



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION

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## NOTICE OF ACCEPTANCE (NOA)

Artezanos, Inc.  
9455 SW 78<sup>th</sup> Street  
Miami, FL 33173

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code including the High Velocity Hurricane Zone of the Florida Building Code.

### DESCRIPTION: Artezanos World Class – Hybrid Systems

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA consists of pages 1 through 12.

The submitted documentation was reviewed by Alex Tigera.



NOA No.: 13-0702.01  
Expiration Date: 05/14/19  
Approval Date: 05/22/14  
Page 1 of 12

## ROOFING ASSEMBLY APPROVAL

**Category:** Roofing  
**Sub-Category:** Hybrid Roofing System  
**Material:** Clay / Steel / Aluminum  
**Deck Type:** Wood

### 1. SCOPE

This approves a roofing system using “**Artezanos World Class – Hybrid Systems**, as manufactured by Artezanos, Inc. in **Cucuta, Colombia** and **Miami, FL**. as described in Section 2 of this Notice of Acceptance. For the locations where the pressure requirements, as determined by applicable Building Code, does not exceed the values listed in section 4 herein. The attachment calculations shall be done as a moment based system.

### 2. PRODUCT DESCRIPTION

<u>Manufactured by Applicant</u>	<u>Dimensions</u>	<u>Test Specifications</u>	<u>Product Description</u>
<b>2 Piece Handmade Tapered Mission Barrel Tile</b>	l = 18" w = 8" ½" thick	ASTM C 1167	High profile, two piece, barrel, clay roof tile. For direct deck adhesive or mortar set applications.
<i>Manufacturing Location #1</i>			
<b>Steel Pan</b>	l = 21"- 84" w = 7.5" .0179" thick (26 ga.)	TAS 110	Kynar or Hylar coated steel pan tile to be used in conjunction with Handmade Tapered Mission Barrel Tile as the cap. For direct deck adhesive set applications.
<i>Manufacturing Location #2</i>			
<b>Aluminum Pan #1</b>	l = 21"-84" w = 7.5 – 18" .025" thick (22 ga.)	TAS 110	Aluminum pan tile (with optional coating of Kynar or Hylar) to be used in conjunction with Handmade Tapered Mission Barrel Tile as the cap. <b>The bent edges each contain one row of perforations.</b> For direct deck adhesive set applications.
<i>Manufacturing Location #2</i>			
<b>Aluminum Pan #2</b>	l = 21"-84" w = 8.5" .025" thick (22 ga.)	TAS 110	Aluminum pan tile (with optional coating of Kynar or Hylar) to be used in conjunction with Handmade Tapered Mission Barrel Tile as the cap. <b>The bent edges each contain two rows of perforations.</b> For direct deck adhesive set applications.
<i>Manufacturing Location #2</i>			
<b>Trim Pieces</b>	l = varies w = varies varying thickness	ASTM C 1167	Accessory trim, clay roof pieces for use at hips, rakes, ridges and valley terminations.



## 2.1 MANUFACTURING LOCATION

1. Cucuta, Colombia
2. Miami, FL.

## 2.2 EVIDENCE SUBMITTED:

<u>Test Agency</u>	<u>Test Identifier</u>	<u>Test Name/Report</u>	<u>Date</u>
IBA Consultants Inc.	2352-53	TAS 101 (Adhesive Set with Steel Pan)	April 2008
	2352-59	TAS 101 (Adhesive Set with Aluminum Pan#1)	April 2008
Walker Engineering		Thermal Expansion of Steel, Concrete and Clay Components	
Southwest Research Institute	01.13537.01.310	ASTM E-108	April 2008
American Test Lab of South Florida	RT0505.02-09	ASTM C 1167	May 2009
	RT0505.01-09	ASTM C 1167	May 2009
	RT0610.01-13	ASTM C 1167	06/20/13
	RT0610.02-13	ASTM C 1167	06/20/13
	RT0226.01-14	TAS 101 (Adhesive Set with Aluminum Pan#2)	03/05/14
	RT1023.01-13	TAS 101 (Adhesive Set with Aluminum Pan#2)	12/11/13
	Rt1221.01-11	TAS 114 D	12/23/11

### **3. LIMITATIONS**

- 3.1** Fire classification is not part of this acceptance.
- 3.2** For mortar or adhesive set tile applications, a static field uplift test in accordance with TAS 106 may required, refer to applicable building code.
- 3.3** Applicant shall retain the services of a Miami-Dade County Certified Laboratory to perform quarterly test in accordance with TAS 112, appendix 'A'. Such testing shall be submitted to the Building Code Compliance Office for review.
- 3.4** Minimum underlayments shall be in compliance with the applicable Roofing Applications Standards listed section 4.1, 4.3, and 4.5 herein.
- 3.5** 30/90 hot mopped underlayment applications may be installed perpendicular to the roof slope unless stated otherwise by the underlayment material manufacturers published literature.
- 3.6** This acceptance is for wood deck applications. Minimum deck requirements shall be in compliance with applicable building code.
- 3.7** When using Steel or Aluminum Pan tile, panels must be clean to ensure proper adhesion.



#### 4. INSTALLATION

##### System A(1): Handmade Barrel Tile with Steel Pan Tile

- 4.1 World Class Two Piece Handmade Tapered Mission Roofing Tile” and its components shall be installed in strict compliance with Roofing Application Standard RAS 120. (See Detail A)
- 4.2 Data For Attachment Calculations

Table 1: Average Weight (W) and Dimensions (l x w )			
Tile Profile	Weight-W (lbf)	Length-l (ft)	Width-w (ft)
Handmade Tapered Mission Tile/Steel Pan	5.2	1.5	0.667

Table 2: Aerodynamic Multipliers - $\lambda$ (ft <sup>3</sup> )		
Tile Profile	$\lambda$ (ft <sup>3</sup> ) Batten Application	$\lambda$ (ft <sup>3</sup> ) Direct Deck Application
Handmade Tapered Mission Tile/Steel Pan	N/A	0.22

Table 3: Restoring Moments due to Gravity - $M_g$ (ft-lbf)						
Tile Profile	2":12"	3":12"	4":12"	5":12"	6":12"	7":12"
Handmade Tapered Mission Tile/Steel Pan	5.13	5.05	4.93	4.77	4.56	4.29

Table 4: Attachment Resistance Expressed as a Moment - $M_r$ (ft-lbf) for Mortar or Adhesive Set Systems		
Tile Profile	Tile Application	Attachment Resistance
Handmade Tapered Mission Tile/Steel Pan	3M™ 2-Component Foam Roof Tile Adhesive AH-160	39.57 <sup>1</sup>
1. Place 9.3 grams <b>per step</b> of pan and 5 grams on each side of cap of AH-160		



**System A(2): Handmade Barrel Tile with Aluminum Pan #1**

- 4.3 World Class Two Piece Handmade Tapered Mission Roofing Tile” and its components shall be installed in strict compliance with Roofing Application Standard RAS 120. (See Detail B)
- 4.4 Data For Attachment Calculations

<b>Table 1: Average Weight (W) and Dimensions (l x w )</b>			
<b>Tile Profile</b>	<b>Weight-W (lbf)</b>	<b>Length-l (ft)</b>	<b>Width-w (ft)</b>
Handmade Tapered Mission Tile/Aluminum Pan #1	5.2	1.5	0.667

<b>Table 2: Aerodynamic Multipliers - <math>\lambda</math> (ft<sup>3</sup>)</b>		
<b>Tile Profile</b>	<b><math>\lambda</math> (ft<sup>3</sup>) Batten Application</b>	<b><math>\lambda</math> (ft<sup>3</sup>) Direct Deck Application</b>
Handmade Tapered Mission Tile/Aluminum Pan #1	N/A	0.22

<b>Table 3: Restoring Moments due to Gravity - M<sub>g</sub> (ft-lbf)</b>						
<b>Tile Profile</b>	<b>2":12"</b>	<b>3":12"</b>	<b>4":12"</b>	<b>5":12"</b>	<b>6":12"</b>	<b>7":12"</b>
Handmade Tapered Mission Tile/Aluminum Pan #1	5.08	5.01	4.89	4.74	4.54	4.28

<b>Table 4: Attachment Resistance Expressed as a Moment - M<sub>f</sub> (ft-lbf) for Mortar or Adhesive Set Systems</b>		
<b>Tile Profile</b>	<b>Tile Application</b>	<b>Attachment Resistance</b>
Handmade Tapered Mission Tile/Aluminum Pan #1	3M™ 2-Component Foam Roof Tile Adhesive AH-160	190.84 <sup>2</sup>
2. Place 31.9 grams <b>per step</b> of pan and 17.5 grams on each side of cap of AH-160		



**System A(3): Handmade Barrel Tile with Aluminum Pan #2**

- 4.5 World Class Two Piece Handmade Tapered Mission Roofing Tile” and its components shall be installed in strict compliance with Roofing Application Standard RAS 120. (See Detail C)
- 4.6 Data For Attachment Calculations

<b>Table 1: Average Weight (W) and Dimensions (l x w )</b>			
<b>Tile Profile</b>	<b>Weight-W (lbf)</b>	<b>Length-l (ft)</b>	<b>Width-w (ft)</b>
Handmade Tapered Mission Tile/Aluminum Pan #2	5.2	1.5	0.667

<b>Table 2: Aerodynamic Multipliers - <math>\lambda</math> (ft<sup>3</sup>)</b>		
<b>Tile Profile</b>	<b><math>\lambda</math> (ft<sup>3</sup>) Batten Application</b>	<b><math>\lambda</math> (ft<sup>3</sup>) Direct Deck Application</b>
Handmade Tapered Mission Tile/Aluminum Pan #2	N/A	0.21

<b>Table 3: Restoring Moments due to Gravity - M<sub>g</sub> (ft-lbf)</b>						
<b>Tile Profile</b>	<b>2":12"</b>	<b>3":12"</b>	<b>4":12"</b>	<b>5":12"</b>	<b>6":12"</b>	<b>7":12"</b>
Handmade Tapered Mission Tile/Aluminum Pan #2	2.81	2.77	2.72	2.66	2.59	2.51

<b>Table 4: Attachment Resistance Expressed as a Moment - M<sub>f</sub> (ft-lbf) for Mortar or Adhesive Set Systems</b>		
<b>Tile Profile</b>	<b>Tile Application</b>	<b>Attachment Resistance</b>
Handmade Tapered Mission Tile/Aluminum Pan #2	Touch 'n Seal StormBond Roof Tile Adhesive	92.5 <sup>3</sup>
	Touch 'n Seal StormBond Roof Tile Adhesive	71.2 <sup>4</sup>
3. Place 7.8 grams <b>per step</b> of pan and 8.4 grams on each side of cap of Touch 'n Seal StormBond Roof Tile Adhesive		
4. Place 16.7 grams <b>per step</b> of pan and 12.1 grams on each side of cap of Touch 'n Seal StormBond Roof Tile Adhesive		



## 5. LABELING

- 5.1 All clay tiles shall bear the imprint or identifiable marking of the manufacturer's name or logo as detailed below, or following statement: "Miami-Dade County Product Control Approved".



### ARTEZANOS WORLD CLASS TILE LABEL

(LOCATED ON EITHER TOPSIDE OR UNDERSIDE OF TILE – MAY ALSO CONTAIN A LETTER (A – Z) IN THE CENTER OF THE CIRCLE FOR TRACKING PURPOSES)

- 5.2 All metal panels shall be permanently labeled with the manufacturer's name and/or logo, city, state, and the following statement: "Miami-Dade County Product Control Approved" **or** with the Miami-Dade County Product Control Seal as seen below.

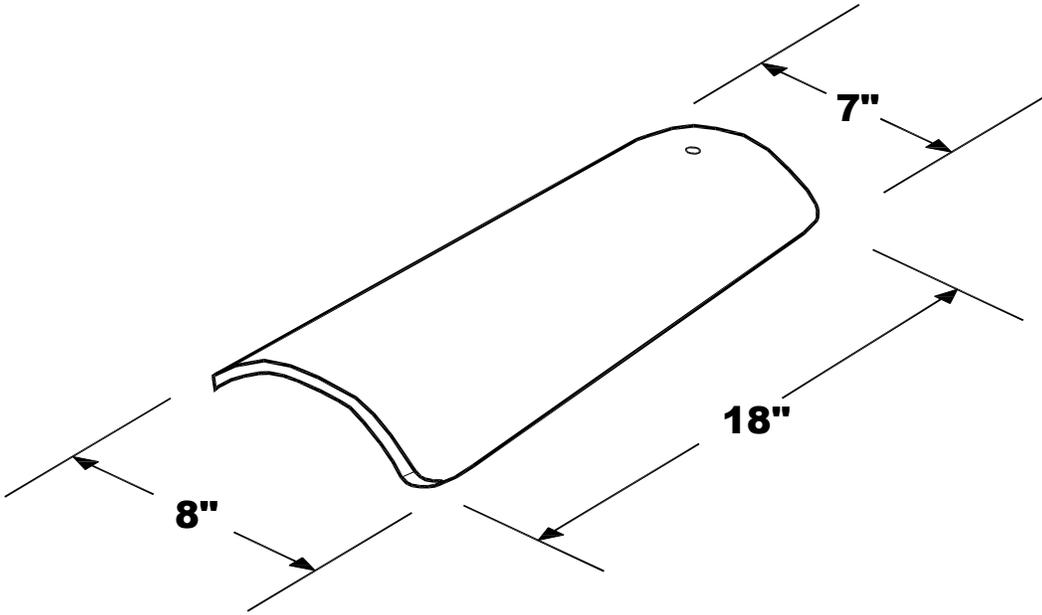


## 6. BUILDING PERMIT REQUIREMENTS

- 6.1 Application for building permit shall be accompanied by copies of the following:
- 6.1.1 This Notice of Acceptance.
  - 6.1.2 Any other documents required by the Building Official or applicable building code in order to properly evaluate the installation of this system.



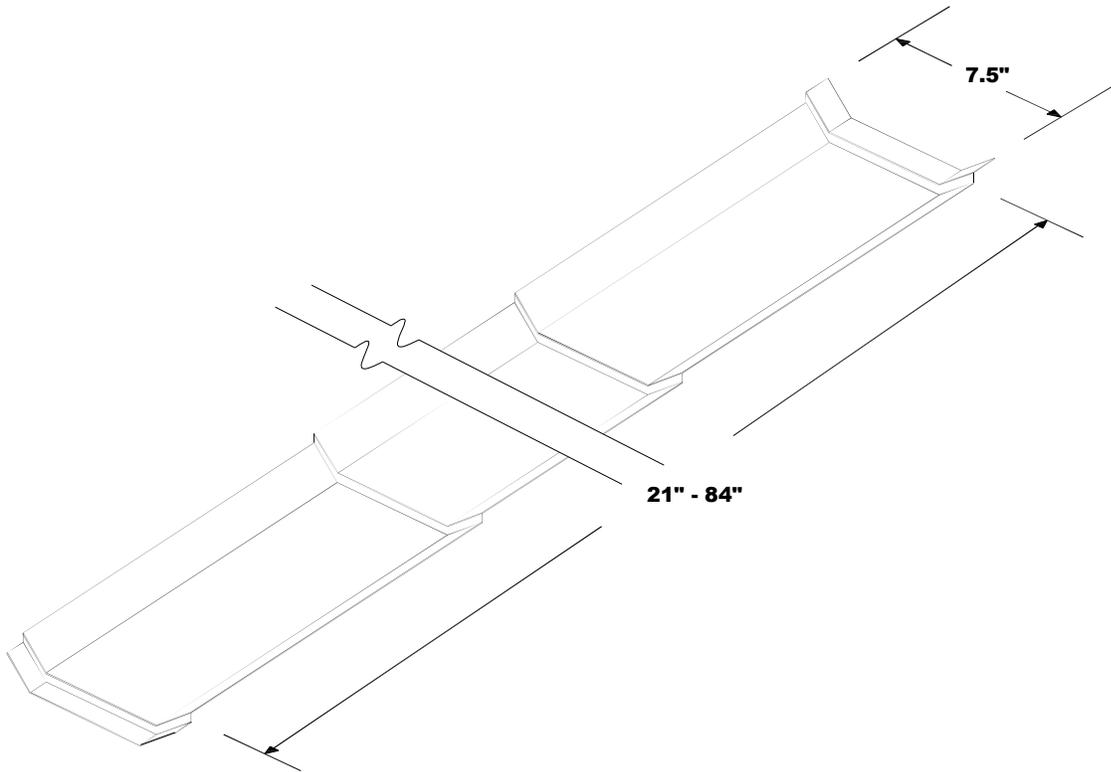
**PROFILE DRAWINGS**



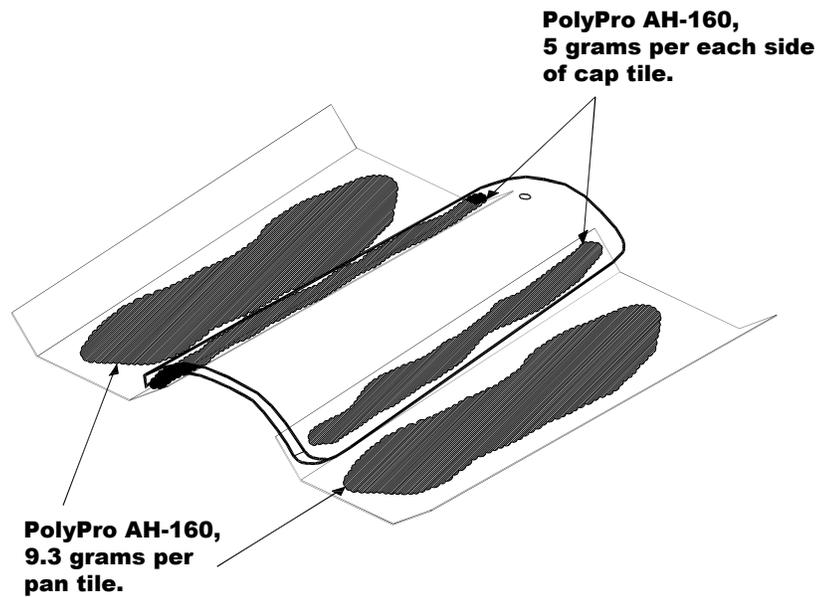
**ARTEZANOS, INC. " 2 PIECE HANDMADE TAPERED MISSION BARREL TILE**



**DETAIL A**



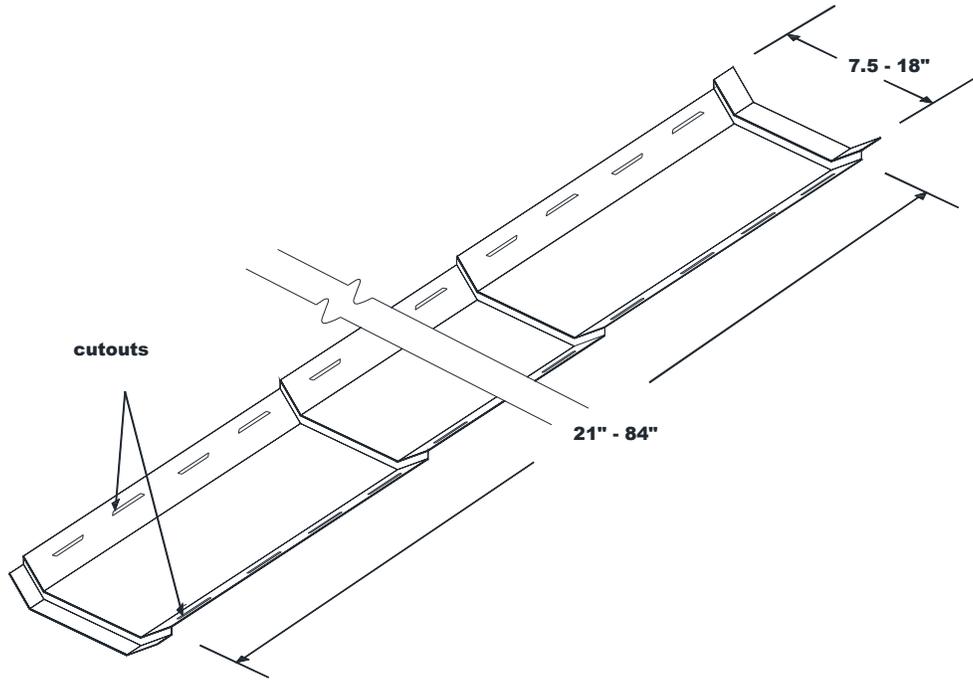
**STEEL PAN TILE**



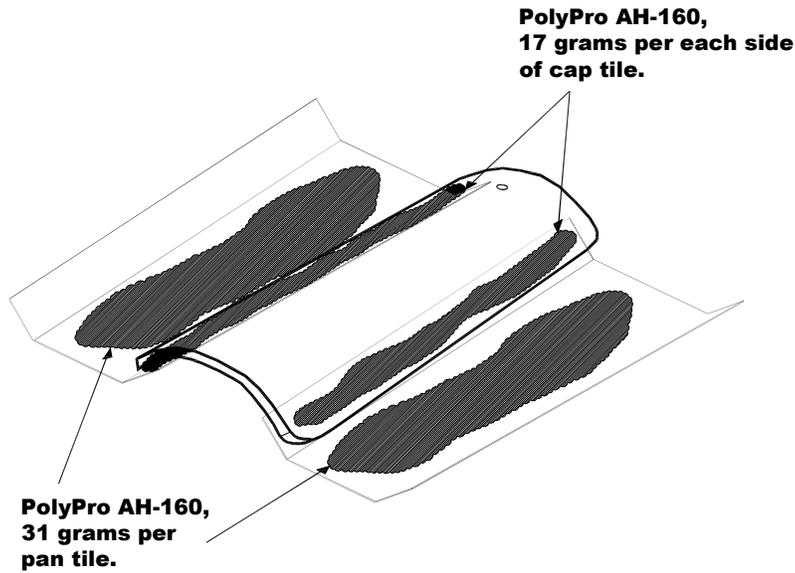
**HANDMADE TAPERED MISSION TILE / STEEL PAN DETAIL**



**DETAIL B**



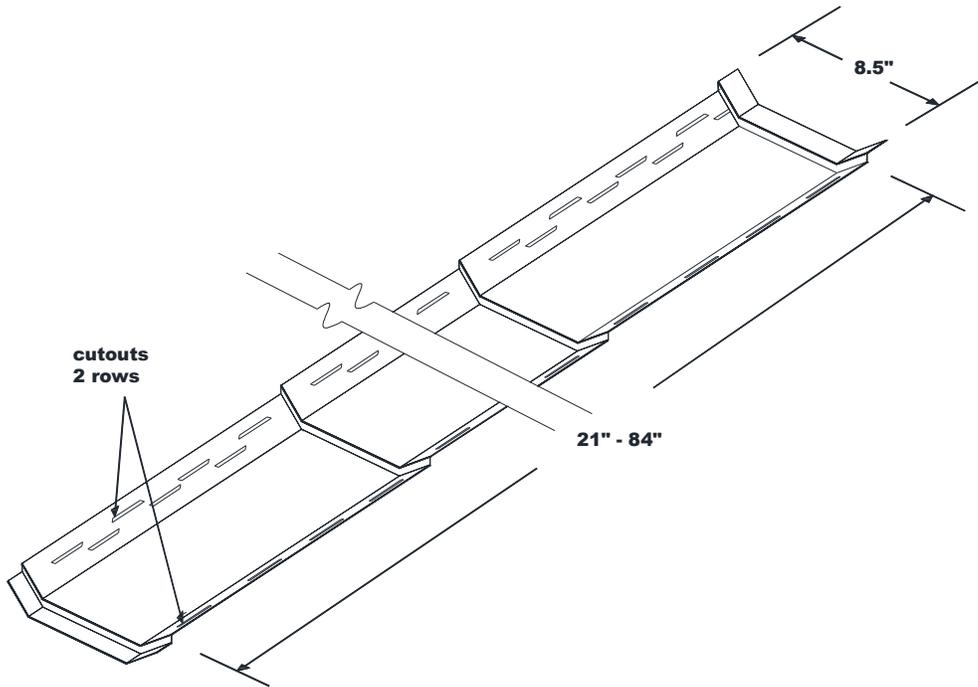
**ALUMINUM PAN TILE #1**



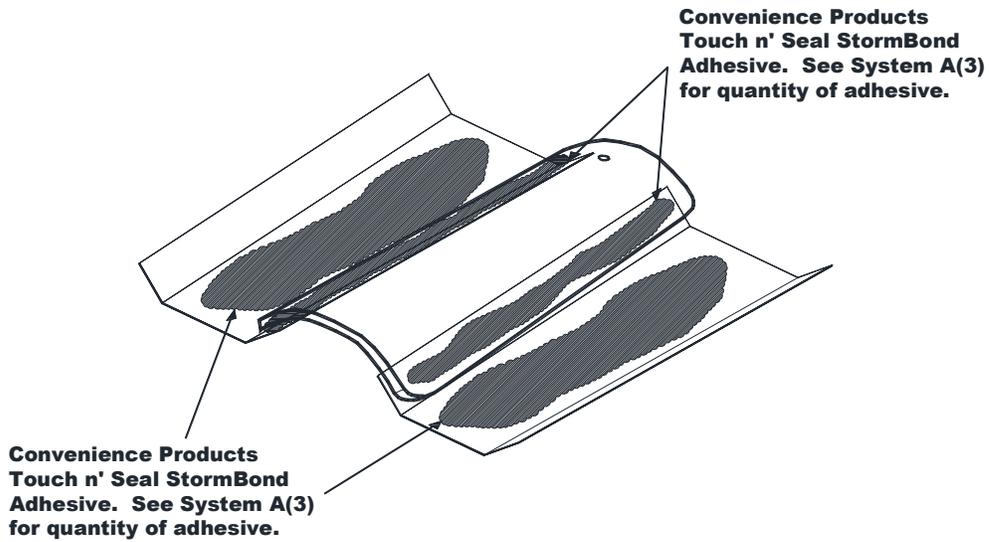
**HANDMADE TAPERED MISSION TILE / ALUMINUM PAN #1 DETAIL**



**DETAIL C**



**ALUMINUM PAN TILE #2**



**HANDMADE TAPERED MISSION TILE / ALUMINUM PAN #2 DETAIL**

**END OF THIS ACCEPTANCE**

