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the U.S.A.



**ADA SOLUTIONS, INC.**  
**DETECTABLE WARNING SURFACES**  
**FOR PEDESTRIAN CROSSINGS**

## **RADIUS TACTILE**

**CAST-IN-PLACE REPLACEABLE (WET-SET)**  
**OR SURFACE MOUNT**



*Service, Delivery and Price*  
*Make ADA Solutions, Inc. the Obvious Choice*

# RADIUS TACTILE - REPLACEABLE

## Installation Procedure

**Be sure to read and understand all of these instructions before you begin.**

**A.** The physical characteristics of the concrete shall be as specified in the contract documents while maintaining a slump range of 4-7 inches to permit the solid placement of the ADA Replaceable Tactile Unit (ADAREP) in the wet cement.

**B.** The concrete shall be poured and finished level, true and smooth to the required dimensions prior to the placement of the ADAREP unit.

**C.** Working in a grid pattern, tamp the ADAREP unit into the wet concrete using a rubber mallet and a piece of wood. Continue this process until all of the air has been released, and the ADAREP unit surface is flush with the surrounding area. **IMPORTANT: Avoid striking the surface of the ADAREP unit directly.**

**D.** Following the placement, the ADAREP unit elevation should be checked to the adjacent surface with a straight edge. The ADAREP unit elevation should be consistent with the Contract Drawings and Specifications. Any required adjustments must be made prior to the time when the concrete begins to set.

**E.** **IMPORTANT NOTICE TO INSTALLER:** *To allow for expansion and contraction, after tile is installed, use a 1/4" finish edge trowel around entire perimeter. On a continuous run, be sure to space each unit 1/8" apart.*

**F.** When you are confident that the ADAREP unit is in place and no further adjustments are needed, place a cinder block on both ends to hold the ADAREP unit in place while the concrete sets.

**G.** During and after the ADAREP unit installation, as well as the concrete curing stage, no walking or external forces can be placed on the ADAREP unit. The area must be protected from pedestrian traffic until concrete is cured. The ADAREP Warning Surface will be ready for pedestrian traffic within 2-4 hours.

**H.** Be sure to remove plastic protective covering from the face of the ADAREP Unit once the concrete is cured.

\*Not recommended or warranted for asphalt installation.



**PRODUCT SIZES**  
2' x 33 1/4"

**APPLICATION**  
Fresh Pour  
Concrete Ramps  
& Replacement

*View additional photos, drawings and specifications  
on our website: [www.adatile.com](http://www.adatile.com).  
Call (800) 372-0519 with any questions.*

# RADIUS TACTILE - REPLACEABLE

(WET-SET)

## Replacement Procedure

**Be sure to read and understand all of these instructions before you begin.**

- A.** Lift the existing composite bolt cap from each anchor location on the ADA Replaceable Tactile unit (ADAREP) with a flat head screw driver.
- B.** Remove the existing 1/2" x 1 1/2" heavy duty steel bolts and washers from each anchor location on the ADAREP unit with a ratchet. Save & reuse.
- C.** Tap around all sides of the ADAREP unit and across the middle with a rubber mallet, working in a grid pattern.
- D.** Pry the existing ADAREP unit from the concrete ramp with a small prybar, working around the edges until it can be lifted cleanly away.
- E.** Be sure to remove all small debris and dust from the existing impression in the concrete ramp.  
**IMPORTANT: Be careful not to get debris into anchor locations.**
- F.** Replace new ADAREP unit into impression in concrete ramp. Lightly tamp down the ADAREP unit with a rubber mallet and a piece of wood.  
**IMPORTANT: Avoid striking the ADAREP unit directly.**
- G.** Bolt existing 1/2" x 1 1/2" heavy duty steel bolts and washers back into each anchor location on new ADAREP unit.
- H.** Snap a new composite bolt cap provided, into each anchor location on the ADAREP unit. The ADAREP unit is ready for pedestrian traffic immediately after installation is complete.



**View additional photos, drawings and specifications on our website: [www.adatile.com](http://www.adatile.com).  
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**U.S. Patent  
No. 7,779,581**

# RADIUS TACTILE - REPLACEABLE

## Inline Dome Pattern

### DOME GEOMETRY

ADAAG, PROWAG and ADA/ABA Compliant in-line truncated dome pattern.

### UNIVERSAL RADIUS TWS PRODUCT

Universal Radius TWS Product is scored for a 10', 15' and 20' radial condition and may be cut by a table saw to accommodate site conditions.

### RADIUS PANEL SIZES

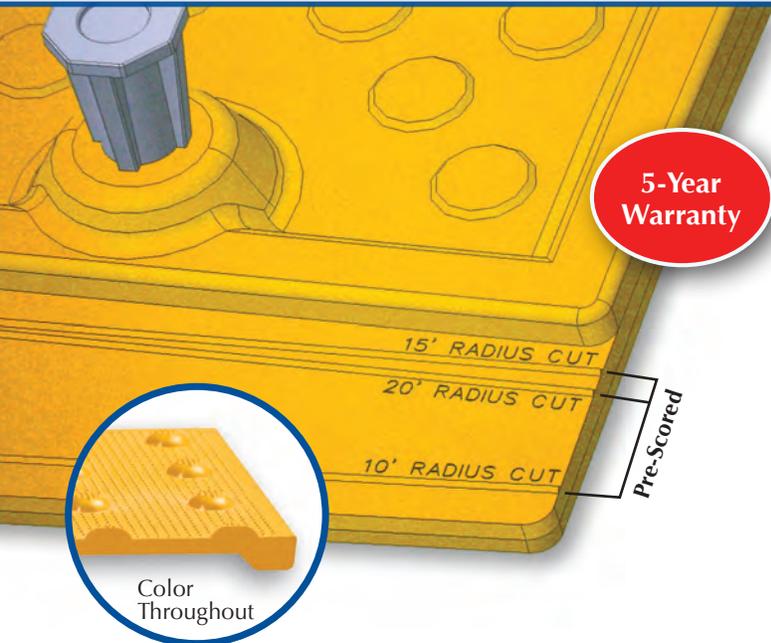
- ADA Replaceable TWS Unit: 24" x 33¼", 8 recessed and capped ½" x 1½" bolts with concrete inserts and heavy duty perimeter detail.

### MATERIAL

A homogenous glass and carbon reinforced composite which is colorfast and UV stable. Truncated domes are fiberglass reinforced for enhanced durability. The color of the TWS Unit is uniform throughout and does not rely on any type of paint coating to achieve color stability. Standard colors: Federal Yellow, Brick Red, Clay Red, Safety Red, Blue, Dark Gray, and Black.

### PHYSICAL CHARACTERISTICS

Compressive Strength	28,900 psi	ASTM D 695
Flexural Strength	29,300 psi	ASTM D 790
Slip Resistance	1.18 Dry, 1.05 Wet	ASTM C 1028
Chemical Stain Testing	No Deterioration	ASTM D 543
Abrasion Resistance	549	ASTM C 501
Accelerated Weathering	Delta E<5.0 (2,000 hours)	ASTM G 155
Tensile Strength	11,600 psi	ASTM D 638
Load Bearing at 16,000#	No Damage	AASHTO-H20
Freeze/Thaw/Heat	No Disintegration	ASTM C 1026



### INSTALLATION

- ADA Replaceable TWS Unit (New Construction): TWS unit is easily installed in wet concrete in minutes. TWS unit can be quickly removed and replaced with basic tools.

### WARRANTY

ADAREP units shall be guaranteed in writing for a period of five (5) years from date of contract's final completion. The guarantee includes breakage and deformation of the tactile warning surface material.