

U.S. Patent
Pending



ADA SOLUTIONS, INC.
DETECTABLE WARNING SURFACES
FOR PEDESTRIAN CROSSINGS



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



AVAILABLE SIZES & COLORS

	Dome Spacing	Part Weights	Yellow	Brick Red	Dark Gray	Black	Clay Red	
REPLACEABLE	2' X 3'	22.0	✓	✓	✓	✓	✓	
	2' X 4'	28.5	✓	✓	✓	✓	✓	
	2' X 5'	35.0	✓	✓	✓	✓	✓	
	3' X 4'	42.0	✓	✓	✓	✓	✓	
	3' X 5'	52.5	✓	✓	✓	✓	✓	
	SURFACE MOUNT	2' X 3' Fasteners/Tile-> (12)	1.67"	✓	✓	✓	✓	✓
			2.35"	13.5	✓	✓	✓	✓
		2' X 4'	1.67"	16.75	✓	✓	✓	✓
			2.35"	16.75	✓	✓	✓	✓
		2' X 5'	1.67"	20.5	✓	✓	✓	✓
2.35"			20.5	✓	✓	✓	✓	
CAST-IN-PLACE	3' X 4'	1.67"	26.5	✓	✓	✓	✓	
		2.35"	26.5	✓	✓	✓	✓	
	3' X 5'	1.67"	32	✓	✓	✓	✓	
		2.35"	32	✓	✓	✓	✓	
	2' X 3'	1.67"	17.5	✓	✓	✓	✓	
		2.35"	17.5	✓	✓	✓	✓	
	2' X 4'	1.67"	23	✓	✓	✓	✓	
		2.35"	23.2	✓	✓	✓	✓	
2' X 5'	1.67"	30	✓	✓	✓	✓		
	2.35"	30	✓	✓	✓	✓		
3' X 4'	1.67"	37.5	✓	✓	✓	✓		
	1.67"	37.5	✓	✓	✓	✓		
3' X 5'	1.67"	47	✓	✓	✓	✓		

Adhesive Information

Part #	Description	Coverage/Yield
DUR100Z	Durabond - 10oz Caulking Tube	Up to 10 sq ft
DUR300Z	Durabond - 30oz Caulking Tube	Up to 18 sq ft
BOS5GAL	Bostik - 5 Gallon Pail	Approx. 250 sq ft

Light Reflectance Values

ADA's Composite TWS Product Line Federal Color Standards (595B)

Color	Description	LRV
1. Federal Yellow	#33538 (lusterless)	44.7
2. Brick Red	#30109 (lusterless)	10.1
3. Black	#37038 (lusterless)	3.4
4. Dark Gray	#36118 (lusterless)	11.2
5. Clay Red	#22144 (lusterless)	10.6



DETECTABLE WARNING SURFACES FOR PEDESTRIAN CROSSINGS

Replaceable Composite (Wet-Set) Tactile
Surface Mount Composite Tactile
Cast-In-Place Composite Tactile

Cost Effective, Readily Available, and Easy to Install

ADA Products Feature:

ADAAG/PROW/CA Title 24 Compliant

- Pleasing architectural quality appearance and high performance product with geometry strictly compliant with all applicable codes.
- Approved for use by all major municipalities, DPW's and state DOT's.

Superior Wear Resistance

- Wear resistance properties far superior to that achieved with concrete based materials of any type.
- ADA's Product will conform to irregular underlying substrates.
- Eliminates hairline cracking observed in epoxy based and VPC (Vitrified Polymer Composite) based materials.

Maintenance

- Virtually impervious to absorption (key indicator of durability) when compared to concrete, epoxy, or VPC materials. Not affected by chemical exposure.
- Performs well when subjected to snow removal operations.
- Easy to clean and replace when necessary.

Homogenous Materials allow for Superior Color Stability

- Pigment is uniformly distributed throughout the thickness of our products.
- Long term color stability without the need for secondary coatings.

Product Availability

- Immediate delivery
- National distribution

Proudly Made in the U.S.A.

We offer unmatched selection, service, delivery and price, with a strong focus on customer satisfaction. ADA Solutions, Inc. is leading the way in the detectable warning marketplace. Use us once and you'll see why so many companies across the country choose ADA Solutions, Inc.

In stock colors

Yellow

Brick Red

Black

Dark Gray

Clay Red

ADA Solutions Recommends the Use of Bostik's Hydroment® Ultra-Set Advanced™ & D-818™ Adhesives.



- ADA exclusively uses and recommends the use of Bostik's Hydroment Ultra Set Advanced and Durabond® D-818™ Multi-Use Adhesives for all pedestrian crossing/curb ramp and transit facility platform edge structures throughout ADA's North American Market.
- High performance adhesive with tenacious bonding characteristics suitable for interior and exterior applications.
- High strength adhesive suitable for use over concrete, ceramic, or stone substrates.
- May also be used as a crack isolation/waterproofing membrane and to bridge cracks up to 1/8"



REPLACEABLE COMPOSITE (WET-SET) TACTILE



ADA SOLUTIONS, INC.
WWW.ADASOLUTIONS.COM
PATENT PENDING

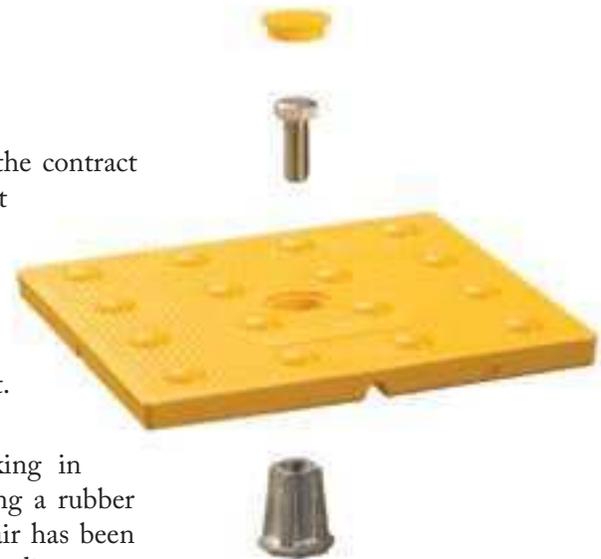
REPLACEABLE COMPOSITE (WET-SET) TACTILE

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 Composite (Wet Set) 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.** Place the ADAREP unit 6-8 inches from the curb line. 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.** 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.
- F.** 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 1-2 hours.
- G.** 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'x3' 2'x4' 2'x5'
3'x4' 3'x5'

APPLICATION
Fresh Pour
Concrete Ramps
& Replacement

*View additional photos, drawings and specifications
on our website: www.adatile.com.*

Call (800) 372-0519 with any questions.

REPLACEABLE COMPOSITE (WET-SET) TACTILE

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 Composite (Wet Set) Tactile unit (ADAREP) with a flat head screw driver.
- B.** Remove the existing 1/2" x 1 1/2" stainless steel bolts 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, of same size and orientation, into impression in concrete ramp. Lightly tamp down the ADAREP unit with a rubber mallet and a piece of wood. Continue this process until the ADAREP unit is set firmly into existing impression in concrete ramp.
IMPORTANT: Avoid striking the ADAREP unit directly.
- G.** Bolt existing 1/2" x 1 1/2" stainless steel bolts 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.



US Patent
Pending

REPLACEABLE COMPOSITE (WET-SET) TACTILE

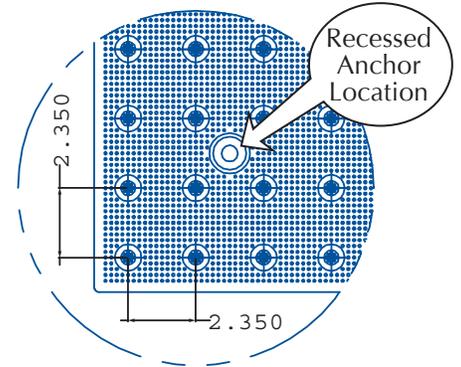
Inline Dome Pattern

DOMES GEOMETRY

In accordance with ADA Regulations for Detectable Warning on Curb Ramps: Raised truncated domes with a diameter of nominal 0.9", a height of nominal 0.2" and a center-to-center spacing of 2.35".

PANEL DIMENSIONS

ADA Replaceable Composite (Wet Set) Tactile units (ADAREP) are available in 24" x 36", 24" x 48", 24" x 60", 36" x 48" and 36" x 60" sizes. ADAREP units may also be custom configured to accommodate specific project requirements. ADAREP units measure 3/8" nominal thickness and feature a 5/8" thick x 1" wide perimeter "flange."



MATERIAL

A homogenous glass and carbon composite which is colorfast and UV stable. Truncated domes are fiberglass reinforced for enhanced durability. The color of the ADAREP unit is uniform throughout and does not rely on any type of paint coating to achieve color stability. Standard colors include: Federal Yellow, Brick Red, Clay Red, Dark Gray and Black. For superior wheelchair, walker and shopping cart mobility, truncated domes have a center-to-center (horizontally and vertically) spacing of 2.35 inches.

PHYSICAL CHARACTERISTICS

Compressive Strength	28,900 psi	ASTM D 695
Flexural Strength	29,300 psi	ASTM D 790
Water Absorption	.07%	ASTM D 570
Slip Resistance	1.18 Dry, 1.05 Wet	ASTM C 1028
Flame Spread Index	20	ASTM E 84
Salt Spray	No Change (200 hours)	ASTM B 117
Chemical Stain Testing	No Deterioration	ASTM 1308
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 lbs.	No Damage	AASHTO-H20
Freeze/Thaw/Heat	No Disintegration	ASTM C 1026

INCIDENTALS

Fasteners: 1/2" x 1 1/2" stainless steel bolts.

Anchors: 1 1/2" corrosion resistant concrete inserts.

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 defective work, breakage, deformation and loosening of the tactile warning surface material.



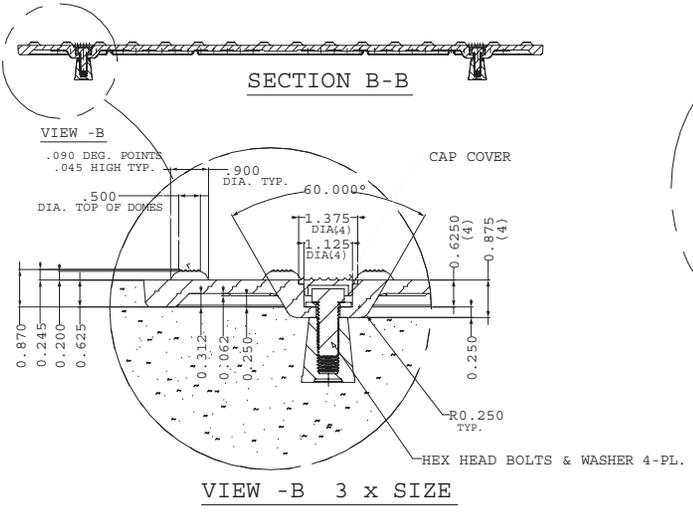
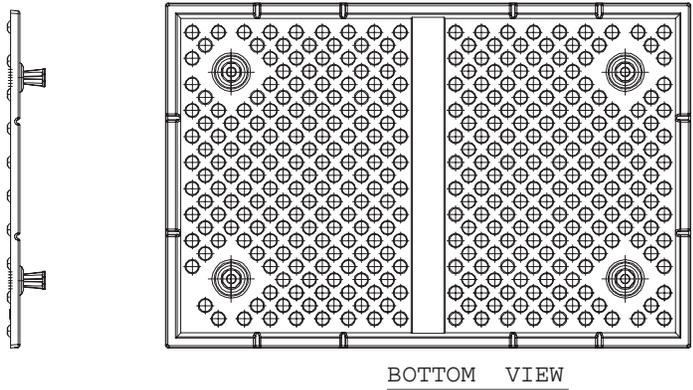
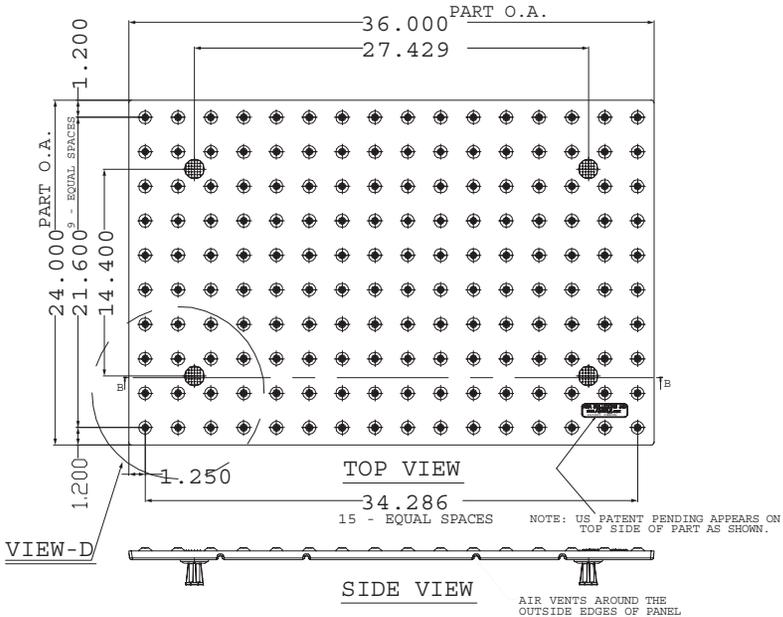
5-Year Warranty



Color Throughout

REPLACEABLE COMPOSITE (WET-SET) TACTILE

24"x36" Tile
2.35" Dome Spacing



US PATENT PENDING

MATERIAL LIST			
ITEM	DESCRIPTION	PART NO.	QT'Y
1			
2			
3			
4			

SCALE
AS NOTED
FULL SIZE

TRADE	PART NO.
DETECTABLE WARNING SURFACE	SEE MATERIAL LIST

MATERIAL

PROJECT

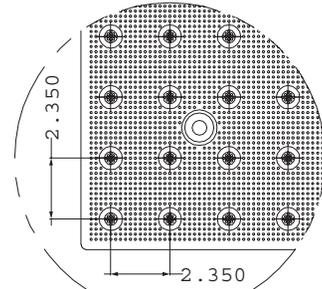
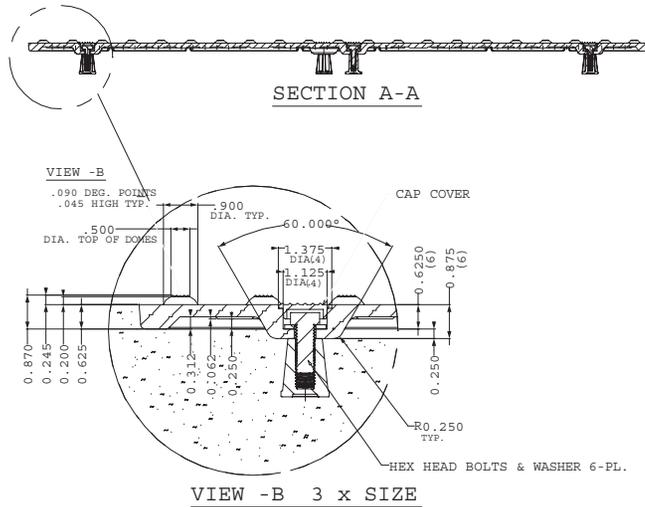
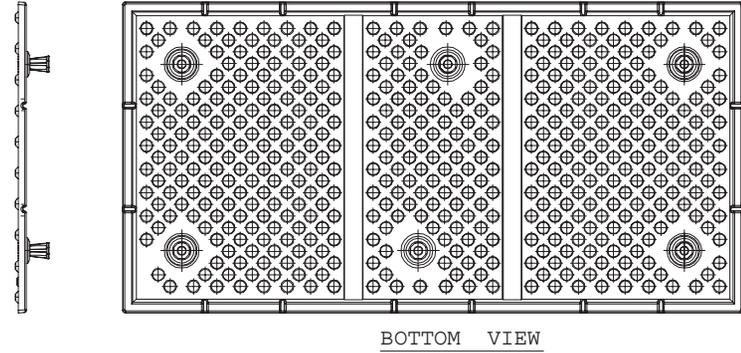
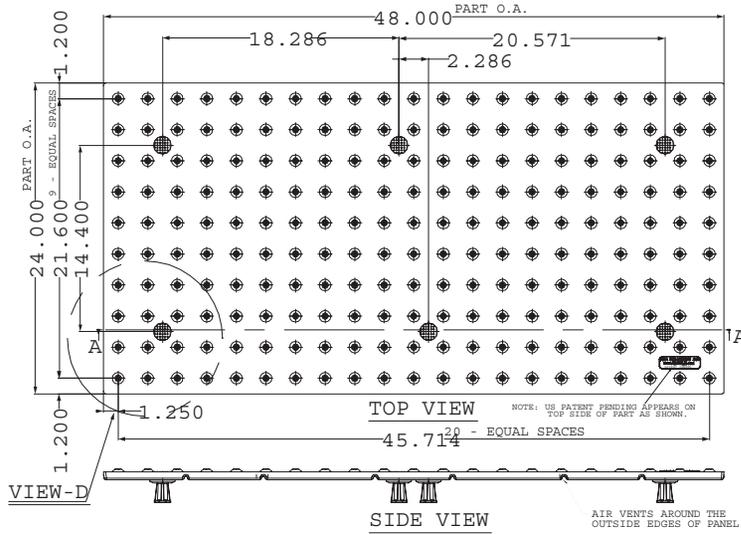
WET SET ADA REPLACEABLE TACTILE WARNING SURFADE UNIT
2.375" IN LINE TRUNCATED DOME PATTERN
PART SIZE 24" x 36"
PLANS AND DETAILS

DRAWING NO.	REV. NO.

ADA SOLUTIONS, INC.
P.O. Box 3
N.Billerica, Ma. 01862

REPLACEABLE COMPOSITE (WET-SET) TACTILE

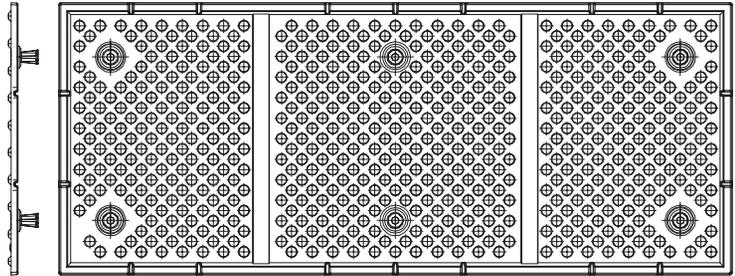
24"x48" Tile
2.35" Dome Spacing



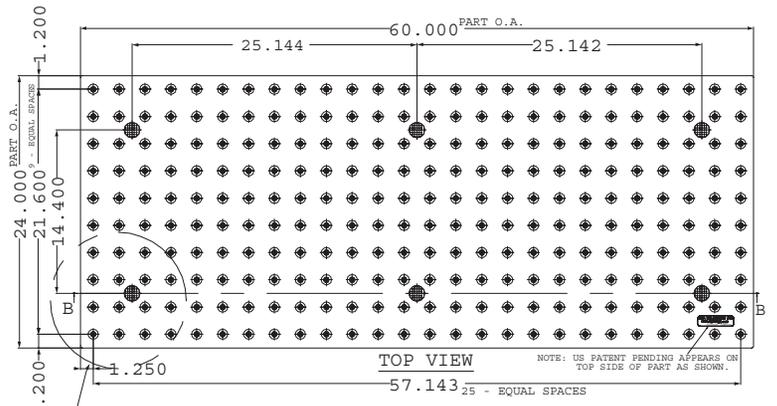
US PATENT PENDING			
MATERIAL LIST			
ITEM	DESCRIPTION	PART NO.	QT'
1			
2			
3			
4			
SCALE AS NOTED FULL SIZE			
TRACE		PART NO.	
REPLACEABLE WARNING SURFACE		SEE MATERIAL LIST	
MATERIAL			
PROJECT			
WET SET ADA REPLACEABLE TACTILE WARNING SURFACE UNIT			
2.375" IN LINE TRUNCATED DOME PATTERN			
PART SIZE 24" x 48"			
PLANS AND DETAILS			
DRAWING NO.			REV. NO.
ADA SOLUTIONS, INC. P.O. Box 3 N.Billerica, Ma. 01862			

REPLACEABLE COMPOSITE (WET-SET) TACTILE

24"x60" Tile
2.35" Dome Spacing



BOTTOM VIEW



TOP VIEW

NOTE: US PATENT PENDING APPEARS ON TOP SIDE OF PART AS SHOWN.

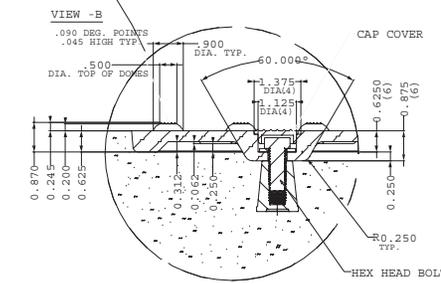


SIDE VIEW

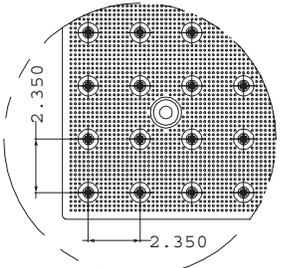
AIR VENTS AROUND THE OUTSIDE EDGES OF PANEL.



SECTION B-B



VIEW - B 3 x SIZE

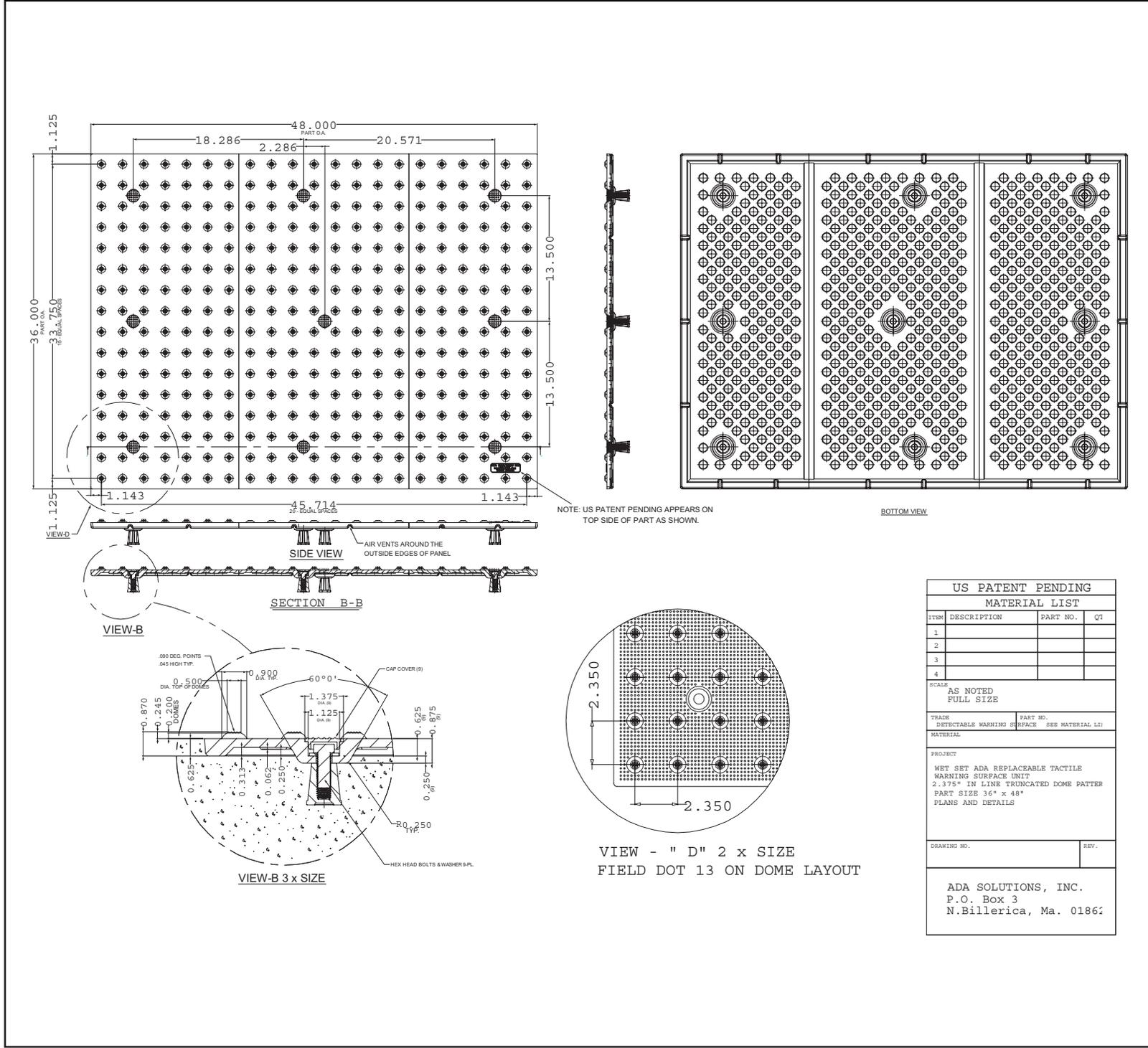


VIEW - " D" 2 x SIZE
FIELD DOT 7 DOME LAYOUT

US PATENT PENDING			
MATERIAL LIST			
ITEM	DESCRIPTION	PART NO.	QT*
1			
2			
3			
4			
SCALE AS NOTED FULL SIZE			
TRACE SELECTABLE WARNING SURFACE		PART NO. SEE MATERIAL LIST	
MATERIAL			
PROJECT			
WET SET ADA REPLACEABLE TACTILE WARNING SURFACE UNIT 2.375" IN LINE TRUNCATED DOME PATTERN PART SIZE 24" x 60" PLANS AND DETAILS			
DRAWING NO.		REV. NO.	
ADA SOLUTIONS, INC. P.O. Box 3 N.Billerica, Ma. 01862			

REPLACEABLE COMPOSITE (WET-SET) TACTILE

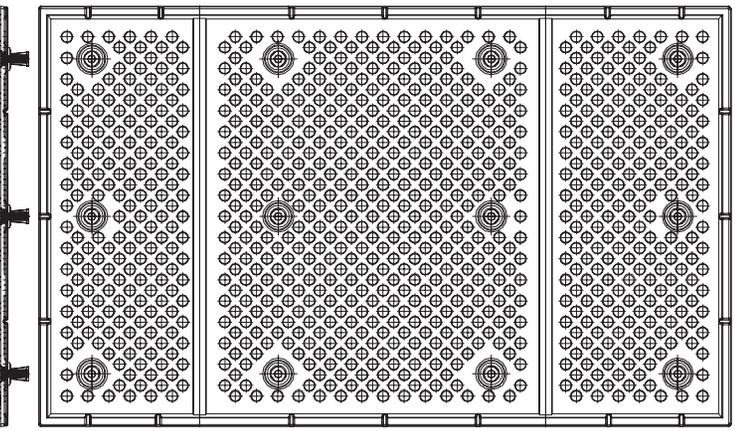
36"x48" Tile
2.35" Dome Spacing



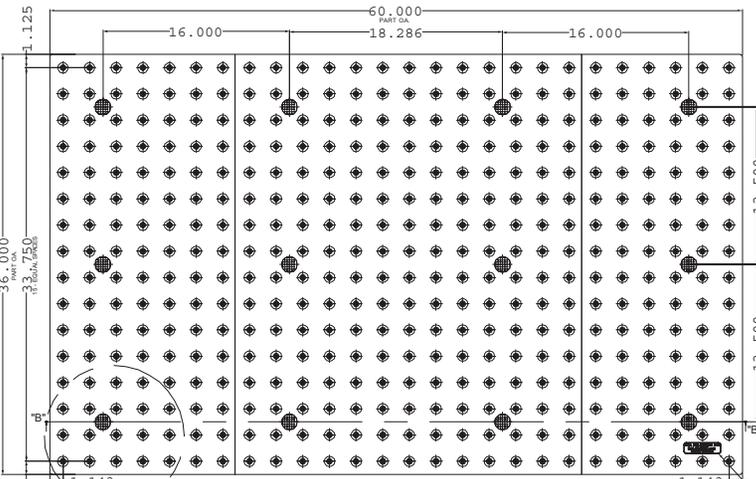
REPLACEABLE COMPOSITE (WET-SET) TACTILE

36x60" Tile
2.35" Dome Spacing

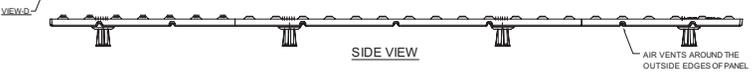
US PATENT PENDING			
MATERIAL LIST			
ITEM	DESCRIPTION	PART NO.	QTY
1			
2			
3			
4			
SCALE AS NOTED FULL SIZE			
TRADE SPECIFIABLE WARNING SURFACE		PART NO. SEE MATERIAL LIST	
MATERIAL			
PROJECT WET SET ADA REPLACEABLE TACTILE WARNING SURFACE UNIT 2.375" IN LINE TRUNCATED DOME PATTERN PART SIZE 36" x 60" PLANS AND DETAILS			
DRAWING NO.		REV. NO.	
ADA SOLUTIONS, INC. P.O. Box 3 N.Billerica, Ma. 01862			



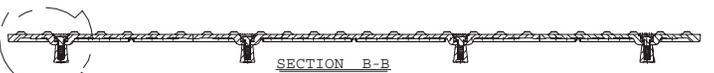
BOTTOM VIEW



NOTE: US PATENT PENDING APPEARS ON TOP SIDE OF PART AS SHOWN.

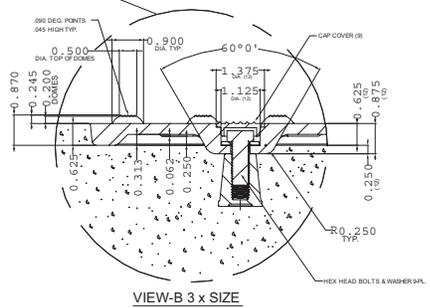


SIDE VIEW

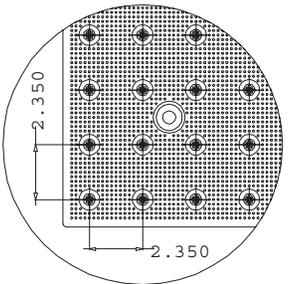


SECTION B-B

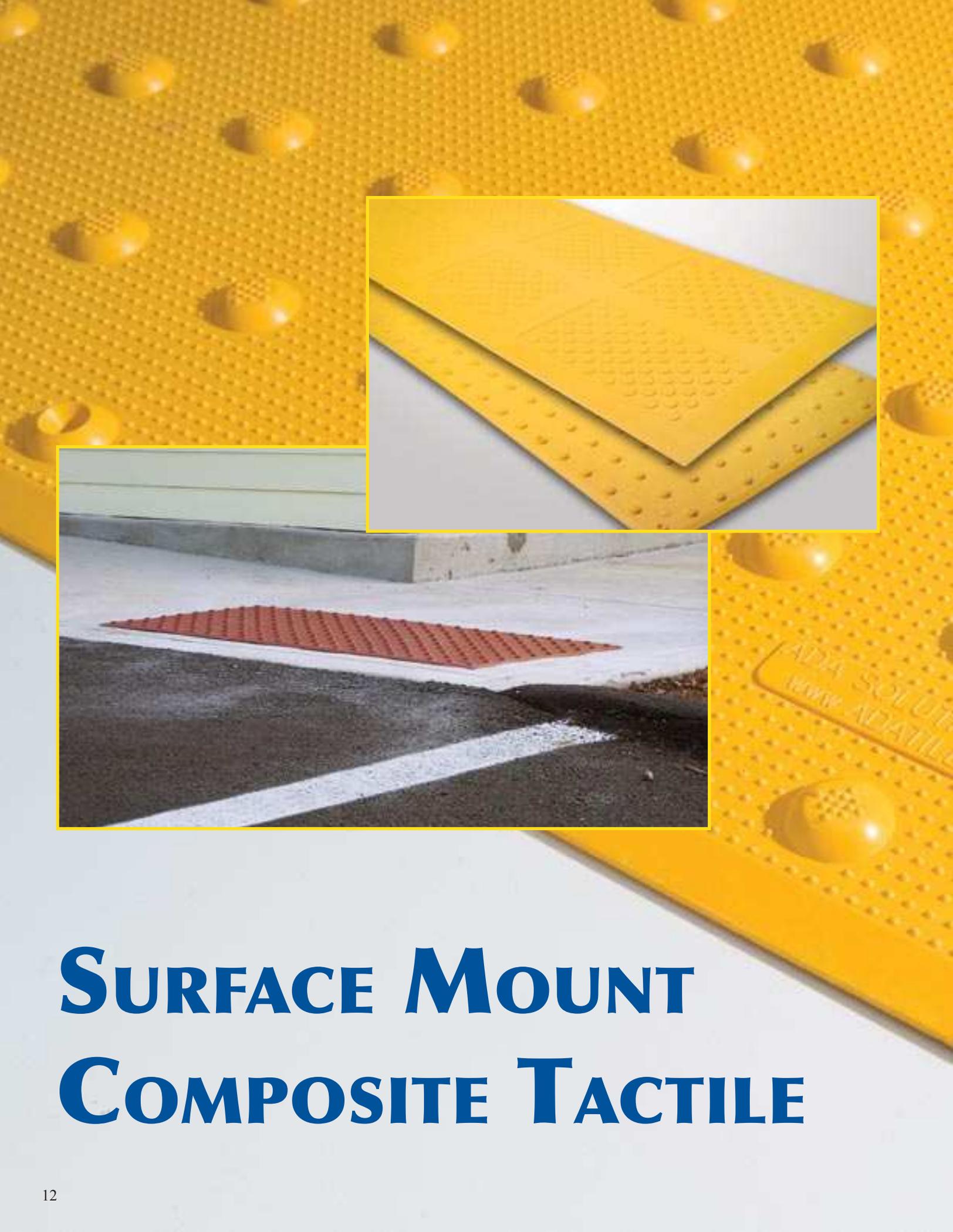
VIEW-B



VIEW-B 3 x SIZE



VIEW - "D" 2 x SIZE
FIELD DOT 13 ON DOME LAYOUT



SURFACE MOUNT COMPOSITE TACTILE



OWS' INC
www.ows.com

SURFACE MOUNT COMPOSITE TACTILE

Installation Procedure

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

- A.** The installation area should be cleaned of all debris, oil and grease, making sure the area is completely free of moisture. Tactile Panel may be surface mounted on existing pre-cleaned substrate.
- B.** Lay out the Tactile Panel on the substrate as it will appear when installed.
- If required, the Tactile Panel may be cut using a table saw and marble tipped blade. See web site for more details.
- C.** Place a 3/8" bead of adhesive on the frame of the bottom of each Tactile Panel. Adhesive yield: 10SF per 10 ounce cartridge. 18-24SF per 30 ounce cartridge.
- D.** Set the Tactile Panel in the installation area. Make all necessary adjustments prior to fastening.
- E.** Fasteners shall be installed in pre-formed fastener locations. Holes shall be drilled using a hammer drill with 1/4" x 2" min SDS bits. The drilled holes must be a minimum of 2" deep. Place fasteners in hole and hammer into place.
- If additional fasteners are required, use a 1/2", six point, 82 degree countersink to add a new fastener location. Follow the same drilling method for installing the fastener.
- F.** Caulk around perimeter of entire installation using Sonneborn NP1 or equivalent.
- All concrete dust present on the Tactile Panel resulting from the drilling process must be cleaned off of the Tactile Panel prior to using any caulking materials.
- G.** Be sure to remove plastic protective covering from the face of the Tactile Panel once the concrete is cured.

*Not recommended or warranted for asphalt installation.

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



PRODUCT SIZES
2'x3' 2'x4' 2'x5'
3'x4' 3'x5'

APPLICATION
Fresh Pour
Concrete Ramps

SURFACE MOUNT COMPOSITE TACTILE

Inline Dome Pattern

DOMES GEOMETRY

In accordance with ADA Regulations for Detectable Warning on Curb Ramps: Raised truncated domes with a diameter of nominal 0.9", a height of nominal 0.2", and a center-to-center spacing of nominal 1.67" minimum and 2.35" maximum.

PANEL DIMENSIONS

Tactile Panels are available in 24"x36", 24"x48", 24"x60", 36"x48" and 36"x60" sizes and measure 3/16" thick. Panels can be custom cut to fit field conditions. All four edges of each panel have a 1/2" beveled edge. Each panel has 12 to 24 pre-formed fastener locations based upon panel size.



MATERIAL

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

PHYSICAL CHARACTERISTICS

Compressive Strength	28,900 psi	ASTM D 695
Flexural Strength	29,300 psi	ASTM D 790
Water Absorption	.07%	ASTM D 570
Slip Resistance	1.18 Dry/1.05 Wet	ASTM C 1028
Flame Spread Index	20	ASTM E 84
Salt Spray	No Change (200 hours)	ASTM B 117
Chemical Stain Testing	No Deterioration	ASTM 1308
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
Adhesion to Conc. (20-180 degrees)	No Delamination or Degradation	ASTM C 903
Freeze/Thaw/Heat	No Disintegration	ASTM C 1026

5-Year
Warranty

INSTALLATION

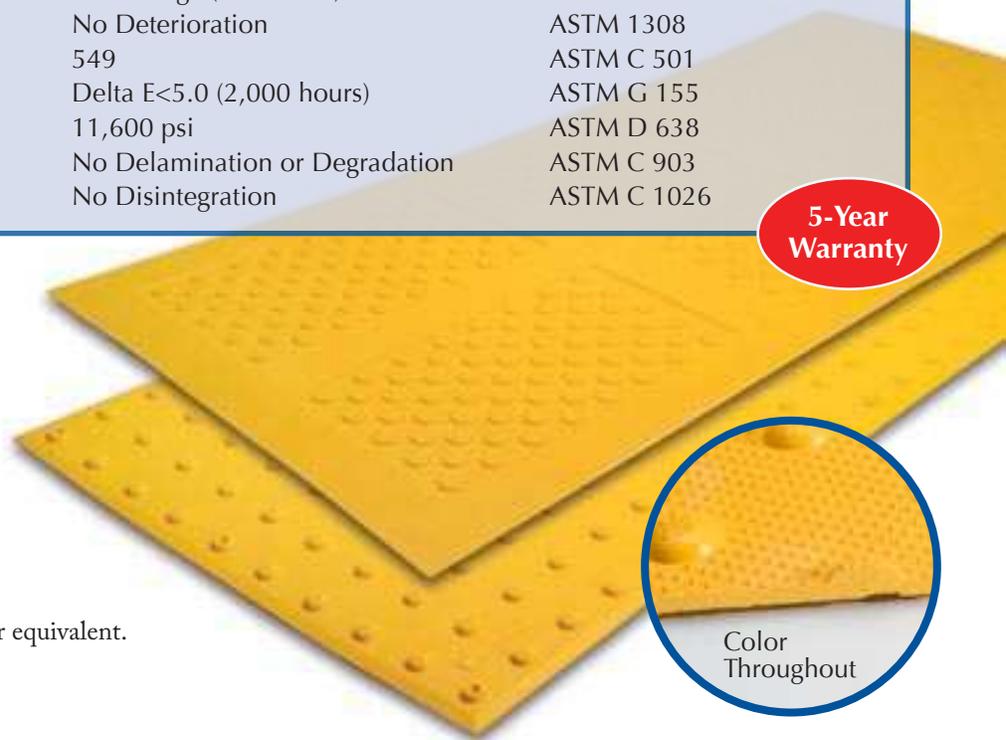
Surface Applied Tactile Panels shall be mechanically fastened and adhered to the underlying substrate.

INCIDENTALS

Fasteners: 1/4" x 1 5/8", composite sleeve anchor with stainless steel pins.

Adhesive: One component structural urethane adhesive.

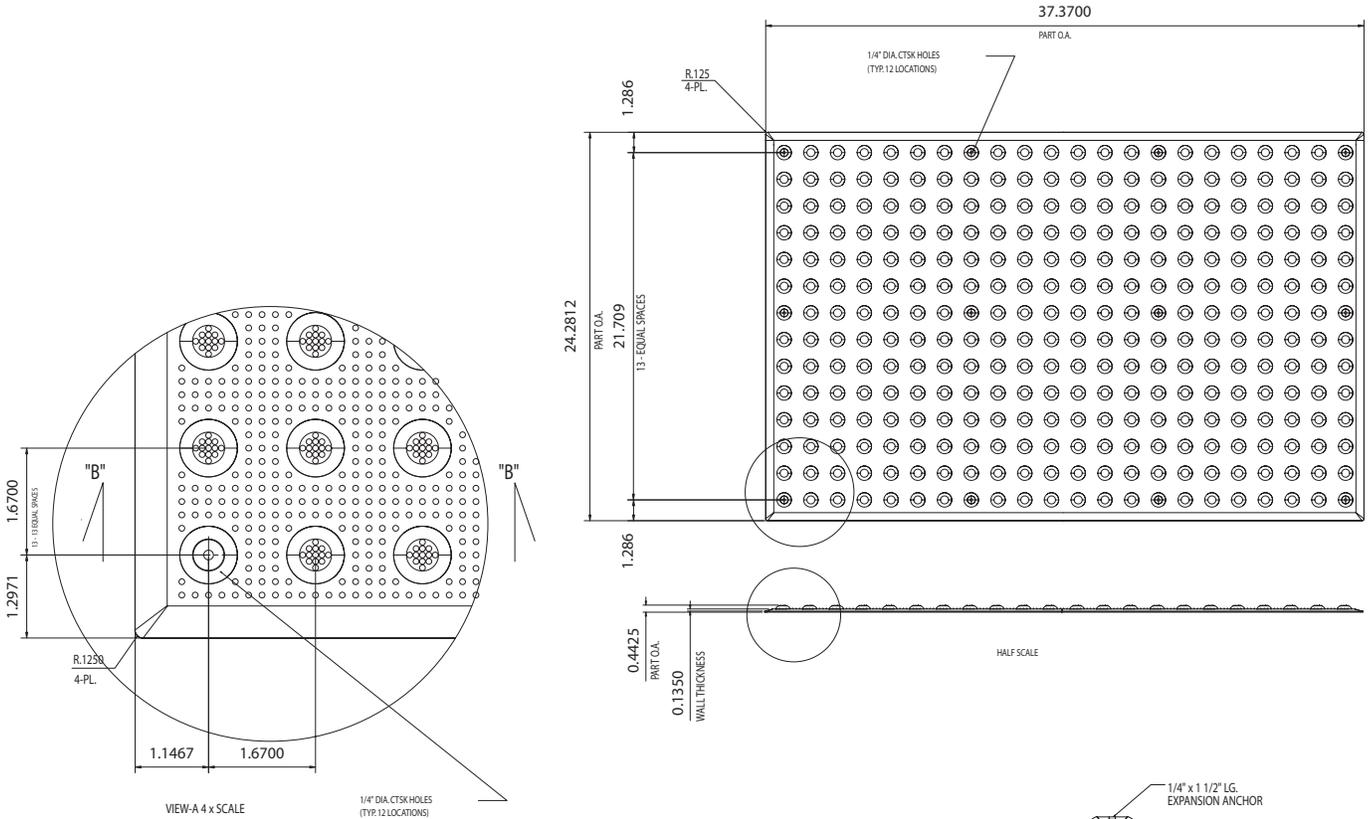
Sealant: Sonneborn NP1, Sikaflex 1A, or equivalent.



Color
Throughout

SURFACE MOUNT COMPOSITE TACTILE

24"x36" Tile
1.67" Dome Spacing



MATERIAL LIST			
ITEM	DESCRIPTION	PART NO.	QTY
1			
2			
3			
4			

SCALE: AS NOTED FULL SIZE

TRADE: DETECTABLE WARNING SURFACE	PART NO.:	SEE MATERIAL LIST
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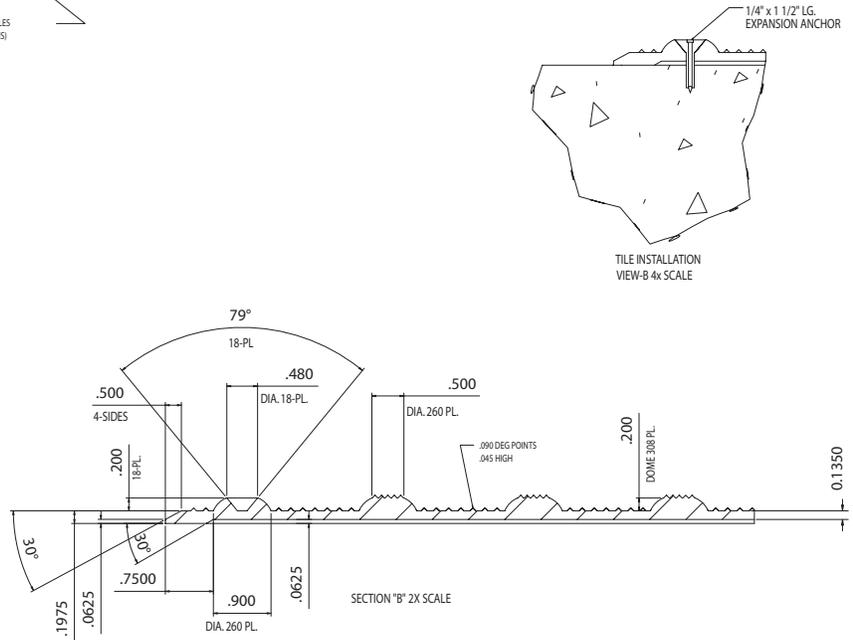
MATERIAL:

PROJECT:

SURFACE APPLIED DETECTABLE WARNING SURFACE SYSTEM
24" x 36" SOUND ATTENUATING CURB RAMP TILE (INLINE DOME)
PLANS AND DETAILS

DRAWING NO.:	REV. NO.:
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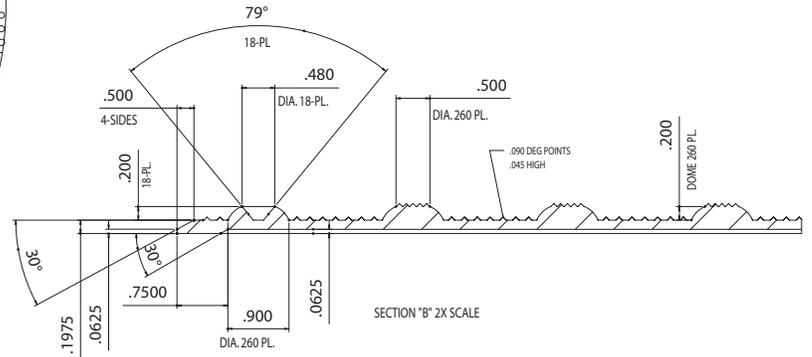
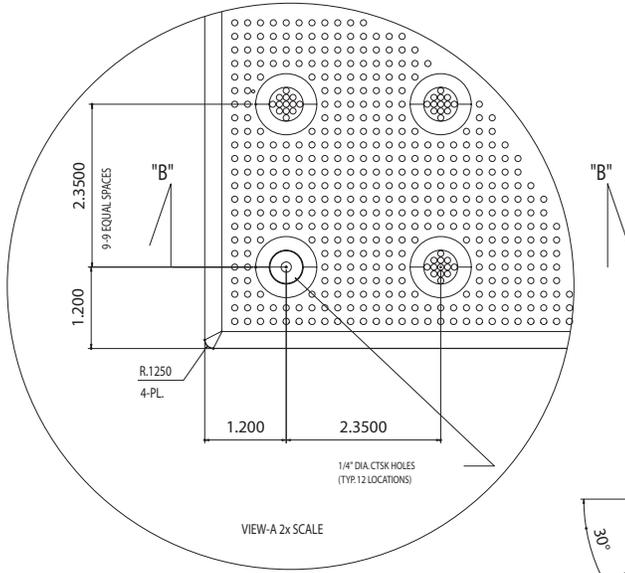
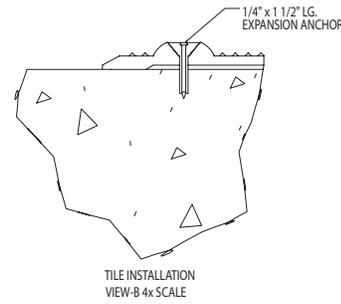
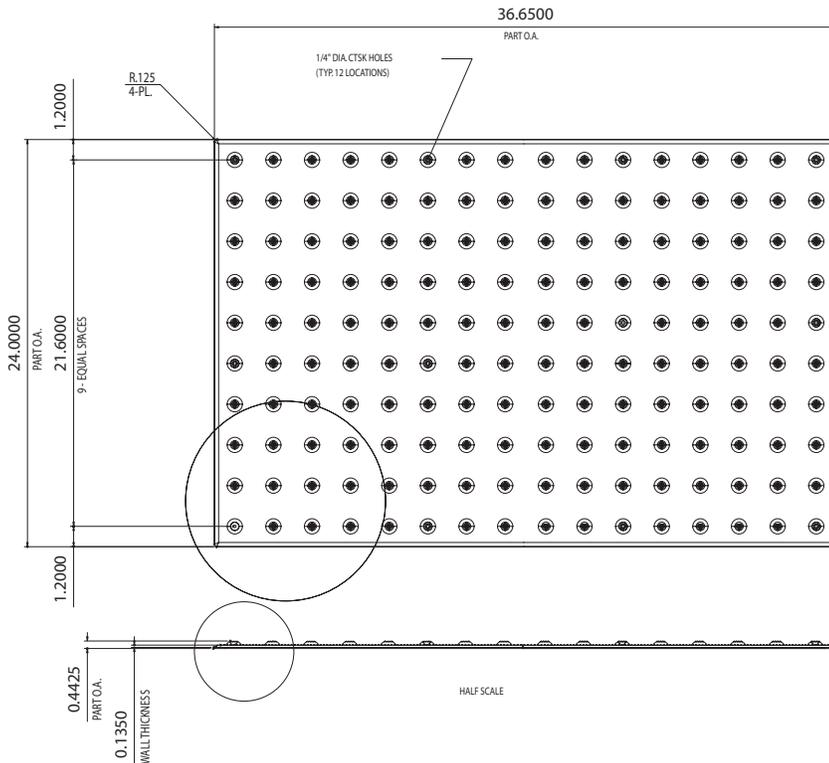
ADA SOLUTIONS, INC.
PO BOX 3
N.BILLERICA, MA 01862



SURFACE MOUNT COMPOSITE TACTILE

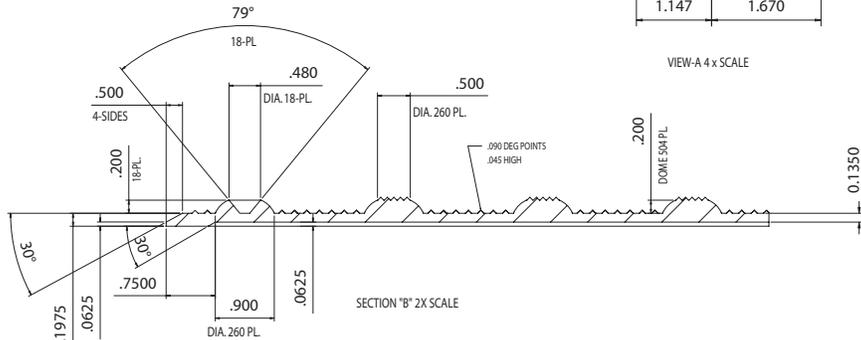
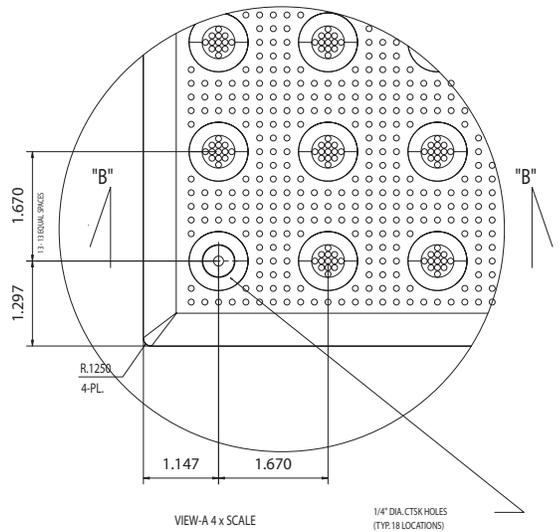
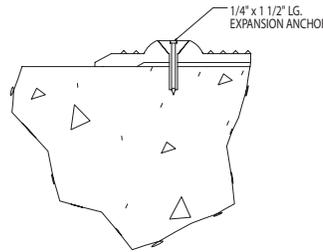
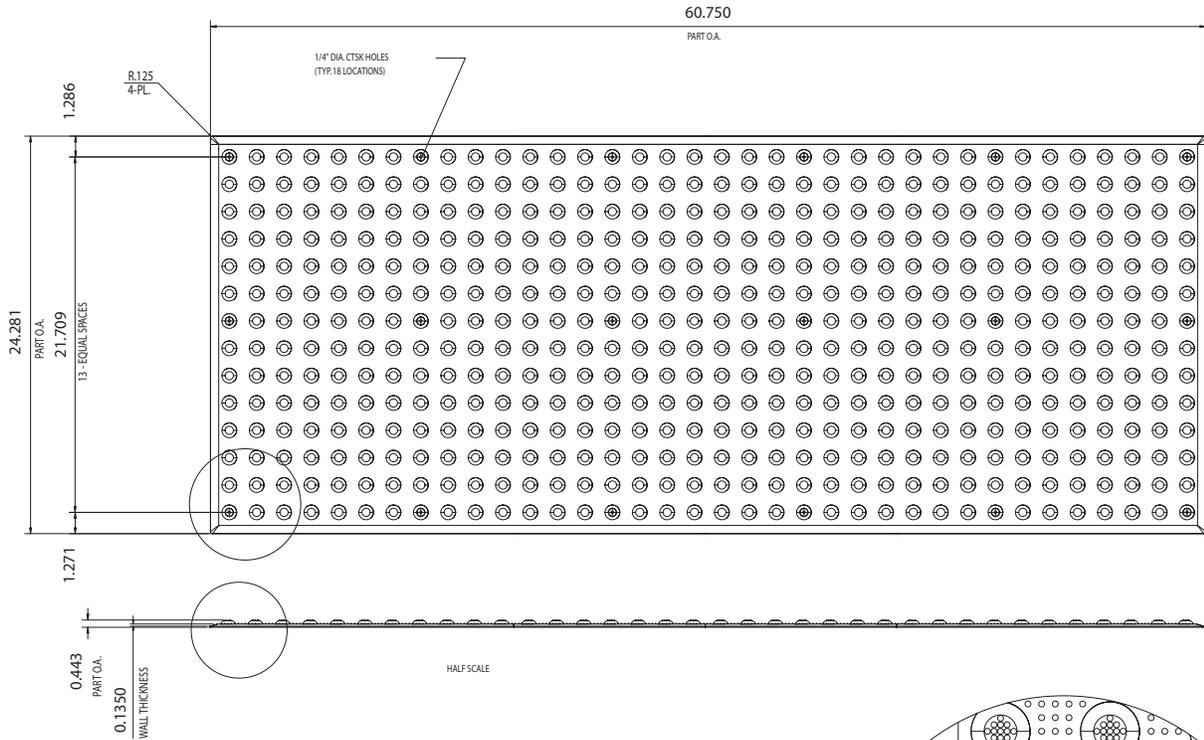
24"x36" Tile
2.35" Dome Spacing

MATERIAL LIST			
ITEM	DESCRIPTION	PART NO.	QTY
1			
2			
3			
4			
SCALE: AS NOTED FULL SIZE			
TRADE: DETECTABLE WARNING SURFACE		PART NO.: SEE MATERIAL LIST	
MATERIAL:			
PROJECT: SURFACE APPLIED DETECTABLE WARNING SURFACE SYSTEM 24" x 36" SOUND ATTENUATING CURB RAMP TILE (INLINE DOME) PLANS AND DETAILS			
DRAWING NO.:			REV. NO.:
ADA SOLUTIONS, INC. PO BOX 3 N.BILLERICA, MA 01862			



SURFACE MOUNT COMPOSITE TACTILE

24"x60" Tile
1.67" Dome Spacing

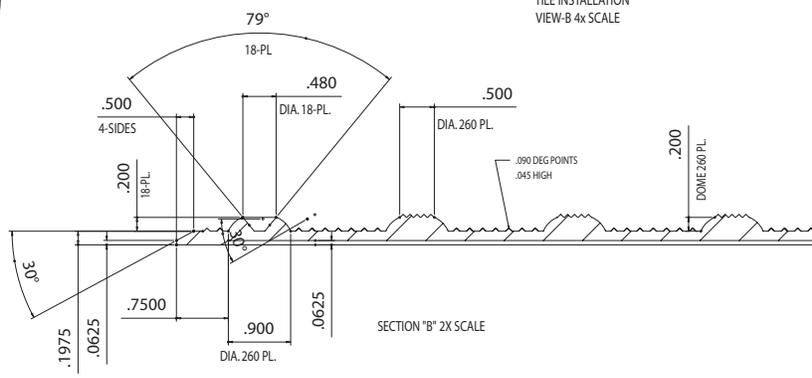
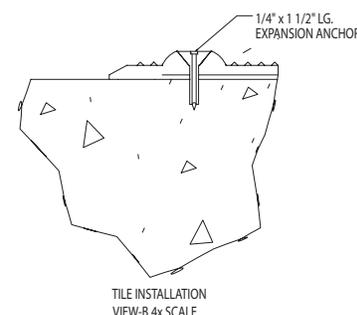
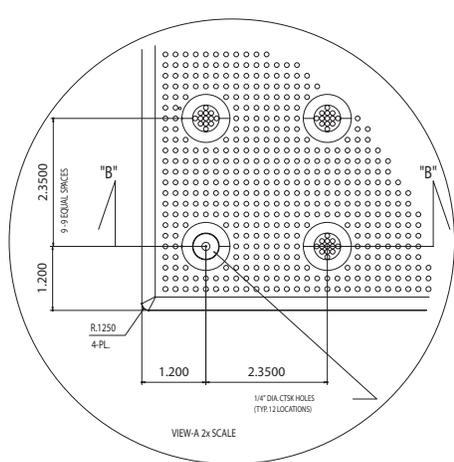
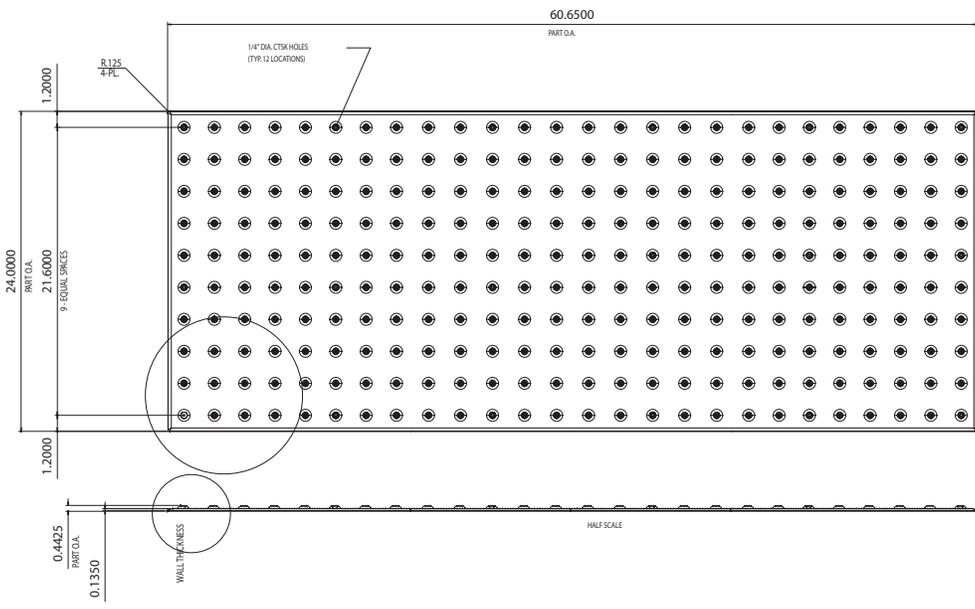


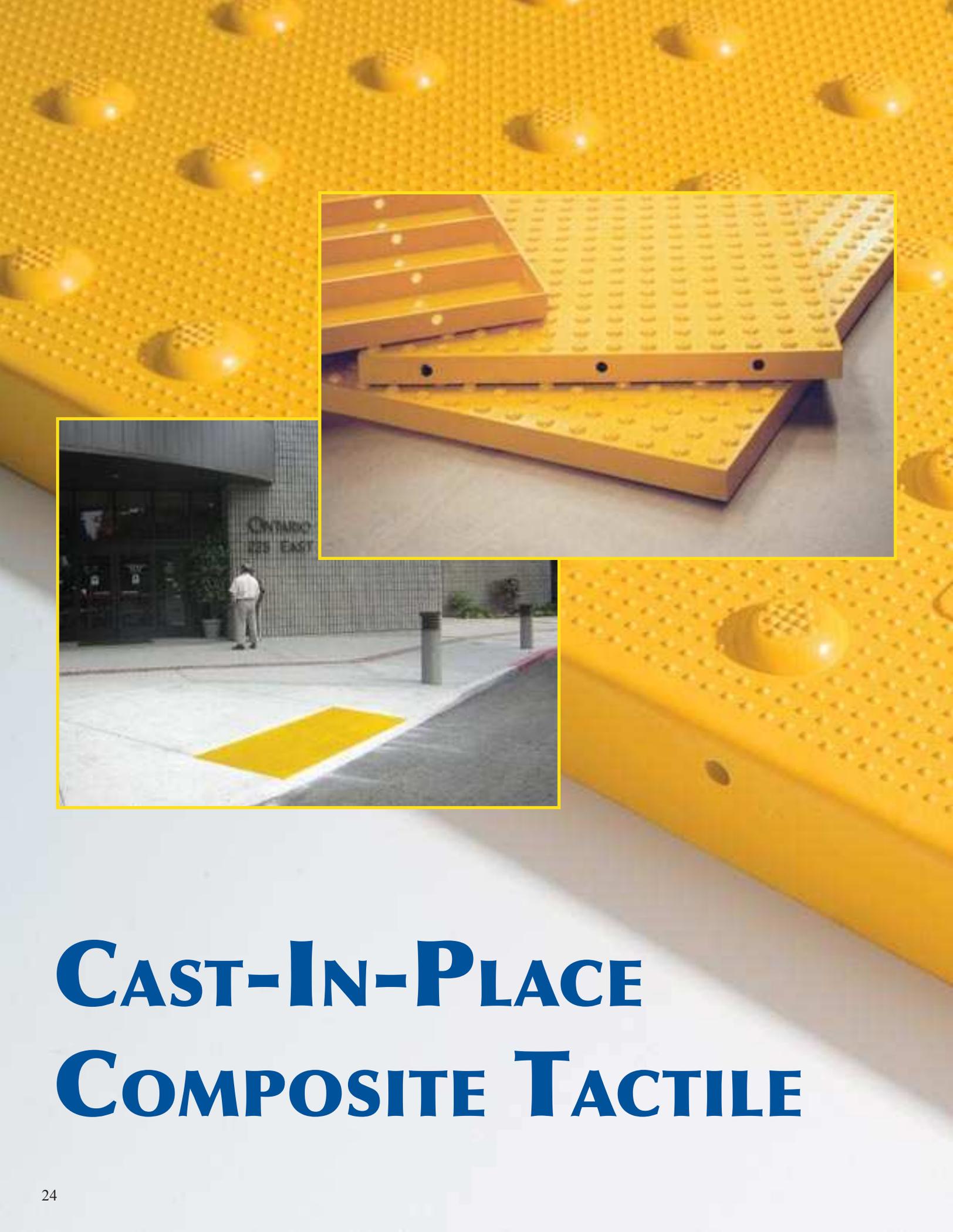
MATERIAL LIST			
ITEM	DESCRIPTION	PART NO.	QTY
1			
2			
3			
4			
SCALE		AS NOTED FULL SIZE	
TRADE	DETECTABLE WARNING SURFACE	PART NO.	SEE MATERIAL LIST
MATERIAL			
PROJECT			
SURFACE APPLIED DETECTABLE WARNING SURFACE SYSTEM 24" x 60" SOUND ATTENUATING CURB RAMP TILE (INLINE DOME) PLANS AND DETAILS			
DRAWING NO.		REV. NO.	
ADA SOLUTIONS, INC. PO BOX 3 N.BILLERICA, MA 01862			

SURFACE MOUNT COMPOSITE TACTILE

24"x60" Tile
2.35" Dome Spacing

MATERIAL LIST			
ITEM	DESCRIPTION	PART NO.	QTY
1			
2			
3			
4			
SCALE AS NOTED			
TRADE DETECTABLE WARNING SURFACE		PART NO. SEE MATERIAL LIST	
MATERIAL			
PROJECT SURFACE APPLIED DETECTABLE WARNING SURFACE SYSTEM 24" x 60" SOUND ATTENUATING CURB RAMP TILE (INLINE DOME) PLANS AND DETAILS			
DRAWING NO.		REV. NO.	
ADA SOLUTIONS, INC. PO BOX 3 N.BILLERICA, MA 01862			





CAST-IN-PLACE COMPOSITE TACTILE



CAST-IN-PLACE COMPOSITE TACTILE

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 to permit the solid placement of the Tactile Unit 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 Tactile Unit.
- C.** Place the Tactile Unit 6-8 inches from the curb line. Working in a grid pattern, tamp the Tactile 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 Tactile Unit surface is flush with the surrounding area. **IMPORTANT: Avoid striking the surface of the Tactile Unit directly.**
- D.** Following the placement, the Tactile Unit elevation should be checked to the adjacent surface with a straight edge. The Tactile 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.** When you are confident that the Tactile Unit is in place, and no further adjustments are needed, place a cinder block on both ends to hold the Tactile Unit in place while the concrete sets.
- F.** During and after the Tactile Unit installation, as well as the concrete curing stage, no walking or external forces can be placed on the Tactile Unit. The area must be protected from pedestrian traffic until concrete is cured. The Tactile Warning Surface will be ready for pedestrian traffic within 1 - 2 hours.
- G.** Be sure to remove plastic protective covering from the face of the Tactile Unit once the concrete is cured.

*Not recommended or warranted for asphalt installation.

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



PRODUCT SIZES
2'x3' 2'x4' 2'x5'
3'x4' 3'x5'

APPLICATION
Fresh Pour
Concrete
Ramps

CAST-IN-PLACE COMPOSITE TACTILE

Inline Dome Pattern

DOME GEOMETRY

In accordance with ADA Regulations for Detectable Warning on Curb Ramps: Raised truncated domes with a diameter of nominal 0.9", a height of nominal 0.2", and a center-to-center spacing of 1.67" minimum, and 2.35" maximum.

PANEL DIMENSIONS

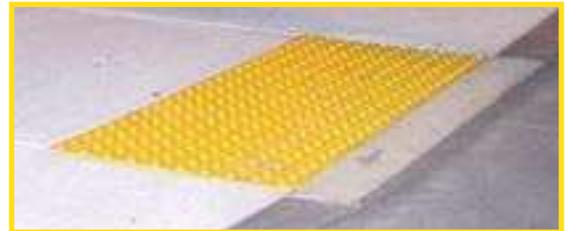
Tactile Units are available in 2'x3', 2'x4', 2'x5', 3'x4' and 3'x5' sizes. Tactile Units may also be custom configured to accommodate specific project requirements. Tactile Units measure 0.25" nominal thickness and feature embedment ribs at 3" on center.

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 Tactile Unit is uniform throughout and does not rely on any type of paint coating to achieve color stability. Standard colors include: Federal Yellow, Brick Red, Clay Red, Dark Gray and Black.

INSTALLATION

Tactile Units are to be used on new curb ramp locations. The Tactile Units can be pre-filled with concrete and set in place or pressed into place in the freshly poured concrete.



PHYSICAL CHARACTERISTICS

Compressive Strength	28,900 psi	ASTM D 695
Flexural Strength	29,300 psi	ASTM D 790
Water Absorption	.07%	ASTM D 570
Slip Resistance	1.18 Dry, 1.05 Wet	ASTM C 1028
Flame Spread Index	20	ASTM E 84
Salt Spray	No Change (200 hours)	ASTM B 117
Chemical Stain Testing	No Deterioration	ASTM 1308
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 lbs.	No Damage	AASHTO-H20
Freeze/Thaw/Heat	No Disintegration	ASTM C 1026

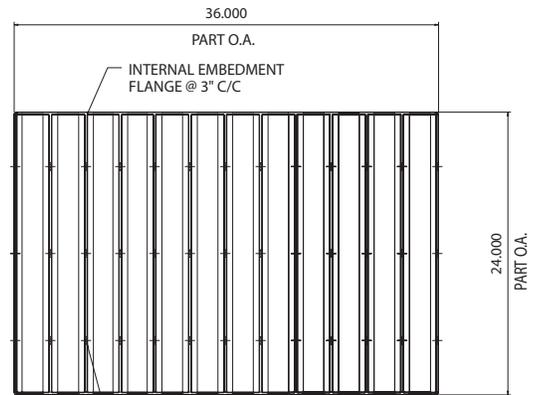
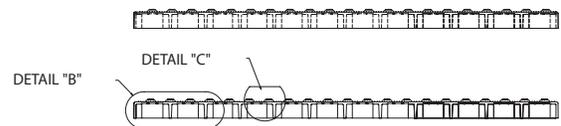
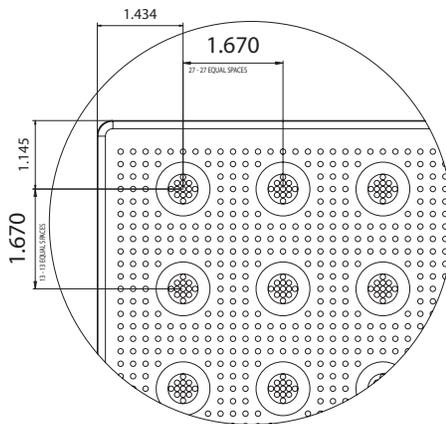
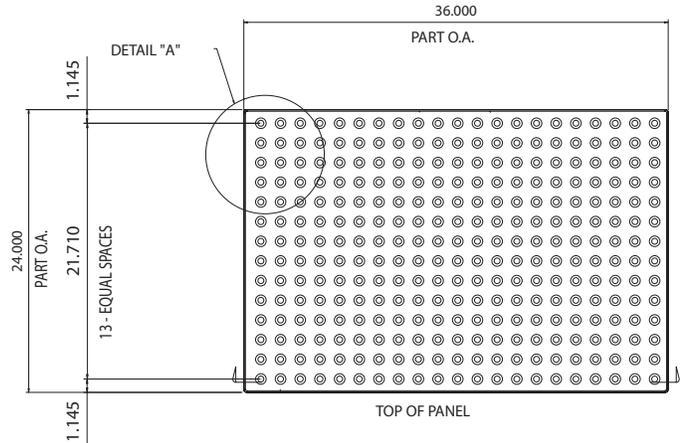
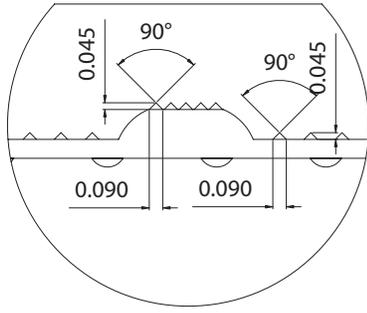


Color
Throughout

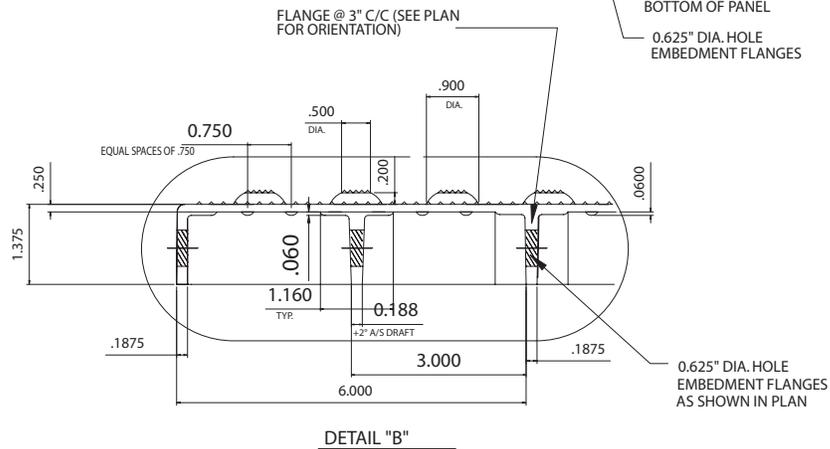
5-Year
Warranty

CAST-IN-PLACE COMPOSITE TACTILE

24"x36" Tile
1.67" Dome Spacing

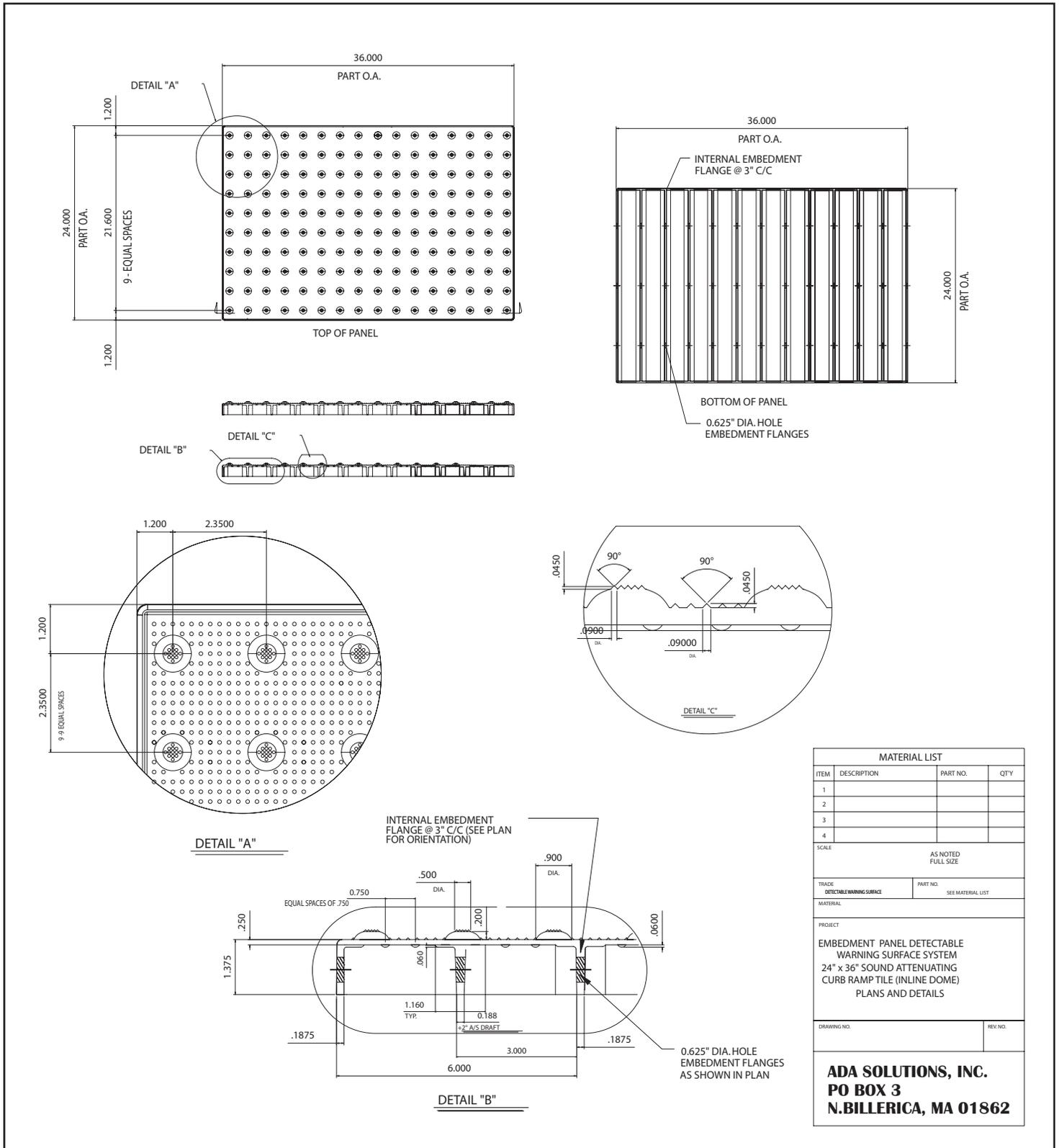


MATERIAL LIST			
ITEM	DESCRIPTION	PART NO.	QTY
1			
2			
3			
4			
SCALE		AS NOTED FULL SIZE	
TRADE		PART NO. SEE MATERIAL LIST	
DETECTABLE WARNING SURFACE			
MATERIAL			
PROJECT			
EMBEDMENT PANEL DETECTABLE WARNING SURFACE SYSTEM 24" x 36" SOUND ATTENUATING CURB RAMP TILE (INLINE DOME) PLANS AND DETAILS			
DRAWING NO.		REV. NO.	
ADA SOLUTIONS, INC. PO BOX 3 N.BILLERICA, MA 01862			



CAST-IN-PLACE COMPOSITE TACTILE

24"x36" Tile
2.35" Dome Spacing



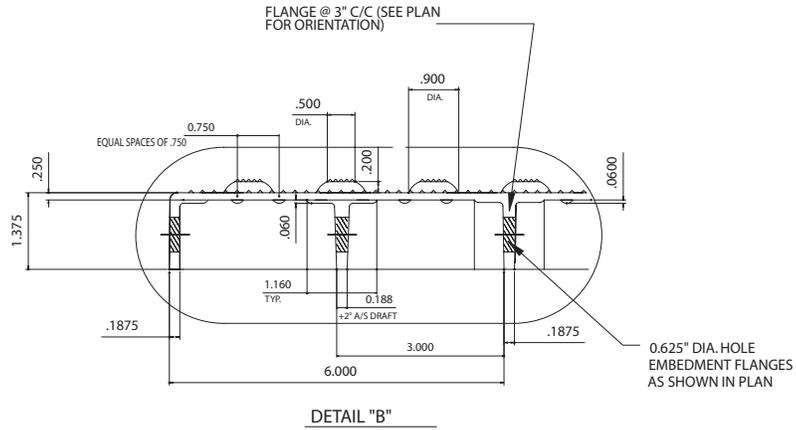
MATERIAL LIST			
ITEM	DESCRIPTION	PART NO.	QTY
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2			
3			
4			
SCALE		AS NOTED FULL SIZE	
TRADE DETECTABLE WARNING SURFACE		PART NO. SEE MATERIAL LIST	
PROJECT			
EMBEDMENT PANEL DETECTABLE WARNING SURFACE SYSTEM 24" x 36" SOUND ATTENUATING CURB RAMP TILE (INLINE DOME) PLANS AND DETAILS			
DRAWING NO.		REV. NO.	
ADA SOLUTIONS, INC. PO BOX 3 N.BILLERICA, MA 01862			

CAST-IN-PLACE COMPOSITE TACTILE

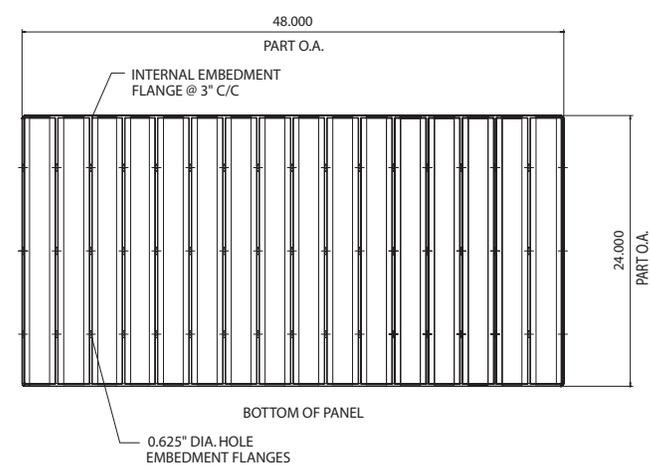
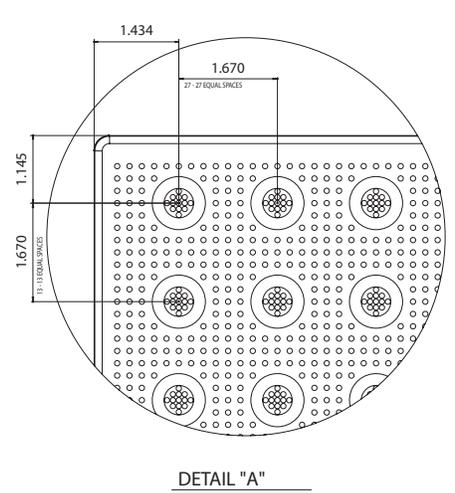
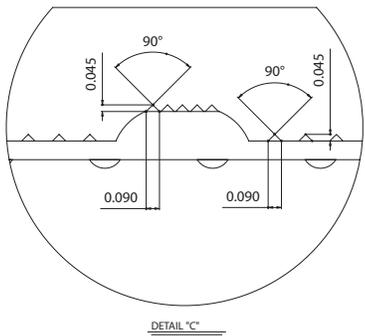
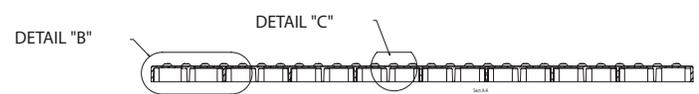
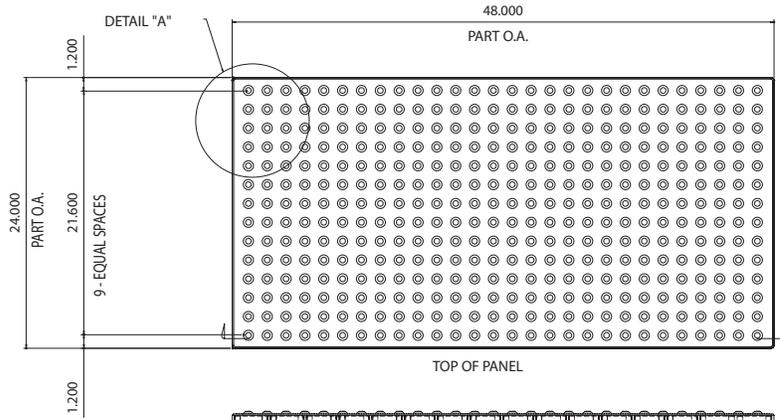
24"x48"

1.67" Dome Spacing

MATERIAL LIST			
ITEM	DESCRIPTION	PART NO.	QTY
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2			
3			
4			
SCALE		AS NOTED FULL SIZE	
TRADE	DETECTABLE WARNING SURFACE	PART NO.	SEE MATERIAL LIST
MATERIAL			
PROJECT			
EMBEDMENT PANEL DETECTABLE WARNING SURFACE SYSTEM 24" x 48" SOUND ATTENUATING CURB RAMP TILE (INLINE DOME) PLANS AND DETAILS			
DRAWING NO.		REV. NO.	
ADA SOLUTIONS, INC. PO BOX 3 N.BILLERICA, MA 01862			

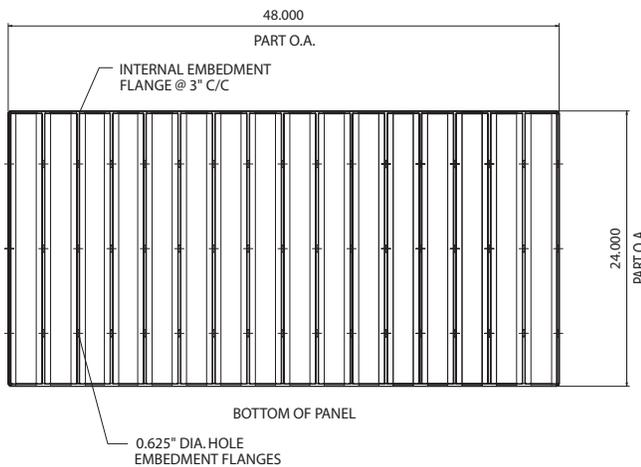
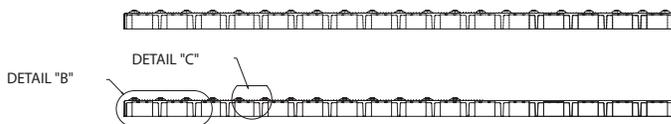
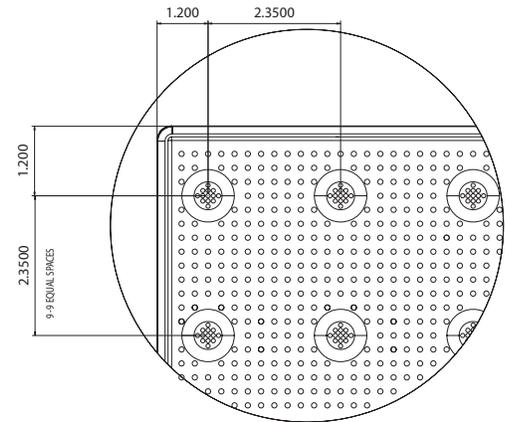
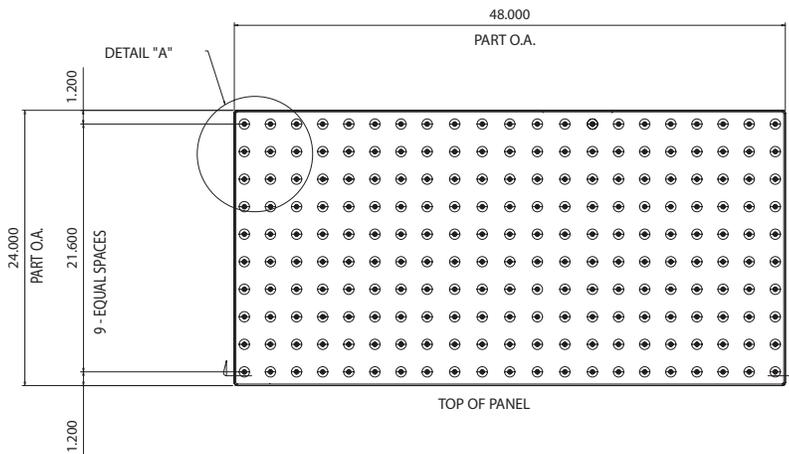
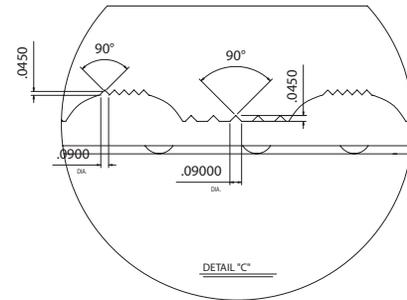
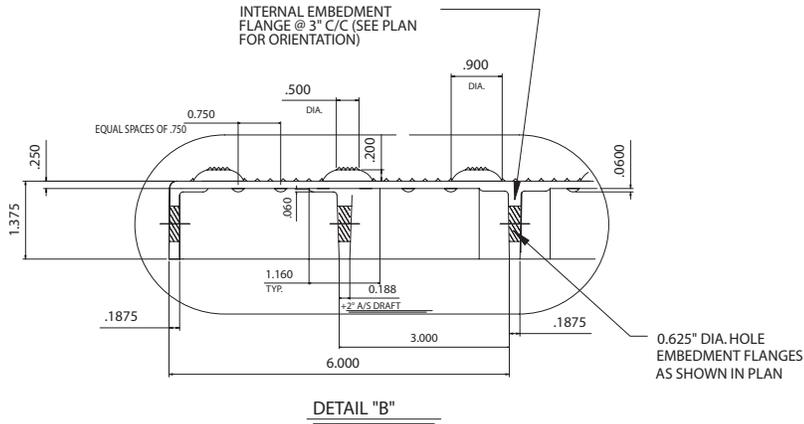


DETAIL "B"



CAST-IN-PLACE COMPOSITE TACTILE

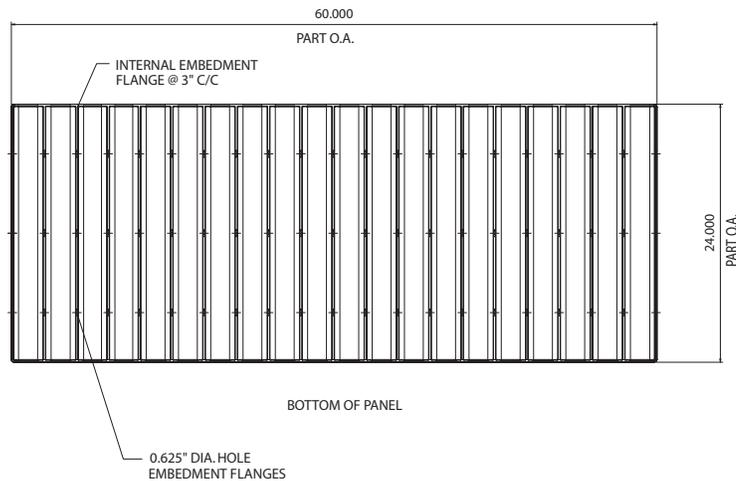
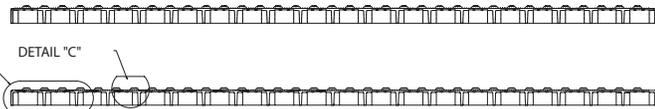
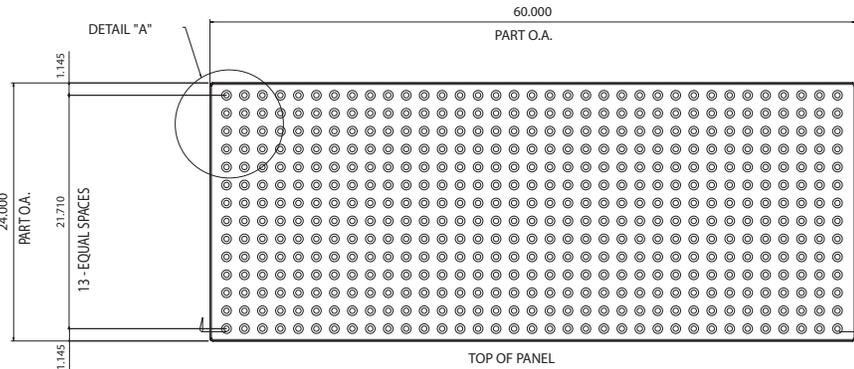
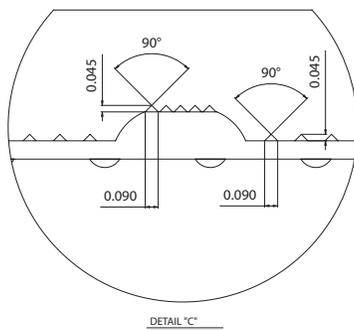
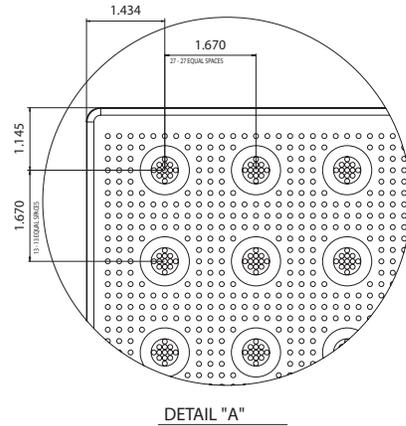
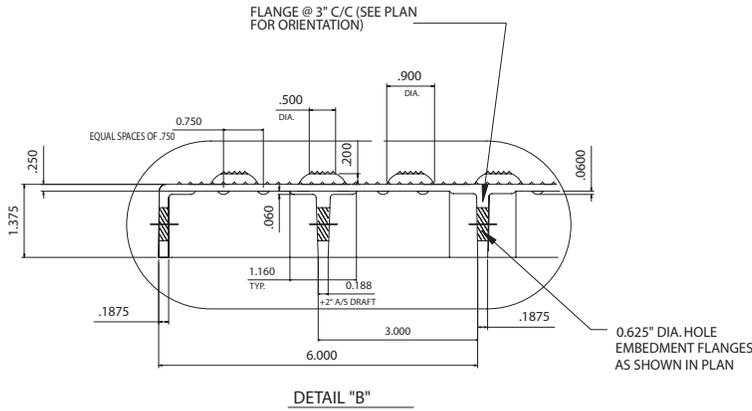
24"x48" Tile
2.35" Dome Spacing



MATERIAL LIST			
ITEM	DESCRIPTION	PART NO.	QTY
1			
2			
3			
4			
SCALE		AS NOTED FULL SIZE	
TRADE DETECTABLE WARNING SURFACE		PART NO. SEE MATERIAL LIST	
PROJECT EMBEDMENT PANEL DETECTABLE WARNING SURFACE SYSTEM 24" x 48" SOUND ATTENUATING CURB RAMP TILE (INLINE DOME) PLANS AND DETAILS			
DRAWING NO.		REV. NO.	
<p>ADA SOLUTIONS, INC. PO BOX 3 N.BILLERICA, MA 01862</p>			

CAST-IN-PLACE COMPOSITE TACTILE

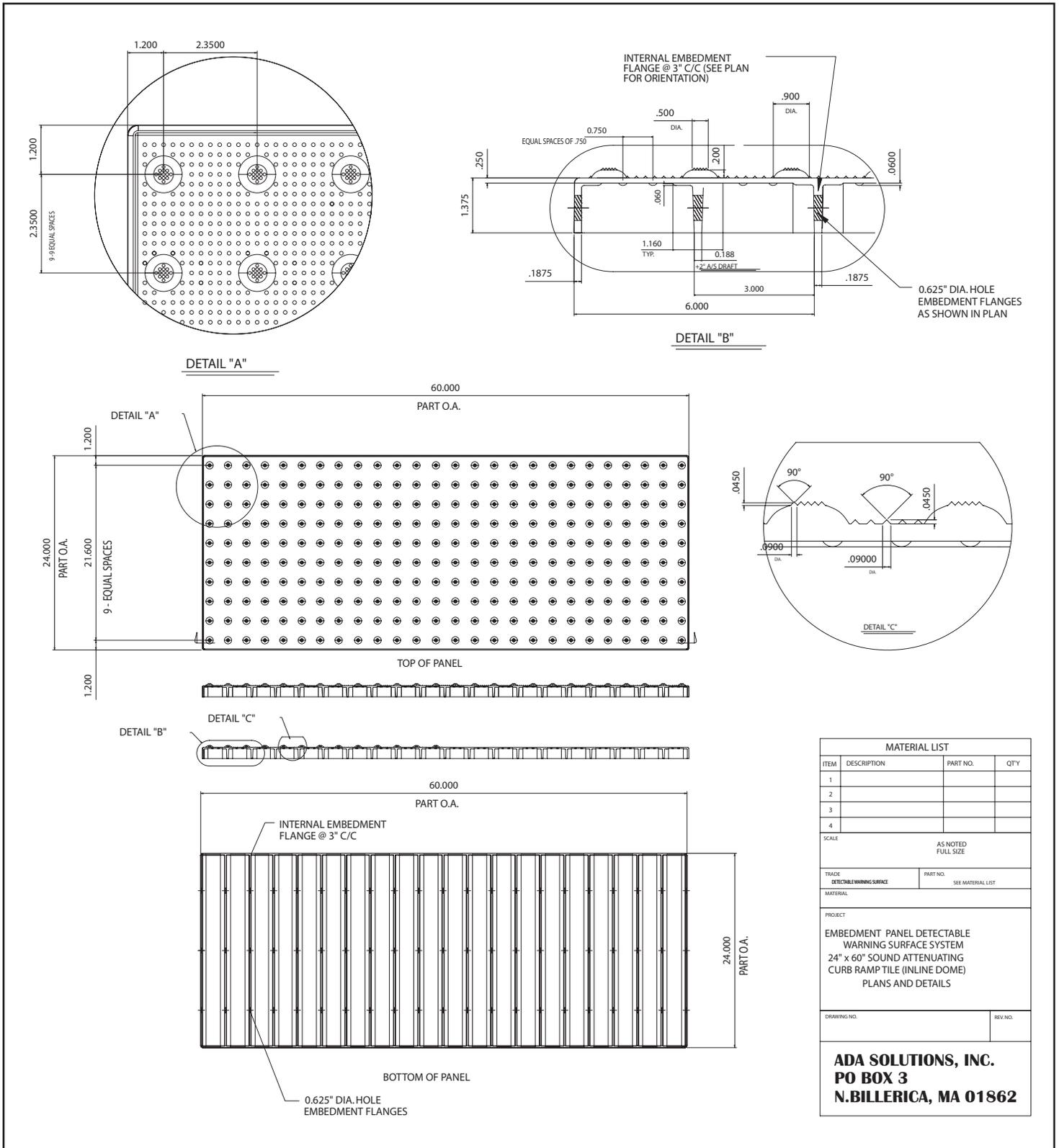
24"x60" Tile
1.67" Dome Spacing



MATERIAL LIST			
ITEM	DESCRIPTION	PART NO.	QTY
1			
2			
3			
4			
SCALE: AS NOTED FULL SIZE			
TRADE: DETECTABLE WARNING SURFACE		PART NO. SEE MATERIAL LIST	
PROJECT: EMBEDMENT PANEL DETECTABLE WARNING SURFACE SYSTEM 24" x 60" SOUND ATTENUATING CURB RAMP TILE (INLINE DOME) PLANS AND DETAILS			
DRAWING NO.		REV. NO.	
ADA SOLUTIONS, INC. PO BOX 3 N.BILLERICA, MA 01862			

CAST-IN-PLACE COMPOSITE TACTILE

24"x60" Tile
2.35" Dome Spacing

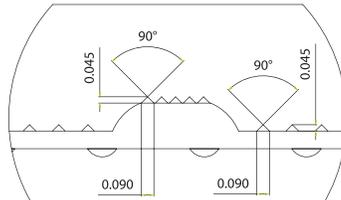


CAST-IN-PLACE COMPOSITE TACTILE

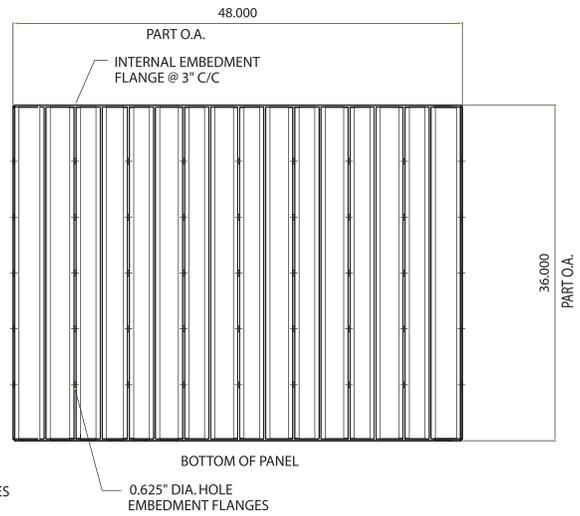
36"x48" Tile
1.67" Dome Spacing

MATERIAL LIST			
ITEM	DESCRIPTION	PART NO.	QTY
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2			
3			
4			
SCALE: AS NOTED FULL SIZE			
TRADE: DETECTABLE WARNING SURFACE		PART NO.: SEE MATERIAL LIST	
PROJECT: EMBEDMENT PANEL DETECTABLE WARNING SURFACE SYSTEM 36" x 48" SOUND ATTENUATING CURB RAMP TILE (INLINE DOME) PLANS AND DETAILS			
DRAWING NO.		REV. NO.	

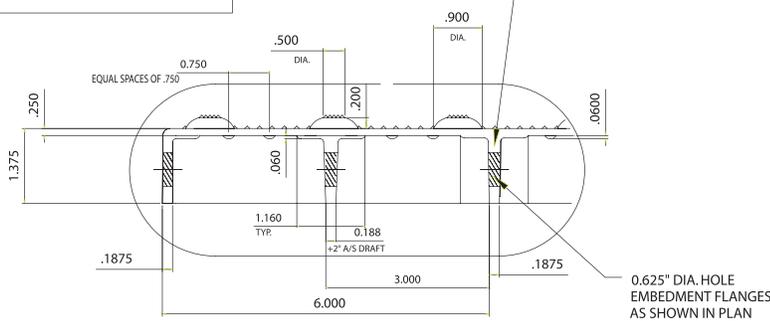
ADA SOLUTIONS, INC.
PO BOX 3
N.BILLERICA, MA 01862



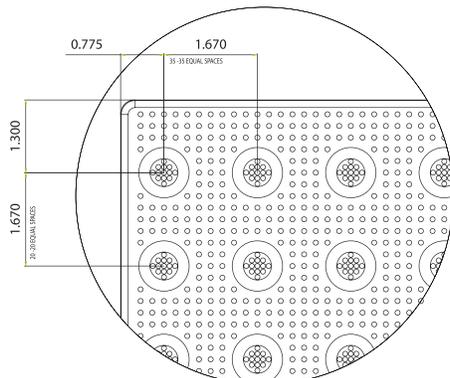
DETAIL "C"



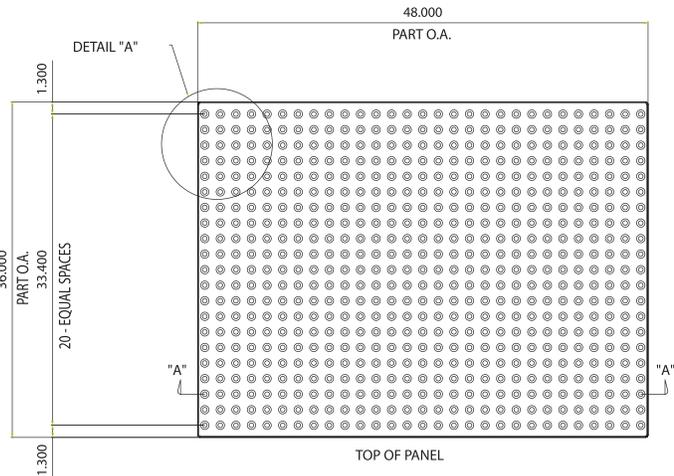
BOTTOM OF PANEL
 0.625" DIA. HOLE EMBEDMENT FLANGES AS SHOWN IN PLAN



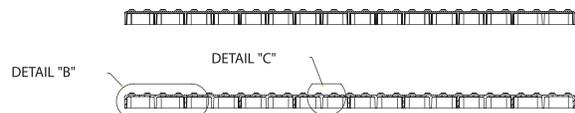
DETAIL "B"



DETAIL "A"



TOP OF PANEL

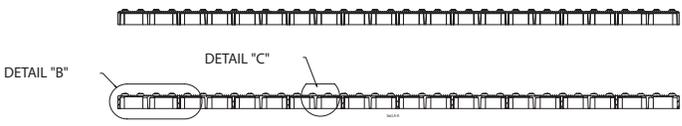
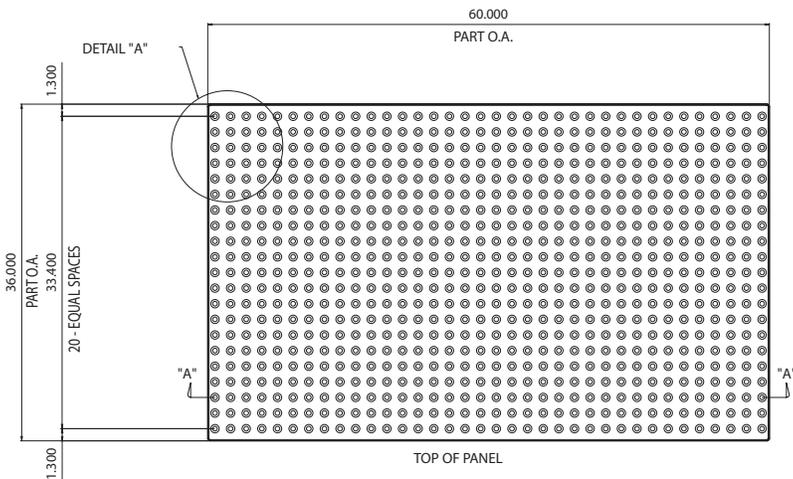
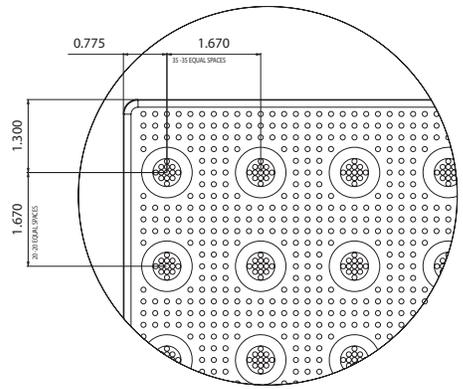
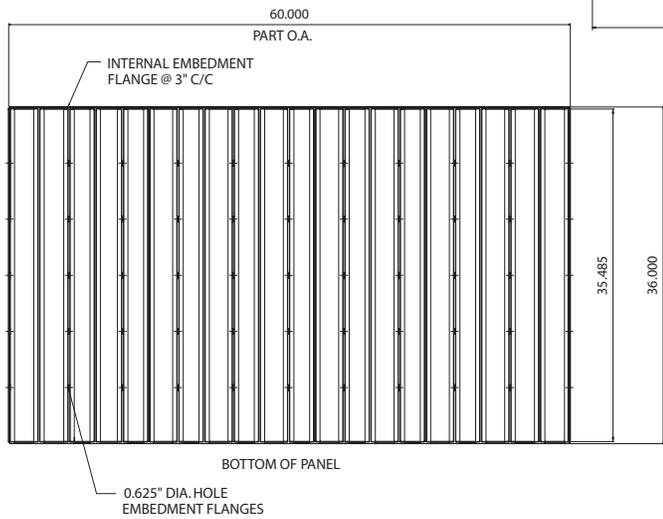
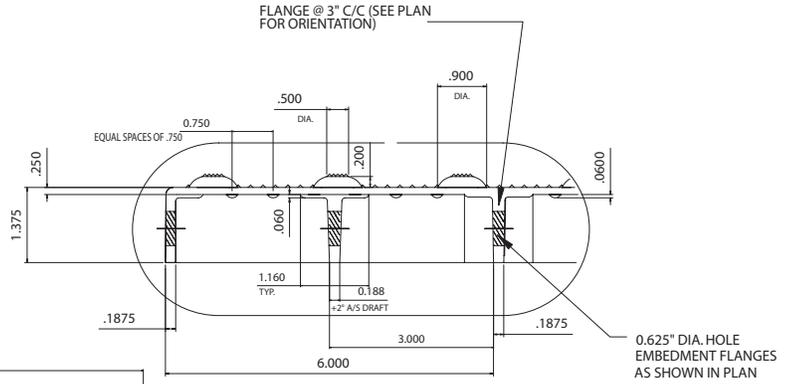
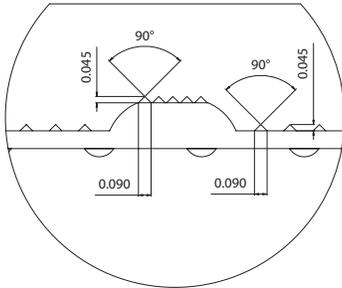


DETAIL "B"

DETAIL "C"

CAST-IN-PLACE COMPOSITE TACTILE

36"x60" Tile
1.67" Dome Spacing



MATERIAL LIST			
ITEM	DESCRIPTION	PART NO.	QTY.
1			
2			
3			
4			
SCALE		AS NOTED FULL SIZE	
TRADE DETECTABLE WARNING SURFACE		PART NO. SEE MATERIAL LIST	
PROJECT			
EMBEDMENT PANEL DETECTABLE WARNING SURFACE SYSTEM 36" x 60" SOUND ATTENUATING CURB RAMP TILE (INLINE DOME) PLANS AND DETAILS			
DRAWING NO.		REV. NO.	
<p>ADA SOLUTIONS, INC. PO BOX 3 N.BILLERICA, MA 01862</p>			

Summary

To view the entire report published by the Access Board go to
<http://www.access-board.gov/rowdraft.htm>

REVISED DRAFT GUIDELINES:

Accessible Public Rights-Of-Way (11/23/05)

R304 Detectable Warning Surfaces

R304.1 General. Detectable warnings shall consist of a surface of truncated domes aligned in a square or radial grid pattern and shall comply with R304.

R304.1.1 Dome Size. Truncated domes in a detectable warning surface shall have a base diameter of 23 mm (0.9 in) minimum to 36 mm (1.4 in) maximum, a top diameter of 50 percent of the base diameter minimum to 65 percent of the base diameter maximum, and a height of 5 mm (0.2 in).

R304.1.2 Dome Spacing. Truncated domes in a detectable warning surface shall have a center-to-center spacing of 41 mm (1.6 in) minimum and 61 mm (2.4 in) maximum, and a base-to-base spacing of 17 mm (.65 in) minimum, measured between the most adjacent domes.

R304.1.3 Contrast. Detectable warning surfaces shall contrast visually with adjacent gutter, street or highway, or walkway surface, either light-on-dark, or dark-on-light.

R304.1.4 Size. Detectable warning surfaces shall extend 610 mm (24 in) minimum in the direction of travel and the full width of the curb ramp (exclusive of flares), the landing, or the blended transition.

R304.2 Location and Alignment

R304.2.1 Perpendicular Curb Ramps. Where both ends of the bottom grade break complying with R303.3.4 are 1.5 m (5.0 ft) or less from the back of the curb, the detectable warning shall be located on the ramp surface at the bottom grade break. Where either end of the bottom grade break is more than 1.5 m (5.0 ft) from the back of the curb, the detectable warning shall be located on the lower landing.

R304.2.2 Landings and Blended Transitions. The detectable warning shall be located on the landing or blended transition at the back of the curb.

R304.2.3 Alignment. The rows of truncated domes in a detectable warning surface shall be aligned to be perpendicular or radial to the grade break between the ramp, landing, or blended transition and the street.



THE ONLY COMPLETE DETECTABLE WARNING AND WAYFINDING SOLUTION FOR THE VISUALLY IMPAIRED





- **INDUSTRY LEADING SERVICE,
DELIVERY AND PRICE**
- **ONE PIECE APPLICATION**
- **TIME-SAVING INSTALLATION**
- **REPLACEABLE COMPOSITE (WET-SET)**
- **SURFACE MOUNT (RETROFIT)**
- **CAST IN PLACE (WET-SET)**
- **ADAAG COMPLIANT**
- **AVAILABLE STANDARD SIZES**
2'x3' • 2'x4' • 2'x5' • 3'x4' • 3'x5'
- **UNIFORM COLOR THROUGHOUT**

