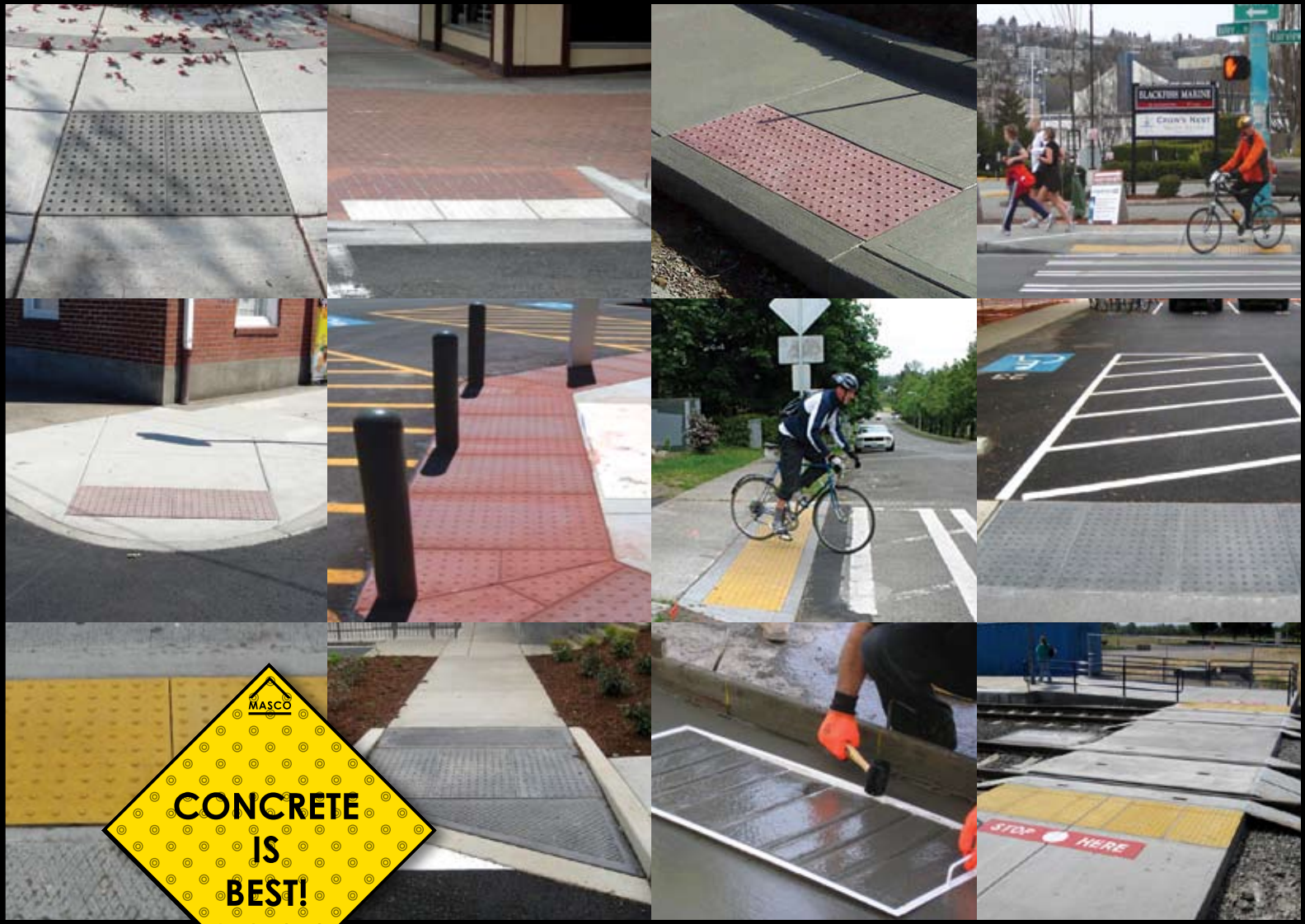


Concrete Tactile Warning Panels **CASTinTACT[®]3**

the dependable long-term concrete solution.

curb ramps | vehicular ways | transit platforms | blended transitions | pedestrian crossing
transportation | downtown revitalization | commercial | residential | public right of way



CASTinTACT® 3

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® 3 - 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.

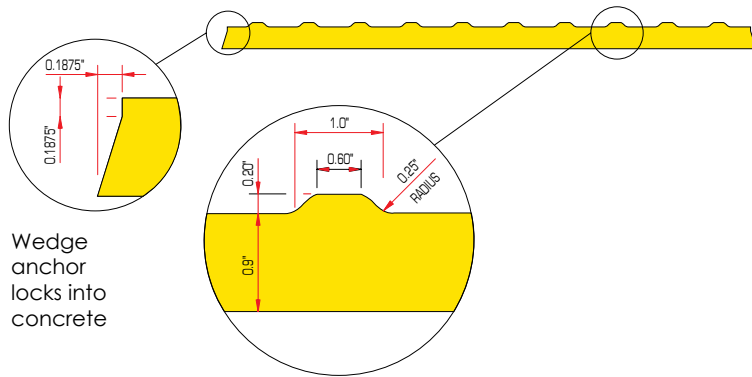
Microsilica enhanced to increase compressive strength and reduce

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.

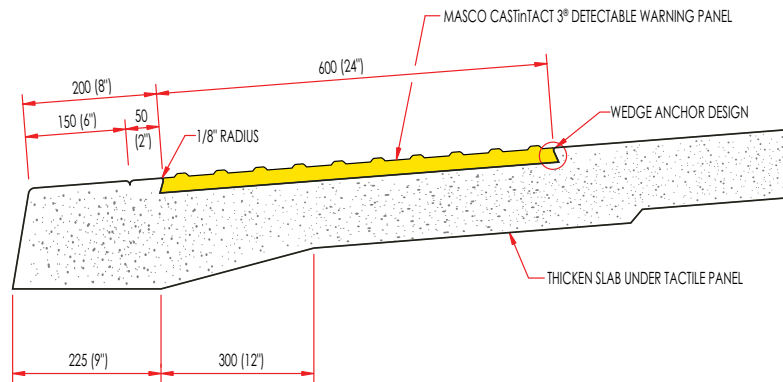
CASTinTACT® 3 panels are uniquely installed in a patented early entry-fast set method that takes 10 minutes. Panels are recessed flush to surface and bond to concrete base becoming a integral and permanent part of the walking surface. Because they are concrete, they offer long term durability, compatibility, similar coefficient of expansion as the concrete base, and easy to clean, maintain and repair.



PROWAC 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

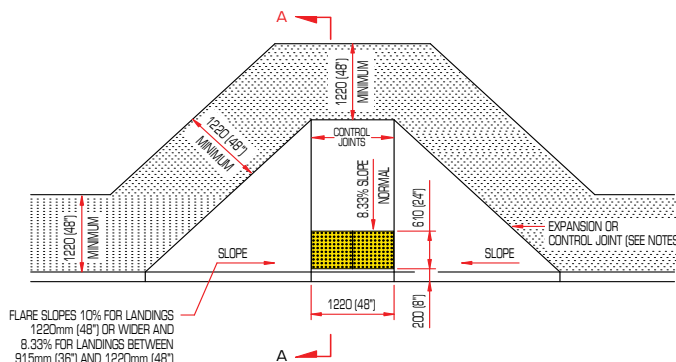
Installation Tools Needed:
INSTALaTACT®
MA CT2 (2'X4' TOOL)
MA CT3 (3'X4' TOOL)
Level
Square Point Shovel
Wood Float
Rubber Mallet
Sprayer for Water
Buckets
1/8" Radius Edger
Hydra Sponge
Stainless Steel Wire Brush

CASTinTACT® 3 - 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.

Ramp drawings available



FLARE SLOPES 10% FOR LANDINGS 1220mm (48") OR WIDER AND 8.33% FOR LANDINGS BETWEEN 915mm (36") AND 1220mm (48")

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.

1220mm (48") PERPENDICULAR SIDEWALK RAMP DETAIL
For more information please visit:



CASTinTACT.com

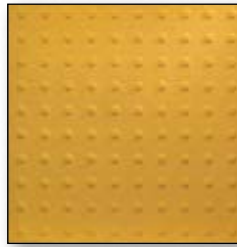
CASTinTACT® Standard Colors

Custom colors available on request

Colors are approximate, samples available on request.



Black



Yellow



Salem Red



White

CASTinTACT®3 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 ³ /cm ²
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

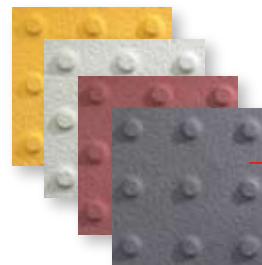
CASTinTACT®3 Panel Dimensions (Top Face)

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.



Textured to provide superior slip resistance



Contrasting color is integral throughout panels

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.



MADE IN THE
USA

For more information please visit:

CASTinTACT.com

JAN 2010

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. Recessed 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's 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.

Early Entry - Fresh Set Install

US Patent No 7,000,361 & 7,121,048
and other patents pending.



1 Pour concrete and finish to proper grade.
Set INSTALaTACT® into fresh concrete 8" from curb line.



2 Removal of concrete is fast & easy with a square point shovel.



3 Remove the INSTALaTACT® tool and level
concrete base with wood float.



4 Pre-dampen and parge the back of the panel with
CASTinTACT® Premix or fresh concrete.



5 Set CASTinTACT® with rubber mallet. Wedge or flared edge of
panel facing the curb. Check slope with level.



6 Finish surrounding concrete flush with panel.
Install joints and finish to specifications.



7 Clean up is fast and easy with stainless steel brush
and hydra sponge.



8 CASTinTACT® - THE DEPENDABLE CONCRETE SOLUTION!



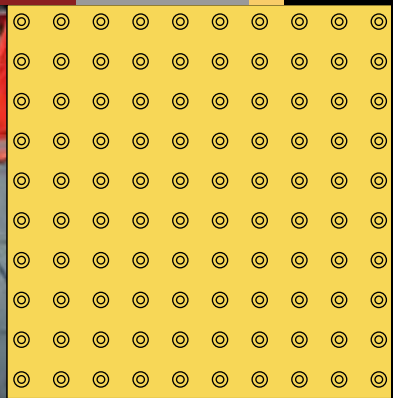
INSTALaTACT®
(US Patent - No 7,121,048)



CASTinPLACE



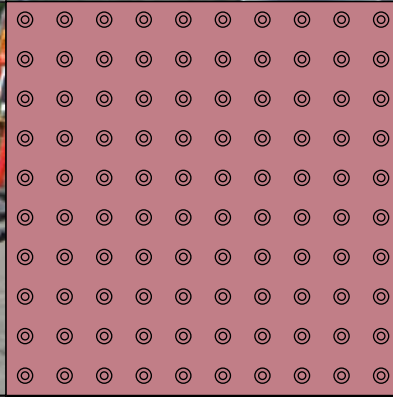
Thin-Set



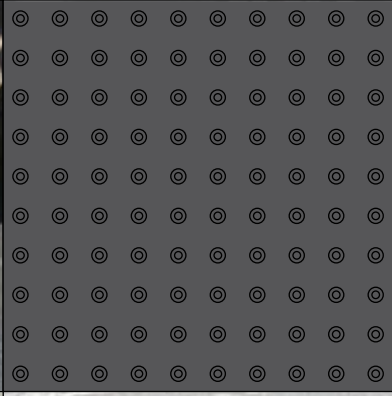
Blended Transition



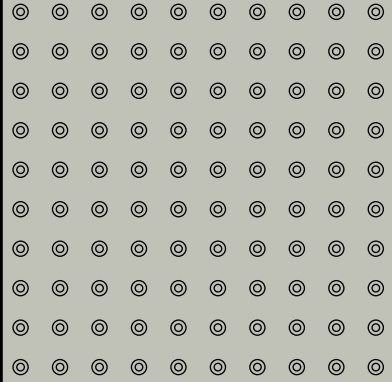
Panel Caddy
(Patent Pending)



Dome Repair System



Distributed by:



THE CASTinTACT® ADVANTAGE:

- Cementitious concrete panels used for both new construction and retrofit.
- Easy to cut and core, use 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® 3 panels do not float during installation. Panels stay where placed.**
- Recyclable concrete panel.

Total CASTinTACT® Solution - Installation, Durability, and Maintainability.

**MADE IN THE
USA**

For more information please visit:

CASTinTACT.com

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JAN 2010