



Armor-Tile[®]
Tactile Systems

CAST-IN-PLACE
Tactile Warning Surface Panels



Armor-Tile®

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CAST IN PLACE

Innovative System

Armor-Tile® Cast in Place is the world leader in tactile walking surface indicators systems. Manufactured of high-strength polymer composite, Armor-Tile truncated dome and wayfinding bar tiles are the industry leader for durability, weather, and wear resistance. Armor-Tile also is available as a replaceable cast-in-place, modular paver, surface applied, and directional bars.

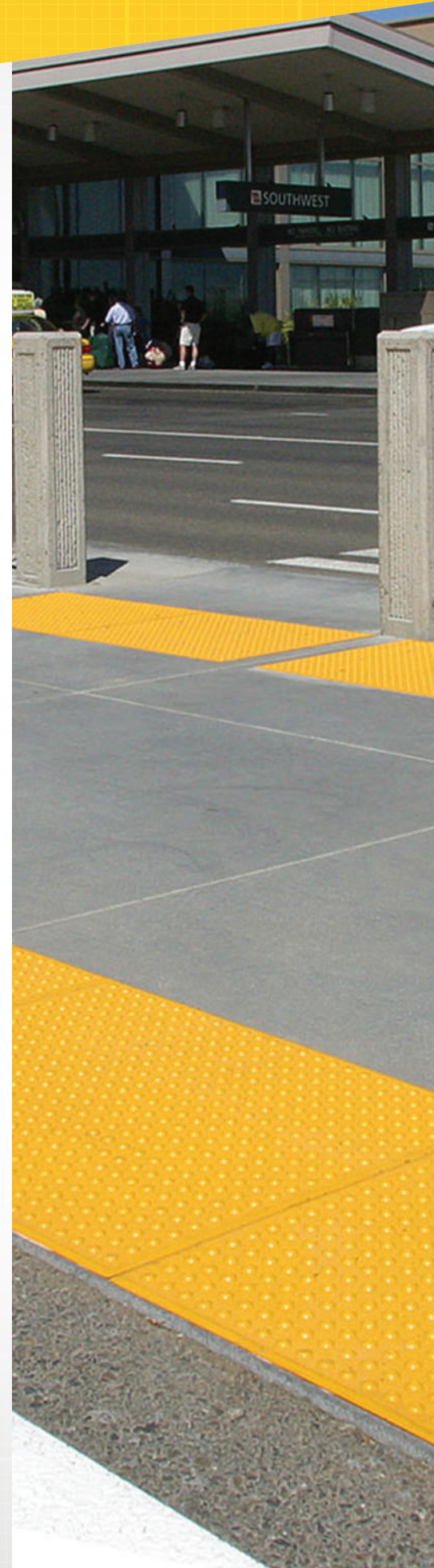
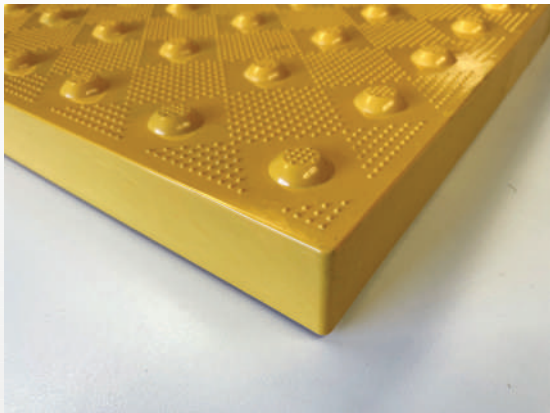
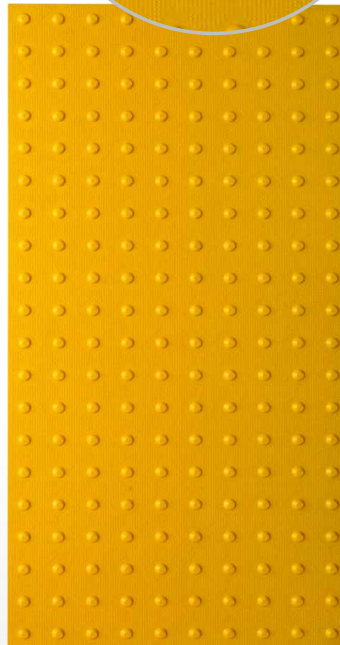
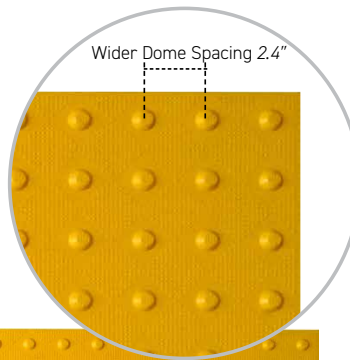
Tactile Walking Surface Indicators (TWSI) products for the following and many more applications:

- Curb Ramps
- Pedestrian Crossings
- Vehicular Passage Ways
- Escalator Approaches
- Parking Areas
- Transit Platforms
- Top of Stair Landings / Wheelchair Ramps
- Multi-Modal Transit Stations

PRODUCT FEATURES

- The most cost-effective method for compliant curb ramps
- A smooth transition that meets Accessibility Codes
- Lightweight and easy to handle
- Easily cut to conform to various sizes and radius ramps
- Available in seven (7) different sizes to meet your needs
- Comes in ten (10) standard colors
- 5-year manufacturer's warranty

NEW PATTERN



ARMOR-TILE
RADIUS CALCULATOR
go to <https://new.armor-tile.com>

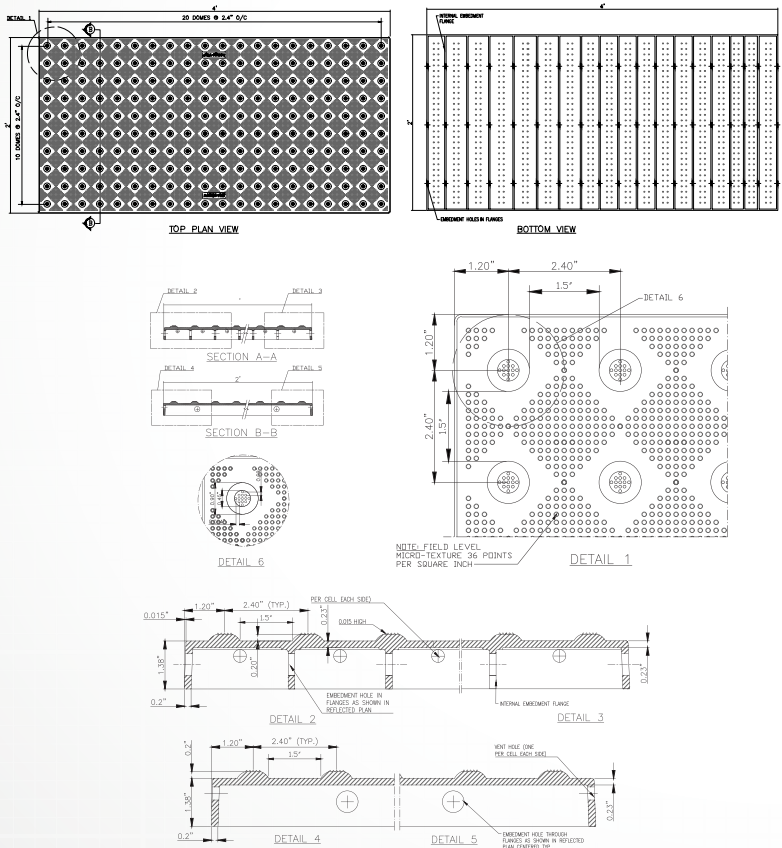


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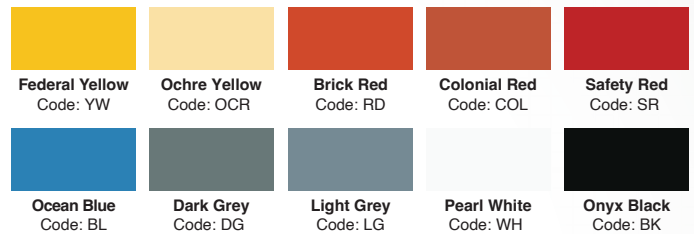
TACTILE WALKING SURFACE INDICATOR (TWSI) WITH TRUNCATED DOMES



STANDARD CAST-IN-PLACE SIZES

SIZE	PRODUCT CODE
12" x 12" (305 x 305 mm)	ADA-C-1212
24" x 24" (610 x 610 mm)	ADA-C-2424
24" x 36" (610 x 915 mm)	ADA-C-2436
24" x 48" (610 x 1220 mm)	ADA-C-2448
24" x 60" (625 x 1524 mm)	ADA-C-2460
36" x 48" (915 x 1220 mm)	ADA-C-3648
36" x 60" (915 x 1524 mm)	ADA-C-3660

STANDARD COLORS



CUSTOM COLORS

Large variety available. Let us know how we can help.

APPLICATIONS

TWSI Truncated Domes

- Curb ramps and blended transitions at pedestrian street crossings
- Pedestrian refuge islands
- Pedestrian at-grade rail crossings not located within a street or highway
- Boarding platforms at transit stops for buses and rail vehicles where the edges of the boarding platform are not protected by screens or guards
- Boarding and alighting areas at sidewalk or street level transit stops for rail vehicles where the side of the boarding and alighting areas facing the rail vehicles is not protected by screens or guards.



Installation Manual

Armor-Tile Cast In Place

Inline Dome Detectable/Tactile Warning Surface Tile

- A. During Cast In Place Detectable/Tactile Warning Surface Tile installation procedures, ensure adequate safety guidelines are in place and that they are in accordance with the applicable industry and government standards.
- B. The specifications of the structural embedment flange system and related materials shall be in strict accordance with the contract documents and the guidelines set by their respective manufacturers. Not recommended for asphalt applications.
- C. The physical characteristics of the concrete shall be consistent with the contract specifications while maintaining a slump range of 4 - 7 to permit solid placement of the Cast In Place Detectable/Tactile Warning Surface Tile system. An overly wet mix will cause the tile to float. Under these conditions, suitable weights such as 2 concrete blocks or sandbags (25 lb) shall be placed on each tile.
- D. Prior to placement of the Cast In Place Detectable/Tactile Warning Surface Tile system, the contract drawings shall be reviewed.
- E. The concrete pouring and finishing operations require typical mason's tools, however, a 4' long level with electronic slope readout, 25 lb. weights, and a large non-marring rubber mallet are specific to the installation of the Cast In Place Detectable/Tactile Warning Surface Tile system. A vibrating mechanism such as that manufactured by Vibco can be employed, if desired. The vibrating unit should be fixed to a soft base such as wood, at least 1 foot square.
- F. The factory-installed plastic sheeting must remain in place during the entire installation process to prevent the splashing of concrete onto the finished surface of the tile.
- G. When preparing to set the tile, it is important that NO concrete be removed in the area to accept the tile. It is imperative that the installation technique eliminates any air voids under the tile. Holes in the tile perimeter allow air to escape during the installation process. Concrete will flow through the large holes in each embedment flange on the underside of the tile. This will lock the tile solidly into the cured concrete.
- H. The concrete shall be poured and finished true and smooth to the required dimensions and slope prior to the tile placement. Immediately after finishing concrete, the electronic level should be used to check that the required slope is achieved. The tile shall be placed true and square to the curb edge in accordance with the contract drawings. The Cast In Place Detectable/Tactile Warning Surface Tiles shall be tamped (or vibrated) into the fresh concrete to ensure that the field level of the tile is flush to the adjacent concrete surface. The embedment process should not be accomplished by stepping on the tile as this may cause uneven setting which can result in air voids under the tile surface. The contract drawings indicate that the tile field level (base of truncated dome) is flush to adjacent surfaces to permit proper water drainage and eliminate tripping hazards between adjacent finishes.
- I. In cold weather climates it is recommended that the Cast In Place Detectable/Tactile Warning Surface Tiles be set deeper such that the top of domes are level to the adjacent concrete on the top and sides of ramp and that the base of domes to allow water drainage. This installation will reduce the possibility of damage due to snow clearing operations.
- J. Immediately after placement, the tile elevation is to be checked to adjacent concrete. The elevation and slope should be set consistent with contract drawings to permit water drainage to curb as the design dictates.
- K. While concrete is workable, a 3/8" radius edging tool shall be used to create a finished edge of concrete, then a steel trowel shall be used to finish the concrete around the tile's perimeter, flush to the field level of the tile.
- L. During and after the tile installation and the concrete curing stage, it is imperative that there is no walking, leaning or external forces placed on the tile that may rock the tile causing a void between the underside of tile and concrete.
- M. Following tile placement, review installation tolerances to contract drawings and adjust tile before the concrete sets. Two suitable weights of 25 lb each shall be placed on each tile as necessary to ensure solid contact of the underside of tile to concrete.
- N. Following the concrete curing stage, protective plastic wrap is to be removed from the tile surface by cutting the plastic with a sharp knife, tight to the concrete/tile interface. If concrete bled under the plastic, a soft brass wire brush will clean the residue without damage to the tile surface.
- O. If desired, individual tiles can be bolted together using 1/4 inch or equivalent hardware. This can help to ensure that adjacent tiles are flush to each other during the installation process. Tape or caulking can be placed on the underside of the bolted butt joint to ensure that concrete does not rise up between the tiles during installation. Any protective plastic wrap which was peeled back to facilitate bolting or cutting, should be replaced and taped to ensure that the tile surface remains free of concrete during the installation process.
- P. Tiles can be cut to custom sizes, or to make a radius, using a continuous rim diamond blade in a circular saw or mini-grinder. Use of a straightedge to guide the cut is advisable where appropriate.
- Q. Any sound-amplifying plates on the underside of the tile, which are dislodged during handling or cutting, should be replaced and secured with construction adhesive. The air gap created between these plates and the bottom of the tile is important in preserving the detectability properties of the Armor-Tile system as required in various jurisdictions.



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A SureWerx Brand

5 YEAR PRODUCT WARRANTY Fiberglass Reinforced Polymer Composite Products

SureWerx warrants to the Project Owner that the Armor-Tile Tactile Walking Surface Indicator products supplied by SureWerx are free from defects in material including deformation, breakage, and delamination for a period of Five (05) years from the date of substantial completion of the project.

EXCLUSIVE REMEDIES: SureWerx, at its cost, will repair or replace defective material promptly reported to SureWerx during the warranty period. This warranty includes labor costs and cost of removal of the product. Repair or replacement will be done on site.

WARRANTY LIMITATIONS: The warranty of Armor-Tile products does not apply to conditions resulting from improper installation, improper use, external causes, intentional misuse, or abuse, neglected or improper annual maintenance, vandalism, modifications to the Armor-Tile products or installation procedures with the exception of the Owner's right to immediately eliminate an unsafe condition.

DISCLAIMER OF WARRANTY: The above warranties are the Owner's exclusive warranties. No other warranty, express or implied, shall apply. SureWerx specifically makes no warranty of merchantability and/or fitness for a particular purpose. In no event shall SureWerx be liable for any damages, lost profits, direct, consequential, or economic damages.

Issued Date: 00/00/2024

Effective Date: 00/00/2024

Project: Name/Identifier

Issued to: Contractor Name
Address
City, ST 00000

Owner: Owner Name
Address
City, ST 00000

Manufacturer: **SureWerx (Armor-Tile, a SureWerx Brand)**
Product: Detectable Warning Panels, Brick Red Fiberglass
Description: reinforced polymer composite material

Issued by:

John Stieby

Name

Director of End User Sales

Title

00/00/2024

Date

Armor-Tile

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CLEANING AND MAINTENANCE MANUAL

The Armor-Tile Detectable Tile is unique in its visual and tactile properties and requires a slight variation in cleaning procedures. Due to the undulation and texture of the tile surface, it is necessary to reach the grime that rests on the low parts of the tile. Standard wet mopping will not be completely effective in cleaning these textured surfaces. A major benefit of the vitrified polymer composite tile is that the composition is virtually non-porous, and prevents liquids, dust and grime seeping into the body of the tile. The unique, non-porous nature of the tile therefore lends itself to regular and frequent cleaning in order to maintain and enhance the visual contrast that the bright yellow tile provides. Visual contrast is an essential safety feature of the tactile tiles, and this contrast must be rigorously maintained with regular cleaning in order to provide the contrast that the visually impaired rely on for their safety. The use of general purpose commercial floor cleaners or machine bristle scrubbing will not harm Armor-Tile. However, as these cleaning practices may weaken or dissolve the adjacent floor finish, careful attention must be paid to the selection and application of the cleaning solution. It is advisable to check with the manufacturer of the cleaning solution in order to be certain that the product intended to be used will not harm the Armor-Tile, grout, or the adjacent floor finish in any way.

Regular Maintenance

Many neutral general purpose cleaners are effective for the regular maintenance and cleaning of Armor-Tile. It is important that the cleaner to be used has a non-oil, non-animal fat, non-soap base. Cleaners with these bases may cause problems due to oil-residues which tend to trap dirt in the cleaning process.

Please remember to treat any cleaning product you wish to use on a small, out of the way test area of the tactile surface and adjacent floor area before applying it to the entire Armor-Tile surface. This will ensure that it performs as desired, not only on the Armor-Tile surface but also on the adjacent floor finish, thus avoiding unexpected problems.

Avoid Surface Coatings

Armor-Tile does not require the use of sealants or waxes. Adding surface coatings increases the number of unnecessary steps in maintenance procedures without improving either the appearance of the tile, or the resistance to dirt build-up. In fact, using a surface coating turns a low maintenance vitrified polymer composite finish into a high maintenance tile.

In addition, surface coatings will actually diminish the unique performance characteristics that make Armor-Tile exceptional among tactile tiles. Such surface coatings create a thin barrier that may modify the skid resistance and visibility properties, thereby reducing an important safety feature of the flooring.





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