"x75'	54.0
CD SBP	5 gal. Primer	35.0
CD BSCAULK	29 fl. oz. Caulk	3.0

### PermabARRIER

A composite, self adhesive sheet type waterproofing membrane consisting of 8 mils of high density cross laminated polyethylene bonded to 32 mils of rubberized asphalt for a total thickness of 40 mils. It is self sealing, and excellent puncture resistance. It is self healing since the adhesive system will elongate and recover if somewhat damaged. Needs no reglet when adhering membrane to vertical substrate. Applications include; thru wall flashing; concealed flashing; foundation sill flashing; base flashing; spandrel flashing; head and sill flashing and parapet flashing.

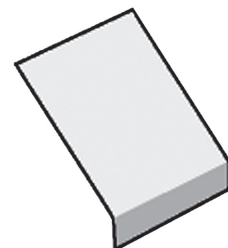
A primer is necessary for dusty and certain substrates. Consult technical bulletin for more information.



No.	Size	Wt (lbs)	Qty/Ctn (lbs)
WR 12PB	12"x75'	25.0	3
WR 18PB	12"x75'	38.0	2
WR 36PB	12"x75'	75.0	1
<b>Accessories:</b>			
WR 5GVOCP	5 gal. pail primer	50.0	
H TEM3000	30 fl. oz. cartridge	2.70	12

### Drip Edge Flashing

Drip Edge Flashing, when used with thru wall flashing material creates an effective moisture barrier. The partially embedded drip edge produces an aesthetic finish. Fabricated from 26 gauge stainless steel. 10 lf lengths.



No.	Wt/Pc (lbs)
DA DE	3.0

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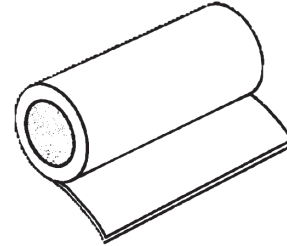
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# FLASHING

## MASONRY

### Cop R Tex

The superior qualities of copper are protected during installation with sheet of heavy, creped kraft paper, asphalt bonded to one side of the copper. This is an economical product that still provides a permanent waterproofing solution. It is ideal for curtain wall and frame construction. Cop R Tex Flashing is available with 2 or 3 ounces of copper per square foot. Supplied in 60 lineal foot rolls.



No.	Description	Wt (lbs)	Qty/Ctn
WC 30Z12	30Z x 12"	13.5	3
WC 30Z18	30Z x 18"	20.0	2
WC 30Z36	30Z x 36"	40.0	1

### Copper Fabric

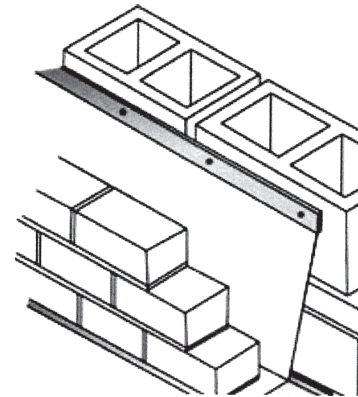
Copper Fabric Flashing is permanently bonded together with a polymer modified asphalt to provide permanent protection under all thru-wall conditions. The copper sheet is asphalt coated on both sides and bonded under high pressure between two layers of high tensile fiberglass fabric. A light and flexible flashing that is rigid enough to maintain its shape when formed and installed at the job sites. Available in 3 or 5 ounces of copper per square foot. Copper Fabric Flashing is supplied in 25 lineal foot rolls.

No.	Description	Wt (lbs)	Qty/Ctn
WC 30ZCFF12	30Z x 12"	12.0	3
WC 30ZCFF18	30Z x 18"	18.0	2
WC 30ZCFF36	30Z x 36"	36.0	1
WC 50ZCFF12	50Z x 12"	15.0	3
WC 50ZCFF18	50Z x 18"	30.0	2
WC 50ZCFF36	50Z x 36"	45.0	1
WC 70ZCFF12	70Z x 12"	18.0	3
WC 70ZCFF18	70Z x 18"	27.0	2
WC 70ZCFF36	70Z x 36"	36.0	1

### Flashing Cement

An asphalt modified cement for bonding copper flashing to itself and to modified bituminous membranes. A custom blend of rubber, refined asphalt, solvents and thixotropic additives, augmented with reinforcing fibers. Apply cold by trowel. Cures to a tough, flexible waterproof barrier and adhesive for long term performance. Resistant to ultra violet and chemical attack. It is a non-asbestos formula. Meets ASTM D-4586-86, Type 1.

No.	Size	Wt (lbs)
WC 5GTITE	5 gal. pail	42.0

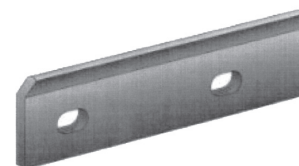


### Aluminum Termination Bar

No.	Size	Wt (lbs)	Pcs/Tube
CT TERMBAR	1" x 10'	1.0	50

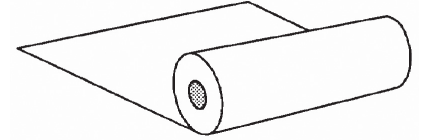
### Aluminum Termination Bar (With sealant ledge)

No.	Size	Wt (lbs)	Pcs/Tube
CT TERMSL	1" x 10'	1.0	50



## Felt Paper

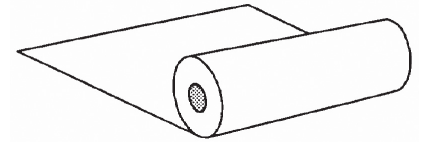
A superior asphalt impregnated perforated felt breathing sheathing paper, high water resistance, vapor permeability, excellent strength, puncture resistance and flexible. An effective weather and water resistant sheathing paper applied on sidewalls behind stucco, siding, shingles or masonry veneer. Also for use under lightweight concrete floors, behind tile and in areas requiring protection against moisture dust and debris. 15# Felt Meets ASTM D-226, Type I, 30# Felt Meets ASTM D-226, Type II.



No.	Size	Wt (lbs)
GP 15F3ASTM	15# x 36" x 108' (3 square)	42.0
GP 30FASTM	30# x 36" x 72' (2 square)	58.0

## Kraft Paper

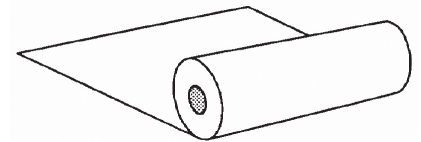
An ideal, asphalt laminated paper for a moisture barrier under hardwood floors. Also used as a backing for ceramic tile, and stone veneering as well as a good work over and masking paper for general utility purposes. Federal Specification: UU-B-790a, Type 1, Grade B and Style 1A and Federal Housing Specification 720-H.



No.	Size	Wt (lbs)
GP KRP	3' x 166' (500 sf)	16.0

## Plasterkraft

An asphalt impregnated kraft breathing sheathing paper. It is high water resistant, vapor permeability, excellent strength, puncture resistant and flexible. An effective weather and water resistant sheathing paper applied on sidewalls behind stucco, siding, shingles or masonry veneer. Meets Federal Specification UU-B--790a, Type I, Grade D, Style 2.



No.	Size	Wt (lbs)
GP PLKR	40" x 150' (500 sf)	17.0

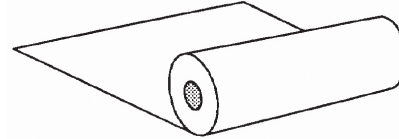
# VAPOR BARRIER



## MASONRY

### Super Jumbo Tex 60 Minute 2 Ply

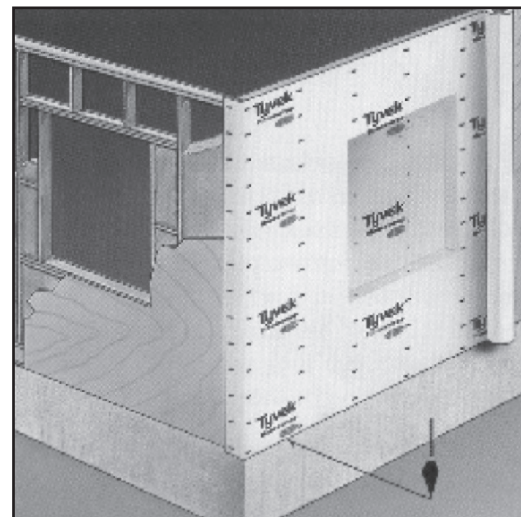
A premier grade weather-resistive barrier designed for use within a variety of exterior wall assemblies. It provides excellent protection from internal wall damage due to water intrusion and condensation. It is an asphalt-saturated kraft Grade "D" breather-type sheathing paper. Exceeds Federal Specification UU-B-7490a, Type 1, Style 2, Grade "D". Complies with Uniform Building Code Standard 14-1. Complies as an alternative to the water-resistive barrier specified in Section 1404.2 of the 2000 International Building Code®. Complies as an alternative to the weather-resistant sheathing papers specified in Section R703.2 of the 2000 International Residential Code®. ICBO Evaluation Report No. 1025, BOCA Evaluation Report No. 2146 and SBCCI Evaluation Report No. 2103.



No.	Size	Wt (lbs)
GP SJT2P	40" x 162 ft <sup>2</sup>	21.0

### TYVEK

A non-woven breathable material made from extremely fine, continuous high-density polyethylene fibers that are fused together by bonding. No holes are punched through TYVEK for moisture vapor breathability. That's because the fibrous structure is engineered to create extremely small pores that readily allow moisture vapor to evaporate through the sheet. These pores are so small that liquid water and air have a very difficult time penetrating TYVEK. Advantages include; Reduction of airflow through the wall; Help prevent moisture buildup in the wall cavity; Provide resistance to water penetration, and; Help protect the structure from the elements during the construction phase.



No.	Description	Size	Wt (lbs)
GP CW5	Commercial Wrap	5' x 200'	19
GP CW10	Commercial Wrap	10' x 125'	24
GP SW	Stucco Wrap	5' x 200'	15
GP TYTAPE	Tape	2" x 165'	0.25

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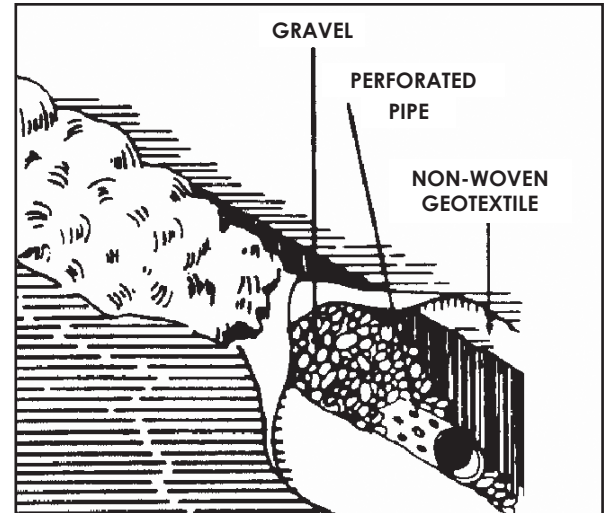
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### Non-Woven (Needle Punched)

Made from the highest polypropylene fibers, nonwoven geotextiles are needlepunched to form a strong fabric that retains its dimensional stability, adding years to the life of any roadway, railroad, landfill or civil/environmental engineering project. Used in subsurface drainage, separation, applications, these geotextiles are resistant to ultraviolet (UV) degradation and to biological and chemical environments normally found in soils. Other types available on request.

No.	Grab Tensile	Puncture Strength	AOS	Size	Wt (lbs)
GX 351	95	55	50	12.5' x 360' (500 sy)	130.0
GX 401	115	65	70	15' x 360' (600 sy)	167.0



### Spunbonded - 2oz

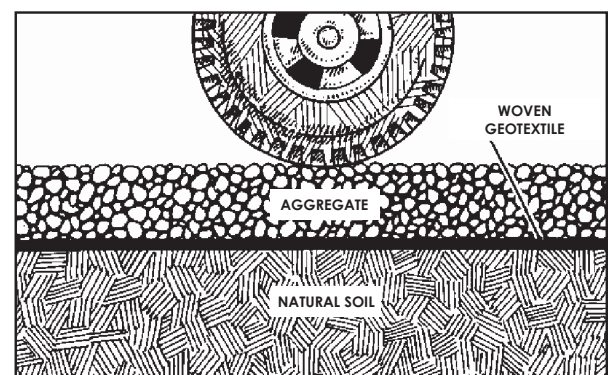
Lightweight geotextile designed for drainage structures and lightweight separation applications where permeability is a primary and strength is not critical.

No.	Grab Tensile	Puncture Strength	AOS	Size	Wt (lbs)
EC SF203	60	18	30	3' x 300' (100 sy)	15.0
EC SF206	60	18	30	6' x 300' (200 sy)	30.0
EC SF20	60	18	30	12.5' x 300' (417 sy)	65.0

### Woven

Featuring high tensile strengths and low elongations, woven geotextiles have a remarkable capacity for filtering soils, distributing loads, reducing rutting and extending the life of paved and unpaved roadways. Made from individual yarns woven together to provide dimensionally stable geotextiles, they are resistant to ultraviolet (UV) degradation and to biological and chemical environments normally found in soils. These woven geotextiles are backed by decades of in-field performance in everything from separation and filtration to erosion control and waste containment applications. Other types available on request.

No.	Grab Tensile	Puncture Strength	AOS	Size	Wt (lbs)
GX 200ST	200	90	40	15' x 360' (600 sy)	166.0
GX 250ST	250	110	40	17.5' x 258' (500 sy)	171.0



# EROSION CONTROL

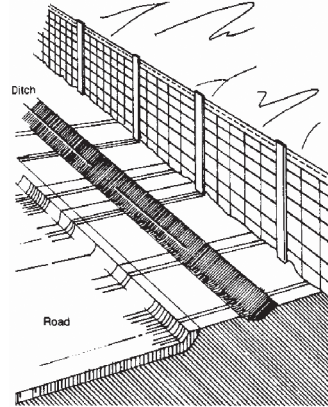


## GEOTEXTILES

### Silt Fence

Fabrics and pre-assembled fences for control and filtration of silt from the water runoff on disturbed soil surrounding construction sites. Quick and simple to install, these fabrics satisfy environmental erosion concerns during development and construction.

No.	Size	Wt (lbs)
EC GTF104S	3'x100' w/stakes	29.0
<b>Accessories:</b>		
WD 48HUB	2"x2"x48" wood stakes, 25/bndl	54.0



### Bio Bags

Plastic mesh bags filled with recycled wood chips to control job site runoff by allowing water to flow while holding back debris. Suitable for open banks, gullies, catch basins, culvert retention areas, and roadside ditches.

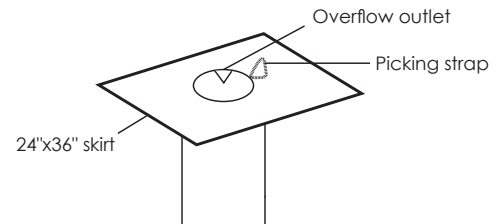
No.	Size	Wt (lbs)
EC BIO30	18"x8"x30", 25/pallet.	14.2



### Catch Basin Filtration Bag

Heavy duty non-woven geotextile fabric with skirt to fit catch-basins. Filtration bag is attached to skirt, suspended from the grate by nylon straps. Gravity holds the filter in place with optimum efficiency, designed to support heavy loads of debris and sediment.

No.	Size	Wt (lbs)
EC SILT	36" x 24"	0.75



### Safety Fence

Gives increased level of protection for workers and the public. Good value and durable. Lightweight for ease of handling and installation. EC stamps can be used for impression stamped handicap crossings.

No.	Size	Wt (lbs)
EC RN100	4'x100' Plastic	13.5
EC STAMP	4'x50' Plastic	15.0

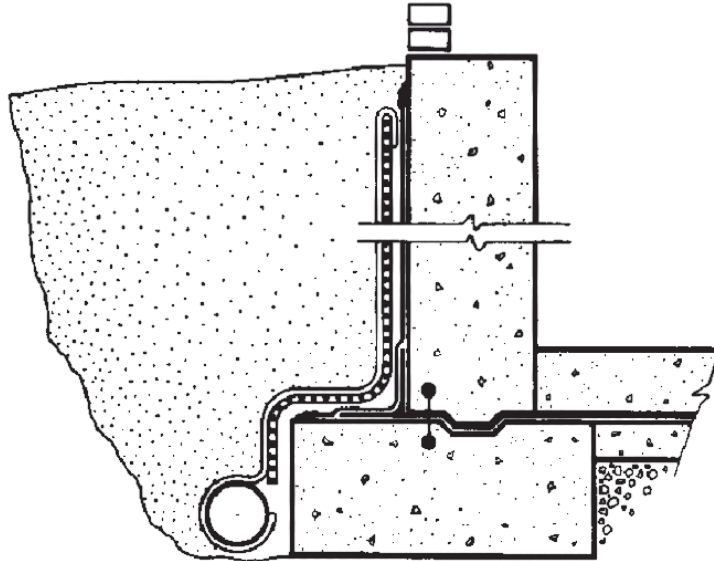


### Sand Bags

No.	Size	Wt (lbs)	Qty/Ctn
CT SBP	14"x 26" Poly Woven	0.10	50
CT PS	18"x 32" 6 Mil Poly	0.13	250
CT BS	14"x 26" Burlap	0.72	25







### Delta Drain 6000

**Description:** Delta Drain products are unique one-sided drainage composites with superior flow capacity, high compression strength and creep resistance. **Delta Drain 6000** with 15,000 psf compressive strength meets the demands of deep foundation wall drainage, and drainage under high overburden loads.

**Application:** Tunnel construction, drains off water from underground walls and structures by placing sheets vertically. Also used on retaining walls and bridge abutments.

#### Specifications:

**Vertical Water Flow Rate**  
(ASTM D-4716): 18 gal/min/ft

**Horizontal Water Flow Rate:**  
(ASTM D-4716): 3.2 gal/min/ft

**Thickness:** .4"

**Polymer Composition:**  
Polypropylene

**Compressive Strength**  
(ASTM D-6364-06): 15,000 psf

No.	Size	Wt (lbs)	Qty/Pallet
DRB 6000	4'x50', 200 ft <sup>2</sup> /roll	42.00	12/pallet
DRB 6000-6	6'x50', 300 ft <sup>2</sup> /roll	63.00	6/pallet

# CONCRETE PLACING EQUIPMENT



## CONCRETE PLACING

### Concrete Buckets

The "R" Series Concrete Bucket is 30% to 50% lighter than most standard steel buckets of the same capacity. The Double Clamshell 16" diameter gate featuring the patented GarBro venturi throat is non-jamming, grout tight, and self-closing. A variety of attachments are available for all "R" series buckets, including rubber accordion hoppers, side chutes, air operated gate systems, and extensions collars.

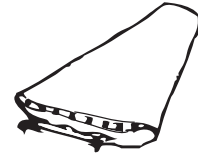


No.	Cu Yards.	Cu. Ft.	Outside Dia In.	Loading Height In.	Wt (lbs)
GA 413R	1/2	13.50	38	41	257
GA 427R	1	27.50	56	46	400
GA 440R	1-1/2"	40.50	63	53	491
GA 454R	2	54.00	70	58	642
GA 483R	3	83.00	70	72	800

**Sides Chutes** - Available with "R" series round buckets to concrete discharge to the side.

**Rubber Acordion Hoppers** - These hoppers funnel concrete from a bucket into narrow forms and prevent segregation due to free fall.

No.	Description	Length Below Bucket	Discharge Opening	Wt (lbs)
GA 409E	All "R" and "G" Round	3lf	8"	21.00



### Elephant Trunk

Elephant trunks are available in either 8" or 12" diameters. Sold in 50 ft lengths.

No.	Size	Wt (lbs)
GS 682	8"	43.00
GS 683	12"	64.00



### Clamps

Steel clamps are furnished in one size that adjusts to fit both the 8" and 12" steel collars and hoppers.

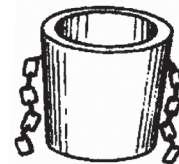
No.	Size	Wt (lbs)
GS 690	One Size Fits All	0.06



### Collars

Steel collars are available in either 9" or 8" diameters or 13" to 12" diameters.

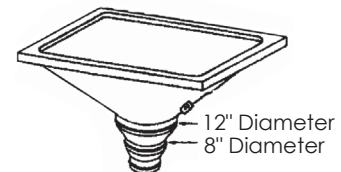
No.	Size	Wt (lbs)
GS 688	9" to 8"	3.00
GS 689	13" to 12"	4.00



### Hoppers

Hoppers are fabricated from high density polyethylene plastic, giving a rugged and sturdy product while at the same time being very lightweight. The system can be easily assembled and handled by one man. Adjustable hopper size 12" and 8".

No.	Hopper Size	Wt (lbs)
GS 484	36"x36"	25.00





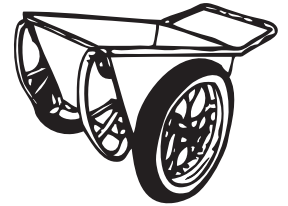
# CONCRETE PLACING EQUIPMENT

M A S C O . N E T

CONCRETE PLACING

## CONCRETE BUGGY

Contractors choice for decades to move concrete mix from truck to form for small pours and/ or "isolated" sites where power buggies or pumping is not feasible due to cost or logistics. Heavy duty design features 14 ga. steel tub with lapped corners and continuous welds. Easy operation with 26" staggered spoke wheels with 4 ply pneumatic tire and tube, heavy duty axle, caged needlepoint roller bearings.



No.	Length	Width	Height	Capacity	Wt (lbs)
TWB CB6	53"	35"	34"	6 cubic feet	180.00
TWB CB8	58"	35"	36"	8 cubic feet	200.00

## METAL TUB

Rugged wheelbarrows built for heavy duty use. The trays are made from high grade steel and coated with a baked enamel finish. All edges are rolled to maximize tray strength. Equipped with 2 or 4 ply pneumatic tires, oil lube bearings and steel wheel guard.



TWB 6E

No.	Description	Wt (lbs)
TWB 6E	6 cu. ft., w/wood handle, 2 ply tire -- Good quality	54.00
TWB 6S	6.25 cu. ft., w/wood handle, 4 ply tire -- Standard quality	75.00
TWB 6P	6.25 cu. ft., w/steel handle, 4 ply tire -- Best quality	79.00
TWB 6N	6 cu. ft., w/steel handle, 4 ply tire -- 28" wide	80.00
TWB 6SNF	6 cu. ft., w/steel handle -- Never flat tire	60.00



TWB 6N

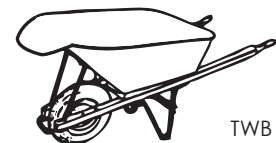
## PLASTIC TUB

Made from high density polyethylene. The tray is virtually indestructible. Won't rust, dent, or crack. Resists chemicals. Non-stick surface is easy to clean. Lighter and easier to handle than steel tray barrows. Strong carriage and frame. Equipped with 4 ply pneumatic tires, oil lube bearings, sand wheel guard.



TWB P6

No.	Description	Wt (lbs)
TWB P6	6.25 cu. ft., w/wood handle, 4 ply tire -- Standard quality.	68.00
TWB PEZ	6 cu. ft., EZ Pour spouted, w/wood handle, 4 ply tire -- Standard quality	43.00



TWB PEZ

## SOLID FOAM TIRE

Made of solid polyurethane this tire cannot go flat. Objects stick to the tire but there is no puncture. Large enough to charge over rocks and 2x4's, this tire has a great load capacity.

No.	Wt (lbs)
TWB FT	10.00



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# VIBRATORS

## CONCRETE PLACING

### BACKPACK VIBRATOR

Powerful, portable and reliable...these gas power units, provide ultimate and immediate adaptability on the job. Utilizing rugged and dependable Honda gasoline engines, coupled to our "speed-up" transmission, vibrator heads develop 12,000 vpm and never drop below 10,000 vpm...Even in the heaviest low slump concrete loads. Mounted on very comfortable frames, these backpacks allow operators incredible maneuverability around the job. Run time with full tank approximately 1 hour plus.

**BP50A** Runs head up to 2½" diameter. Honda 2½ HP, 4 stroke, weight 24 lbs. Equipped with a totally enclosed rotary throttle and a conveniently located kill switch on the same handle.




BP50A

No.	Motor / HP	Max Head Size	Wt (lbs)
OZ BP50A	2½ HP Gas Honda	2½"	24.00

### ELECTRIC MOTORS

Manufactured to exacting specifications to withstand the rough day-to-day abuses associated with construction sites. Lightweight, compact and fitted with our comfortable adjustable shoulder strap, this one man power unit will speed through the stiffest concrete. All Power Units (gas and electric) run vibrator heads 11,000 to 12,000 vpm. They never drop below 10,000 vpm even in the lowest slump concrete when maximum head size specifications are followed. These power units come standard with the Quick Disconnect "QD" system. Changing shafts and heads on the job is a snap.

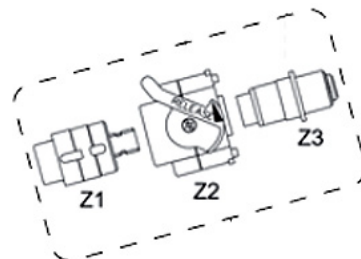


Model No.	Amps	HP	Maximum Head Size Steel	HEADS - STEEL		SHAFTS		Accessories		HEAD DIAMETER	RADIUS OF ACTION (R- Inches)	
				No.	Size	No.	Size	No.	Description			
OZ 1.2	9	1¼	1½"	OZ H100	1"	OZ FS7	7'	OZ SC	Shaft Connector to Motor	1"	4	
OZ 1.8	15	1¾	1¾"	OZ H150	1½"	OZ FS10	10'			1½"	6	
OZ 2.4	17	2¼	2"	OZ H175	1¾"	OZ FS14	14'	OZ 6725A1	Ball Bearing Shaft to Shaft Connector	1¾"	9	
				OZ H200	2"					2"	11	
				OZ H250	2½"					2½"	13	
											These values are only a general guide.	

### QUICK DISCONNECT REPAIR KIT

217A1 (**Z1**) threads on to any length of Oztec style flexible shaft.  
 270MX1 (**Z2**) screws on to the motor housing.  
 271GT1 (**Z3**) threads on to the motor armature (rotating part).  
**Comes as a three piece kit.**

No.	Description
OZ QDKIT	Repair kit for quick Disconnect





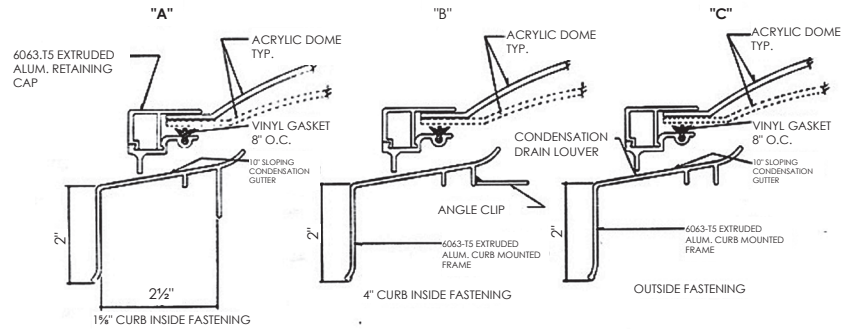
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# SKYLIGHTS

**SPECIALTY PRODUCTS**

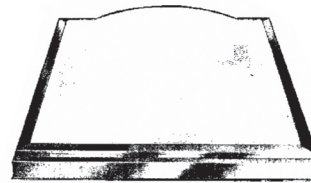
## Skylight Curb Mount

Plastic skylights shall be standard units, as manufactured by Dur-Red Products. They shall be factory fabricated, each consisting of a one or two piece acrylic plastic dome, extruded aluminum retaining frame and curb frame sloping condensation gutter for drainage. The retaining frame shall have a minimum thickness of .070. Skylights may be specified with either clear or white translucent acrylic single dome, or double dome clear over white.



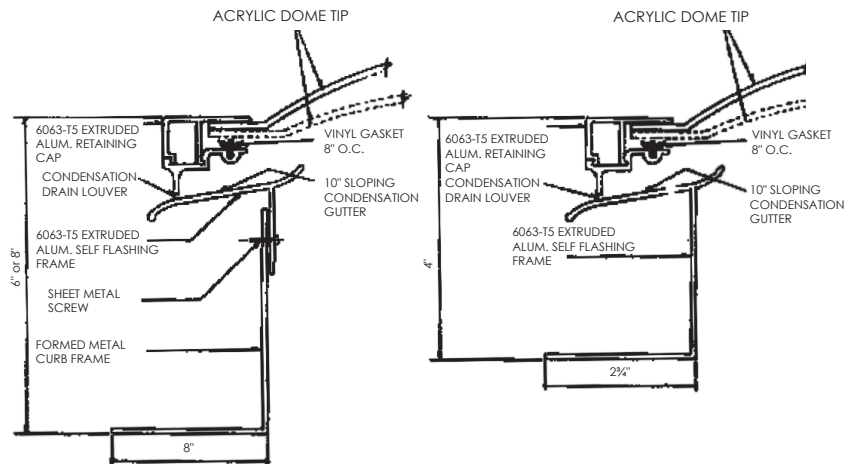
No.	Curb Opening
DUR 2828S	22-1/4" x 22-1/4"
DUR 3636S	30-1/4" x 30-1/4"
DUR 4242S	37" x 37"
DUR 5252S	46-1/4" x 46-1/4"
DUR 6060S	55" x 55"
DUR 8080S	75" x 75"
DUR 9898S	92-1/2" x 92-1/2"
DUR 55102R	48" x 96"

**For Type of metal, follow product number with A (aluminum) or G (galvanized).**



## Skylight Self-Flash

Plastic skylights shall be standard units, low silhouette self flashing skylight as manufactured by Dur-Red Products. The skylight shall be factory assembled units each consisting of a one or two piece acrylic plastic dome formed from white translucent or clear colorless acrylic material, single dome or double dome clear over white, self flashing curb frames with 2-3/4" roof flange ready to provide for nailing to roof deck.



No.	Curb Opening
DUR 2828SF	22-1/4" x 22-1/4"
DUR 3636SF	30-1/4" x 30-1/4"
DUR 4242SF	37" x 37"
DUR 5252SF	46-1/4" x 46-1/4"
DUR 6060SF	55" x 55"
DUR 8080SF	75" x 75"
DUR 9898SF	92-1/2" x 92-1/2"
DUR 55102SF	48" x 96"

**For Type of metal, follow product number with A (aluminum) or G (galvanized).**



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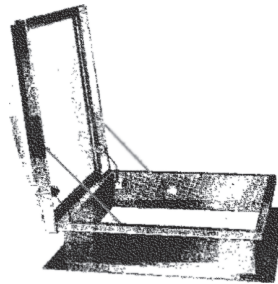
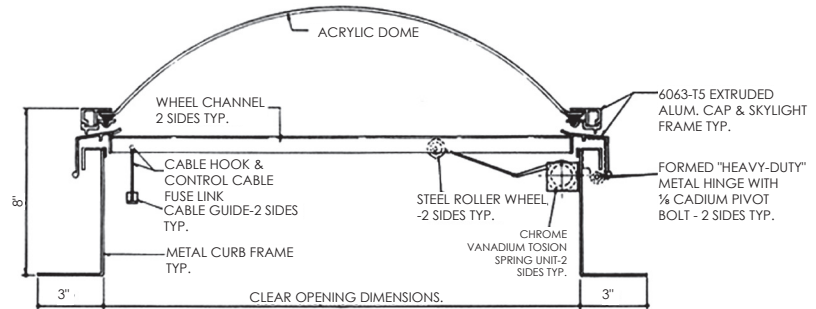
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# HATCHES

## SPECIALTY PRODUCTS

### Smoke Hatch Dome

Furnish where indicated on plans Smoke Hatch Dome, factory fabricated, consisting of a one piece acrylic dome, either white translucent or clear colorless; and a dome frame of extruded aluminum #6063-T5, with a minimum thickness of .070, provided with a self-contained sloping condensation and weepage gutter for drainage. The retaining frame and curb frame shall be fabricated from either steel or aluminum; painted with two coats of acrylic paint. Lid hardware shall consist of safety stops; heavy-duty 3/16" aluminum pivot hinges, and chrome vanadium torsion springs and lifting arms.

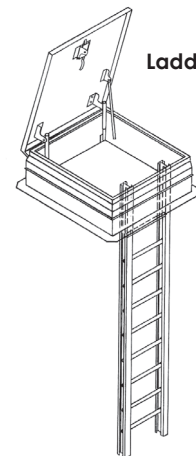
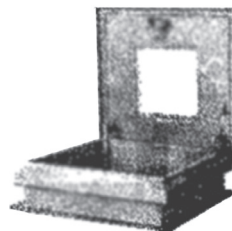


No.	Clear Opening
DUR 5555SHD	48" x 48"
DUR 5566SHD	48" x 60"
DUR 5578SHD	48" x 72"
DUR 5596SHD	48" x 90"
DUR 55102SHD	48" x 96"

For type of metal follow product number with **A** (aluminum) or **G** (galvanized).

### Ladder Hatch

Furnish where indicated on plans, Ladder Hatch, factory fabricated, curb and curb frame and lid shall be 14 gauge galvanized steel, fully welded and ground smooth for absolute weather tightness; completely assembled with heavy-duty 3/16" galvanized pivot hinges; lid to have a fiberglass insulation, protected by a 22 gauge lid liner; inside, outside handles with padlocking provisions; heavy-duty air flow pressure intensifier control; automatic hold-open and operating arms, with red vinyl handlegrip; and bulb-neoprene seal. (Also available in aluminum.)

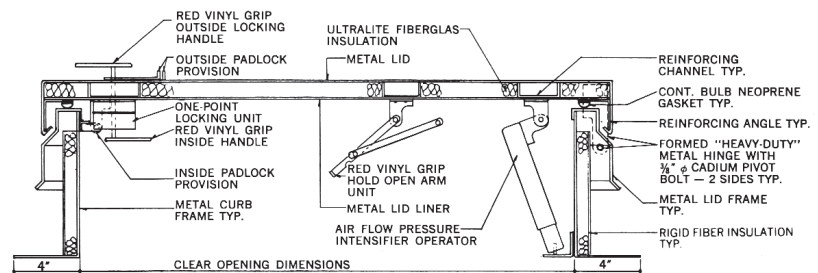


Ladder hatch

Ladder hatch  
Industrial full i-beam  
Side rails are extra  
heavy duty 3" I-beam  
extrusions for maxi-  
mum strength.

No.	Clear Opening
DUR 2424LH	2'0" x 2'0"
DUR 3030LH	2'6" x 2'6"
DUR 3036LH	2'6" x 3'0"
DUR 3636LH	3'0" x 3'0"
DUR 3096NSH	2'6" x 8'0"
DUR 3696NSH	3'0" x 8'0"

For type of metal follow product number with **A** (aluminum) or **G** (galvanized).





# LADDER UP / SIDEWALK DOOR

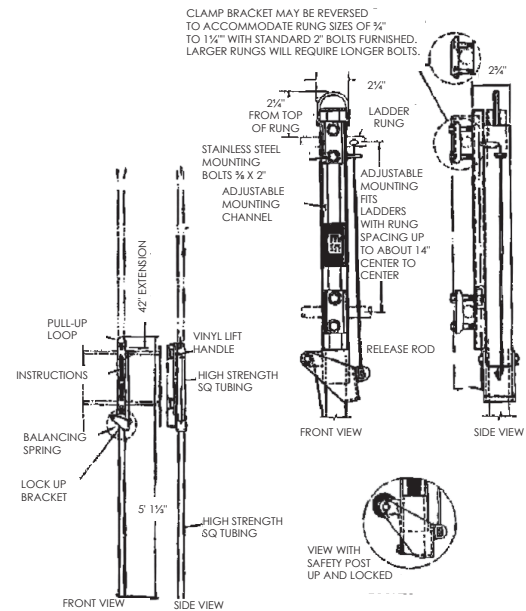
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**SPECIALTY PRODUCTS**

## Ladder Up

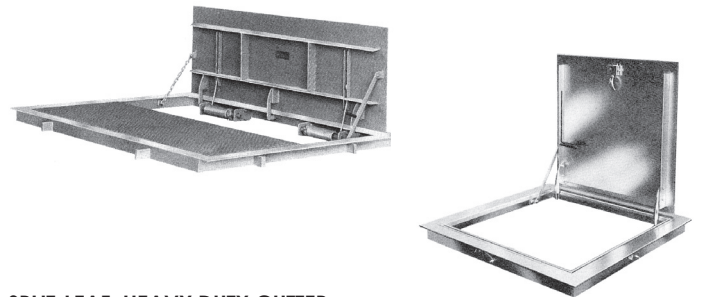
The Ladder Up safety post attaches quickly and easily to fixed ladders in new or existing construction. It is shipped in an individual carton, fully assembled with four bolts for securing to the top two rungs (round or square) of the ladder. It is ready to use in minutes providing a special measure of convenience and security. It provides the ladder user with the safety of being able to enter or exit as through the ladder extended beyond the floor or roof level. The spring balanced safety post moves easily up and down. After the hatch is opened the post is raised to its fully open position where it locks automatically. A handy release lever allows it to be returned to its lowered position.

No.	Description	Wt (lbs)
LU 1	Steel, black enamel	24
LU 2	Steel, hot dip galvanized	24
LU 3	Type 304 Stainless Steel	24
LU 4	Aluminum, mill finish	14

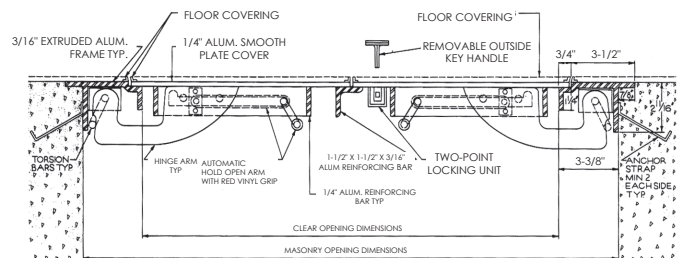


## Sidewalk, Pit & Floor Door

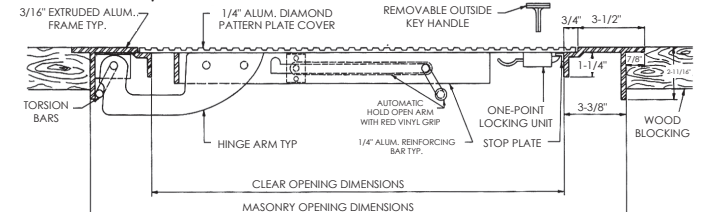
Sidewalk Pit and Floor Door for interior and exterior Type SLG Type, DLG Door applications. Door leafs of 1/4" diamond pattern steel floor plate with reinforcing bars welded to leafs, to support from 150# to H2O liveload per sq. ft. Gutter frame is 1/4" carbon steel channel power brake shape 3-1/2" high x 3" wide, fully welded and ground smooth for absolute weathertightness, with 1-1/2" continuous anchor flange, a 1-1/2" tank flange for drainage welded to gutter channel located in right hand corner. Lid hardware is equipped with heavy strap hinge of 12 gauge steel and has a one-point latch, inside and outside handles, "heavy-duty" adjustable chrome vanadium torsion springs and lifting bar, automatic hold-open arm with vinyl handle grip. Hardware is cadmium plated, and factory coat of primer applied to steel frame and leafs.



### SPLIT-LEAF, HEAVY DUTY GUTTER



### SINGLE-LEAF, HEAVY DUTY GUTTER



No.	Description	Wt (lbs)
<b>Split-Leaf, Heavy Duty Gutter</b>		
DUR 4040DLG	4'0" x 4'0"	450
DUR 4060DLG	4'0" x 6'0"	618
DUR 5050DLG	5'0" x 5'0"	645
DUR 5070DLG	5'0" x 7'0"	875
<b>Single-Leaf, Heavy Duty Gutter</b>		
DUR 2020SLG	2'0" x 2'0"	177
DUR 2626SLG	2'6" x 2'6"	235
DUR 2630SLG	2'6" x 3'0"	275
DUR 3030SLG	3'0" x 3'0"	300
DUR 3636SLG	3'6" x 3'6"	385

**For type of metal follow product number with S (Steel), G (Galvanized).**

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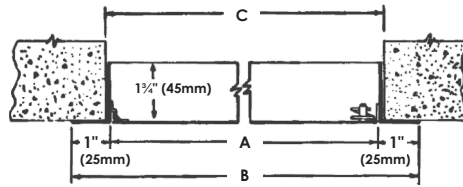
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# ACCESS PANELS



## SPECIALTY PRODUCTS



### Access Panels

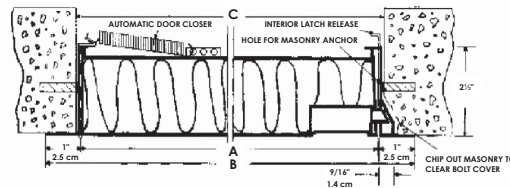
This all purpose, 14 gauge steel access door affords fast and convenient access for inspection or service to vital components of plumbing, heating, air conditioning and/or electrical systems. The TM is primarily used for new installation or remodeling on masonry, tile, wood or other wall surfaces. The exposed one inch frame flange adds rigidity and conceals rough wall openings. The continuous concealed hinged door is mounted to the frame and swings open for ease in servicing and results in a door always closing squarely in place. This continuous concealed hinge allows the panel to be used in wall and ceiling situations. The unit is secured with screwdriver operated cam locks and a key operated cylinder lock can be furnished in place of one cam lock. Nails, bolts or masonry anchors may be used to fasten the TM model securely in place.

### Fire Rated Access Panels

When you need to provide service access to utilities in the walls and ceilings of stairwells, shafts, corridors and any other areas where fire ratings are important. To facilitate installation in wall and ceiling construction, frames are equipped with masonry anchors and bolt holes. Door panels swing on a pin hinge for ease. Doors are furnished with an automatic latch when door is released. An interior latch release device is included on all doors so door can be unlocked from inside. Model FD can be installed in fire rated walls/ceilings and maintains fire barrier ratings. These panels carry Underwriters Laboratories 1-1/2 hour "B" label rating for installation in walls. The FD carries a 3 hour noncombustible and 1 hour combustible Warnock Hersey approval for ceiling applications. Also available in a stainless steel version.

INCHES/CENTIMETERS								
	A DOOR SIZE	B OUTSIDE FRAME DIMENSION		C WALL OPENING DIMENSION		SHIPPING WEIGHT		
No.	W x H	WIDTH	HEIGHT	WIDTH	HEIGHT	(LBS/KGS)	LATCH(ES)	
AD 88TM	8X8	10/25.4	10/25.4	8 3/8 / 21.3	8 3/8 / 21.3	4/1.8	1	
AD 812TM	8X12	10/25.4	14/35.6	8 3/8 / 21.3	12 3/8 / 31.4	5/2.3	1	
AD 1010TM	10X10	12/30.5	12/30.5	10 3/8 / 26.4	10 3/8 / 26.4	6/2.7	1	
AD 1212TM	12X12	14/35.6	14/35.6	12 3/8 / 31.4	12 3/8 / 31.4	7/3.2	1	
AD 1216TM	12X16	14/35.6	18/45.7	12 3/8 / 31.4	16 3/8 / 41.6	9/4.1	1	
AD 1218TM	12X18	14/35.6	20/50.8	12 3/8 / 31.4	18 3/8 / 46.7	10/4.5	1	
AD 1224TM	12X24	14/35.6	26/66	12 3/8 / 31.4	24 3/8 / 61.9	13/5.9	2	
AD 1414TM	14X14	16/40.6	16/40.6	14 3/8 / 36.5	14 3/8 / 36.5	8/3.6	1	
AD 1616TM	16X16	18/45.7	18/45.7	16 3/8 / 41.6	16 3/8 / 41.6	11/5	1	
AD 1620TM	16X20	18/45.7	22/55.9	16 3/8 / 41.6	20 3/8 / 51.8	13/5.9	1	
AD 1818TM	18X18	20/50.8	20/50.8	18 3/8 / 46.7	18 3/8 / 46.7	13/5.9	2	
AD 2024TM	20X24	22/55.9	26/66	20 3/8 / 51.8	24 3/8 / 61.9	17/7.7	2	
AD 2030TM	20X30	22/55.9	32/81.3	20 3/8 / 51.8	30 3/8 / 77.2	20/9.1	4	
AD 2424TM	24X24	26/66	26/66	24 3/8 / 61.9	24 3/8 / 61.9	20/9.1	4	
AD 2430TM	24X30	26/66	32/81.3	24 3/8 / 61.9	30 3/8 / 77.2	24/10.9	5	
AD 2436TM	24X36	26/66	38/96.5	24 3/8 / 61.9	36 3/8 / 92.4	30/13.6	5	
AD 3030TM	30X30	32/81.3	32/81.3	30 3/8 / 77.2	30 3/8 / 77.2	28/12.7	5	
AD 3636TM	36X36	38/96.5	38/96.5	36 3/8 / 92.4	36 3/8 / 92.4	41/18.6	5	

FIG.1 Wall Installation Detail (refer to table below)



INCHES/CENTIMETERS									
	A DOOR SIZE	B OUTSIDE FRAME DIMENSION		C WALL OPENING DIMENSION		D CEILING OPENING DIMENSION		SHIPPING WEIGHT	
No.	W x H	WIDTH	HEIGHT	WIDTH	HEIGHT	WIDTH	HEIGHT	(LBS/KGS)	LATCH(ES)
AD 88FD	8x8	10/25.4	10/25.4	8 3/8 / 21.3	8 3/8 / 21.3	9 3/8 / 24.4	9 3/8 / 24.4	7/3.2	1
AD 1212FD	12x12	14/35.6	14/35.6	12 3/8 / 31.4	12 3/8 / 31.4	13 3/8 / 34.6	13 3/8 / 34.6	11/5	1
AD 1414FD	14x14	16/40.6	16/40.6	14 3/8 / 36.5	14 3/8 / 36.5	15 3/8 / 39.7	15 3/8 / 39.7	14/6.4	1
AD 1616FD	16x16	18/45.7	18/45.7	16 3/8 / 41.6	16 3/8 / 41.6	17 3/8 / 44.8	17 3/8 / 44.8	16/7.3	1
AD 1818FD	18x18	20/50.8	20/50.8	18 3/8 / 46.7	18 3/8 / 46.7	19 3/8 / 49.8	19 3/8 / 49.8	20/9.1	1
AD 2230FD	22x30	24/61	32/81.3	22 3/8 / 56.8	30 3/8 / 77.2	23 3/8 / 60	31 3/8 / 80.3	35/15.9	2
AD 2424FD	24x24	26/66	26/66	24 3/8 / 61.9	24 3/8 / 61.9	25 3/8 / 65.1	25 3/8 / 65.1	31/14.1	2
AD 2436FD	24x36	26/66	38/96.5	24 3/8 / 61.9	36 3/8 / 91.4	25 3/8 / 65.1	37 3/8 / 95.6	40/18.2	2
AD 2448FD	24x48	26/66	50/127	24 3/8 / 61.9	48 3/8 / 122.9			51/23.2	2
AD 3232FD	32x32	34/86.4	34/86.4	32 3/8 / 82.2	32 3/8 / 82.2			54/24.5	1
AD 3636FD	36x36	38/96.5	38/96.5	36 3/8 / 92.4	36 3/8 / 92.4			61/27.7	2
AD 3648FD	36x48	38/96.5	50/127	36 3/8 / 92.4	48 3/8 / 122.9			76/34.5	2

The models shaded above are dual-application, fire-rated panels for both walls and ceilings.

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## Vibration is more about Quality than it is about Quantity

- Over-vibration can cause honeycombing rather than eliminating it.
- Under vibrating concrete can cause honeycombing in low slump concrete.
- High slump concrete (7-9 inches) requires very little vibration. 'Wet' Concrete and SCC (9 inches and higher) usually requires no vibration.
- Over vibration can cause the concrete to lose entrained air, sometimes as much as one half of the air content.
- When placing concrete in lifts, be sure to penetrate previous layer with vibrator in order to protect against cold joints.
- Use as much vertical angle as possible to maximize effect.
- Using the vibrator as a placement tool instead of a consolidation tool can result in sand streaks and an inconsistent surface.

## Jointing Guidelines

*Code Requirements for Residential Concrete (ACI 332) specifying maximum contraction spacing for slabs on grade without steel.*

Slab Thickness (in)	Maximum Aggregate Size less than 3/4 in	Maximum Aggregate Size 3/4 in and larger
3.5	8 ft	10 ft
4.5	10 ft	13 ft
5.5	12 ft	15 ft

- Saw-cutting should be performed before the concrete starts to cool and as soon as the concrete surface is firm enough not to be torn or damaged by the blade. If sawing is delayed, the concrete can crack randomly before it is cut.
- Saw-cutting performed too early in the slab curing process can result in pulling out of the aggregate.
- Saw cut depths should be a minimum of 1 in and preferably 1/4 to 1/3 of the slab depth where practical.

## Proper curing can make or break the job

### Why Cure?

Improper curing can reduce the designed concrete strength as much as 50%.

A properly cured concrete will have fewer pores in the surface where water can enter and freeze (and crack / scale).

Cured concrete will, in general, crack less, have reduced or no dusting, be more durable and achieve increased wear and abrasion resistance.

## Curing Methods

- Membrane curing compounds
- Moist / water cure (concrete is kept wet)
- Wet curing blankets
- Soaked burlap
- Plastic sheets
- 7 Day ponding

*When placing concrete in temperatures colder than 70°F, curing times should be increased to protect concrete longer as strength develops more slowly at colder temperatures.*

## GENERAL & TECH INFO

### Concrete Volume

One cubic yard of concrete (27 ft<sup>3</sup>) will cover:

Concrete Thickness (in)	Coverage Area (ft <sup>2</sup> )
4	81
5	64.8
6	54
7	46
8	40.5
9	36
10	32.4
11	29.5
12	27

### Concrete Jointing

**"Concrete cracks. The trick is to get it to crack where you want it to."**

Joint Types:

**Contraction Joints** – Tooled in or saw cut into slab.

**Construction Joints** – Area where two successive placements of concrete meet.

**Isolation Joints** – Used to effectively isolate a section or area of the slab from other areas of the slab.

*Joints are designed and implemented into the project as much as the concrete mix is. Properly designed and implemented joints can add years to the service life of the slab.*

### Adding Water

**"Water is the best / worst thing you can add to your concrete."**

Adding one gallon of water to one cubic yard of a typical 3000 psi concrete can:

- Increase the slump by about one inch
- Reduce the compressive strength by about 250 psi
- Increase the possibility of passage of moisture throughout the concrete by up to 50%
- Increase the shrinkage potential by about 10%

Properties also affected water addition:

*Lessened wear resistance  
Increased dusting potential  
Increased cracking potential  
Reduced durability*

### Concrete Setting / Stiffening

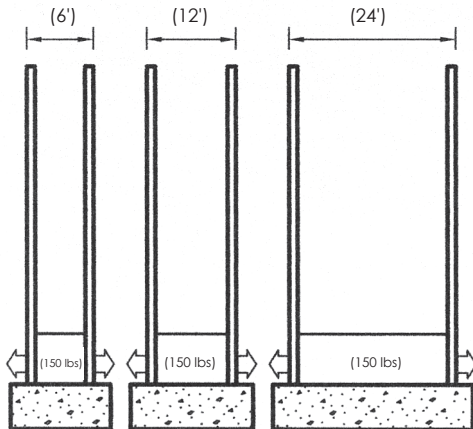
The chemical process by which concrete hardens and gains strength is called hydration. Hydration time can be altered by as much as 30% for each 10°F change in ambient temperature.

Typical concrete placed at 70°F (concrete temperature and ambient temperature) achieves final set in about 6 hours. Concrete and ambient temperatures will affect the setting of the concrete as shown in the table to the right:

Temperature (°F)	Approximate Final Set (hours)
30	19 +
40	14:40
50	10:20
60	8
70	6
80	4
90	2:40
100	1:40

## Points To Remember

Fluid or plastic concrete exerts the same side pressure on forms regardless of their width.

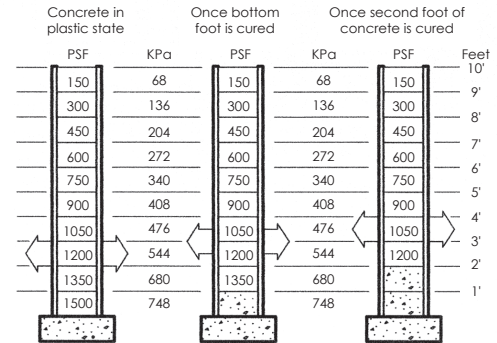


Plastic concrete exerts the same pressure on forms regardless of their width.

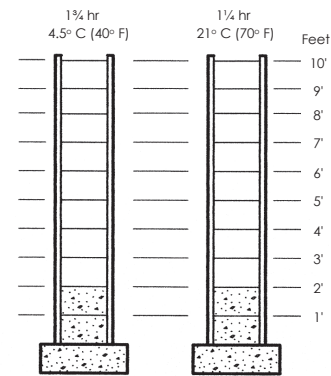
As you add more fluid or plastic concrete to forms, the pressure will build up toward the bottom at about the rate of 150 pounds per foot of depth. This will be true as long as all concrete remains in a plastic state.

**Example:** Eight feet of fluid or plastic concrete bears on the bottom foot of forms with a pressure of 8x150 pounds or 1200 pounds per square foot.

Feet	PSF	KPa
10'	150	68
9'	300	136
8'	450	204
7'	600	272
6'	750	340
5'	900	408
4'	1050	476
3'	1200	544
2'	1350	680
1'	1500	748



As concrete hardens, lateral pressure on forms decreases.



Concrete cures and gains strength faster with an increase in temperature.

**Example:** At 21° C (70° F), concrete sets in approximately 1/4 hour. At 4.5° C (40° F) concrete will set up in about 1 1/4 hour.

## Slab Formwork Design Loads

The loadings used in the designs of slab formwork consists of a dead load and a live load. The weight of the formwork plus the concrete is considered dead load while the live load is made up of the with of workers, equipment, material storage and other like items which is supported by the formwork. The tables below tabulate design loads based on the concrete weight for the thickness indicated, and includes 10 pounds per square foot for the weight of forms and a live load of 50 to 75 pounds per square foot as indicated. A live load of 75 pound per square foot is generally used when motorized carts are used to transport concrete during the placing operation.

### Slab Formwork Design Load for Uniform Slab Thickness

(Includes 50 psf Live Load)

Pounds per Square Foot for Indicated Thickness

2"	4"	6"	8"	10"	12"	14"	16"	18"	20"
100	110	135	160	185	210	235	260	285	310

(Includes 75 psf Live Load)

Pounds per Square Foot for Indicated Thickness

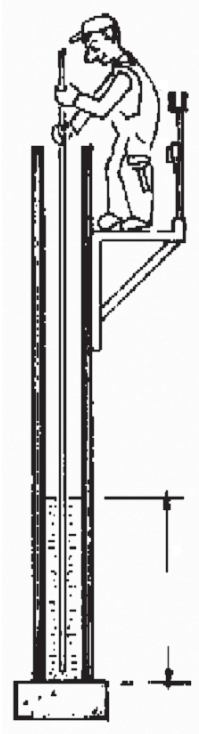
2"	4"	6"	8"	10"	12"	14"	16"	18"	20"
125*	135	160	185	210	235	260	285	310	335

**Note:** Chart is based on a concrete weight of 150 pounds per cubic foot.

\* ACI 347 recommends a minimum 100 psf for form design or 125 psf if motorized carts are used.

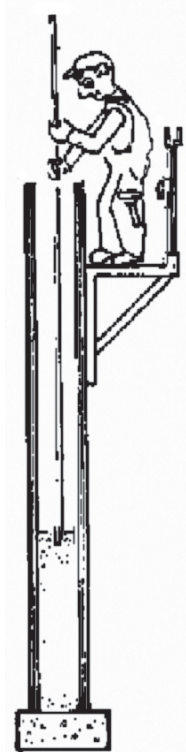
For a complete explanation of general objectives in formwork design, planning, materials and accessories, loads and pressures, design tables and much more, it is recommended that a copy of ACI publication SP-4 "Formwork for Concrete" be obtained. The current edition is available from American Concrete Institute. PO Box 9094, Farmington Hills, MI 48333.

## GENERAL & TECH INFO



1

5/8" rebar goes to the footing - consider concrete is still in fluid state.

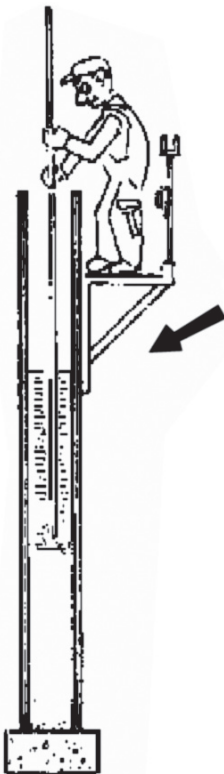


2

Later - Now 5/8" rebar only penetrates concrete a few inches - it is now ready to make your next placement of concrete.

### Sound Your Concrete

In order to know the firmness of your concrete as you make each lift (summer or winter), use a 5/8" piece of rebar and SOUND YOUR CONCRETE! As you push the rebar down through your concrete, you will be able to feel if your previously placed concrete has taken its initial set. This test will help you to determine if the concrete in your form is firm enough and ready to support an additional lift of concrete, without excessive pressure on your form and form ties.

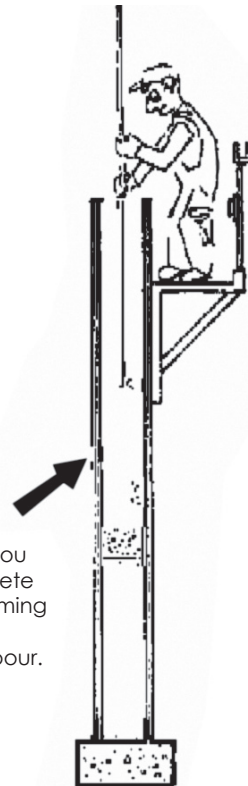


3

Still later - 5/8" rebar penetrates second lift almost all the way into second pour - better give it a little more time to set up.

4

Still later - Again you sound your concrete and now find it firming up. Now you can safely finish your pour.





M A S C O . N E T

# CHARTS

## GENERAL & TECH INFO

### ACI 347-04 (Walls)

#### ACI 347-04

**Unit weight coefficient:  $C_w$**

Less than 140 pcf:  
 $C_w = 0.5[1 + (w/145 \text{ pcf})]$   
 (but not less than 0.80)

140 to 150 pcf:  
 $C_w = 1.0$

More than 150 pcf:  
 $C_w = w/145 \text{ pcf}$

**Chemistry coefficient  $C_c$**

Type I, II and III, w/o  
 retarders:  $C_c = 1.0$

Type I, II and III w/ retarders:  
 $C_c = 1.2$

Other types containing less  
 than 70% slag or 40% fly ash,  
 w/o retarders:  $C_c = 1.2$

Other types containing less  
 than 70% slag or 40% fly ash  
 w/ retarders:  $C_c = 1.4$

Blends containing more than  
 70% slag or 40% fly  
 ash:  $C_c = 1.4$

#### BASE VALUES OF LATERAL PRESSURE ON WALL FORMS

Multiply value by unit weight & chemistry coefficients to obtain pressure on wall form

Table based on:  $C_c = 1.0$   $C_w = 1.0$

RATE OF PLACEMENT	p, maximum lateral pressure, psf, for temperature indicated											
	90 F		80 F		70 F		60 F		50 F		40 F	
1	663	250	728	263	810	279	920	300	1074	330	1305	375
2	694	350	763	375	850	407	967	450	1130	510	1375	600
3	726	450	798	488	890	536	1013	600	1186	690	1445	825
4	757	550	833	600	930	664	1060	750	1242	870	1515	1050
5	788	650	868	713	970	793	1107	900	1298	1050	1585	1275
6	819	750	903	825	1010	921	1153	1050	1354	1230	1655	1500
7	850		938		1050		1200		1410		1725	
8	881		973		1090		1247		1466		1795	
9	912		1008		1130		1293		1522		1865	
10	943		1043		1170		1340		1578		1935	
11	974		1078		1210		1387		1634		2005	
12	1006		1113		1250		1433		1690		2075	
13	1037		1148		1290		1480		1746		2145	
14	1068		1183		1330		1527		1802		2215	
15	1099		1218		1370		1573		1858		2285	
16	1130		1253		1410		1620		1914		2355	
17	1161		1288		1450		1667		1970		2425	

$P = C_w C_c [150 + 43, 400/T + 2800 R/T]$  applies where placement height is greater than 14'

$P = C_w C_c [150 + 9000R/T]$  (shaded) applies for R less than 7 FT/HR.

### ACI 347-04 (Columns)

Base values of lateral pressure on column forms, \* psf, for various pour rates and concrete temperatures.

Multiply value from this table by unit weight and chemistry coefficients to obtain pressure for design of column forms.

Rate of placement R, ft per hr	Concrete temperature during placement, degrees F					
	90° F	80° F	70° F	60° F	50° F	40° F
1	250	263	279	300	330	375
2	350	375	407	450	510	600
3	450	488	536	600	690	825
4	550	600	664	750	870	1050
5	650	713	793	900	1050	1275
6	750	825	921	1050	1230	1500
7	850	938	1050	1200	1410	1725
8	950	1050	1179	1350	1590	1950
9	1050	1163	1307	1500	1770	2175
10	1150	1275	1436	1650	1950	2400
11	1250	1388	1564	1800	2130	2625
12	1350	1500	1693	1950	2310	2850
13	1450	1613	1821	2100	2490	
14	1550	1725	1950	2250	2670	
16	1750	1950	2207	2550		
18	1950	2175	2464	2850		
20	2150	2400	2721			
22	2350	2625	2979			
24	2550	2850				
26	2750					
28	2950					

\* Base value of lateral pressure equals  $150 + 9000 R/T$

NOTE: Depending on coefficient values, the minimum pressure of 600  $C_w$  may govern. Do not use pressures in excess of wh.

## MASONS SUPPLY COMPANY

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## GENERAL & TECH INFO

### Typical Form Tie Spacing For Wall Forms

LATERAL PRESSURE (LBS) IN PSF		LOADS ON FORM TIES (IN KIPS)															
3,000	3.0	5.3	6.0	12.0	18.0	27.0	36.0	48.0	60.0	75.0	90.0	108.0	126.0	147.0	168.0	192.0	
2,900	2.9	5.2	5.8	11.6	17.4	26.1	34.8	46.4	58.0	72.5	87.0	104.4	121.8	142.1	162.4	185.6	
2,800	2.8	5.0	5.6	11.2	16.8	25.2	33.6	44.8	56.0	70.0	84.0	100.8	117.6	137.2	156.8	179.2	
2,700	2.7	4.8	5.4	10.8	16.2	24.3	32.4	43.2	54.0	67.5	81.0	97.2	113.4	132.3	151.2	172.8	
2,600	2.6	4.6	5.2	10.4	15.6	23.4	31.2	41.6	52.0	65.0	78.0	93.6	109.2	127.4	145.6	166.4	
2,500	2.5	4.5	5.0	10.0	15.0	22.5	30.0	40.0	50.0	62.5	75.0	90.0	105.0	122.5	140.0	160.0	
2,400	2.4	4.3	4.8	9.6	14.4	21.6	28.8	38.4	48.0	60.0	72.0	86.4	100.8	117.6	134.4	153.6	
2,300	2.3	4.1	4.6	9.2	13.8	20.7	27.6	36.8	46.0	57.5	69.0	82.8	96.6	112.7	128.8	147.2	
2,200	2.2	3.9	4.4	8.8	13.2	19.8	26.4	35.2	44.0	55.0	66.0	79.2	92.4	107.8	123.2	140.8	
2,100	2.1	3.7	4.2	8.4	12.6	18.9	25.2	33.6	42.0	52.5	63.0	75.6	88.2	102.9	117.6	134.4	
2,000	2.0	3.6	4.0	8.0	12.0	18.0	24.0	32.0	40.0	50.0	60.0	72.0	84.0	98.0	112.0	128.0	
1,900	1.9	3.4	3.8	7.6	11.4	17.1	22.8	30.4	38.0	47.5	57.0	68.4	79.8	93.1	106.4	121.6	
1,800	1.8	3.2	3.6	7.2	10.8	16.2	21.6	28.8	36.0	45.0	54.0	64.8	75.6	88.2	100.8	115.2	
1,700	1.7	3.0	3.4	6.8	10.2	15.3	20.4	27.2	34.0	42.5	51.0	61.2	71.4	83.3	95.2	108.8	
1,600	1.6	2.8	3.2	6.4	9.6	14.4	19.2	26.6	32.0	40.0	48.0	57.6	67.2	78.4	89.6	102.4	
1,500	1.5	2.7	3.0	6.0	9.0	13.5	18.0	24.0	30.0	37.5	45.0	54.0	63.0	73.5	84.0	96.0	
1,400	1.4	2.5	2.8	5.6	8.4	12.6	16.8	22.0	28.0	35.0	42.0	50.4	58.8	68.6	78.4	89.6	
1,300	1.3	2.3	2.6	5.2	7.8	11.7	15.6	20.8	26.0	32.5	39.0	46.8	54.6	63.7	72.8	83.2	
1,200	1.2	2.1	2.4	4.8	7.2	10.8	14.4	19.2	24.0	30.0	36.0	43.2	50.4	58.8	67.2	76.8	
1,100	1.1	2.0	2.2	4.4	6.6	9.9	13.2	17.6	22.0	27.5	33.0	39.6	46.2	53.9	61.6	70.4	
1,000	1.0	1.8	2.0	4.0	6.0	9.0	12.0	16.0	20.0	25.0	30.0	36.0	42.0	49.0	56.0	64.0	
900	0.9	1.6	1.8	3.6	5.4	8.1	10.8	14.4	18.0	22.5	27.0	32.4	37.8	44.1	40.4	57.6	
800	0.8	1.4	1.6	3.2	4.8	7.2	9.6	12.8	16.0	20.0	24.0	28.8	33.6	39.2	44.8	51.2	
700	0.7	1.2	1.4	2.8	4.2	6.3	8.4	11.2	14.0	17.5	21.0	25.2	29.4	34.3	39.2	44.8	
600	0.6	1.1	1.2	2.4	3.6	5.4	7.2	9.6	12.0	15.0	18.0	21.6	25.2	29.4	33.6	38.4	
Area SF (Tie spacing)	1.0 (1'x1')	1.8 (16"x16")	2.0 (1'x2')	4.0 (2'x2')	6.0 (2'x3')	9.0 (3'x3')	12.0 (3'x4')	16.0 (4'x4')	20.0 (4'x5')	25.0 (5'x5')	30.0 (5'x6')	36.0 (6'x6')	42.0 (6'x7')	49.0 (7'x7')	56.0 (7'x8')	64.0 (8'x8')	
<b>Recommend Form Ties</b>	<b>Form Ties SWL (KIPS)</b>						<b>Recommend Form Ties</b>						<b>Form Ties SWL (KIPS)</b>				
1" Threadbar	63.70						She Bolt with 3/4" Coil Inner						18.00				
7/8" Threadbar Taper Tie	32.50						She Bolt with 1/2" Coil Inner						9.00				
7/8" Threadbar	39.20						She Bolt with 1/2" N/C Inner						6.30				
1-1/4" to 1" Coil Taper Tie	34.00						2 Strut 1/2" Coil Tie Heavy						6.75				
5/8" Thread Bar Taper Tie	18.40						2 Strut 1/2" Coil Tie Standard						4.50				
5/8" Threadbar	19.10						Snaptie Heavy						3.125				
5/8" DCR Bar	18.40						Snaptie Standard						2.25				

Use the appropriate Form Ties for loads below their respective line. A safety factor of 2 has been applied to determine safe working loads (SWL) of ties.

**Note:** The above table is based on the following conditions.

**Concrete** - Made with type 1 cement weighing 150 pcf. contains no admixtures, slump of 4" or less and normal internal vibration to a depth of 4 ft. or less.

**Concrete Temperature** - For practical purposes, 50 °F is used by many form designers as the temperature of fresh concrete during winter, with 70°F being used as the summer temperature. This "rule of thumb" appears to work satisfactory unless the concrete has been heated or cooled to a controlled temperature.

**Form Ties** - Safe working loads are based on a factor of safety of approximately 2 to 1 (ultimate to SWL).



## Chart for Determining Required Quantities for Form Ties

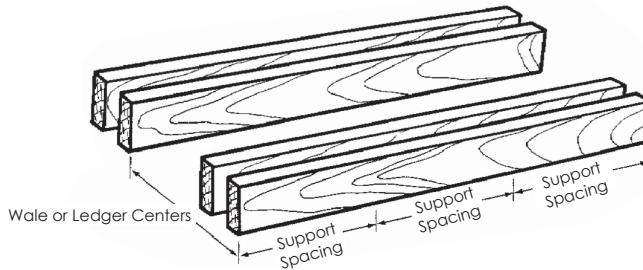
Form Tie Calculator Based on 10,000 sq. ft. of Wall Area or 20,000 sq. ft. of Form Contact Area.	
Form Tie Spacing	Form Ties Required
16" x 16" = 1.77 sq. ft.	5,650
24" x 24" = 4.0 sq. ft.	2,500
24" x 32" = 5.33 sq. ft.	1,877
32" x 32" = 7.11 sq. ft.	1,407
32" x 48" = 10.67 sq. ft.	938
48" x 48" = 16 sq. ft.	625
60" x 60" = 25 sq. ft.	400

## NC Threaded Bolt Capacities

Permanent connections in precast construction are normally made with either ferrule inserts or COREWALL slotted inserts using National Course (NC) threaded bolts. These NC Threaded bolts are normally not supplied by Masons Supply. However, as a convenience to the designer, the following chart listed.

NC THREADED BOLT SELECTION CHART				
Nominal Bolt Diameter and Threads per Inch	ASTMA-307 BOLTS		ASTMA-325 OR A-449 BOLTS	
	Tension	Shear	Tension	Shear
1/4" - 20	625 lbs	350 lbs	1,250 lbs	725 lbs
3/8" - 16	1,500 lbs	900 lbs	3,100 lbs	1,800 lbs
1/2" - 13	2,800 lbs	1,700 lbs	5,600 lbs	3,400 lbs
5/8" - 11	4,500 lbs	2,700 lbs	9,000 lbs	5,400 lbs
3/4" - 10	6,600 lbs	4,000 lbs	13,300 lbs	8,100 lbs
7/8" - 9	9,200 lbs	5,600 lbs	18,400 lbs	11,300 lbs
1" - 8	12,000 lbs	7,400 lbs	24,200 lbs	14,900 lbs
1-1/8" - 7	15,200 lbs	9,400 lbs	26,700 lbs	16,400 lbs
1-1/4" - 7	19,300 lbs	12,000 lbs	33,900 lbs	21,000 lbs
1-1/2" - 6	28,100 lbs	17,500 lbs	49,100 lbs	30,600 lbs

Safe working loads shown provide a factor of safety of approximately 3 to 1 (ultimate to SWL). Shear SWL's assume that the threads are included in the shear plane. 1/4"-20, 3/8"-16 and 1/2"-13 bolts are not recommended for use as structural fasteners. Above information is taken from material provided by Industrial Fastener Institute.



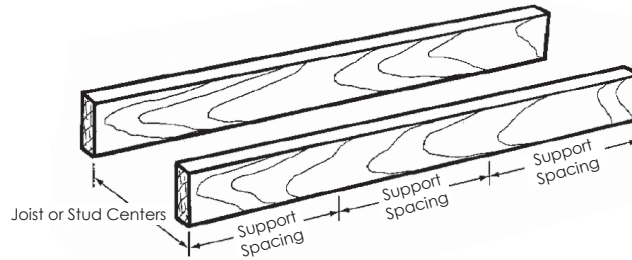
**Safe Spacing of Supports for Double Ledgers or Wales Continuous Over Four or More Supports**  
Based on use of No. 2 Grade Southern Pine or Douglas Fir-Larch

Uniform Load, Pounds per LF (Equals Design Load, Pounds per Sq. Ft. Times Ledger or Wale Centers in ft.)	$F_b = \text{varies psi}$ $E = 1,400,000 \text{ psi}$ $F_v = 225 \text{ psi}$				
	Nominal Size Lumber, b x h (S4S) at 19% Maximum Moisture				
	Double 2 x 4	Double 2 x 6	Double 2 x 8	Double 3 x 6	Double 3 x 8
	$F_b$ psi				
	1625	1438	1313	1438	1313
1,000	35"	51"	64"	66"	83"
1,100	33"	49"	61"	63"	79"
1,200	32"	47"	59"	60"	76"
1,300	30"	45"	56"	58"	73"
1,400	29"	43"	54"	56"	70"
1,500	28"	42"	53"	54"	68"
1,600	27"	40"	51"	52"	66"
1,700	26"	39"	49"	51"	64"
1,800	25"	38"	48"	49"	62"
1,900	24"	37"	47"	48"	60"
2,000	23"	36"	45"	47"	59"
2,200	21"	34"	43"	44"	56"
2,400	20"	32"	42"	43"	54"
2,600	19"	30"	40"	41"	51"
2,800	18"	29"	38"	39"	50"
3,000	18"	28"	36"	38"	48"
3,200	17"	26"	35"	37"	46"
3,400	16"	26"	34"	35"	45"
3,600	16"	25"	33"	34"	44"
3,800	15"	24"	32"	33"	43"
4,000	15"	23"	31"	32"	42"

**Note:**  $F_b$  and  $F_v$  shown above includes a 25% increase because of short term loading conditions. Horizontal shear stress adjustment assumes members have no splits, checks or shakes.

Support spacings are governed by bending, shear or deflection. Maximum deflection  $\neq$  270 of spacing, but not more than 1/8".





**Safe Spacing of Supports for Joists or Studs  
Continuous Over Four or More Supports  
Based on use of No. 2 Grade Spruce-Pine-Fir or Hem-Fir**

Uniform Load, Pounds per LF (Equals Design Load, Pounds per Sq. Ft. Times Joist or Stud Centers in ft.)	$F_b = \text{varies psi}$ $E = 1,300,000 \text{ psi}$ $F_v = 175 \text{ psi}$					
	Nominal Size Lumber, b x h (S4S) at 19% Maximum Moisture					
	2 x 4	2 x 6	2 x 8	3 x 6	4 x 2	4 x 4
	$F_b$ psi					
	1594	1381	1275	1381	1275	1594
100	62"	88"	108"	99"	41"	77"
200	52"	74"	91"	84"	32"	65"
300	44"	65"	82"	76"	26"	59"
400	38"	56"	71"	70"	22"	55"
500	32"	50"	63"	65"	20"	52"
600	27"	43"	57"	59"	18"	48"
700	25"	39"	51"	55"	17"	44"
800	22"	35"	46"	51"	16"	41"
900	21"	32"	43"	47"	15"	39"
1,000	19"	30"	40"	43"	14"	36"
1,100	18"	29"	38"	40"	14"	33"
1,200	17"	27"	36"	38"	13"	31"
1,300	16"	26"	34"	36"	12"	29"
1,400	16"	25"	33"	34"	12"	27"
1,500	15"	24"	31"	32"	11"	26"
1,600	15"	23"	30"	31"	11"	25"
1,700	14"	22"	29"	30"	10"	24"
1,800	14"	22"	29"	29"	10"	23"
1,900	13"	21"	28"	28"	9"	22"
2,000	13"	21"	27"	27"	9"	21"
2,200	13"	20"	26"	26"	9"	20"
2,400	12"	19"	25"	24"	8"	19"
2,600	12"	18"	24"	23"	8"	18"
2,800	11"	18"	24"	22"	7"	17"
3,000	11"	17"	23"	22"	7"	17"

**Note:**  $F_b$  and  $F_v$  shown above includes a 25% increase because of short term loading conditions. Horizontal shear stress adjustment assumes members have no splits, checks or shakes.

Support spacings are governed by bending, shear or deflection. Maximum deflection  $e/270$  of spacing, but not more than 1/8".

## GENERAL & TECH INFO

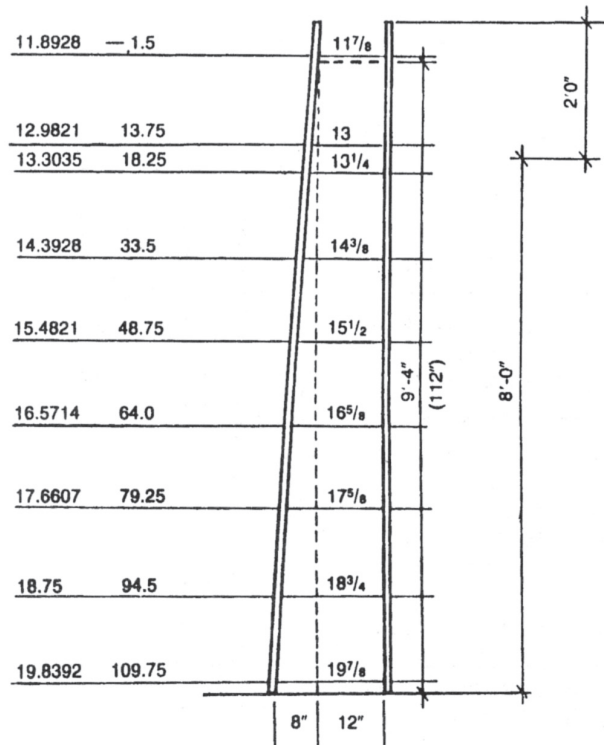
### Formula For Battered Wall Ties

1. Get exact height of wall (in inches)
2. Determine tie spacings to use from bottom to top.
3. Calculate distance from each tie row to top of wall.
4. Establish amount of batter in wall (thickness at bottom minus top thickness).
5. Divide amount of batter in into height of wall to get Factor.
6. Divide distance from tie row to top of wall by Factor.
7. Add constant figure (thickness of wall at top)
8. Repeat steps 6 and 7 for each tie row.
9. Change fraction into nearest 1/8".

Decimal Equivalents		
1/16	=	.0625
1/8	=	.125
3/16	=	.1875
1/4	=	.25
5/16	=	.3125
3/8	=	.375
7/16	=	.4375
1/2	=	.5
9/16	=	.5625
5/8	=	.625
11/16	=	.6875
3/4	=	.75
13/16	=	.8125
7/8	=	.875
15/16	=	.9375

$$\frac{\text{How}}{\text{Batter}} = \text{Factor}$$

$$\frac{112}{8} = 14$$

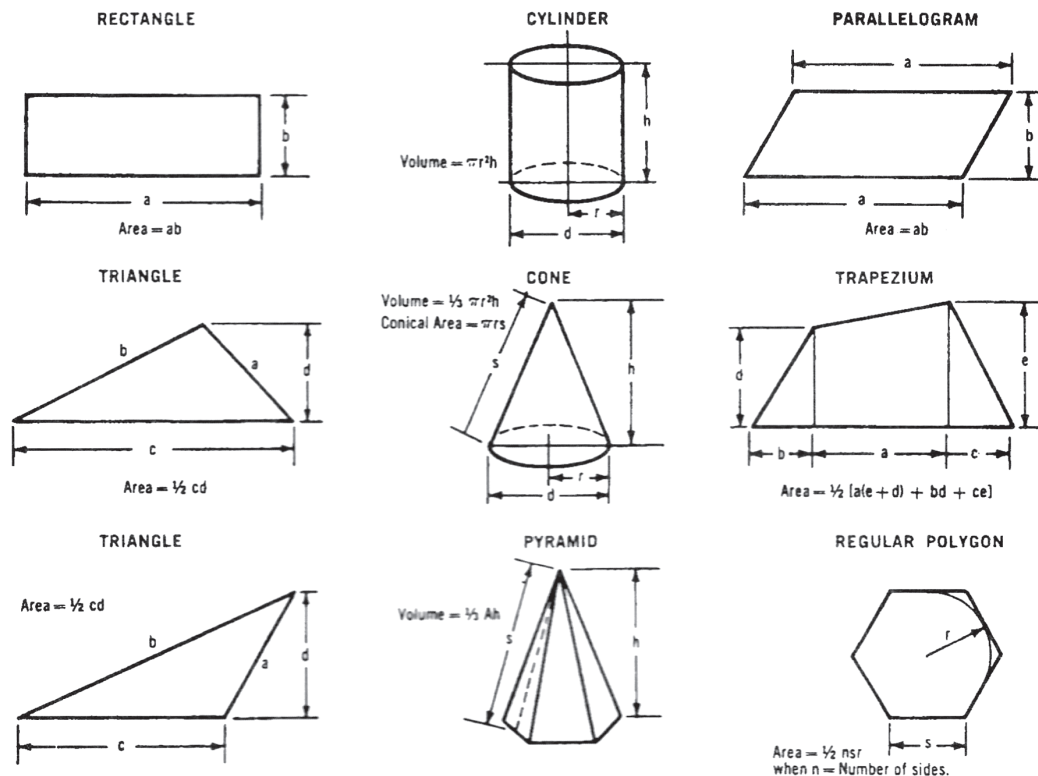


## Engineering Data

### FORMULAS

Area of a square = length x breadth or height.  
 Area of a rectangle = length x breadth or height.  
 Area of a triangle = base x 1/2 altitude.  
 Area of parallelogram = base x altitude.  
 Area of trapezoid = altitude x 1/2 the sum of parallel sides.  
 Area of trapezium = divide into two triangles, total their areas.  
 Circumference of circle = diameter x 3.1416.  
 Circumference of circle = radius x 6.283185.  
 Diameter of circle = circumference x .3183.  
 Diameter of circle = square root of area x 1.12838.  
 Radius of circle = circumference x .0159155.  
 Area of a circle = half diameter x half circumference.  
 Area of a circle = square of diameter x .7854.  
 Area of a circle = square of circumference x .07958.  
 Area of a sector of circle = length of arc x 1/2 radius.  
 Area of a segment of circle = area of sector of equal radius-area of a triangle, when the segment is less, and plus area of triangle, when segment is greater than the semi-circle.  
 Area of circular ring = sum of the diameter of the two circles x difference of the diameter of the two circles and that product x .7854.  
 Side of square that shall equal area of circle = circumference x .2821.  
 Diameter of circle that shall contain area of a given square = side of square x 1.1284.  
 Side of inscribed equilateral triangle = diameter x .86.  
 Side of inscribed square = diameter x .7071.

Side of inscribed square = circumference x .225.  
 Area of ellipse = product of the two diameters x .7854.  
 Area of a parabola = base x 2/3 of a altitude.  
 Area of a regular polygon = sum of its sides x perpendicular from its center to one of its sides divided by 2.  
 Surface of sphere = diameter x circumference.  
 Solidity of sphere = surface x 1/6 diameter.  
 Solidity of sphere = cube of diameter x .5236.  
 Solidity of sphere = cube of radius x 4.1888.  
 Solidity of sphere = cube of circumference x .016887.  
 Diameter of sphere = cube root of solidity x 1.2407.  
 Diameter of sphere = square root of surface x .56419.  
 Circumference of sphere = square root of surface x 1.772454.  
 Circumference of sphere = cube root of solidity x 3.8978.  
 Contents of segment of sphere = (height squared plus three times the square of radius of base) x (height x .5236).  
 Side of inscribed cube of sphere = radius x 1.1547.  
 Side of inscribed cube of sphere = square root of diameter.  
 Contents of pyramid or cone = area of base x 1/3 altitude.  
 Contents of frustum or pyramid or cone = multiply areas of two ends together and extract square root. Add to this root the two areas and x 1/3 altitude.  
 Contents of a wedge = area of base x 1/3 altitude.



## GENERAL & TECH INFO

### MEASURES OF PRESSURES

1 pound per square inch = 144 pounds per square foot = 0.068 Atmosphere = 2.042 inches of mercury (at 62° F) = 27.7 inches of water (at 62° F) = 2.31 feet of water (at 62° F)

1 atmosphere = 30 inches of mercury (at 62° F) = 14.7 pounds per square inch = 2116.3 pounds per square foot = 33.95 feet of water (at 62° F).

1 foot of water (at 62° F) = 62.355 pounds per square foot = 0.433 pound per square inch.

1 inch of mercury (at 62° F) = 1.132 foot of water = 13.58 inches of water = 0.491 pound per square inch.

### SQUARE MEASURE

1 square kilometer = 0.3861 square mile = 247.1 acres  
 1 hectare = 2.471 acre = 107.640 square feet  
 1 square meter = 10.764 square feet = 1.196 square yard  
 1 square centimeter = 0.155 square inch  
 1 square millimeter = 0.00155 square inch

1 square mile = 2.5899 square kilometers  
 1 acre = 0.4047 hectare  
 1 square yard = 0.836 square meter  
 1 square foot = 0.0929 square meter = 929 square centimeters  
 1 square inch = 6.425 square centimeters = 645.2 square millimeters  
 1 acre = 43,560 sf

### WEIGHT MEASURE

1 GRAM = 0.03527 OUNCE  
 1 OUNCE = 28.35 GRAMS  
 1 KILOGRAM = 2.2046 POUNDS  
 1 POUND = 0.4536 KILOGRAM  
 1 METRIC TON = 0.98421 ENGLISH TON  
 1 ENGLISH TON = 1.016 METRIC TON  
**1 KIP = 4.448 KILONEWTONS**

### LINEAR MEASURE

1 kilometer = 0.6214 mile  
 1 meter = 3.2808 feet  
 1 meter = 1.0936 yards  
 1 meter = 39.37 inches  
 1 centimeter = 0.3937 inches  
 1 millimeter = 0.03937 inches  
 1 mile = 1.609 kilometer  
 1 yard = 0.9144 meter  
 1 foot = 0.3048 meter  
 1 foot = 304.8 millimeters  
 1 inch = 2.54 centimeters  
 1 inch = 25.4 millimeters

### CUBIC MEASURE

1 cubic meter = 35.314 cubic feet = 1.308 cubic yards  
 1 cubic meter = 264.2 U.S. gallons  
 1 cubic centimeter = 0.061 cubic inch  
 1 liter(cubic decimeter) = 0.0353 cubic foot = 61.023 cubic inch  
 1 liter = 0.2642 U.S. gallon = 1.0567 U.S. quart  
 1 cubic yard = 0.7645 cubic meter  
 1 cubic foot = 0.02832 cubic meter = 28.317 liters  
 1 cubic inch = 16.38716 cubic centimeters  
 1 U.S. gallon = 3.785 liters  
 1 U.S. quart = 0.946 liter  
 1 U.S. gallon = 0.91598 imperial gallon

### INCHES TO MILLIMETERS

FRAC.	DECIMAL	MM
1/16	= .0625	= 1.5875
1/8	= .125	= 3.1750
3/16	= .1875	= 4.7625
1/4	= .25	= 6.3500
5/16	= .3125	= 7.9375
3/8	= .375	= 9.5250
7/16	= .4375	= 11.1125
1/2	= .5	= 12.7000
9/16	= .5625	= 14.1288
5/8	= .625	= 15.8750
11/16	= .6875	= 17.4625
3/4	= .75	= 19.0500
13/16	= .8125	= 20.6375
7/8	= .875	= 22.2250
15/16	= .9375	= 23.8125

INCHES	MM	INCHES	MM	INCHES	MM
1	= 25.4	17	= 431.8	33	= 838.2
2	= 50.8	18	= 457.2	34	= 863.6
3	= 76.2	19	= 482.6	35	= 889.0
4	= 101.6	20	= 508.0	36	= 914.4
5	= 127.0	21	= 533.4	37	= 939.8
6	= 152.4	22	= 558.8	38	= 965.2
7	= 177.8	23	= 584.2	39	= 990.6
8	= 203.2	24	= 609.6	40	= 1016.0
9	= 228.6	25	= 635.0	41	= 1041.4
10	= 254.0	26	= 660.4	42	= 1066.8
11	= 279.4	27	= 685.8	43	= 1092.2
12	= 304.8	28	= 711.2	44	= 1117.6
13	= 330.2	29	= 736.6	45	= 1143.0
14	= 355.6	30	= 762.0	46	= 1168.4
15	= 381.0	31	= 787.4	47	= 1193.8
16	= 406.4	32	= 812.8	48	= 1219.2

### FEET TO METERS

FEET	METERS	FEET	METERS
1	= 0.3048	16	= 4.8768
2	= 0.6096	17	= 5.1816
3	= 0.9144	18	= 5.4864
4	= 1.2192	19	= 5.7912
5	= 1.5240	20	= 6.0960
6	= 1.8288	30	= 9.1440
7	= 2.1336	40	= 12.1920
8	= 2.4384	50	= 15.2400
9	= 2.7432	60	= 18.2880
10	= 3.0480	70	= 21.3360
11	= 3.3528	80	= 24.3840
12	= 3.6576	90	= 27.4320
13	= 3.9624	100	= 30.4800
14	= 4.2672	150	= 45.7200
15	= 4.5720	200	= 60.9600

### INCHES TO MILLIMETERS

MM	INCHES	MM	INCHES	MM	INCHES
1	= .0394	50	= 1.9685	375	= 14.7638
2	= .0787	75	= 2.9528	400	= 15.7480
3	= .1181	100	= 3.9370	425	= 16.7323
4	= .1575	125	= 4.9212	450	= 17.7165
5	= .1968	150	= 5.9055	475	= 18.7008
6	= .2362	175	= 6.8898	500	= 19.6850
7	= .2756	200	= 7.8740	525	= 20.6693
8	= .3150	225	= 8.8583	550	= 21.6535
9	= .3543	250	= 9.8425	575	= 22.6378
10	= .3937	275	= 10.8268	600	= 23.6220
15	= .5906	300	= 11.8110	625	= 24.6063
20	= .7874	325	= 12.7953	650	= 25.5905
25	= .9842	350	= 13.7795	675	= 26.5748
				700	= 27.5590
				725	= 28.5433
				750	= 29.5276
				775	= 30.5118
				800	= 31.4960
				825	= 32.4803
				850	= 33.4646
				875	= 34.4488
				900	= 35.4331
				925	= 36.4173
				950	= 37.4016
				975	= 38.3858
				1000	= 39.3701

### METERS TO FEET

METERS	FEET	METERS	FEET
1	= 3.2808	30	= 98.4252
2	= 6.5617	35	= 114.8294
3	= 9.8425	40	= 131.2336
4	= 13.1234	45	= 147.6378
5	= 16.4042	50	= 164.0420
6	= 19.6850	55	= 180.4462
7	= 22.9659	60	= 196.8504
8	= 26.2467	65	= 213.2546
9	= 29.5276	70	= 229.6588
10	= 32.8084	75	= 246.0630
15	= 49.2126	80	= 262.4672
20	= 65.6168	90	= 295.2756
25	= 82.0210	100	= 328.0840

**Volume Conversions (Approximate)**

US Measure		Multiply by	=	SI (Metric)		Multiply by	=	US Customary
in <sup>3</sup>	x	16.0	=	ml	x	0.06	=	in <sup>3</sup>
fl. oz.	x	29.6	=	ml	x	0.03	=	fl.oz.
cups	x	0.24	=	liters	x	0.036	=	cups
pints	x	0.47	=	liters	x	2.1	=	pints
quarts	x	0.95	=	liters	x	1.06	=	quarts
gallons	x	3.79	=	liters	x	0.26		gallons
ft	x	0.028	=	m	x	35.3		ft
yds <sup>3</sup>	x	0.76	=	ft	x	1.31		yds <sup>3</sup>
ft <sup>3</sup>	x	28.3	=	liters				
yds <sup>3</sup>	x	764.5	=	liters				

**Weight Conversions (Approximate)**

US Measure		Multiply by	=	SI (Metric)		Multiply by	=	US Customary
oz.	x	28.3	=	grams	x	0.035	=	oz.
lbs.	x	0.45	=	kg	x	2.2	=	lbs.
short tons	x	0.91	=	metric tons	x	1.1	=	short tons

### Comparison of Typical Concrete Quantities

1 MPa	=	145 psi	1 ft.	=	0.3 m
1 m <sup>3</sup>	=	1.3 yd <sup>3</sup>	1 in.	=	2.5 cm
1 liter/m <sup>3</sup>	=	0.2 gal./yd <sup>3</sup>	1 f. oz./100 lbs. cement	=	65 ml/100 kg cement
1 kg	=	2.2 lbs.	1 lb./yd <sup>3</sup>	=	0.6 kg/m <sup>3</sup>
1 kg/m <sup>3</sup>	=	1.686 lbs/yd <sup>3</sup>	1 yd <sup>3</sup>	=	0.7646 m <sup>3</sup>
Unit weight (water)	=	1 kg/L	1 fl. oz.	=	30 ml
1 metric ton (1000 kg)	=	2205 lbs.	1 gal.	=	3.8 liter

### Comparison of Typical (Approximate) Concrete Values

Typical Value	US Customary	Metric
Weight: bag of cement	94 lbs.	± 43 kg
Typical Design Strength	3000 psi	21 MPa
High Strength Concrete	6000 psi	41 MPa
Cement Content		
5 bag mix	470 lbs/yd <sup>3</sup>	279 kg/m <sup>3</sup>
6 bag mix	564 lbs/yd <sup>3</sup>	335 kg/m <sup>3</sup>
7 bag mix	658 lbs/yd <sup>3</sup>	390 kg/m <sup>3</sup>
Concrete Density	145 lb/ft <sup>3</sup>	2323 kg/m <sup>3</sup>
Slump	3 - 4 in.	7.5 - 10 cm
Slab thickness	4 in.	10 cm



M A S C O . N E T

# CHARTS

## GENERAL & TECH INFO

### AMERICAN STEEL & WIRE GAUGE CHART

GAUGE	DECIMAL	FT./LB.	GAUGE	DECIMAL	FT./LB.
1	.283	4.681	21	.0317	373.1
2	.2625	5.441	22	.0286	458.4
3	.2437	6.313	23	.0258	563.3
4	.2253	7.386	24	.0230	708.7
5	.207	8.750	25	.0204	900.9
6	.192	10.17	26	.0181	1144
7	.177	11.97	27	.0173	1253
8	.162	14.29	28	.0162	1429
9	.1483	17.05	29	.0150	1666
10	.135	20.57	30	.0140	1913
11	.1205	25.82	31	.0132	2152
12	.1055	33.69	32	.0128	2288
13	.0915	44.78	33	.0118	2693
14	.080	58.58	34	.0104	3466
15	.072	72.32	35	.0095	4154
16	.0625	95.98	36	.0090	4629
17	.054	128.6	37	.0085	5189
18	.0475	166.2	38	.0080	5858
19	.0410	223.0			
20	.0348	309.6			

### METRIC EQUIVALENTS

FRACTION	MM	FRACTION	MM
1/64	0.40	33/64	13.10
1/32	0.79	17/32	13.49
3/64	1.19	35/64	13.89
1/16	1.59	9/16	14.29
5/64	1.98	37/64	14.68
3/32	2.38	19/32	15.08
7/64	2.78	39/64	15.48
1/8	3.18	5/8	15.88
9/64	3.57	41/64	16.27
5/32	3.97	21/32	16.67
11/64	4.37	43/64	17.07
3/16	4.76	11/16	17.46
13/64	5.16	45/64	17.86
7/32	5.56	23/32	18.26
15/64	5.95	47/64	18.65
1/4	6.35	3/4	19.05
17/64	6.75	49/64	19.45
9/32	7.14	25/32	19.84
19/64	7.54	51/64	20.24
5/16	7.94	13/16	20.64
21/64	8.33	53/64	21.03
11/32	8.73	27/32	21.43
23/64	9.13	55/64	21.83
3/8	9.53	7/8	22.23
25/64	9.92	57/64	22.62
13/32	10.32	29/32	23.02
27/64	10.72	59/64	23.42
7/16	11.11	15/16	23.81
29/64	11.51	61/64	24.21
15/32	11.91	31/32	24.61
31/64	12.30	63/64	25.00
1/2	12.70	1	25.40

**MASONS SUPPLY COMPANY**

**301**

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## SHEET STEEL GAUGE CHART

GAUGE	US STANDARD GAUGE	SHEET STEEL	GALVANIZED STEEL	STAINLESS STEEL
	(INCHES)	GAUGE DECIMAL (INCHES)	GAUGE DECIMAL (INCHES)	GAUGE DECIMAL (INCHES)
30	0.0125	0.0120	0.016	0.0125
29	0.0141	0.0135	0.017	0.0141
28	0.0156	0.0149	0.019	0.0156
27	0.0172	0.0164	0.020	0.0172
26	0.0188	0.0179	0.022	0.0187
25	0.0219	0.0209	0.025	0.0219
24	0.0250	0.0239	0.028	0.0250
23	0.0281	0.0269	0.031	0.0281
22	0.0313	0.0299	0.034	0.0312
21	0.0344	0.0329	0.037	0.0344
20	0.0375	0.0359	0.040	0.0375
19	0.0438	0.0418	0.046	0.0437
18	0.0500	0.0478	0.052	0.0500
17	0.0563	0.0538	0.058	0.0562
16	0.0625	0.0598	0.064	0.0625
15	0.0703	0.0673	0.071	0.0703
14	0.0781	0.0747	0.079	0.0781
13	0.0938	0.0897	0.093	0.0937
12	0.1094	0.1046	0.108	0.1094
11	0.1250	0.1196	0.123	0.1250
10	0.1406	0.1345	0.138	0.1406
9	0.1563	0.1495	0.153	0.1562
8	0.1719	0.1644	0.168	0.1719
7	0.1875	0.1793		0.1875
6	0.2031	0.1943		0.2031
5	0.2188	0.2092		0.2187
4	0.2344	0.2242		0.2344
3	0.2500	0.2391		0.2500
2	0.2656			0.2656
1	0.2813			0.2812





M A S C O . N E T

# GLOSSARY OF TERMINOLOGY

## GENERAL & TECH INFO

### GLOSSARY OF TERMINOLOGY

<b>ALIGNER</b>	Lumber or metal members used to align vertical formwork. (plumbing strut or alignment device)	<b>CAPITAL</b>	The tapered upper section of a column under the drop head. Conical shaped with round columns, pyramidal shaped with square columns.
<b>ANCHOR BRACKET</b>	A projecting member designed in combination with a specified anchor to attach to a previous concrete pour so as to support the dead weight of the subsequent formwork and live loads specified.	<b>CAULK</b>	To use a putty-type material to seal form joints from grout leakage.
<b>ANCHORS</b>	Devices used to secure formwork, braces or accessories to previously placed concrete, either embedded during placement or set in holes drilled in hardened concrete. There are two basic parts: the embedded anchor device and the external fastener which is removed after use.	<b>CHAMFER</b>	A beveled external corner. It is usually formed in the concrete work by use of a chamfer strip placed in the form at the outside corner to provide a rounded or beveled corner.
<b>BATTER WALL</b>	Wall with one or both faces slanting from the vertical, usually creating a wall thicker at its base than at its top.	<b>CHASE</b>	An elongated void or opening formed into a concrete surface.
<b>BEAM FORM</b>	The entire formwork to form the bottom and both sides of a beam.	<b>CLEANOUT</b>	An opening in the forms for removal of refuse, closed before the concrete is placed.
<b>BEAM POCKET</b>	Opening left in a vertical member in which a beam is to rest; also an opening in a column or girder form where forms for intersecting beams will be framed.	<b>CLEAT</b>	Small board used to connect two or more pieces of formwork lumber together.
<b>BEAM SIDE</b>	Vertical side panels or parts of a beam form.	<b>CLIMBING FORM</b>	A form which is raised vertically for succeeding lifts of concrete in a given structure, usually supported on anchor bolts or rods embedded in the top of the previous lift. The form is moved only after an entire lift is placed and (partially) hardened; this should not be confused with a slip form which moves during placement of the concrete.
<b>BOX-OUT</b>	An opening or pocket formed in concrete positioning a box-like form within the wall forms.	<b>COIL BOLT</b>	The hex-head outer unit of a three-piece wall tie with external contoured threads to engage the helical threads of a coil tie inner unit.
<b>BRACE</b>	Any external structural member used to resist horizontal forces exerted on the forms such as wind loads.	<b>COIL TIE</b>	The non-reusable inner unit or center part of a three-piece wall form tie. Ties are made with two or more straight wire struts with helix coils welded at each end forming female threads.
<b>BRACKET</b>	Projecting member from a structure to support weight beyond its face.	<b>COLUMN CLAMP</b>	Any of the various types of stiffening or fastening units to hold a column form sides together
<b>BREAK-BACK</b>	The distance from the face of concrete to the end of the remaining imbedded portion of a tie (snapped off wire-tie, or the face of concrete clearance of a three-piece tie inner unit) (also referred to as Cut-Back).	<b>CONSTRUCTION JOINT</b>	The surface where two adjacent placements of concrete meet, frequently with a keyway or reinforcement across the joint.
<b>BRICK LEDGE (BRICK SEAT)</b>	Ledge on wall or footing to support a course of masonry.	<b>CONTROL JOINT</b>	Formed, saw cut, or tooled groove in a concrete surface to regulate the location of shrinkage cracks.
<b>BUCK</b>	Framing to void an opening in a wall, such as a door buck, which forms the opening for a door.	<b>CORBEL</b>	The projection from the face of a concrete wall which is used to support a beam or elevated slab.
<b>BUG HOLE</b>	Void on the surface of formed concrete caused by an adhering air or water bubble not displaced during consolidation.	<b>CROSSMEMBER</b>	Intermediate stiffening member of a form panel connected at both ends of the perimeter frame.
<b>BULKHEAD</b>	A partition in the forms blocking fresh concrete from a section of the forms or closing the end of a form, such as at the construction joint.	<b>CRUSH PLATE</b>	An expendable strip of wood used as a pad to protect either the form or concrete surface from damage during prying action to strip forms.
<b>CAMBER</b>	An inward curvature of a wall or an upward curvature of an elevated slab or beam form to improve appearance or to compensate for anticipated load deflection.	<b>DADO</b>	Rectangular groove in the perimeter frame of a form which allows for the passage of ties without leaving a gap between forms.
<b>CANTILEVER FORM</b>	A special forming technique in which the lateral concrete pressure is resisted by a cantilevered vertical member.	<b>DEAD LOAD</b>	The load of forms, stringers, joists, reinforcing rods, and the actual concrete to be placed.
		<b>DEADMAN</b>	A steel beam, block of concrete or other heavy item used to provide anchorage for a guy line or form brace.

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# GLOSSARY OF TERMINOLOGY



## GENERAL & TECH INFO

<b>DESIGN PRESSURE</b>	The predetermined load per square foot at form face predicated by pressure, temperature, rate of concrete placement and height of concrete above point considered.	<b>GIRDER FORM</b>	Self-supporting form system where the load is carried in bending by the side panels.
<b>DIAPHRAGM</b>	Cross walls positioned between long span, deep beams to provide lateral stability to the beams.	<b>GRADE STRIP</b>	A temporary wood strip secured to form face prior to concrete placement to denote finished grade elevation.
<b>DOUGHNUT</b>	A large washer of any shape to increase bearing area of bolts and form ties, also to act as a shim.	<b>GUYS (GUY WIRE)</b>	Cable anchor from ground to top of wall form to brace in one direction through tension.
<b>DRAFT</b>	The slight taper difference between opposite sides of a form so that it will readily strip out the concrete.	<b>HAIRPIN</b>	The wedge used to tighten some types of form ties, also a hairpinshaped anchor set in place while concrete is plastic.
<b>DUTCHMAN</b>	Usually a solid lumber thickness utilized to fill in under one side of (cribbing) equal height wall forms such as on a side slope footing, also to compensate for lineal dimension variation between opposing forms due to a slight angle corner or curved wall.	<b>HANDSET FORM</b>	A modular form erected and stripped by hand rather than a crane.
<b>ELEVATION</b>	A drawing showing a specific area projection of a structure on a vertical plane.	<b>HAUNCH</b>	A projection built on a wall or column used to support a load outside the wall or column.
<b>EMBEDMENT</b>	An insert, anchor bolt or other device attached at the form face so as to be encapsulated by the concrete for future attachments or structural performance.	<b>HE-BOLT</b>	The outer unit of a three-piece wall tie, of which the external threads of the outer units engage the internal threads of an inner unit such as a coil tie.
<b>END-BARS</b>	Perimeter frame members similar to end-rails but are usually perpendicular to crossmembers.	<b>HEAD (LIQUID HEAD)</b>	The vertical height measurement of liquid concrete in wall form.
<b>END-RAILS</b>	Perimeter frame members of prefab form panel which are perpendicular to side-rails.	<b>HONEYCOMB</b>	Undesirable voids left in the formed concrete surface revealing unbonded coarse aggregates.
<b>EXPANSION JOINT</b>	A thickness of flexible material between consecutive placements of concrete to absorb linear expansion of concrete.	<b>INITIAL SET</b>	An early state of the concrete curing process at transformation from a liquid to a solid.
<b>FACTOR OF SAFETY</b>	Ratio of ultimate load to allowable load.	<b>INNER UNIT (INNER TIE)</b>	The non-reusable center part of a three-piece she-bolt tie.
<b>FALSEWORK (Shoring)</b>	The temporary structure erected to support work in the process of construction, such as shoring or vertical post to support an elevated wall or spandrel beam.	<b>INSERT</b>	A female threaded connector embedded in a concrete to which a male anchor device can be connected.
<b>FILLER</b>	A non-standard width form panel used to take up odd dimensions.	<b>INVERT</b>	The lowest visible surface; the floor of a drain, sewer, tunnel, culvert, or channel.
<b>FILLER STRIP</b>	Piece of wood, metal or other material placed between large ganged slab form areas and vertical surfaces to permit easy stripping.	<b>JUMBO</b>	Traveling support for forms, commonly used in gang-formed tunnel work.
<b>FILLET</b>	A beveled or rounded inside corner.	<b>KERF</b>	To make a series of cuts or notches in order to curve a wood member.
<b>FORM COATING</b>	Anti-bonding material applied to form face surface to induce easy stripping.	<b>KEYWAY</b>	A recess or groove created in an earlier pour of concrete which is filled with concrete of the next pour giving shear strength to the joint.
<b>FORMWORK</b>	The total system of support for freshly placed concrete including the mold or sheathing which contacts the concrete as well as all supporting members, hardware, and necessary bracing.	<b>KICKER</b>	A piece of wood (block or board) or metal attached to a formwork member to take the thrust of another member.
<b>FULL LIQUID HEAD</b>	Concrete pressure where the entire pour is still in a liquid state.	<b>KNEE BRACE</b>	A brace between horizontal and vertical members in a building frame or formwork to make the structure more stable.
<b>GANG FORM</b>	A large area of wall form with independent structural integrity. May also be a grouping of panels to be used as a unit for convenience in erecting, stripping and reusing.	<b>LEDGER</b>	A horizontal structural member secured to a concrete wall and used to support forms.
		<b>LIFT BEAM</b>	See Spreader Beam.
		<b>LIFT BRACKET</b>	Special brackets attached to top of ganged forms to facilitate fast, safe attachment of crane sling lines.
		<b>LIFTER</b>	A lifting device used to vertically elevate ganged forms to subsequent vertical reuses.



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# GLOSSARY OF TERMINOLOGY

## GENERAL & TECH INFO

<b>LINER</b>	Any sheet or layer of material attached directly to the inside face of the forms to improve surface quality, alter the texture, or to imprint specific architectural patterns on the finished concrete.	<b>PILASTER</b>	Column built with a wall, usually projecting beyond the wall face.
<b>LIVE LOAD</b>	The total weight of workers, equipment, buggies, vibrators and other loads that will exist and move about due to the method of placement, leveling and screeding of the concrete pour.	<b>PLATE</b>	A flat horizontal member such as a 2 x 4 placed on the footing for leveling and upon which the forms are set, sometimes referred to as a "shoe."
<b>LOAD EQUALIZERS</b>	A system of equalizing sheaves designed to distribute the load equally to each form lift point when multiple-leg slings are used to lift a form.	<b>PLUMB</b>	Vertical or the act of making vertical.
<b>MODULAR FORMWORK</b>	Prefabricated all-metal or metal-supported-plywood systems in standard sizes with an integral provision for tie and connecting hardware.	<b>POST-TENSIONED CONCRETE</b>	Reinforced concrete in which, after the concrete has set and sufficiently hardened, the desirable distribution of stress is achieved by post tensioning steel tendons, bars or wires.
<b>MONOLITHIC</b>	Concrete placement technique in which the slab, the beams, the columns, and the walls or any combination of the above elements are poured at the same time.	<b>PRECAST CONCRETE</b>	Concrete units (such as beams, joists, deck panels, or wall panels) cast elsewhere than its final position and then set in place.
<b>MUDSILL</b>	A plank, or concrete slab, on the ground, to provide a level surface and support to concrete forms.	<b>PRESTRESSED CONCRETE</b>	A system for utilizing the compressive strength of concrete by producing required compressive stresses with highly stressed tension rods, tendons or wires.
<b>MULTI-LIFT</b>	The vertical stacking of forms in tiers for any height wall. A wall requiring more than one row of forms is generally referred to as multilift.	<b>REBAR</b>	Abbreviation for "Reinforcing Bar."
<b>NAILER</b>	Strip of wood or other material attached to or set in concrete or attached to steel to facilitate making nailed connections.	<b>RETAINING WALL</b>	A wall, which is designed to resist horizontal loads such as those imposed by soil or water.
<b>OFFSET</b>	A displacement or abrupt change in line or the distance between two parallel lines; such as a change in wall thickness which will create a vertical offset.	<b>RIBS</b>	Parallel structural members backing sheathing in a prefabricated form. Same as crossmembers.
<b>ONE-SIDED FORMWORK</b>	A wall formwork system having only one forming side, requiring special provisions for tying and support. Commonly required when placing concrete against sheet pile, slurry walls, soldier beam embankments, and existing concrete or concrete block walls.	<b>RIGGING</b>	Suspension components, such as chains, shackles, connecting links and eye hooks used to suspend formwork gangs or components from a crane or similar lifting device.
<b>PANEL</b>	A section of form sheathing constructed from boards, plywood, metalsheets, etc., that can be erected and stripped as a unit. Panels can be built on jobsite or prefabricated factory built.	<b>RUSTIFICATION</b>	A groove in the concrete formed by securing a strip to the face of the formwork. Also referred to as a "feature strip."
<b>PAN-JOIST</b>	A light slab with ribs normally 24 to 36 inches on center acting as beams. The joists or ribs run at right angles to primary beams or girders.	<b>SAFETY FACTOR</b>	See Factor of Safety.
<b>PARAPET</b>	Part of a wall that extends above the roof level.	<b>SCAB</b>	A small piece of wood fastened to two formwork members to secure a butt joint.
<b>PENCIL ROD</b>	Metal rod (wire), usually about 1/4" diameter, used in conjunction with special bearing clamps to perform as a wall form tie.	<b>SCAFFOLD BRACKET</b>	A premanufactured cantilevered bracket designed to attach to formwork gangs and support scaffold planks that are used for a work platform when placing and vibrating concrete.
<b>PENETRATION</b>	Any concrete embedment device that must pass through the form face (such as anchor bolts, rebar, or dowel rods).	<b>SCAFFOLDING</b>	An elevated platform supporting workers, tools, and materials, either attached to wall forms or free standing.
<b>PERMANENT FORM</b>	Any form that remains in place after the concrete has developed its design strength. The form may or may not become an integral part of the structure.	<b>SCREED</b>	The tool used to control the top surface elevation of freshly placed concrete.
		<b>SHEATHING</b>	The material forming the contact face of forms, also called lagging or sheeting.
		<b>SHE-BOLT</b>	The outer unit of a three-piece wall tie that contains female threads to engage the external threaded inner unit (rod). SHIM Thin pieces of material used to bring abutting members to an even, level bearing.
		<b>SIDERAIL</b>	Perimeter frame member of prefab form panel which is perpendicular to crossmembers.
		<b>SILL</b>	Horizontal bearing member as a plate. See Plate.
		<b>SKIN PLATE</b>	The steel form face of an all-steel form brace.

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<b>SLAB</b>	The thinner portion of the floor, usually of uniform depth, that is between the drop heads or beams.	<b>TELLTALE</b>	Any device designed to indicate movement of formwork.
<b>SLING</b>	A length of cable with a loop at each end, usually the cable line from the crane hook to ganged form.	<b>TEMPLATE</b>	Thin plate or board frame used as a guide in positioning or spacing of form parts, reinforcements, anchors, etc.
<b>SLIP FORM</b>	A form which moves, usually continuously, during placing of the concrete. Movement may be either horizontal or vertical. Slip forming is like an extrusion process with the forms acting as moving dies to shape the concrete.	<b>TIE</b>	A concrete form tie is a tensile unit adapted to holding concrete forms secure against the lateral pressure of unhardened concrete, with or without provision for spacing the forms a definite distance apart, and with or without provision for removal of metal to a specified distance back from the finished concrete surface.
<b>SNAP TIE</b>	A wire-type tie with or without spreader washer or cones. After forms are released, the protruding tie ends are snapped off by twisting at a predetermined break-off crimp usually about 1" in the concrete.	<b>TIE DADO</b>	Half-slot thickness dado's at the siderails of adjoining forms provide the tie location slot common to many prefabricated form systems.
<b>SOLDIERS</b>	Vertical wales used for strengthening or alignment.	<b>TOENAIL</b>	To drive a nail at an angle.
<b>SPANDREL BEAM</b>	A beam in the perimeter of a building, spanning between columns and usually supporting floors or roof. An up-turned spandrel depth dimension extends above the floor, and a down-turned spandrel extends below the floor.	<b>TRAVELER</b>	Traveling support and bracing for ganged tunnel and culvert formwork.
<b>SPREADER</b>	A brace, usually of wood, inserted in forms to keep the form faces the proper distance apart until the concrete is placed.	<b>WALER</b>	Load gathering members used to hold studs or panel forms in position.
<b>SPREADER BEAM</b>	A beam utilized to distribute the weight of a ganged form through two or more equalized vertical pick-up points.	<b>WALKWAY SYSTEM</b>	All components including, but not limited to, scaffold brackets, scaffold planks, guard rails, toeboards and guard rail posts erected to provide a work platform for placing and vibrating concrete and to prevent workers from falling.
<b>SPUD</b>	Adjustable bolt-like strut extending between the skin of tunnel forms and bored rock tunnel walls to provide position support of the formwork.	<b>WATERSTOP</b>	Rubber, plastic, or other material inserted in a construction joint to prevent the seepage of water through the joint.
<b>STAKE</b>	A pointed wood or metal object driven in ground to attach brace or to support form sides in footing forming.	<b>WEDGE</b>	A piece of wood or metal tapered to a thin edge, used to adjust elevation, tighten formwork, etc.
<b>STIFFENER</b>	A structural member for the support of the plywood face or skin plate on panel forms sometimes called ribs.	<b>WEDGE BOLT</b>	A two-way action designed wedge which contains a slot to facilitate its function as a connecting bolt also.
<b>STRIP</b>	To remove formwork from concrete.		
<b>STRIPPING BAR</b>	A solid bar positioned in-between form panels or adjoining ganged forms which is the first unit stripped thereby providing relief to readily strip the large form panels; also referred to as "wrecking strips."		
<b>STRONGBACK</b>	A load gathering member attached to the back of the formwork on the outside of the walers for added strength, to hold proper alignment (sometimes referred to as "stiffbacks").		
<b>STUD</b>	Supporting member to which sheathing is attached.		
<b>TAG LINE</b>	Line connected to gang form or flying form to control free swing movement during crane lifting.		
<b>TAPER TIE</b>	A one-piece reusable form tie with a slight taper to facilitate removal.		



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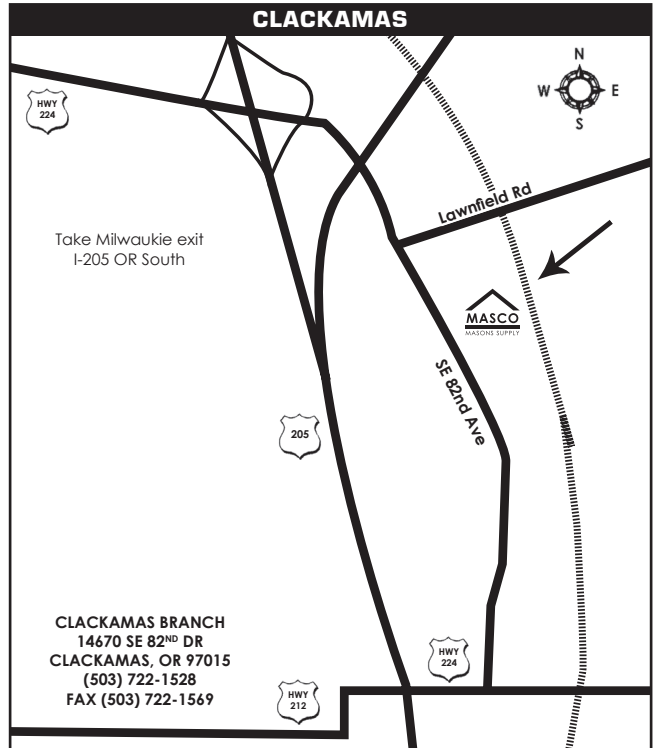
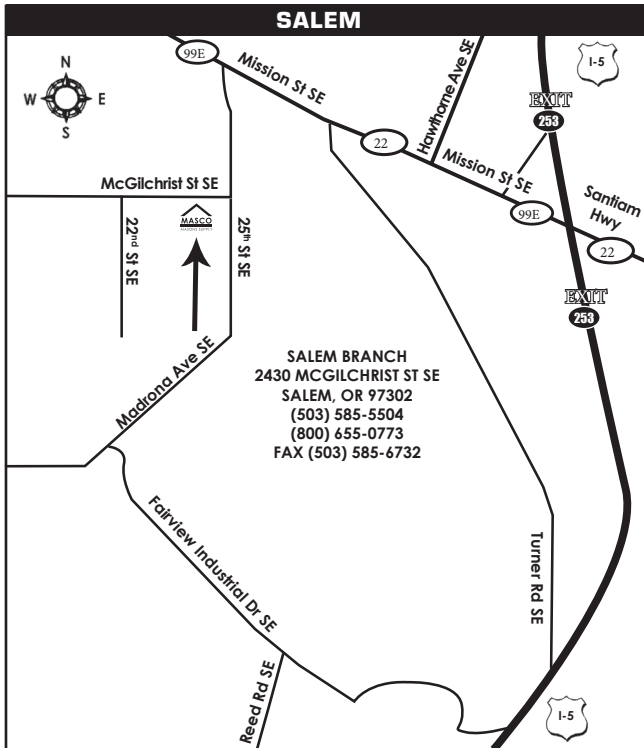
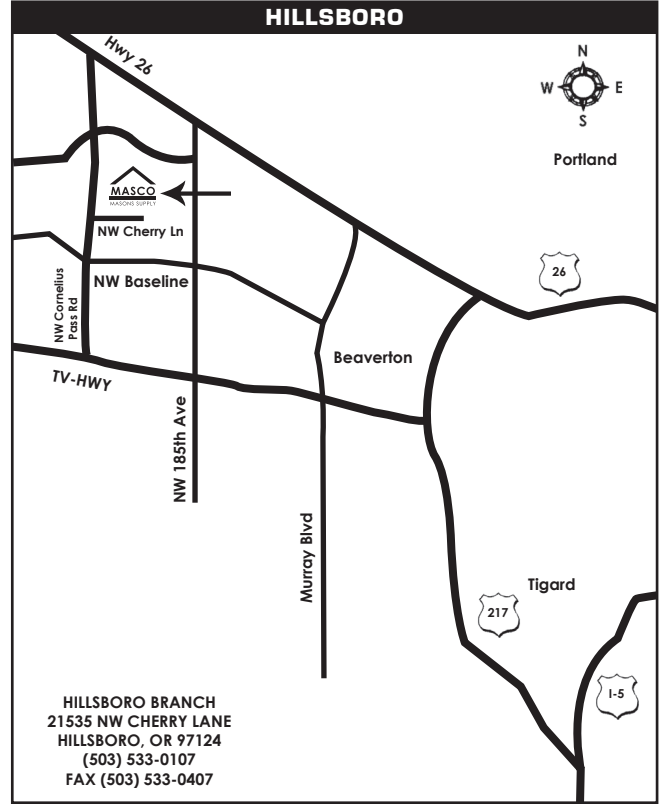
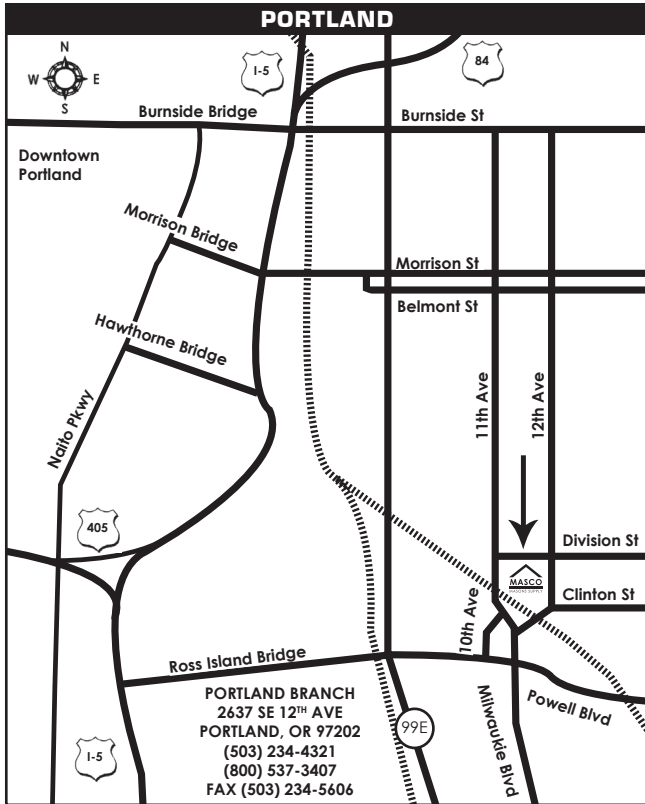
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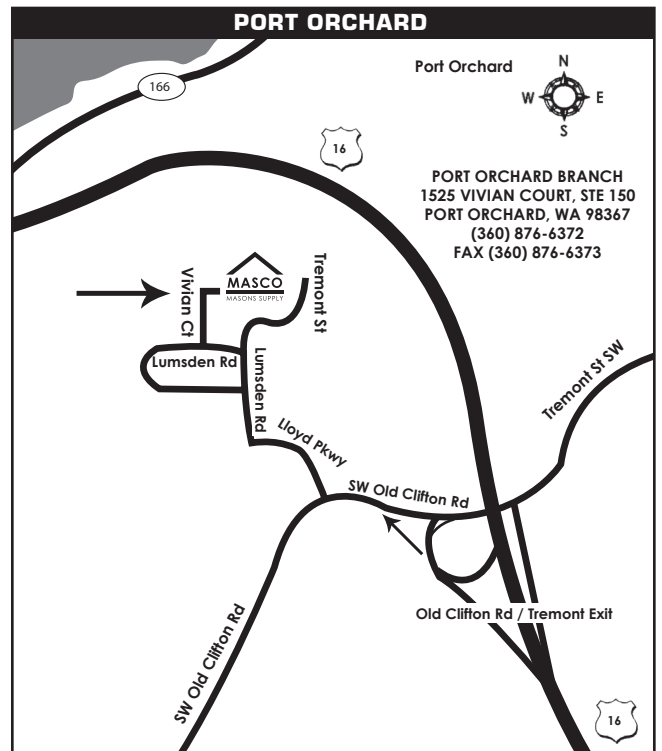
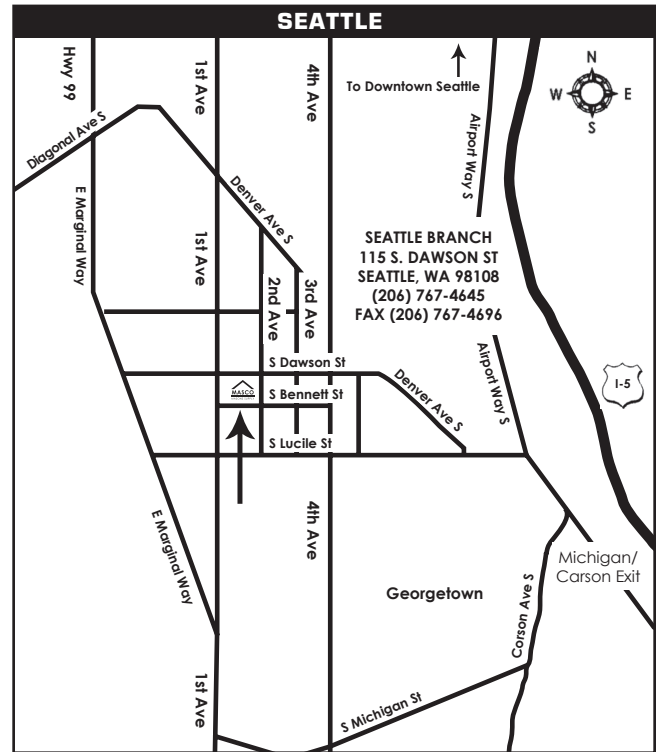
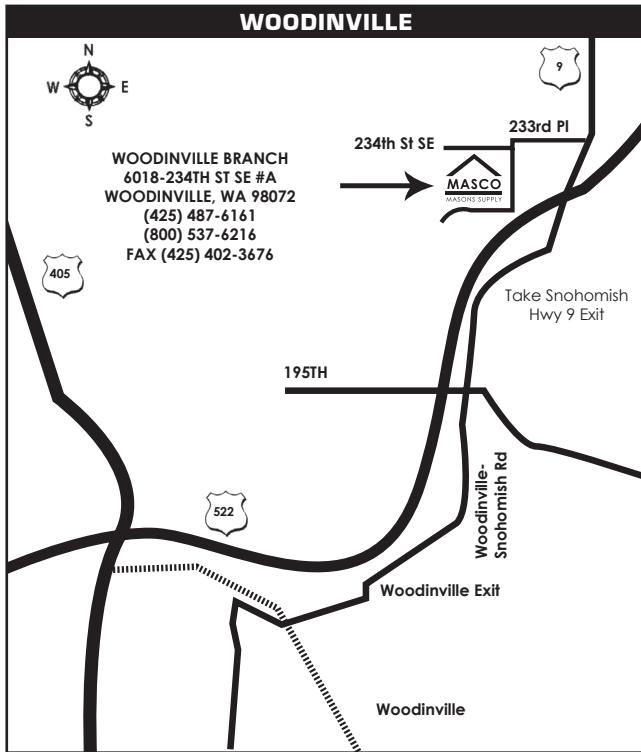
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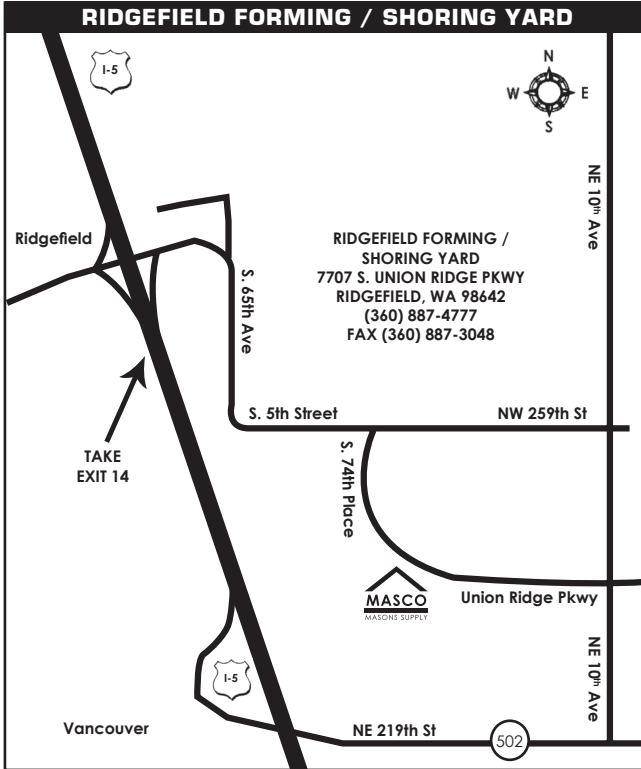
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- MECHANICAL ANCHORS
- NAILS
- OVERHANG BRACKETS
- PATCHING MATERIALS
- PENCIL ROD ACCESSORIES
- PRECAST LIFTING SYSTEMS
- POST SHORES
- PROTECTION PAPER
- PREMIX
- REINFORCING MESH AND FABRIC
- REBAR & ACCESSORIES
- REBAR COUPLERS & SPLICING
- REGLET
- RESIN BONDED ANCHORS
- RETARDERS FOR CONCRETE
- SACKING & PATCHING MATERIALS
- SAND & BLASTING ABRASIVES
- SCAFFOLD BRACKETS
- SCISSOR CLAMPS
- SCREED PRODUCTS
- SEALANTS
  - 1) ACRYLIC
  - 2) EPOXY
  - 3) SILOXANE
- SHE BOLTS
- SHORING
- SNAPTIES SYSTEMS
- SONOTUBE
- STAKES
- STAYFORM
- TAPER TIES
- TIES - BRICK, BAG, FORM
- TILT-UP LIFTING SYSTEMS & ACCESSORIES
- TRENCH DRAIN
- TURNBUCKLES
- VAPOR BARRIER
- WATERSTOP
  - 1) BENTONITE
  - 2) HYDROPHILIC RUBBER
  - 3) HIGH CHEMICAL RESISTANT
  - 4) PVC

## **DIVISION FOUR - MASONRY**

- ADDITIVES
- ADJUSTABLE WALL TIES
- ANCHOR SLOT
- BLADES - DIAMOND AND ABRASIVE
- BLOCK REINFORCING
- CAVITY MATE INSULATION
- CEMENT
- COATINGS
- COLORS
- EXPANSION JOINT
- FLASHING
  - 1) COPPER
  - 2) RUBBER
- HELIFIX SEISMIC ANCHORS
- INSULATION
  - 1) CAVITY MATE
- LIME
- MASONRY CONTROL JOINT
- METAL LATH

- MORTAR
- PENCIL ROD
- REBAR POSITIONERS
- REBAR ANCHORS
- SCREWS
- SEALERS
- STRIPITE
- STONE ANCHORS
- TERMINATION BARS
- VENEER ANCHORS
- WALL TIES
- WATER REPELLENTS
- WEEP HOLES

## **DIVISION SEVEN - THERMAL & MOISTURE PROTECTION**

- ACCESS DOORS
- BENTONITE PANELS
- DAMPPROOFING
- FIRESTOP SEALANTS
- INSULATION
  - 1) RIGID FOAM
- LADDER HATCH
- PROTECTION BOARD
- PROTECTION PAPER
- ROOF HATCH
- SEALANTS
- SMOKE VENTS
- TYVEK
- VISQUEEN
- WATERPROOFING
  - 1) BENTONITE
  - 2) CEMENTITIOUS
  - 3) LIQUID RUBBER
  - 4) SHEET MEMBRANE

## **TOOLS AND EQUIPMENT**

- ABRASIVES
  - 1) BLADES
  - 2) CUP
  - 3) WHEELS
- ADAPTERS
- BRUSHES
- BUCKETS
- CAULKING GUNS
- CEMENT FINISHING TOOLS
- CHALK LINES
- CHISELS
- CONCRETE BUCKETS
- CONCRETE CURING BLANKETS
- COMPACTION EQUIPMENT
- CURB & GUTTER TOOLS
- DARBIES
- DIAMOND BLADES - WET OR DRY
- EDGERS
- FLOATS
- FRESNOS
- GLOVES
- GROOVERS
- GROUT PUMPS
- HAMMERS
- HANDLES
- HOSES
- IRON WORKERS TOOLS
- KNEE BOARDS
- LEVELS
- MIXERS

- 1) CONCRETE
- 2) MORTAR
- PLATE COMPACTORS
- PLIERS
- POWER SCREED
- POWER TROWELS
- PUMPS
- RAKES
- REBAR CUTTER/BENDER
- SAFETY SUPPLIES & EQUIPMENT
- SHOVELS
- SAWS
  - 1) BRICK
  - 2) CUT OFF
  - 3) WALK BEHIND
- SCRAPERS
- SPRAYERS
- TROWELS
- TUBS
- WHEELBARROWS
- VIBRATORS - ALL TYPES

## **FORMING SYSTEMS SALES & RENTALS**

### **VERTICAL FORMING SYSTEMS**

- ALISPLY™
- STEEL PLY®
- ALUMINUM BEAM GANGS
- WONDERWALE SYSTEM
- ELEVATOR SHAFT FORMING
- FLEX-FORM®
- ADJUSTABLE RADIUS WALER
- MAX-A-FORM®
- ROLL BACK
- CAMLOCK SYSTEM
- SNAPTIE SYSTEM
- SCAFFOLD BRACKET

### **HORIZONTAL FORMING AND SHORING SYSTEMS**

- DECKFAST™
- HV-DECK/PANEL SYSTEM
- MEGA SHORE
- SHORING STEEL
- POST SHORES
- SOLDIER BEAM
- ELLIS SHORES
- OVERHANG BRACKETS
- SAFETY RAIL BRACKETS

### **COLUMN FORMING**

- STEEL PLY®
- ADJUSTABLE STEEL
- MAX-A-FORM
- CIRCULAR STEEL
- LOCKFAST COLUMN CLAMP
- LOK'N SQUARE COLUMN CLAMP
- SCISSOR CLAMP
- ROUND CONCRETE FORM
- POCKET FORM™ ISOLATORS

### **LIFTING HARDWARE & BRACES**

# MASONS SUPPLY COMPANY

**319**

Oregon (800) 537-3407 ♦ Washington (800) 537-6216

Clackamas | Eugene | West Eugene | Hillsboro | Medford | Portland | Salem | Wilsonville | Ridgefield | Seattle | Tacoma | Woodinville



**MASONS SUPPLY COMPANY**  
Construction and Industrial Materials

**CREDIT APPLICATION**

Attn: Bookkeeping Office – P.O. Box 42367

**Clackamas**  
503-722-1528

**Eugene**  
541-744-6696

**West Eugene**  
541-683-1408

**Hillsboro**  
503-533-0107

**Medford**  
541-772-6161

**Portland**  
503-234-4321

**Salem**  
503-585-5504

**Wilsonville**  
503-582-9320

**Ridgefield Form Yard**  
360-887-4777

**Seattle**  
206-767-4645

**Tacoma**  
253-581-6161

**Woodinville**  
425-487-6161

Business Name \_\_\_\_\_

Business Street Address \_\_\_\_\_ Billing Address \_\_\_\_\_ Business Phone \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_ Fax Number \_\_\_\_\_

Nature of Business  Sole Proprietor  Corporation  Partnership  LLC

List All Owners, Officers, Principals, or Partners Full Name, Home Street Address, Home Phone (Use Additional Sheets as Necessary)

Name \_\_\_\_\_ Address \_\_\_\_\_ Phone \_\_\_\_\_

Name \_\_\_\_\_ Address \_\_\_\_\_ Phone \_\_\_\_\_

How Long in Business \_\_\_\_\_ How Long at Present Business Address \_\_\_\_\_ If Less Than 1 Year Previous Address \_\_\_\_\_

Construction Contractors Board License No. \_\_\_\_\_ Dept. of Labor & Industries Contractors License No. \_\_\_\_\_

Expiration Date \_\_\_\_\_ Expiration Date \_\_\_\_\_ Sales Tax Resale No. \_\_\_\_\_

Bond Co. & Address \_\_\_\_\_ Phone \_\_\_\_\_ Bond No. \_\_\_\_\_

Business Bank & Branch \_\_\_\_\_ Phone \_\_\_\_\_ Name of Bank Representative to Contact \_\_\_\_\_

Checking No. \_\_\_\_\_ Bank Line of Credit?  Yes  No

Construction Lender \_\_\_\_\_ Phone \_\_\_\_\_ Contact Person \_\_\_\_\_ Phone \_\_\_\_\_

Personal Bank and Branch  
 Checking Account No.  Savings Account No.  Loan Account No.

Have you or any other owner of officer ever done business with Masons? If yes, when?

Under what Name? \_\_\_\_\_ Federal Identification No. \_\_\_\_\_

Business  Personal  Financial Statement Attached

REFERENCES (TRADE SUPPLIERS)

Name \_\_\_\_\_ Address \_\_\_\_\_ Phone \_\_\_\_\_

Name \_\_\_\_\_ Address \_\_\_\_\_ Phone \_\_\_\_\_

Name \_\_\_\_\_ Address \_\_\_\_\_ Phone \_\_\_\_\_

Name \_\_\_\_\_ Address \_\_\_\_\_ Phone \_\_\_\_\_

If sole proprietor or partner, please list the following:

Driver's License No. \_\_\_\_\_ State \_\_\_\_\_ Soc. Sec. No. \_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_

Do you own your own home?  Yes  No

Address \_\_\_\_\_ City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

**PERSONAL GUARANTY**

In consideration for Masons Supply Company extending credit to the Corporation, Partnership, or business entity I am associated with, and as an inducement to Masons Supply Company to supply credit to that business entity, I agree to personally guarantee that all credit extended to that business entity will be paid in full. In the event the business entity I am associated with fails to pay billings from Masons Supply Company within 30 days of receipt, I agree to individually be responsible for any court costs and attorneys fees incurred by Masons Supply Company in collection efforts, should the business entity fail to pay all billings within 30 days of receipt, and should it be necessary to institute collection procedures.

DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20 \_\_\_\_\_

Signed: \_\_\_\_\_  
*IN MY INDIVIDUAL AND PERSONAL CAPACITY*

Signed: \_\_\_\_\_  
*IN MY INDIVIDUAL AND PERSONAL CAPACITY*

Signed: \_\_\_\_\_  
*IN MY INDIVIDUAL AND PERSONAL CAPACITY*

**TERMS OF SALE**

I hereby agree to pay my account in accordance with Masons Supply Company's regular terms and conditions. I further agree to pay 1½% per month (18% per annum), service and/or finance charge, subject to local laws governing this charge on balances not paid by the 25<sup>th</sup> day of the month following purchase. "If an attorney is employed to enforce this agreement, Masons Supply Company shall be entitled to attorney fees and costs, irrespective of whether any legal proceeding is commenced. If any legal action, arbitration, or other proceeding is brought (including any bankruptcy), the prevailing party shall be entitled to recover reasonable attorney fees and other costs, both at trial and on appeal." It is understood and agreed by and between the parties that this credit transaction is subject to the provisions of State and Federal uniform consumer credit codes as they may apply. I understand that if I fail to provide Masons Supply Company with current lists of people authorized to charge against my account, I will be held responsible for unauthorized charges.

Permission is hereby granted to Masons Supply Company to verify credit information from references and information provided, and to make all other pertinent credit inquiries as deemed necessary to make a credit determination.

**LIST OF PEOPLE AUTHORIZED TO CHARGE:**

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

DATED THIS \_\_\_\_\_ DAY OF \_\_\_\_\_, 20 \_\_\_\_\_

COMPANY NAME: \_\_\_\_\_

PLEASE SIGN BELOW:

SIGNED: \_\_\_\_\_

TITLE: \_\_\_\_\_

# LOCATIONS

## OREGON

### PORTLAND DISTRIBUTION CENTER

2637 SE 12TH AVE  
PORTLAND, OR 97202  
**TEL** (503) 234-4321  
**WATTS** (800) 537-3407  
**FAX** (503) 234-5606

### CLACKAMAS BRANCH

14670 SE 82ND DR  
CLACKAMAS, OR 97015  
**TEL** (503) 722-1528  
**FAX** (503) 722-1569

### EUGENE BRANCH

1485 GLENWOOD BLVD  
EUGENE, OR 97403  
**TEL** (541) 744-6696  
**WATTS** (888) 537-1227  
**FAX** (541) 744-2302

### WEST EUGENE BRANCH

555 COMMERCIAL ST, Ste A  
EUGENE, OR 97402  
**TEL** (541) 683-1408  
**FAX** (541) 683-1956

### HILLSBORO BRANCH

21535 NW CHERRY LANE  
HILLSBORO, OR 97124  
**TEL** (503) 533-0107  
**FAX** (503) 533-0407

### MEDFORD BRANCH

2036 LARS WAY  
MEDFORD, OR 97501  
**TEL** (541) 772-6161  
**FAX** (541) 772-4752

### SALEM BRANCH

2430 MCGILCHRIST ST SE  
SALEM, OR 97302  
**TEL** (503) 585-5504  
**WATTS** (800) 655-0773  
**FAX** (503) 585-6732

### WILSONVILLE BRANCH

10955 SW COMMERCE CIRCLE, Ste E  
WILSONVILLE, OR 97070  
**TEL** (503) 582-9320  
**FAX** (503) 582-8324

## WASHINGTON

### WOODINVILLE DISTRIBUTION CENTER

6018-234TH ST SE, Ste A  
WOODINVILLE, WA 98072  
**TEL** (425) 487-6161  
**WATTS** (800) 537-6216  
**FAX** (425) 402-3676

### RIDGEFIELD FORM/SHORE/CUSTOM FAB

7707 S. UNION RIDGE PKWY  
RIDGEFIELD, WA 98642  
**TEL** (360) 887-4777  
**FAX** (360) 887-3048

### SEATTLE BRANCH

115 S. DAWSON ST.  
SEATTLE, WA 98108  
**TEL** (206) 767-4645  
**FAX** (206) 767-4696

### TACOMA BRANCH

2506-104TH ST CT S, STE B  
LAKEWOOD, WA 98499  
**TEL** (253) 581-6161  
**FAX** (253) 588-4272

**LOCALLY OWNED FOR OVER 90 YEARS**

