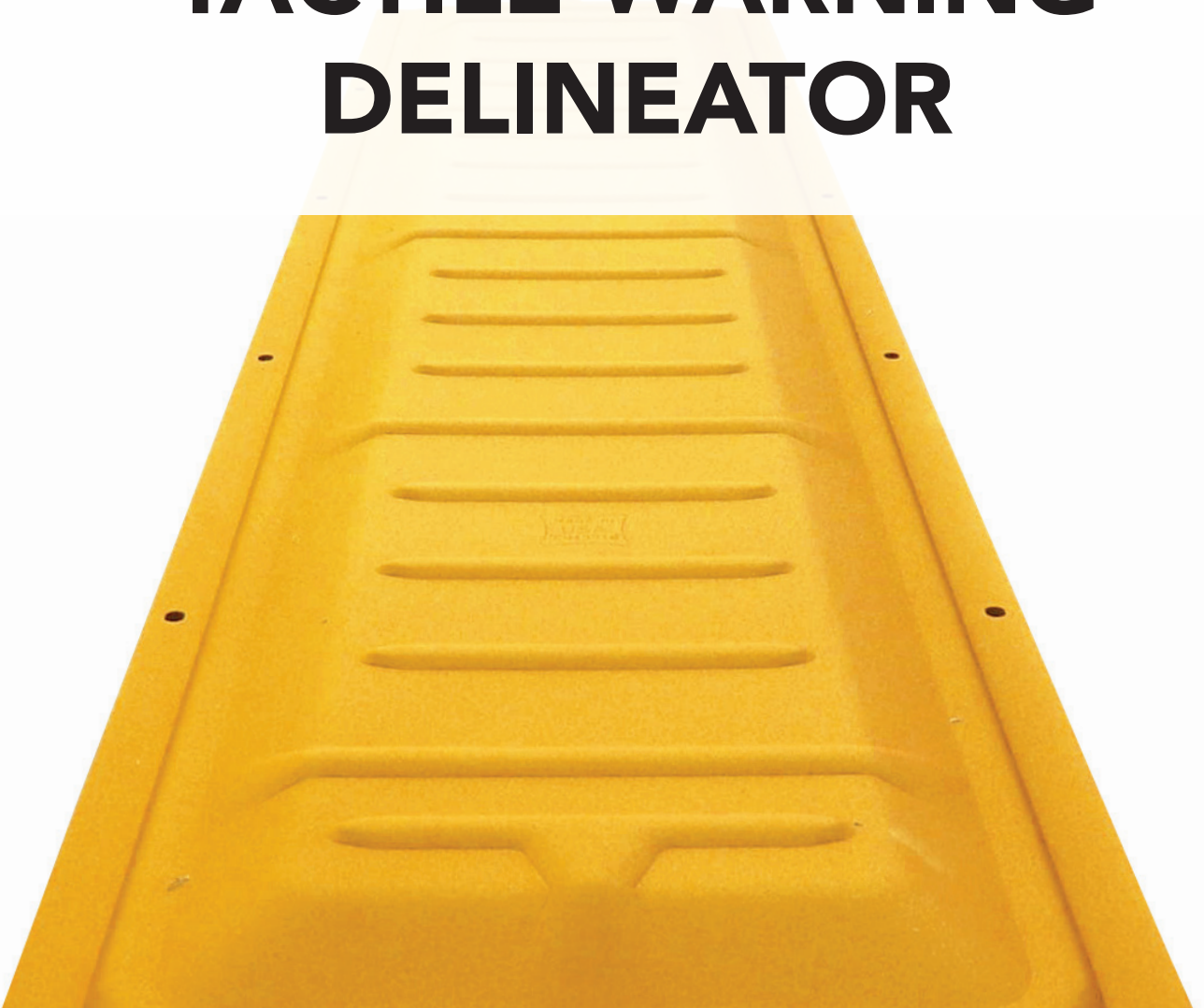


TufTile[®]

ADA DETECTABLE WARNING PRODUCTS

TACTILE WARNING DELINEATOR

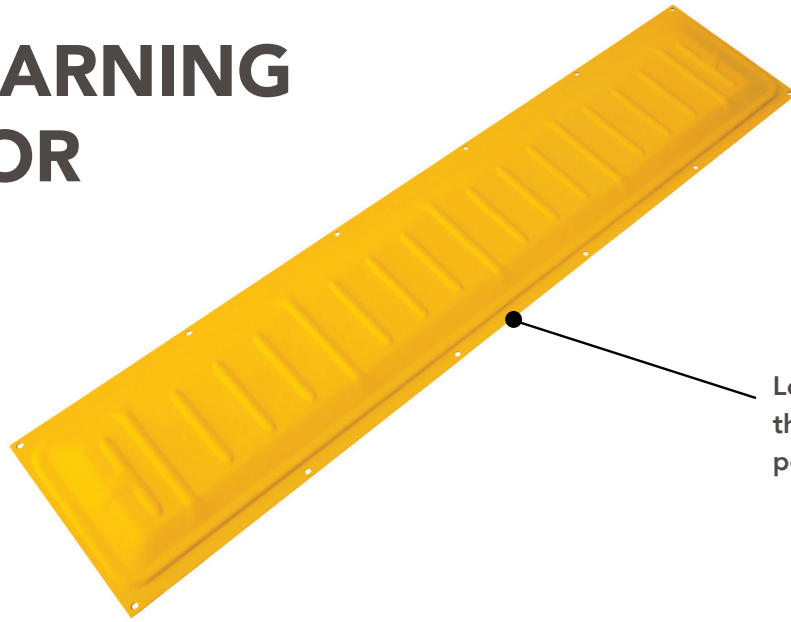


TufTile.com

☎ 1-888-960-8897

📍 905 Telser Road, Lake Zurich, IL 60047

TACTILE WARNING DELINEATOR



Lowest profile edge in the industry reduces potential for tripping.

Creating Safe Passage

TACTILE WARNING DELINEATOR

12 inch wide strip that is trapezoidal in cross section used to indicate that a hazard exists at the same grade on the opposite side of the surface from the sidewalk or pedestrian access route, and that no crossing point exists along the length of the TWD. TWD's delineate the boundary between a sidewalk and a separated bicycle lane at sidewalk level, between a pedestrian access route and the shared zone in a shared street and along transverse sidewalk markings within a quick build sidewalk extension.

PRODUCT ASSORTMENT

Available in 10 gauge galvanized steel for wet-set or surface-applied installation.

SUPERIOR COLOR & PROTECTION

In-house powder coating system provides superior UV protection, slip and abrasion resistance.

G90 GALVANIZED STEEL

G90 Galvanized steel tactile warning delineators are significantly more durable than composite and will not crack, chip, or fade.

10-YEAR WARRANTY

For full warranty information visit www.tuftile.com.
Meets Buy America Act 23 C.F.R. § 635.410.





TUFTILE IN-HOUSE POWDER COATING ADVANTAGE

TufTile's in-house powder coating system, with multi-stage wash and zirconium rinse, ensures superior bonding and adhesion of the powder-coated finish.

- UV stable finish will not crack, chip, or fade
- Wet & dry slip-resistant surface
- Available in 10 colors and natural
- Custom colors available with minimum order quantity

Colors Available



Galvanized Steel Test Data

Galvanization	G90 Guardrail Grade	G90
ASTM C 501	Abrasion Resistance	0.005
FDOT FM 3 - C 1028	Slip Resistance	Dry - 0.90, Wet - 0.81
ASTMA A 370	Tensile Strength	49,770 psi
ASTM D 695	Compressive Properties	55,170 psi
ASTM D 5420	Impact Resistance	No Cracking, No Delamination
ASTM E 84-18 ANSI/UL723	Test for Surface Burning Characteristics	CFS - 0.00, FSI - 0, CSD - 5.8, SDI - 5



Email All Orders To: sales@tuftile.com
 Contact Customer Service: 1-888-960-8897
 View the entire TufTile product portfolio at tuftile.com



GALVANIZED STEEL SAFETY DATA SHEET (SDS)



SECTION I: MATERIAL IDENTIFICATION

PRODUCT NAME: Galvanized Steel
CHEMICAL FAMILY: Iron, Manganese, Chromium, Silicon, Nickel, Vanadium, Zinc
MANUFACTURER: Steel Dynamics, Inc., Butler, IN 46721
CONTACT ADDRESS: TufTile® 905 Telser Rd., Lake Zurich, IL 60047
PHONE: (888) 960-8897

SECTION II: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components: None in solid form
Composition: Iron (Fe), Manganese (Mn), Chromium (Cr), Silicon (Si), Nickel (Ni), Vanadium (V), Zinc (Zn)
Melting Temperature: 2750 Degrees Fahrenheit

SECTION III: PHYSICAL CHARACTERISTICS

Emergency Overview: This material is NOT HAZARDOUS by OSHA
Appearance and Odor: Solid Mass, No Odor
Specific Gravity: 7.80 g/cc
Freezing Point: N/A
Solubility in Water: N/A
% Volatile by Volume: N/A
Boiling Point: ND
pH: N/A

SECTION IV: FIRE AND EXPLOSION INFORMATION

Flammability: Non-flammable, non-combustible
Means of Extinction: N/A
Special Procedures: None
Explosion Data: None Known
Sensitivity of Mechanical impact: None
Hazardous Combustion: None Known
Auto ignition Temp: N/A
Sensitivity to Static: N/A

SECTION V: HEALTH HAZARD DATA

Permissible Exposure: N/A for product (See Section II above)

SECTION VI: REACTIVITY DATA

Chemical Stability: Steel products are stable under normal storage and handling conditions.
Reactivity: Not Determined (ND) for product in a solid form.

SECTION VII: SPILL OR LEAK PROCEDURES

Spill: None (Solid Mass Product)
Waste Disposal: Recycle or Recover if possible

SECTION VIII: PROTECTIVE EQUIPMENT TO BE USED:

Protective Gloves: Wear protective gloves / protective clothing
Eye Protection: Wear safety glasses with side shields when cutting tiles

SECTION IX: LEGAL DISCLAIMER

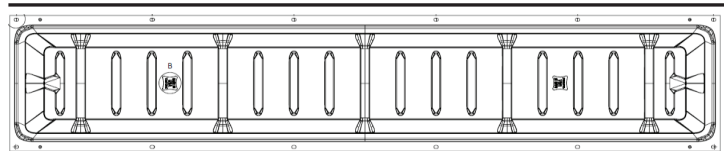
The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.



TACTILE WARNING DELINEATOR SURFACE-APPLIED INSTALLATION INSTRUCTIONS

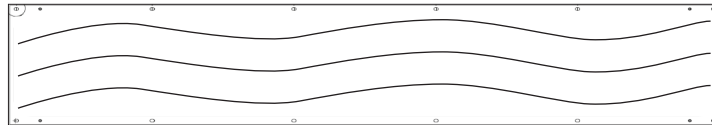
1. Read installation instructions thoroughly before you begin.
2. Surface must be clean and free of debris before beginning. A wire brush or cup grinder may be needed to address any imperfections.
3. Place Tactile Warning Delineator (Trapezoid) on surface where it is to be installed and mark one side. (Fig. 1) **Note: A chalk line is recommended to maintain a straight installation.**

Fig. 1



4. Remove and apply sealant to the back side of the Trapezoid. **Note: Use sealant according to manufacturers instructions.**

Fig. 2

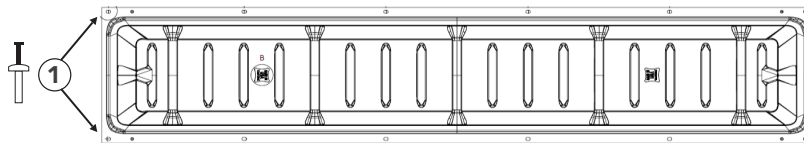


Important: When installing multiple linear Tactile Warning Delineators (Trapezoids), a 1/4" space is required.



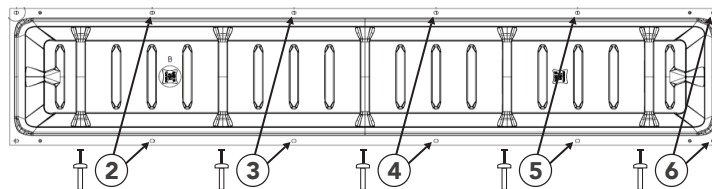
5. Place Trapezoid in marked location and drill 2 - 1/4" x 2" minimum deep holes and insert drive pin fasteners. (Fig. 3) **Note: Do not drive pins yet as these are to keep tile in place while drilling remaining holes.**

Fig. 3

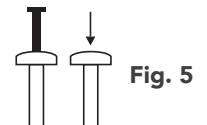


6. Continue drilling holes in all anchor locations moving across the Trapezoid. (Fig. 4) Once holes are drilled, clean the tile with a broom or blower before inserting remaining drive pins.

Fig. 4

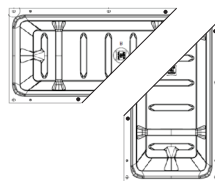


7. Insert drive pins and hammer them in moving down the Trapezoid in one direction. **Note: Hammer pin so that it is even with the head of the anchor.** (Fig. 5)



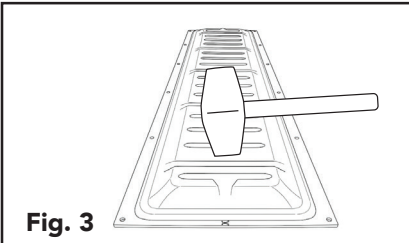
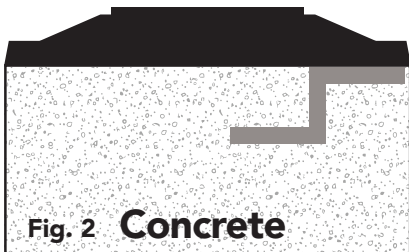
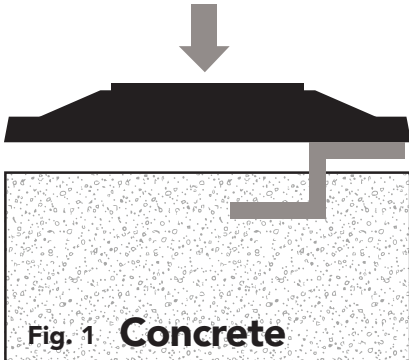
Important: If cutting is required, new holes need to be drilled and anchors inserted.

Installation is now complete



Click here for more information including an installation video tutorial. Contact us at 888-960-8897 with questions.

10 GAUGE GALVANIZED STEEL WET-SET TACTILE WARNING DELINEATOR (TWD) INSTALLATION INSTRUCTIONS

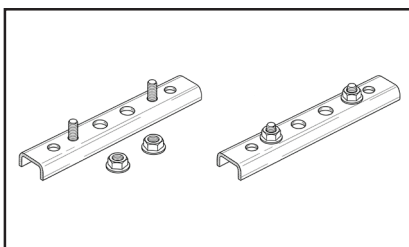


Read installation instructions thoroughly before you begin.
For Federal compliance documents [click here](#).

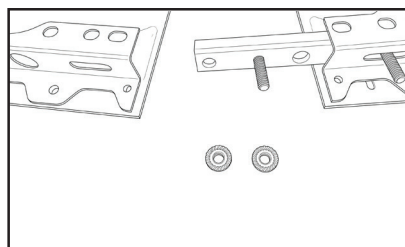
1. Be sure that concrete is compliant with ADA guidelines and engineer's specifications to ensure that proper installation can be achieved.
2. Slowly press the tile into concrete. **(Fig. 1 & 2) IMPORTANT: Do not stand on tile during installation.**
3. Using a rubber or wooden mallet, tap the entire surface of the tile to ensure consolidation around the anchors. **(Fig. 3) NOTE: Installing tiles after moisture is gone from the top will help control floating.**
4. Finish concrete to required specifications. **NOTE: Do not stand or walk on tile until concrete is fully cured.**

Installation is now complete.

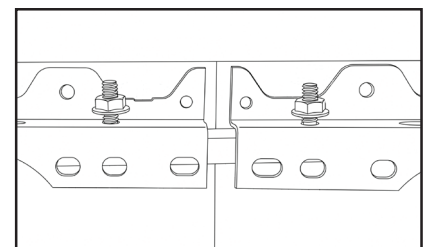
CONNECTING UNITS



In a wet-set installation multiple units can be butted together OR connected. A connector, sold separately is available.



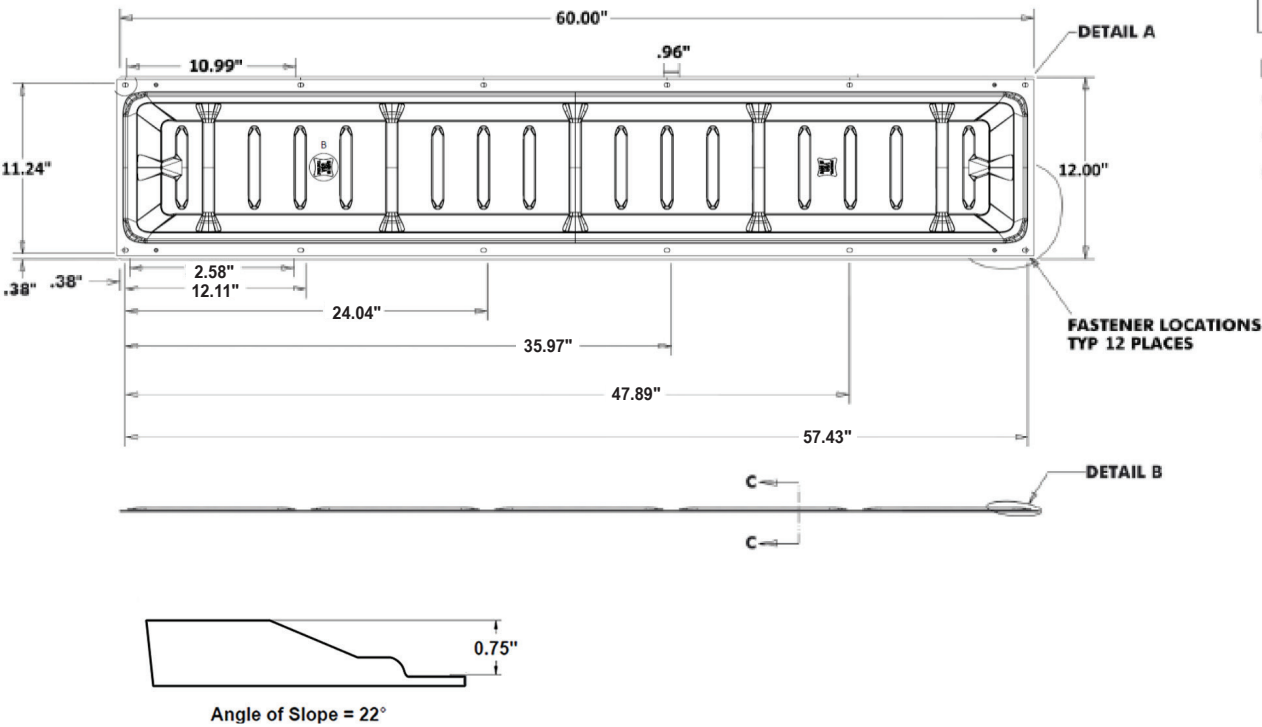
Insert connector into the Z-Bracket anchor on one unit. Butt the next unit inserting connector with bolts protruding as shown.



Attach nuts to bolts and tighten.

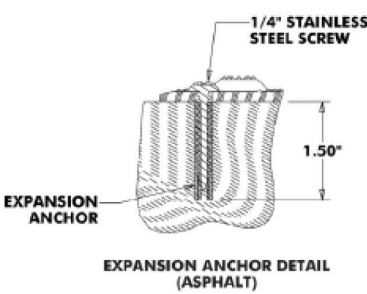
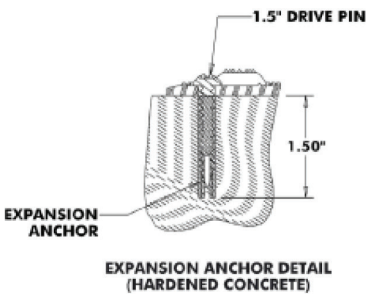
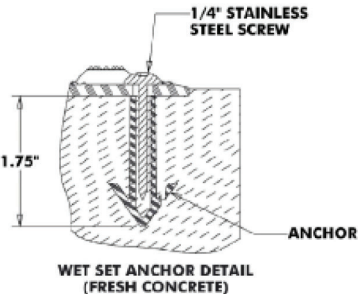
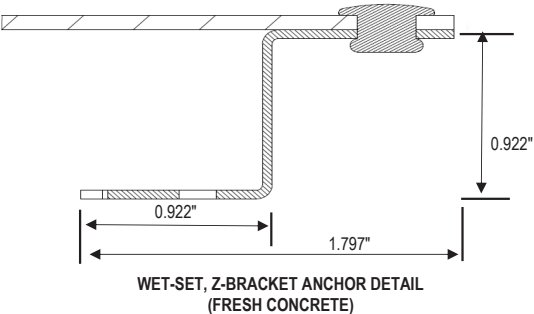
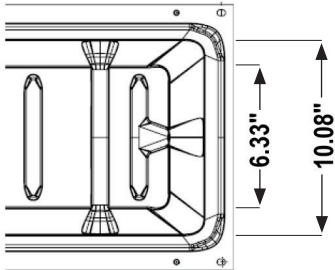
[Click here](#) for more information including an installation video tutorial. Contact us at 888-960-8897 with questions.

12" X 60" X 10 GA (REPLACEABLE)
GALVANIZED STEEL TACTILE WARNING DELINEATOR



DRW NO	DEL126010-XX-YYY	REVISED	
TOLERANCE	+/- 0.050	SCALE	REV 1 DATE 1/1/2026

NOTES:
"XX" WS DESIGNATES WET SET
"XX" SA DESIGNATES SURFACE APPLIED
"YYY" DESIGNATES COLOR



BUY AMERICA ACT CERTIFICATION

By law, America manufactured products must be used in all Federal Transportation projects and all state and local government projects that use Federal Transportation funds.

The Buy America provision of the law explicitly requires steel, cast iron, and polymer-based products manufactured in United States mills, foundries, and other production facilities are used in Federal Transportation infrastructure projects. Under the various "Buy America" definitions, the following are those that we comply with:

- American Recovery and Reinvestment Act of 2009, Section 1605 – Buy America Act
- Infrastructure Investment and Jobs Act (IIJA; P.L. 117-58) November 2021
- Federal Highway Administration, 23 U.S.C. § 313 – Buy America; 23 C.F.R. § 635.410
- Federal Transit Administration, 49 U.S.C. § 5323(j)(1); 49 C.F.R. Part 661
- Federal Aviation Administration, 49 U.S.C. §50101

TufTile galvanized steel, cast iron, and polymer detectable warning tiles and radius-wedges are manufactured in the United States from United States made materials in accordance with Buy America, 23 C.F.R § 635.410 requirements.

A handwritten signature in cursive script that reads "Ted Meyers".

Ted Meyers
President

GALVANIZED STEEL 10-YEAR LIMITED WARRANTY

TufTile, Inc. values your business, and the TufTile, Inc. tactile galvanized steel tile (the "product") you purchased comes with a limited warranty that the product will be free from defects for a period of ten years from date of installation subject to ordinary wear and tear. Further, TufTile warrants the product will not rust for 10 years. Failure to comply with recommended applications and installation of the product voids this warranty. Customer misuse including negligence, physical abuse and defects resulting from improper installation or resulting from outside forces (including, but not limited to, snow plows causing damage) are not covered by this warranty. Modifying galvanized tiles by way of cutting the tile may expose the cut edge area to rust. Modified tiles however, will remain structurally sound and cutting tiles will not impact the lifespan of the tile. Also, the rust at the exposed edge of the tile will not migrate under the powder coat finish. For modified (cut) tiles, TufTile's no-rust warranty remains in effect except at the tile edge. Local building codes may require minimum tactile tile performance specifications, and TufTile, Inc. does not warrant product installations that violate building codes. While within the limited warranty period, if the product is not in good working order for its intended purposes, a replacement product shall be made available to the purchaser of the product. Purchaser's remedy is limited to replacement of the product and no consequential or incidental damages and costs (including, but not limited to, lost profits, labor or transportation costs in connection with the removal, replacement and installation of the product) are recoverable or within the coverage of this limited warranty. Any representations made in connection with the sale of this product that differ from the terms of this limited warranty are not covered and should be brought to the attention of TufTile, Inc. immediately. No claim for replacement of a defective product will be honored without TufTile, Inc.'s reservation of its right to inspect the product for the claimed defect and its determination that the replacement of the product is covered by this warranty. The term of this limited warranty shall commence on the date of installation. Proof of purchase shall be required to be eligible for this warranty and to establish the commencement date of this limited warranty. No warranty replacement of the product is provided unless the purchaser's written replacement claim is submitted to TufTile, Inc. before the expiration of ten years from the date of installation of the product.

TO THE MAXIMUM EXTENT APPLICABLE AND ALLOWABLE UNDER LAW, THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE FACE OF THE TUFTILE INC. LIMITED WARRANTY, AND TUFTILE INC. DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, REGARDING THE PRODUCT, INCLUDING ANY IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR NON-INFRINGEMENT. TO THE MAXIMUM EXTENT ALLOWABLE BY FEDERAL AND STATE LAW, THIS WARRANTY SUPPLEMENTS OR SUPERSEDES FEDERAL AND STATE CONSUMER GOODS WARRANTY PRO