

Full Depth Retro Fit / Block Out

▶ 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. Saw cut existing concrete full depth using a diamond blade. Oversize area a minimum 2" in each direction of warning panel layout. Contain slurry and dispose of properly. Partial depth and breakout will not be allowed. Do not chip the concrete on perimeter of cut out. The perimeter chips and over cuts must be filled and patched with an gray epoxy gel adhesive approve by manufacturer.

C. Provide expansion and control joints 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)

D. Dowel into existing concrete as necessary.

E. 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. Prepare a well drained and properly compacted subgrade. Leave no puddles, standing water, ice, frost or mud. Consult contract documents for information on subgrade and compaction details.

F. 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 a minimum 24" in depth.

G. Concrete shall be poured, floated and recessed 3/8" below finish grade to proper grade and slope.

H. Concrete shall be finished with wood float to leave an open surface.

I. Pre-dampen back of **CASTinTACT® 3** panels with potable water Apply 1/8" thickness of **CASTinTACT® Wet Set PreMix** (3:1 ratio of powder to potable water) or (1:1:1/2 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.

J. 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 an 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.

K. 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.

L. Finish joints per specifications. Follow all manufacturer's recommendations for joint preparation and installation procedures.

M. Clean fresh concrete residue off panels with a stainless steel wire brush and rinse with clean water and hydra sponge to ensure a clean appearance.

N. 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® 3** Warning Panel surface from traffic until desired strength is achieved. If necessary, protect panels with plywood and an 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

Full Depth Retrofit Install

US Patent No 7,000,361 & 7,121,048
And Other Patents Pending.



1
Predetermine measurements prior to cutting, oversize all sides minimum 2" each direction.



2
Prepare a well drained and properly compacted subgrade. Dowel into existing concrete as necessary. Oversize area minimum 2" in each direction.



3
Concrete shall be poured, leveled, floated and recessed 7/8" below finish grade.



4
Pre-dampen and parge back of panel with CASTinTACT® Wet Set PreMix or fresh concrete.



5
Place CASTinTACT® into fresh concrete 6-8" from curb line and set panels with a rubber mallet. Wedge or flared edge of panel facing the curb. 2" minimum new concrete all sides.



6
Fill perimeter with concrete, level with base of domes, edge panels, and finish to specifications.



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



8
CASTinTACT® - THE DEPENDABLE CONCRETE SOLUTION!