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800.372.0519

**SURFACE APPLIED**  
**Product Submittal**

Wherever you go...  
There we are®



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## Detectable Warning Surface products by ADA Solutions meet the following requirements:

- American Barriers Act (ABA) Accessibility Standards
- ADA Accessibility Guidelines (ADAAG)
- Department of Transportation ADA Standards for Transportation Facilities (2006)
- Department of Justice ADA Standards (2010)
- Public Rights-of-Way Accessibility Guidelines (PROWAG)
- California Building Standards Code, Title 24, California Code of Regulations
- Texas Accessibility Standards (TAS) 2012
- AASHTO M 333 Standard Specification for Detectable Warning Surfaces
- International Code Council (ICC) A117.1 Accessible and Usable Buildings and Facilities



Surface Applied / Retrofit	Item ID	Dome Spacing	Part Wgt (lb)	Pcs/Box	Box Wgt	Pcs/Pallet	Pallet Wgt
1'x1' Short Edge	1212RET	2.40" x 2.40"	2	-	-	-	-
2'x2' Short Edge	2424RET	2.40" x 2.40"	8.5	160	1,500	160	1,500
2'x3'	2436RET	2.40" x 2.28"	11.5	112	1,350	112	1,350
2'x4'	2448RET	2.40" x 2.28"	15	80	1,350	80	1,350
2'x5'	2460RET	2.40" x 2.28"	19	80	1,675	80	1,675
3'x4'	3648RET	2.40" x 2.40"	25	50	1,325	50	1,325
3'x5'	3660RET	2.40" x 2.40"	30.5	50	1,700	50	1,700
Radius 2'x2.7'	24RADRET	2.40" x Radial	9.5	112	1,150	112	1,150

# STANDARD COLOR OPTIONS

ADA's lineup of superior quality, heavy-duty fiberglass polymer composite detectable warning surface tiles are UV stable with homogeneous color throughout the entire panel.

WHITE  
27925

BRICK  
RED  
20109

YELLOW  
33538

BLUE  
15187

SAFETY  
RED  
31350

SEATTLE  
YELLOW  
23594

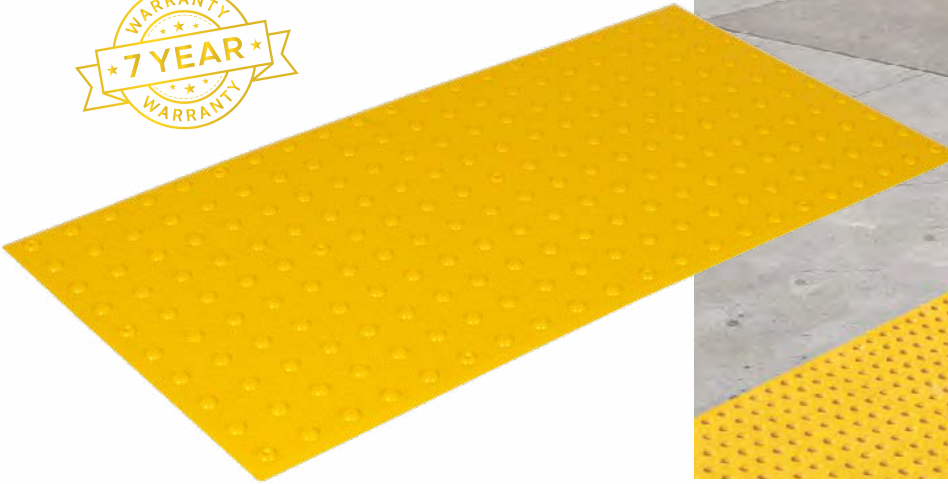
BLACK  
37038

DARK  
GRAY  
36118

CLAY  
RED  
22144

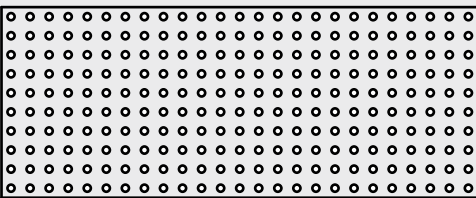
# SURFACE-APPLIED / RETROFIT

**Surface-Applied Detectable Warning Surface Panels** are designed for retrofitting to existing concrete surfaces. When the pedestrian facility is in full compliance with ADA requirements and all that is required is the addition of a truncated dome surface, the Surface-Applied panel is the perfect product. Fully ADA-compliant, the SA panels are manufactured with high-grade fiberglass reinforced polyester-based composite material and are available in a wide range of panel sizes.

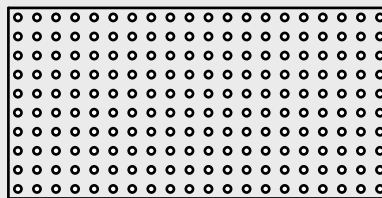


## PANEL SIZES

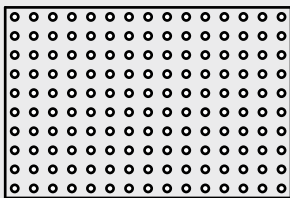
24" x 60"



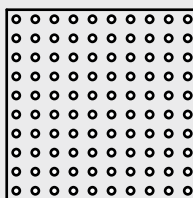
24" x 48"



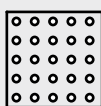
24" x 36"



24" x 24"

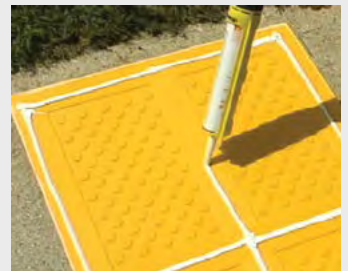


12" x 12"

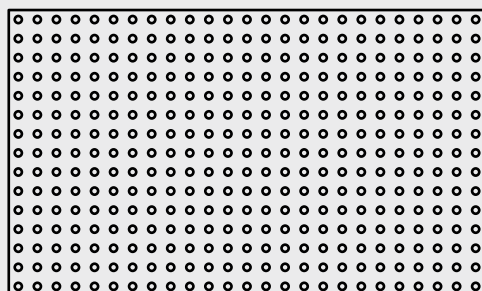


24" width meets minimum ADA requirements

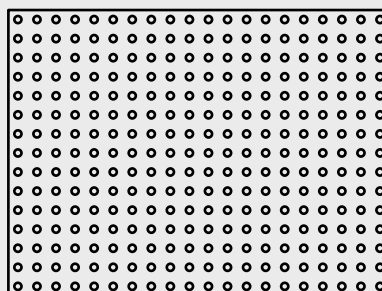
36" width meets minimum California Building Code requirements



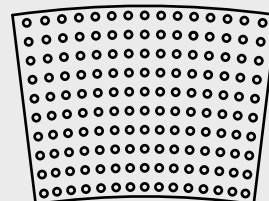
36" x 60"



36" x 48"



24" x 33"



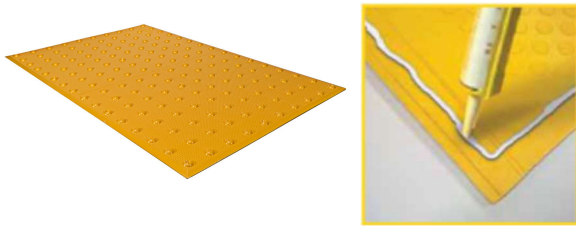
Radius

Radius Replaceable panels are best option rounded corner curb ramp (blended transitions) and can be field mitered to fit between 8' and 20' radius.



**Manufacturer:**

**ADA Solutions, a Division of SureWerx USA Inc.**  
149 South Cucumber Street  
Jefferson, Ohio 44047  
Phone: 800-372-0519  
Fax: 978-262-9125  
Web: adatile.com



**Description:** Surface Applied Detectable Warning Surface Panels (SA) with an in-line truncated dome pattern for existing cured concrete installations at pedestrian crossings, boarding platforms, and rail crossing locations.

**Compliance:** SA Panels are compliant with the following guidelines and requirements:

- American Barriers Act (ABA) Accessibility Standards
- ADA Accessibility Guidelines (ADAAG)
- Department of Transportation ADA Standards for Transportation Facilities (2006)
- Department of Justice ADA Standards (2010)
- Public Rights-of-Way Accessibility Guidelines (PROWAG)
- California Building Standards Code, Title 24, California Code of Regulations
- Texas Accessibility Standards (TAS) 2012
- AASHTO M 333 Standard Specification for Detectable Warning Surfaces
- International Code Council (ICC) A117.1 Accessible and Usable Buildings and Facilities

**Material:** SA Panels are manufactured using a matte finish exterior grade homogeneous (uniform color throughout thickness of product) glass and carbon reinforced polyester-based sheet molding compound (SMC) composite material.

**Warranty:** Guaranteed in writing for a period of seven (7) years from date of Contract's final completion. The guarantee includes manufacturing defects, breakage, and deformation.

**PRODUCT DATA SHEET:**

SECTION 32 17 26 – TACTILE WARNING SURFACING  
DETECTABLE WARNING SURFACE PANELS  
SURFACE APPLIED (RETROFIT)

**Panel Sizes:**

- 12" x 12" (304.8 x 304.8 mm)
- 24" x 24" (609.6 x 609.6 mm)
- 24" x 36.65" (609.6 x 930.9 mm)
- 24" x 48.65" (609.6 x 1235.7 mm)
- 24" x 60.65" (609.6 x 1540.5 mm)
- 36" x 48.65" (914.4 x 1235.7 mm)
- 36" x 60.65" (914.4 x 1540.5 mm)

**Radius Panels**

- 24" x 33.25" (609.6 x 844.5 mm)
- \*Radius options between 6 ft (1.82 m) and 21 ft (6.40 m)

**Colors:** Color shall be single, homogeneous color throughout panel

- Federal Yellow FS No. 33538
- Brick Red FS No. 20109
- Clay Red FS No. 22144
- Safety Red FS No. 31350
- Black FS No. 37038
- Dark Gray FS No. 36118
- Safety Blue FS No. 15187
- White FS No 27925
- Seattle Yellow FS No 23594

**Domes:** Raised truncated domes of 0.2" (5.0 mm) nominal height, base diameter of 0.9" (22.8 mm) and top diameter of 0.45" (11.4 mm).

**Dome Spacing:** Standard rectangular panels have 2.35" (59.6 mm) or 2.4" (60.9 mm) dome spacing in square grid pattern. Radius panels have 1.67" to 2.4" (40.6-60.9 mm) dome spacing in radial pattern. ADA Standards and Public Rights-of-Way Accessibility Guidelines require truncated dome spacing range of 1.6"-2.4" (40.6-60.9 mm).

**Anchoring:** SA Panels have minimum twelve (2'x3' panel) to twenty-four (3'x5' panel) countersunk fastening holes. Color matched, stainless steel 304, flat head drive anchors (1/4" diameter x 1 1/2" long) are installed at factory provided locations.

**Installation:** SA panels are adhered to substrate with factory supplied structural adhesive in addition to mechanical anchors. A continuous bead of adhesive is to be applied around the perimeter of the panel.

**Cutting:** Cutting panels can be cut to size using a 60-tooth carbide blade on a table saw or equivalent cutting device.

# PRODUCT DATA SHEET:

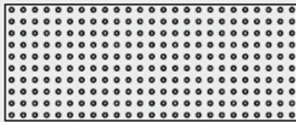
## SECTION 32 17 26 – TACTILE WARNING SURFACING DETECTABLE WARNING SURFACE PANELS SURFACE APPLIED (RETROFIT)

### Product Testing and Physical Properties:

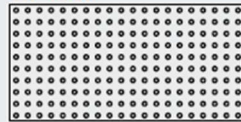
Standard	Standard Description	Value
ASTM D695	Compressive Strength	28,900 psi minimum
ASTM D790	Flexural Strength	29,300 psi minimum
ASTM D 638	Tensile Strength	11,600 psi minimum
ASTM C 1028	Standard Test Method for Determining the Static Coefficient of Friction (Slip Resistance)	1.18 Dry / 1.05 Wet
AS HB198:2014 (AS/NZS 4586)	Pendulum Sustainable Slip Resistance (SSR)	Pendulum Test Value (PTV), with Four S (96) hard rubber slider: 56 Dry / 44 Wet; After 500 cycles of abrasion: 34 Wet
ASTM C501	Abrasion Resistance	Minimum 500
FM 5-594	Abrasion Resistance, Florida Method	Average Volume Loss: no more than 0.03 cm <sup>3</sup>
NTPEP TP103 (2015)	High Temperature Thermal Cycling Exposure, (Sect 14) and Resistance to Impact from Falling Tup (Sect 10)	Min. 60 thermal cycles at 200°F (93.33°C) = maximum damage classification of 'C' at 20 ft-lb impact
ASTM G155	Accelerated Weathering	ΔE<5.0 at 2,000 hours min.
ASTM D570	Water Absorption	0.07%
ASTM C1026	Freeze/Thaw/Heat	No deterioration
ASTM D1037	Freeze/Thaw	No deterioration
ASTM D543	Chemical Stain Resistance	No reaction
ASTM D1308	Chemical Stain Resistance	No reaction
ASTM-B117	Salt and Spray	No change after 200 hours
ASTM E84	Flame Spread Index	20
AASHTO H20	Load Bearing Test	No Damage at 16,000 lbs.

### PANEL SIZES

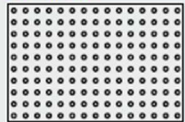
24" x 60"



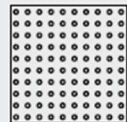
24" x 48"



24" x 36"



24" x 24"



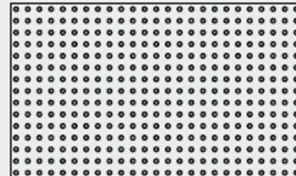
12" x 12"



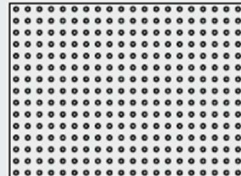
24" width meets minimum ADA requirements

36" width meets minimum California Building Code requirements

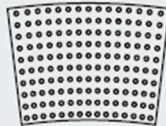
36" x 60"



36" x 48"



24" x 33"



Radius

Radius Replaceable panels are best option rounded corner curb ramp (blended transitions) and can be field mitered to fit between 8' and 20' radius.



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## **SECTION 32 17 26 – TACTILE WARNING SURFACING**

### **DETECTABLE WARNING SURFACE PANELS SURFACE APPLIED**

#### **SECTION 1 – GENERAL**

##### **1.1 DESCRIPTION**

- A. This Section includes Specifications for furnishing and installing Surface Applied Detectable Warning Surface Panels (SA) with an in-line truncated dome pattern surface applied to existing concrete walkways at pedestrian crossings, boarding platforms, and rail crossing locations to the dimensions shown on the Drawings, in accordance with the Contract Documents and as directed by the Engineer.

##### **1.2 RELATED DOCUMENTS**

- A. Drawings and general provisions of Contract, including General and Special Conditions and Division 1 Specifications Section, apply to this Section.
- B. Department of Justice ADA Standards (2010)
- C. Department of Transportation ADA Standards for Transportation Facilities (2006)
- D. Proposed Guidelines for Accessible Public Rights-of-Way (2011)
- E. California Title 24
- F. ISO 23599:2019-01 – Assistive products for blind and vision-impaired persons — Tactile walking surface indicators
- G. ISO 21542:2011 – Building Construction – Accessibility and Usability of the Built Environment
- H. ISO 9001 – Certificate No. 0502011, ISO 1409 and ISO/B 16949 Certified Manufacturing Facility located in Jefferson, Ohio
- I. Accessibility for Ontarians with Disabilities Act - (AODA)
- J. Canadian Standards Association – (CSA)

##### **1.3 SUBMITTALS**

- A. Product Data Sheet: Submit ADA Solutions literature describing products, installation procedures and routine maintenance.
- B. Samples for Verification Purposes: Submit two (2) detectable warning surface panel samples. Samples shall be properly labeled and shall contain the following information: Name of Project, Submitted By, Date of Submittal, and Manufacturer's Name.
- C. Shop Drawings: Submit the Standard Manufacturer Shop Drawings showing all pertinent characteristics of the Surface Applied Detectable Warning Surface Panels (SA) including profile, panel surface profile, plans of panel placement including joints, and material to be used as well as outlining installation materials and procedures.

- D. Material Test Reports: Submit all completed current test results from qualified, accredited independent testing laboratories by ASTM and UL/Canada guidelines and indicating that materials proposed for use follow specification requirements and meet or exceed the properties indicated on these specifications.
- E. Maintenance Instructions: Submit copies of the manufacturer’s specified installation and maintenance practices for each type of Detectable Warning Surface panels and accessories as required.

**1.4 QUALITY ASSURANCE**

- A. Provide Surface Applied Detectable Warning Surface Panels (SA) and accessories as produced by a single manufacturer with a minimum of five years of experience in manufacturing Surface Applied Detectable Warning Surface Panels.
- B. Installer’s Qualifications: Engage an experienced installer certified in writing by Surface Applied Detectable Warning Surface Panel (SA) manufacturer as qualified for installation, who has completed installations similar in material, design, and extent to that indicated for the Contract.
- C. Surface Applied Detectable Warning Surface Panels (SA) must be compliant with the following guidelines and requirements (applicability may be dependent on project location):
  - 1. American Barriers Act (ABA) Accessibility Standards
  - 2. ADA Accessibility Guidelines (ADAAG)
  - 3. Department of Transportation ADA Standards for Transportation Facilities (2006)
  - 4. Department of Justice ADA Standards (2010)
  - 5. Public Rights-of-Way Accessibility Guidelines (PROWAG)
  - 6. California Building Standards Code, Title 24, California Code of Regulations
  - 7. Texas Accessibility Standards (TAS) 2012
  - 8. AASHTO M 333 Standard Specification for Detectable Warning Surfaces
  - 9. International Code Council (ICC) A117.1 Accessible and Usable Buildings and Facilities
- D. Surface Applied Detectable Warning Surface Panels (SA) shall meet or exceed the following test criteria using the most current test methods:

<b>Standard</b>	<b>Standard Description</b>	<b>Value</b>
ASTM D695	Compressive Strength	28,900 psi minimum
ASTM D790	Flexural Strength	29,300 psi minimum
ASTM D 638	Tensile Strength	11,600 psi minimum
ASTM C 1028	Standard Test Method for Determining the Static Coefficient of Friction (Slip Resistance)	1.18 Dry / 1.05 Wet
AS HB198:2014 (AS/NZS 4586)	Pendulum Sustainable Slip Resistance (SSR)	Pendulum Test Value (PTV), with Four S (96) hard rubber slider: 56 Dry / 44 Wet; After 500 cycles of abrasion: 34 Wet
ASTM C501	Abrasion Resistance	Minimum 500
FM 5-594	Abrasion Resistance, Florida Method	Average Volume Loss: no more than 0.03 cm <sup>3</sup>
NTPEP TP103 (2015)	High Temperature Thermal Cycling Exposure, (Sect 14) and Resistance to Impact from Falling Tup (Sect 10)	Min. 60 thermal cycles at 200°F (93.33°C) = maximum damage classification of ‘C’ at 20 ft-lb impact
ASTM G155	Accelerated Weathering	ΔE<5.0 at 2,000 hours min.
ASTM D570	Water Absorption	0.07%

ASTM C1026	Freeze/Thaw/Heat	No deterioration
ASTM D1037	Freeze/Thaw	No deterioration
ASTM D543	Chemical Stain Resistance	No reaction
ASTM D1308	Chemical Stain Resistance	No reaction
ASTM-B117	Salt and Spray	No change after 200 hours
ASTM E84	Flame Spread Index	20
AASHTO H20	Load Bearing Test	No Damage at 16,000 lbs.

E. Stamped concrete, polymer concrete, concrete pavers/tile, or brick products are not acceptable for use on this project.

**1.5 DELIVERY, STORAGE AND HANDLING**

- A. Surface Applied Detectable Warning Surface Panels (SA) shall be suitably packaged or crated to prevent damage in shipment and handling. Finished surfaces shall be protected by sturdy plastic wrappings to protect the panel from concrete residue during installation.
- B. Surface Applied Detectable Warning Surface Panels (SA) shall be delivered to a location at the building site for storage before installation. Store panels in an area that is within an acceptable temperature range 40°F - 90°F (4°C - 32°C) and maintain the storage facility in a clean, dry condition to prevent contamination or damage to the panels.

**1.6 SITE CONDITIONS**

- A. Environmental Conditions and Protection: Maintain a minimum temperature of 40°F (4°C) in spaces to receive Surface Applied Detectable Warning Surface Panels (SA) for at least 24 hours before installation, during installation, and for not less than 24 hours after installation.
- B. The use of water for work, cleaning, or dust control, etc. shall be contained and controlled and shall not be allowed to come in to contact with the general public. Provide barricades or screens to protect pedestrians.

**1.7 MANUFACTURER’S WARRANTY**

- A. Surface Applied Detectable Warning Surface Panels (SA) shall be guaranteed in writing for a period of seven (7) years from date of Contract’s final completion. The guarantee includes manufacturing defects, breakage, and deformation.

**1.8 INSTALLATION WARRANTY**

- A. Surface Applied Detectable Warning Surface Panels (SA) installation shall be warranted in writing for two (2) years by the installer. Products must be guaranteed from defective work and loosening of panels.

**SECTION 2 – PRODUCTS**

**2.1 MANUFACTURERS**

- A. Surface Applied Detectable Warning Surface Panels (SA) by ADA Solutions, 149 South Cucumber Street, Jefferson, Ohio 44047. Toll-Free: 800-372-0519, [sales@adatile.com](mailto:sales@adatile.com), [www.adatile.com](http://www.adatile.com).
- B. Panel Sizes

1. Rectangular Panels with 2.35" (59.6 mm) or 2.4" (60.9 mm) dome spacing in square grid pattern

- a. 12" x 12" (304.8 x 304.8 mm)
- b. 24" x 24" (609.6 x 609.6 mm)
- c. 24" x 36.65" (609.6 x 930.9 mm)
- d. 24" x 48.65" (609.6 x 1235.7 mm)
- e. 24" x 60.65" (609.6 x 1540.5 mm)
- f. 36" x 48.65" (914.4 x 1235.7 mm)
- g. 36" x 60.65" (914.4 x 1540.5 mm)

2. Radius Panels 1.67" to 2.4" (40.6-60.9 mm) dome spacing in radial pattern

- a. 24" x 33.25" (609.6 x 844.5 mm)
- b. Radius options between 6 feet (1.82 m) and 21 feet (6.40 m)

C. Existing engineered and field-tested products, which have been in successful service for five (5) years are subject to specification compliance, may be incorporated in the project and shall meet or exceed the specified test criteria and characteristics. Requests for Approved Equal status must be submitted and approved by the Owner before the Tender Phase of the project.

## 2.2 MATERIALS

A. Composition: Surface Applied Detectable Warning Surface Panels (SA) shall be manufactured using a matte finish exterior grade homogeneous (uniform color throughout thickness of product) glass and carbon reinforced polyester based Sheet Molding Compound (SMC) composite material. Truncated domes must contain fiberglass reinforcement within the truncated dome for superior structural integrity and impact resistance. A matte finish will be required on the Tactile Warning Surface for superior slip resistance performance superior to that offered by a gloss finish. Use of Tactile Warning Surface Products employing coatings or featuring layers of material with differing composition, performance, or color properties is expressly prohibited under this Section.

B. Color: Color shall be single, homogeneous color throughout panel

- 1. Federal Yellow (Y), Federal Standard Color No. 33538
- 2. Brick Red (R), Federal Standard Color No. 20109
- 3. Clay Red (CR) Federal Standard Color No. 22144
- 4. Safety Red (SR) Federal Standard No. 31350
- 5. Black (B) Federal Standard Color No. 37038
- 6. Dark Gray (G) Federal Standard Color No. 36118
- 7. Safety Blue (B) Federal Standard Color No. 15187
- 8. White (W) Federal Standard Color No 27925
- 9. Seattle Yellow (SY) Federal Standard Color No. 23594

C. Domes: Raised truncated domes of 0.2" (5.0 mm) nominal height, base diameter of 0.9" (22.8 mm) and top diameter of 0.45" (11.4 mm). ADA Standards and Public Rights-of-Way Accessibility Guidelines require truncated dome spacing range of 1.6"-2.4" (40.6-60.9 mm).

[Designer Note: For superior wheelchair, walker and shopping cart mobility, the preferred truncated dome spacing shall have a center-to-center (horizontally and vertically) spacing of nominal 2.35" (59.6 mm), measured between the most adjacent domes on square grid.]

- D. Truncated dome surface of SA panels shall be protected with factory installed plastic sheeting for cleanliness during the installation process. Basic Installation Guidelines shall be printed on the plastic sheeting in both English and Spanish for customer convenience.
- E. Fasteners: Surface Applied Detectable Warning Surface Panels (SA) shall have minimum twelve (2'x3' Tactile Warning Surface Tile) to twenty-four (3'x5' Tactile Warning Surface Tile) countersunk fastening holes. Color matched, stainless steel 304, flat head drive anchor: ¼" diameter x 1 1/2" long.
- F. Adhesive:
  - 1. M-1 Polyether Structural Adhesive/Sealant by Chem Link
  - 2. Urethane Elastomeric Adhesive by Bostik (Hydroment Ultra-Set Advanced or Durabond D-818)
  - 3. Approved equal
- G. Sealants:
  - 1. Single Component Urethane Sealant:
    - a. Sources: BASF NP1 by BASF Building Systems or Sikaflex 1A by Sika Corp.
    - b. Colors: Black, Limestone, Redwood Tan
  - 2. Polyether Structural Adhesive/Sealant by Chem Link (M-1)
    - a. Colors: Black, Gray, Limestone, White
    - b. Approved Equal
- H. Cleaning materials used on site shall have code acceptable low VOC solvent content and low flammability.
- I. The specifications of the concrete, sealants and related materials shall be in accordance with the Contract Documents and the guidelines set by their respective manufacturers.

## **SECTION 3 – EXECUTION**

### **3.1 PREPARATION**

- A. The concrete shall be poured and finished, true and smooth to the required dimensions and slope prior to Surface Applied Detectable Warning Surface Panels (SA) placement.

### **3.2 EQUIPMENT**

- A. Contractor shall provide all tools, equipment, and services required for satisfactory installation per manufacturer's instruction as Incidental Work. Equipment which may be required include typical mason's tools, a 4-foot level with electronic slope readout, 25 lb. (11.4 kg) weights, and tools for cutting the Detectable Warning Surface Panels.

### **3.3 INSTALLATION**

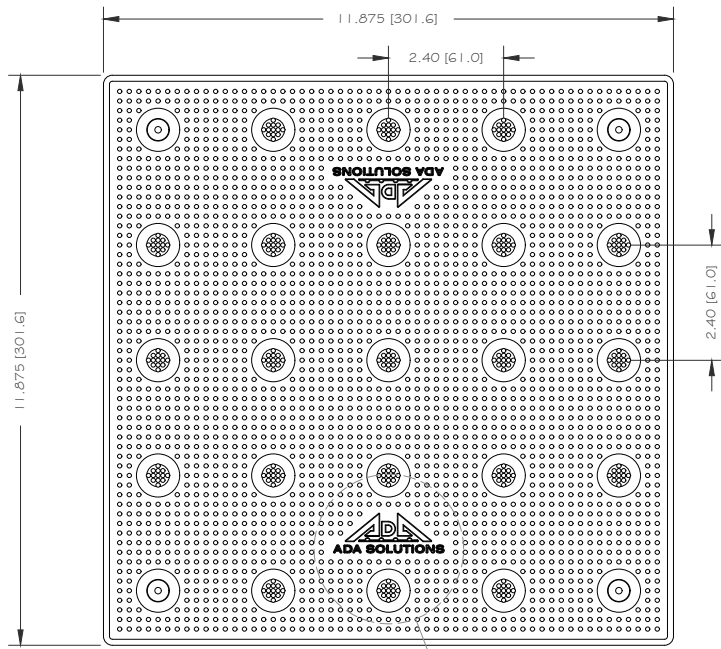
- A. Contractor will not be allowed to install panels until all submittals have been reviewed and approved by the Engineer. Panels shall be installed per manufacturer's instructions.
- B. To the maximum extent possible, the panels shall be oriented such that the rows of in-line truncated domes are parallel with the direction of the ramp. When multiple panels regardless of size are used, the truncated domes shall be aligned between the panels and throughout the entire tactile warning surface installation.
- C. In accordance with the Proposed Accessibility Guidelines for Pedestrian Facilities in the Public Rights of Way 2011, panels shall be located relative to the curb line as shown within Sections 304 and 305 of the Guidelines.

- D. Cutting of panels may be required to accommodate specific site conditions. All possible attempts shall be made to minimize cutting of the panels. Minimum acceptable width of the cut panel shall be 9”.
- E. For proper curing of adhesive and sealant, air and substrate temperatures must maintain a minimum temperature of 40°F (4°C) for at least 8 hours after installation of panels.
- F. Verify that substrate is flat across application area of panel. Field grinding of concrete may be required to remove high spots and assure a flat substrate is achieved prior to panel installation.
- G. Prior to application of adhesive to concrete substrate, remove any residual contamination by mechanical abrasion, sand blasting, or power washing. On green concrete, remove all release agents, friable and loose concrete. Dry all visible and standing water prior to applying adhesive.
- H. Clean the bottom side of the panel with acetone on a clean rag. Wipe around the perimeter and along the internal cross pattern to remove any dirt or dust particles from the area to receive the adhesive.
- I. Apply minimum 3/8” (9.5 mm) bead of adhesive on the backside of panel continuous along both perimeter and interior flat frame surface.
  - 1. For superior adhesion and panel support in high traffic areas, a full coverage of adhesive may be desired
- J. Set the panel(s) true and square to the curb ramp areas as detailed in the Drawings. Allow 1/8” separation between successive panels for expansion/contraction.
- K. Drill ¼” (6.35 mm) holes to a depth of 2” (50.8 mm) at all fastener locations provided in top of panel. Additional attachment locations may be required at the perimeter of cut panels or as needed to properly secure panel to substrate. Locate new holes through center of truncated domes using a 5 point ½” (12.7 mm) x 82 degree countersink drill bit.
- L. Mechanically fasten panels to the concrete substrate using manufacturer supplied composite sleeve anchors with stainless steel drive pins. Ensure that the fastener has been set to full depth, straight and true. Care should be taken when setting the fastener to avoid striking the surface of the panel.
- M. Apply a continuous bead of sealant around the perimeter edge the installed panel.
- N. Do not allow foot traffic on installed panel until the perimeter edge sealant has fully cured.

### **3.4 CLEANING AND PROTECTING**

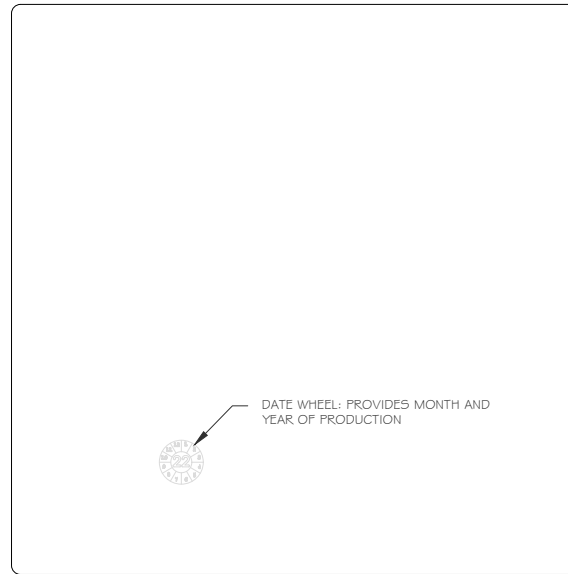
- A. Protect panels against damage during construction period to comply with panel manufacturer’s Specifications.
- B. Remove strippable protective film from panel within 24 hours of installation of the panel. Note that hot temperatures and excess exposure to sunlight can cause protective film to permanently adhere to panels surface.
- C. If requested by the Project Manager, clean panels not more than four (4) days prior to date scheduled for inspection intended to establish date of substantial completion in each area of project. Clean panel by method specified by Detectable Warning Surface panel manufacturer.

**END OF SECTION** (Updated 10/17/2025)

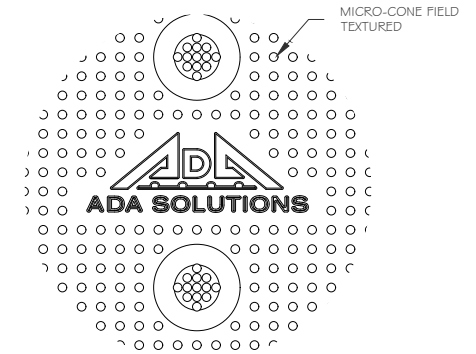


TOP VIEW

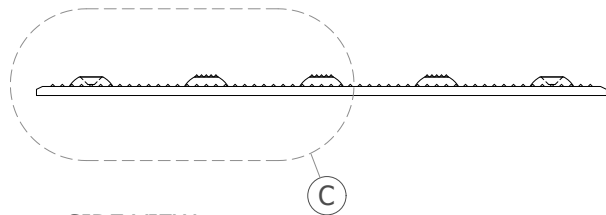
A AA



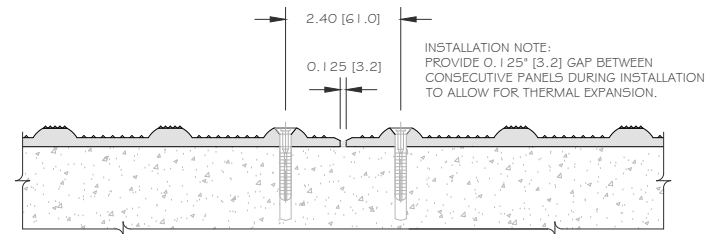
BOTTOM VIEW



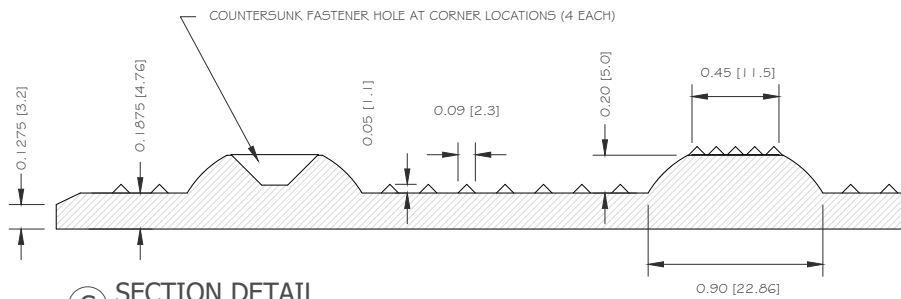
A LOGO DETAIL



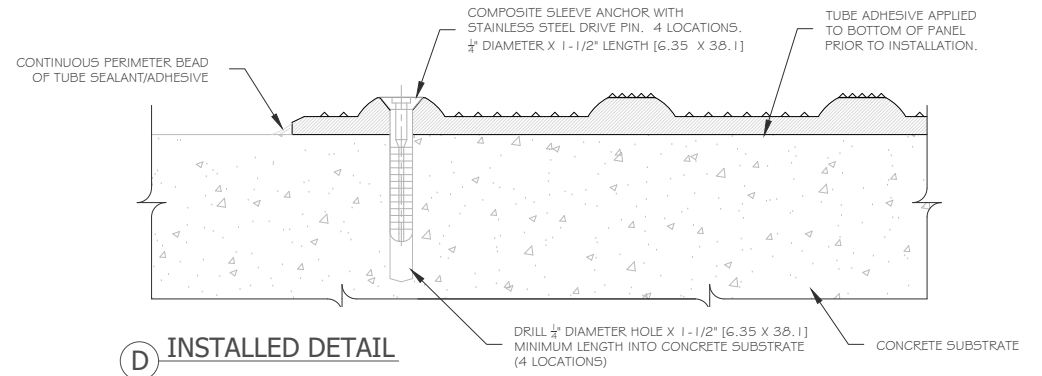
AA SIDE VIEW



B INSTALLATION IN SERIES



C SECTION DETAIL



D INSTALLED DETAIL

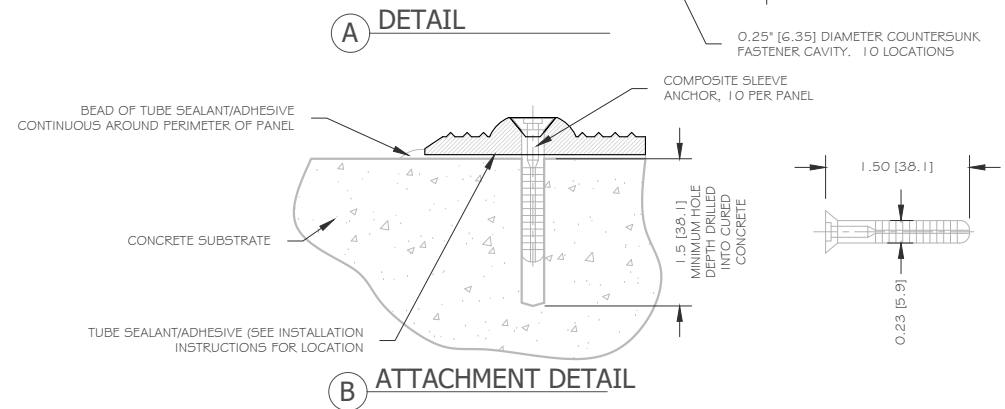
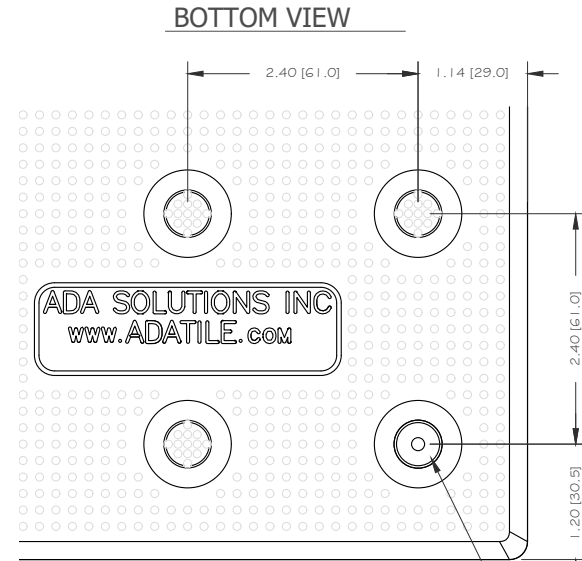
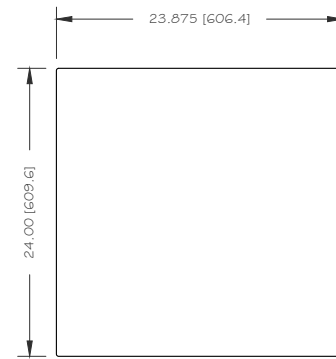
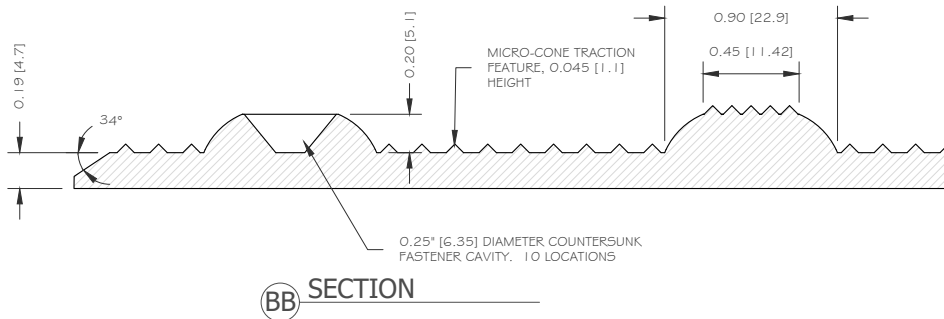
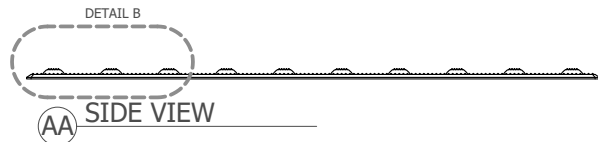
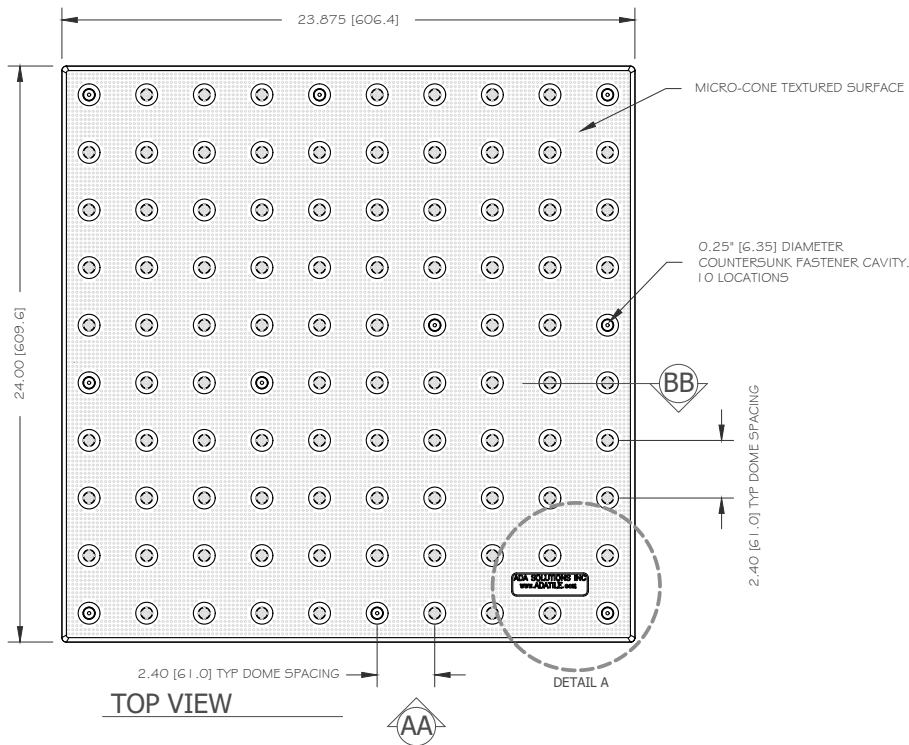
DETECTABLE WARNING SURFACE PANEL  
**12" x 12" Surface Applied DWS Tile**  
 PART SIZE: 11.875" (301.62 MM) X 11.875" (301.62 MM)  
 2.40" (60.96 MM) IN-LINE TRUNCATED DOME SPACING

DIVISION  
 TACTILE WALKING SURFACE INDICATORS  
 MATERIAL  
 FIBERGLASS REINFORCED POLYMER COMPOSITE SMC  
 DRAWING NUMBER  
 ADA-DWS1212 Surface Applied

DATE  
 2022-06-10  
 DRAWING UNITS  
 INCHES [MM]

WEBSITE  
 ADATILE.COM  
 PHONE  
 1-800-372-0519  
 EMAIL  
 INFO@ADATILE.COM





DETECTABLE WARNING SURFACE PANEL  
**Surface Applied Panel 24 x 24**  
 PART SIZE: 24" (609.6 MM) X 23.875" (606.4 MM)  
 2.40" (60.96 MM) IN-LINE TRUNCATED DOME SPACING

DIVISION  
 TACTILE WALKING SURFACE INDICATORS

MATERIAL  
 FIBERGLASS REINFORCED POLYMER COMPOSITE SMC

DRAWING NUMBER  
 ADA-SURFAPP2424

DATE  
 2023-08-24

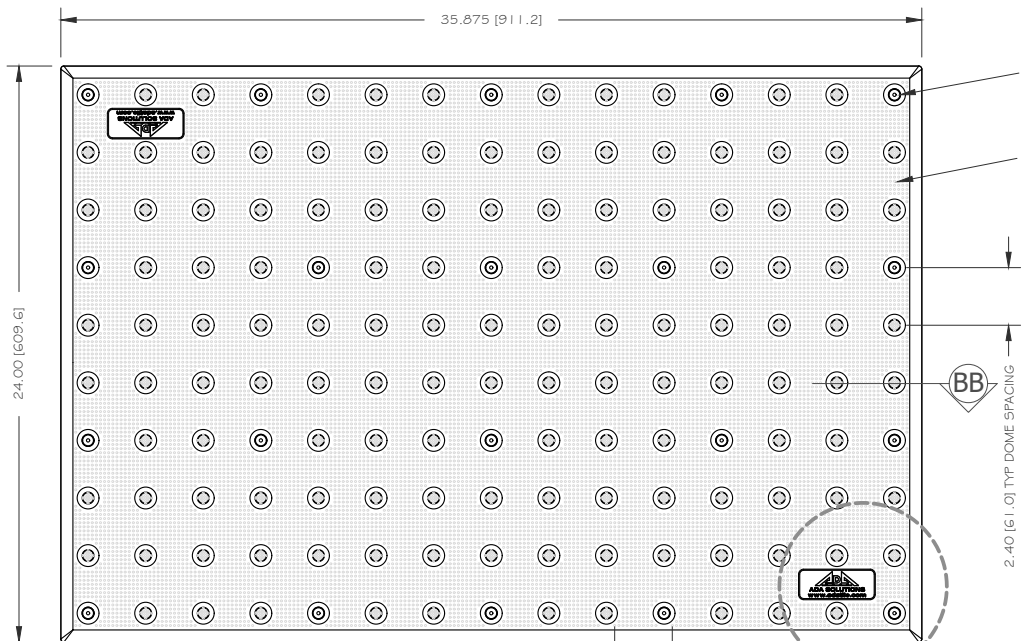
DRAWING UNITS  
 INCHES [MM]

WEBSITE  
 ADATILE.COM

PHONE  
 1-800-372-0519

EMAIL  
 INFO@ADATILE.COM





TOP VIEW

2.40 [61.0] TYP DOME SPACING

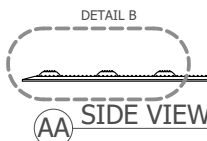


DETAIL A

0.25" [6.35] DIAMETER COUNTERSUNK FASTENER CAVITY. 20 LOCATIONS

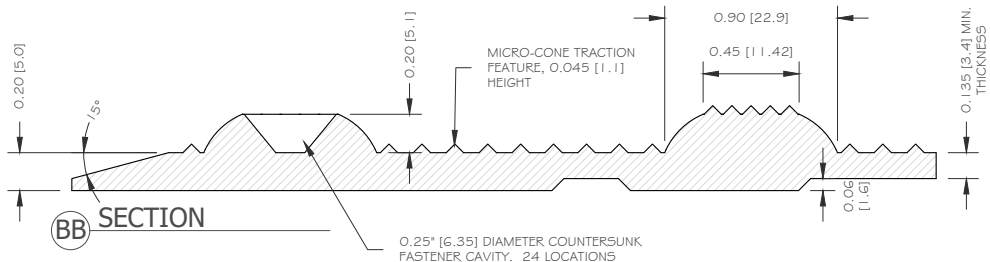
MICRO-CONE TEXTURED SURFACE

2.40 [61.0] TYP DOME SPACING



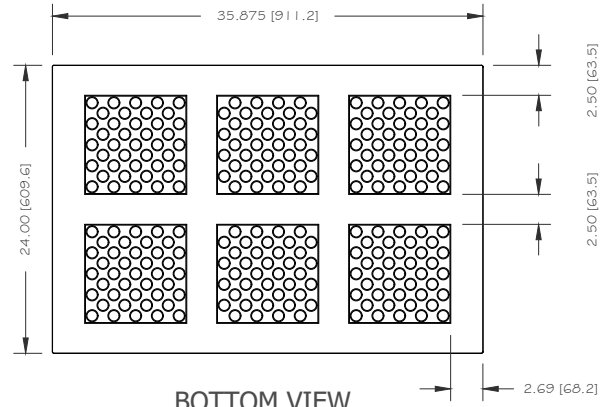
DETAIL B

SIDE VIEW

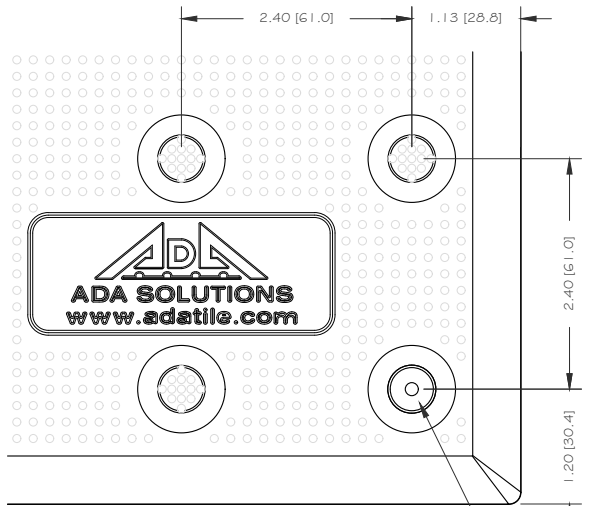


SECTION BB

0.25" [6.35] DIAMETER COUNTERSUNK FASTENER CAVITY. 24 LOCATIONS

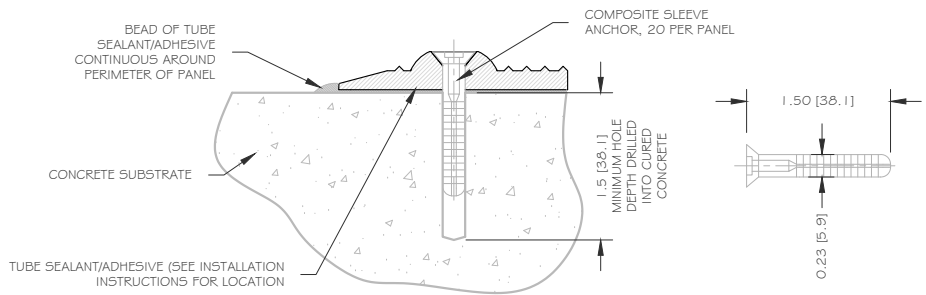


BOTTOM VIEW



DETAIL A

0.25" [6.35] DIAMETER COUNTERSUNK FASTENER CAVITY. 20 LOCATIONS



ATTACHMENT DETAIL B

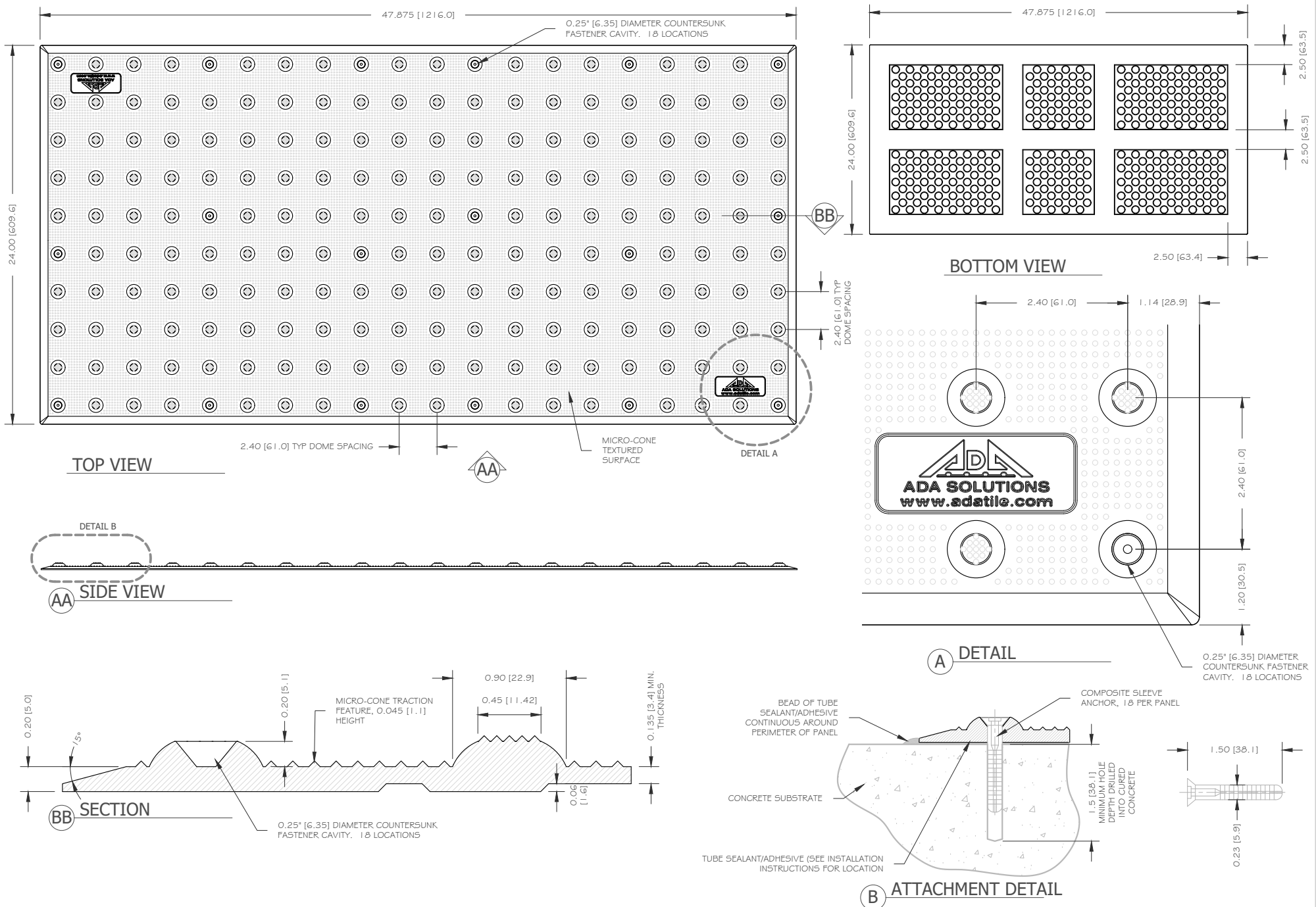
DETECTABLE WARNING SURFACE PANEL  
**Surface Applied Panel 24 x 36**  
 PART SIZE: 24" (609.6 MM) X 35.875" (911.2 MM)  
 2.40" (60.96 MM) IN-LINE TRUNCATED DOME SPACING

DIVISION  
 TACTILE WALKING SURFACE INDICATORS  
 MATERIAL  
 FIBERGLASS REINFORCED POLYMER COMPOSITE SMC  
 DRAWING NUMBER  
 ADA-SURFAPP2436

DATE  
 2023-08-23  
 DRAWING UNITS  
 INCHES [MM]

WEBSITE  
 ADATILE.COM  
 PHONE  
 1-800-372-0519  
 EMAIL  
 INFO@ADATILE.COM

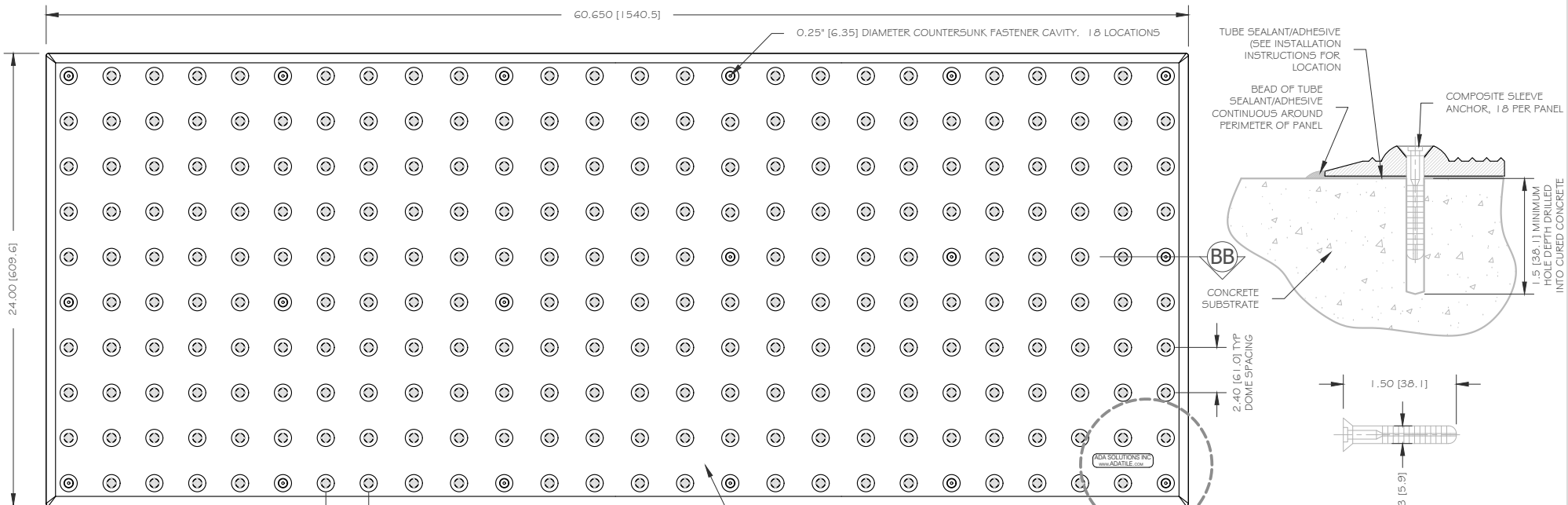




DETECTABLE WARNING SURFACE PANEL  
**Surface Applied Panel 24 x 48**  
 PART SIZE: 24" (609.6 MM) X 47.875" (1216.0 MM)  
 2.40" (60.96 MM) IN-LINE TRUNCATED DOME SPACING

DIVISION TACTILE WALKING SURFACE INDICATORS		WEBSITE ADATILE.COM
MATERIAL FIBERGLASS REINFORCED POLYMER COMPOSITE SMC		PHONE 1-800-372-0519
DRAWING NUMBER ADA-SURFAPP2448	DATE 2023-08-24	DRAWING UNITS INCHES [MM]
		EMAIL INFO@ADATILE.COM





TOP VIEW

DETAIL B



AA SIDE VIEW

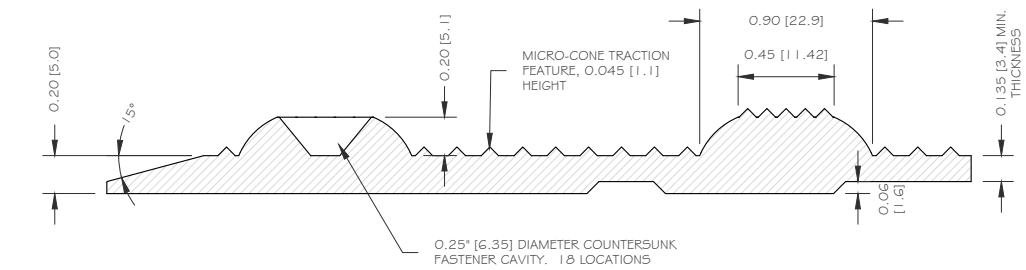
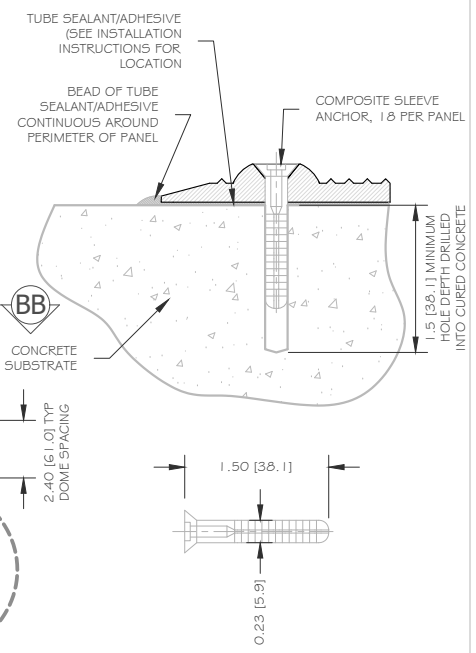
2.28 [57.8] TYP DOME SPACING



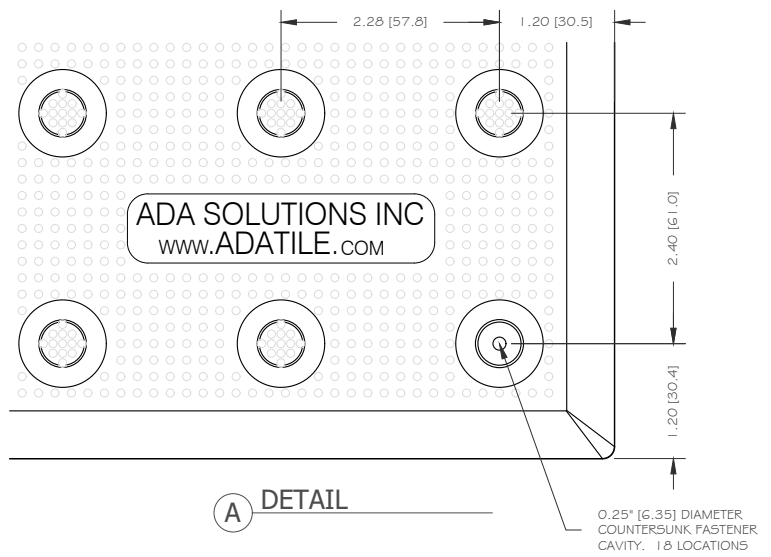
MICRO-CONE TEXTURED SURFACE (NOT SHOWN)

DETAIL A

B ATTACHMENT DETAIL



BB SECTION



A DETAIL

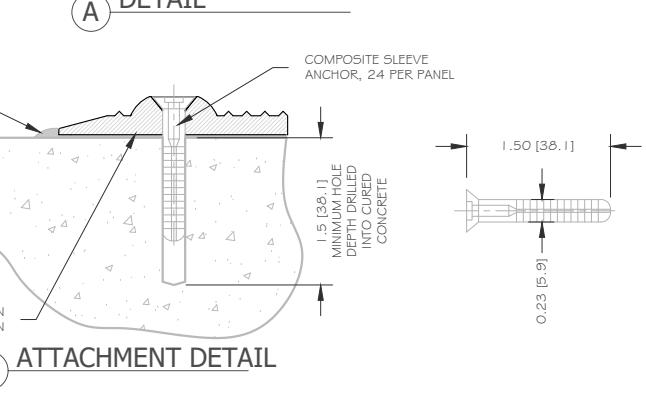
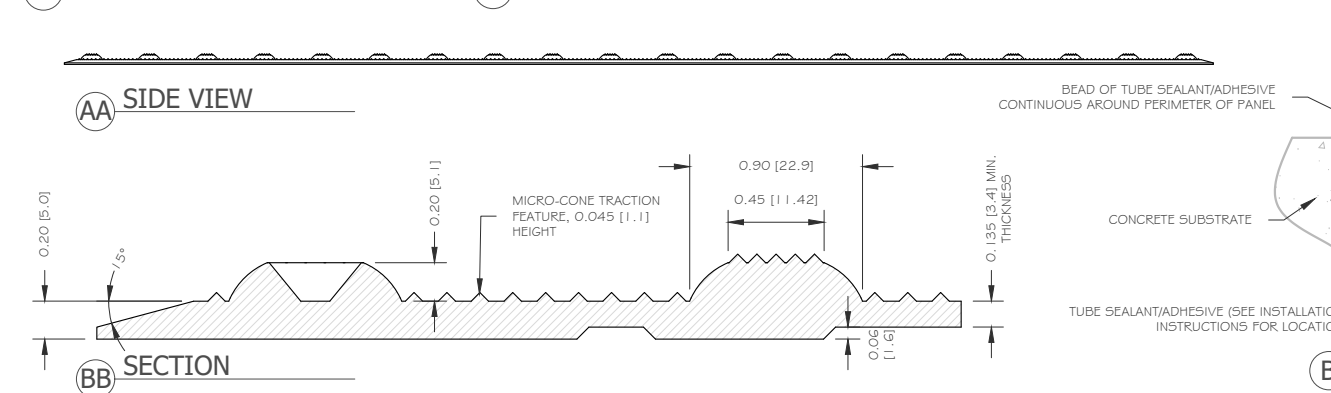
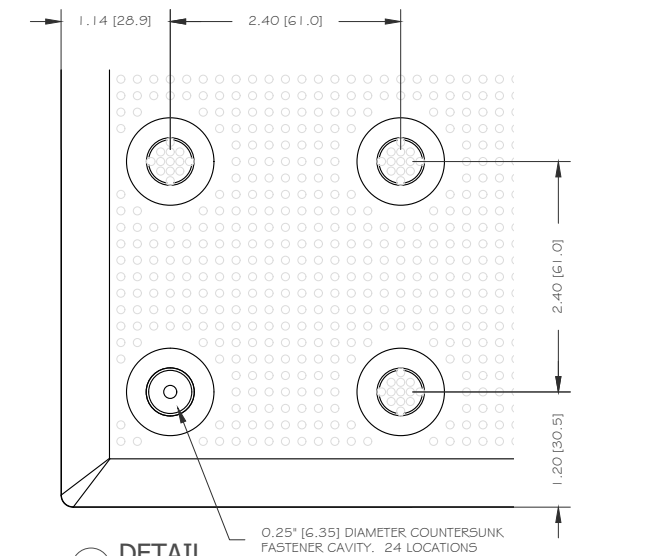
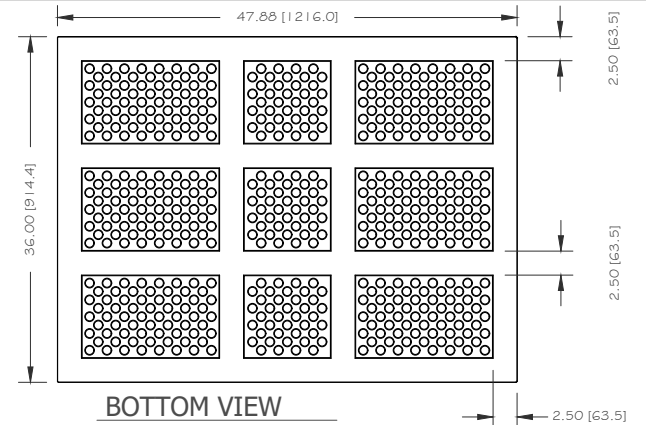
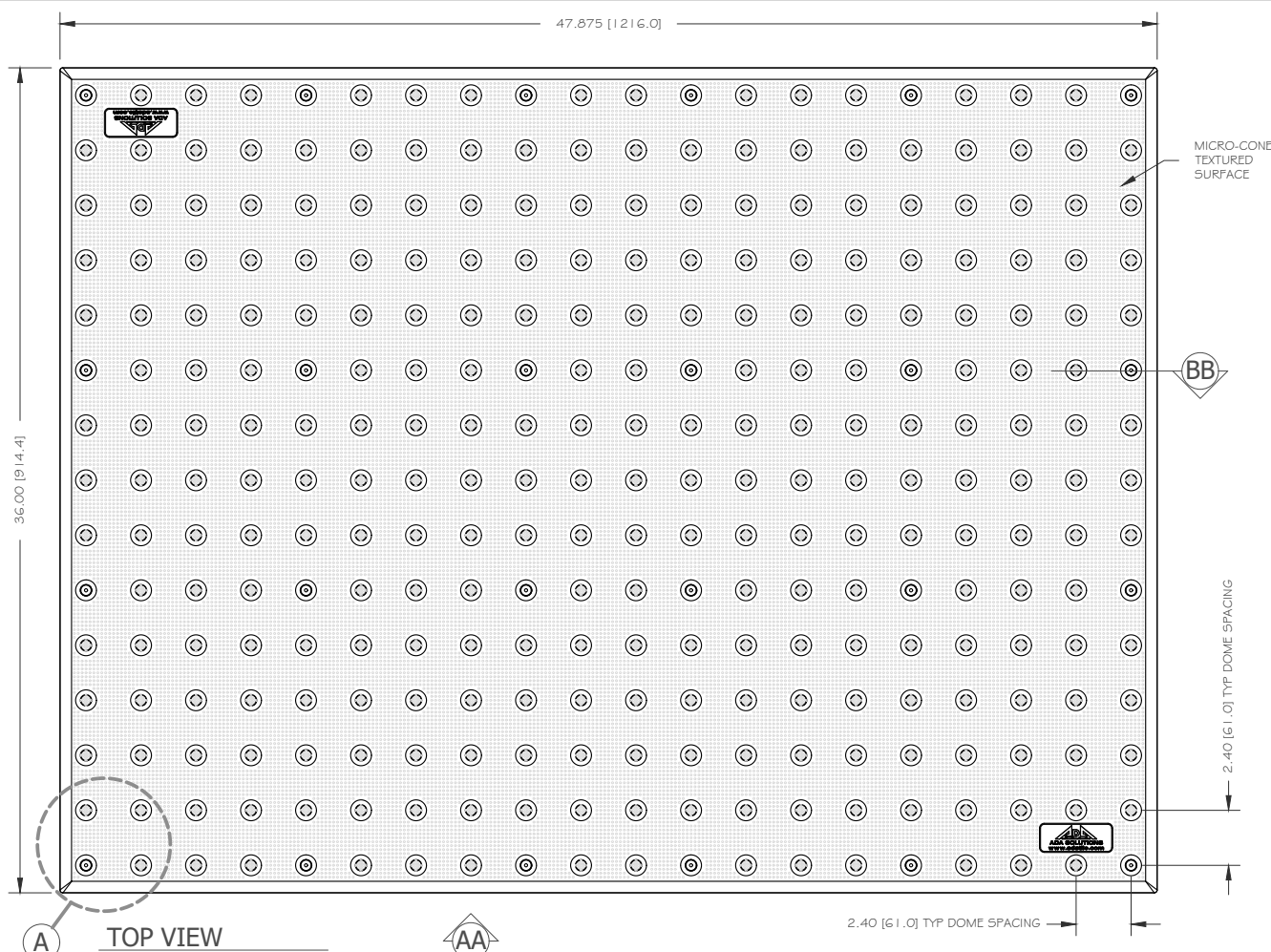
DETECTABLE WARNING SURFACE PANEL  
**Surface Applied Panel 24 x 60**  
 PART SIZE: 24" (609.6 MM) X 60.65" (1,540.51 MM)  
 2.28" (57.91 MM) x 2.40" (60.96 MM) IN-LINE TRUNCATED DOME SPACING

DIVISION  
 TACTILE WALKING SURFACE INDICATORS  
 MATERIAL  
 FIBERGLASS REINFORCED POLYMER COMPOSITE SMC  
 DRAWING NUMBER  
 ADA-SURFAPP2460

DATE  
 2023-09-06  
 DRAWING UNITS  
 INCHES [MM]

WEBSITE  
 ADATILE.COM  
 PHONE  
 1-800-372-0519  
 EMAIL  
 INFO@ADATILE.COM

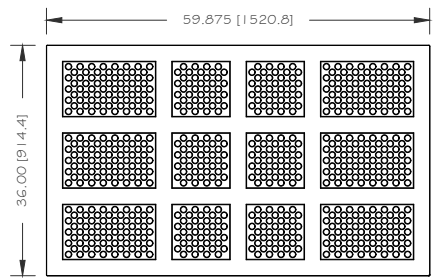
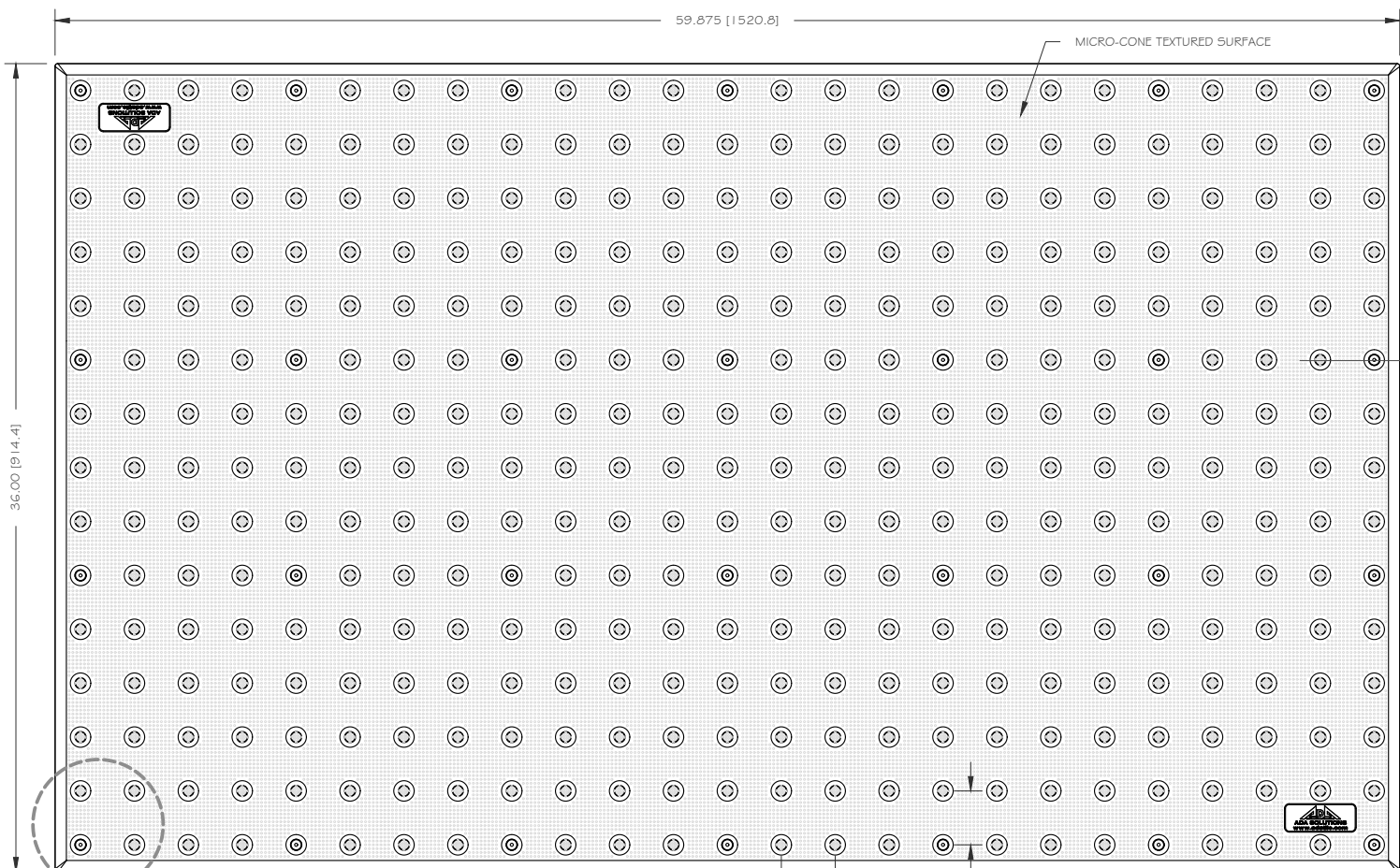




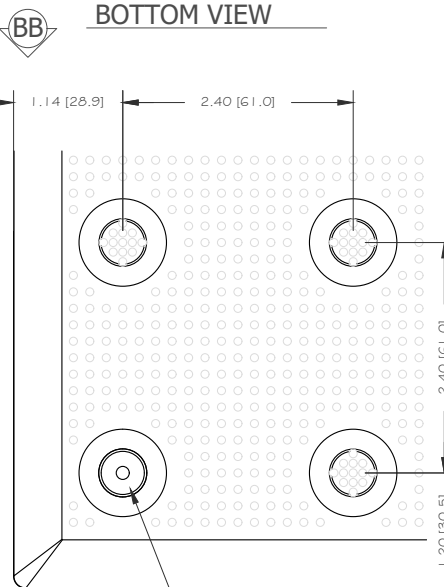
DETECTABLE WARNING SURFACE PANEL  
**Surface Applied Panel 36 x 48**  
 PART SIZE: 36" (914.4 MM) X 47.875" (1,216 MM)  
 2.40" (60.96 MM) IN-LINE TRUNCATED DOME SPACING

DIVISION TACTILE WALKING SURFACE INDICATORS		WEBSITE ADATILE.COM
MATERIAL FIBERGLASS REINFORCED POLYMER COMPOSITE SMC		PHONE 1-800-372-0519
DRAWING NUMBER ADA-SURFAPP3648	DATE 2023-03-15	DRAWING UNITS INCHES [MM]
		EMAIL INFO@ADATILE.COM





**BOTTOM VIEW**



**A DETAIL**

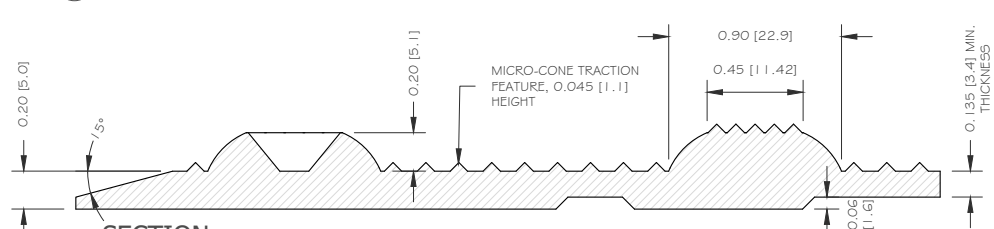
0.25" [6.35] DIAMETER COUNTERSUNK FASTENER CAVITY. 28 LOCATIONS

**A TOP VIEW**

2.40 [61.0] TYP DOME SPACING

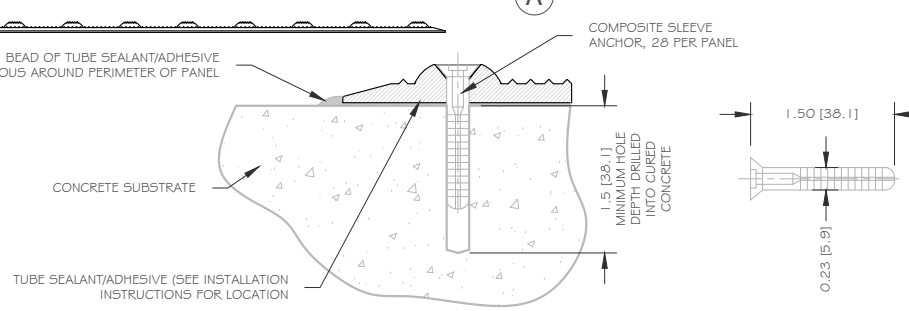
2.40 [61.0] TYP DOME SPACING

**AA SIDE VIEW**



**BB SECTION**

BEAD OF TUBE SEALANT/ADHESIVE CONTINUOUS AROUND PERIMETER OF PANEL



**B ATTACHMENT DETAIL**

DETECTABLE WARNING SURFACE PANEL  
**Surface Applied Panel 36 x 60**  
 PART SIZE: 36" (914.4 MM) X 59.875" (1,520.8 MM)  
 2.40" (60.96 MM) IN-LINE TRUNCATED DOME SPACING

DIVISION  
 TACTILE WALKING SURFACE INDICATORS  
 MATERIAL  
 FIBERGLASS REINFORCED POLYMER COMPOSITE SMC  
 DRAWING NUMBER  
 ADA-SURFAPP3660

DATE  
 2023-03-15  
 DRAWING UNITS  
 INCHES [MM]

WEBSITE  
 ADATILE.COM  
 PHONE  
 1-800-372-0519  
 EMAIL  
 INFO@ADATILE.COM



# Surface Applied Panel Installation Instructions



## **SUBSTRATE PREPARATION**

1. Concrete substrate must be fully cured prior to application of surface applied panels.
2. Bonding surfaces should be clean, dry, and free from all contamination that may inhibit the adhesive's performance. Use a wire brush to remove any dirt and loose surface material. A cup grinder can be used to smooth and level any irregular surfaces. Clear dust and debris with a broom or powered blower.
3. Substrate temperature must exceed 40°F (4°C) during installation and should be maintained above freezing for 7 days to allow adhesive to cure properly.

## **LOCATE PANEL ON SUBSTRATE**

1. Place panel onto substrate where it is to be installed. Locate the panel corners with a marker or masking tape. Note: When installing multiple panels in a series, provide a 1/8 inch space between panels to allow for expansion.
2. Remove the panel from its location and apply tube adhesive to the backside of the panel. Maintain tube adhesive at room temperature before using.
  - a. Apply a 3/8 inch bead of adhesive (supplied with panel) continuous around the perimeter located at approximately 1 inch from the outer edge of the panel (Figure 1).
  - b. Apply a 3/8 inch bead of adhesive centered along the 2-1/2 inch wide flat ribs at the interior areas of the panel in a picture frame pattern.
  - c. Apply additional 3/8 inch rows of adhesive so that there is a maximum of 12 inches between rows.
  - d. Place panel at installation location and apply moderate pressure to nest adhesive between panel and substrate.

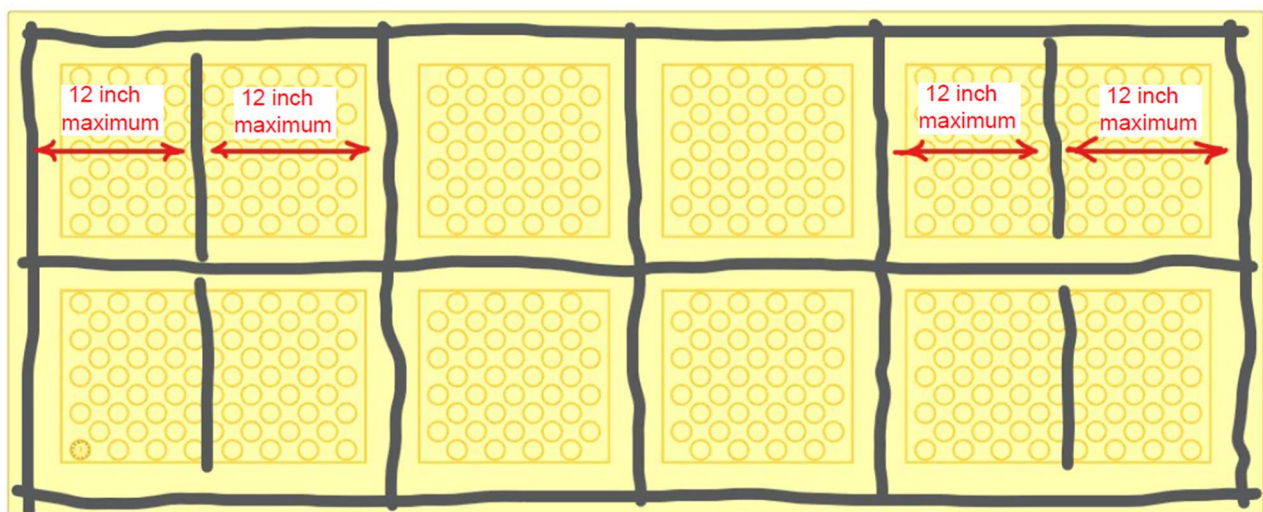


Figure 1: Bottom view of 2x5 Surface Applied panel with adhesive applied.

## **INSTALLATION OF FASTENERS**

1. While standing on panel to hold it in place, drill a 1/4 inch diameter hole through the fastener locations (domes with countersunk holes) into the concrete at a minimum depth of 2 inches.
2. Insert composite sleeve anchors into the holes and hammer drive pin flush with top of dome. Begin at locations near the middle of the panel and progress towards the outer perimeter.
3. Additional fastener locations may be required to correct irregular surfaces or replace fastener locations that were removed during field cutting of panels to size. Fasteners should be installed at all corner locations and at maximum 12 inches on center along the perimeter row of domes. Use a countersink drill bit to create a recess in the top of a dome for the new fastener location.
4. Remove drilling dust and debris from panel surface once all fasteners are installed.

**PERIMETER SEALANT INSTALLATION**

1. Remove any dust and debris from around the perimeter edge of the panels.
2. Apply a continuous 1/4 inch diameter bead of sealant around the perimeter of the tile. Tool the sealant along the perimeter to a smooth even slope along the edge of the panel taking care not to leave any gaps.

<b>TUBE ADHESIVE REQUIREMENTS</b>	
<b><u>Panel Sizes</u></b>	<b><u>Required Adhesive</u></b>
<b>1'x1'</b>	<b>1 Tube for 8 Tiles</b>
<b>2'x2' / 2'x3' / 2'x4' / 2'x5'</b>	<b>1 Tube</b>
<b>3'x4' / 3'x5'</b>	<b>2 Tubes</b>

*NOTE: Installation over asphalt is not recommended or warranted.*

Please contact **ADA Solutions** at 800-372-0519 for any additional information.



# 7 Year Product Warranty

## Tactile Walking Surface Indicators Fiberglass Reinforced Polymer Composite

**ADA SOLUTIONS warrants to the Project Owner and Project Purchaser that the Tactile Walking Surface Indicators (TWSI) product supplied by ADA Solutions is free from defects in workmanship and material including deformation, discoloration, severe fading, and breakage for a period of Seven (7) Years from the date of acceptance of the Project. The warranty is valid only upon completion of the installation, proper maintenance of the TWSI product, and payment in full to ADA Solutions. Warranty becomes effective 24 hours after the date of installation**

**EXCLUSIVE REMEDIES:** ADA Solutions, at its cost, will repair or replace any defective material promptly reported during the warranty period to ADA Solutions. This warranty includes labor costs and the cost of removal of the TWSI product(s). Repair or replacements will be done on site.

All TWSI products manufactured by ADA Solutions are hereby warranted to comply fully with all applicable American with Disabilities Act of 1992 and the Public Rights of Way Accessibility Guidelines (PROWAG), and California Title 24.

**WARRANTY LIMITATIONS:** ADA Solutions warranty does not apply to conditions resulting from improper use, improper installation, external causes, acts of God, intentional misuse or abuse, neglected or improper annual maintenance, vandalism, modifications to the TWSI product, with the exception of the Owner's right to immediately eliminate an unsafe condition.

**DISCLAIMER OF WARRANTY:** The above warranty is the Owner's and Purchaser's exclusive warranty. No other warranty expressed or implied shall apply. ADA Solutions specifically makes no warranty of merchantability and/or fitness for a particular purpose. (In no event will ADA Solutions be liable for any damages, lost profit, consequential or economic damages).

Issued Date: **01/01/2025**

Issued to: **Concrete Company  
124 Main Street  
Salt Lake City, UT 84111**

Project: **Washington School  
Salt Lake City, UT 84119**

Owner: **Washington School District  
Salt Lake City, UT 84111**

Manufacturer: **ADA SOLUTIONS, a Division of SureWerx USA, Inc.**

Product: **Cast-In-Place Paver Detectable Warning Panels, Brick Red**

Description: **Fiberglass reinforced polymer composite material, UV stable with homogeneous color**

Issued by:

John Stieby

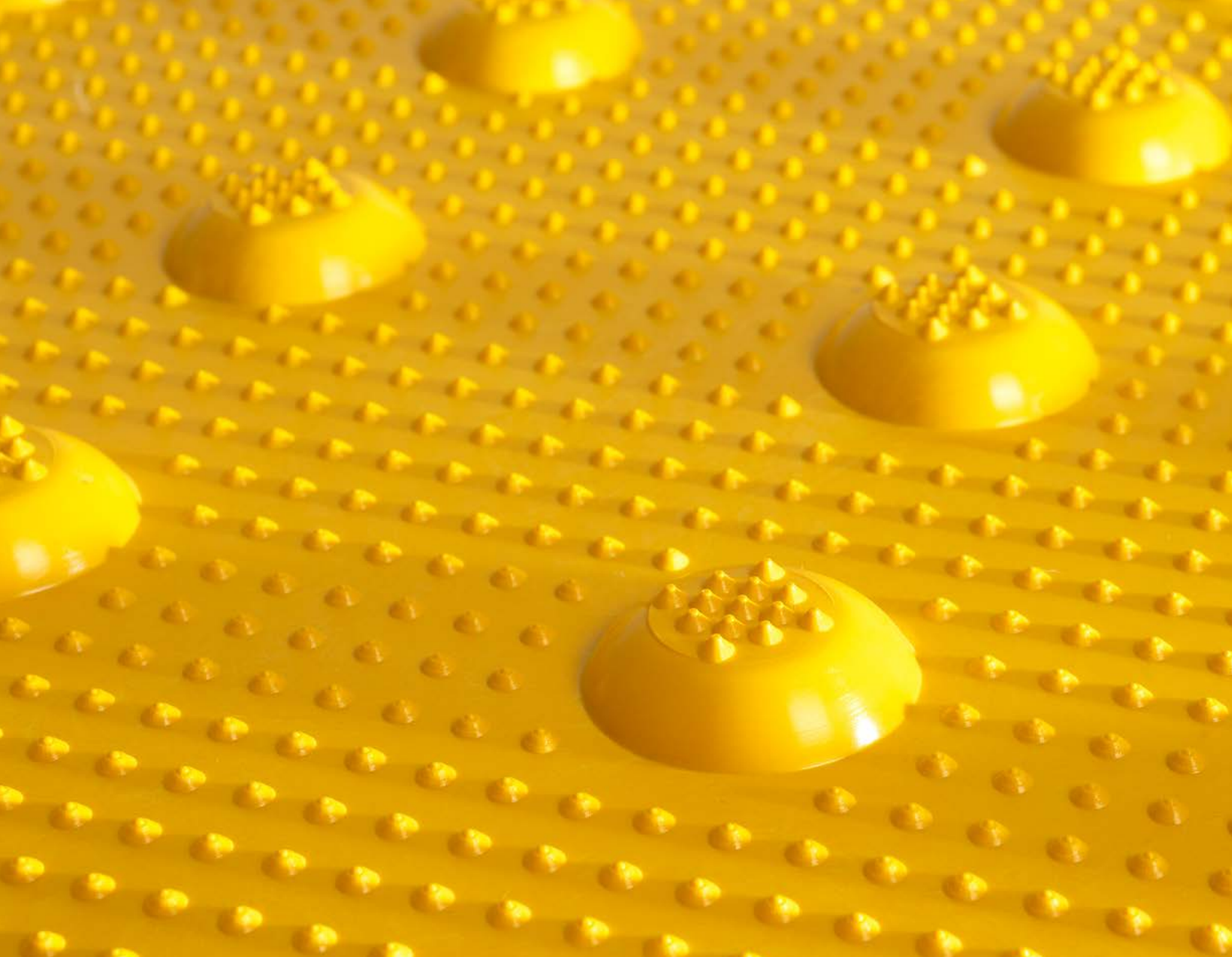
Name

Director of Business Development

Title

01/01/2025

Date



Wherever you go...  
There we are<sup>®</sup>



ADA Office  
800.372.0519



[www.adatale.com](http://www.adatale.com)  
[www.surewerx.com](http://www.surewerx.com)