

#### DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION NOTICE OF ACCEPTANCE (NOA)

# Unirac, Inc. 1411 Broadway Blvd. NE Albuquerque, NM 87102

#### 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.

#### **DESCRIPTION: Flashkit Tile Replacement and 2-Piece Standoff Aluminum Solar Mounts**

**APPROVAL DOCUMENT:** Drawing No. **M-D NOA**, titled "Tile Replacement and Standoff", sheets 1 through 11 of 11, prepared by Unirac, Inc, dated on 12/07/2022, signed and sealed by Saddam Ahmad, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

#### **MISSILE IMPACT RATING: None**

**LABELING:** Each box shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved or MDCPCA", 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 **revises** NOA **# 22-0407.09** consists of this page 1, evidence page E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by Ishaq I. Chanda, P.E.

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MIAMI-DADE COUNTY APPROVED NOA No: 24-0129.05 Expiration Date: January 26, 2028 Approval Date: February 29, 2024 Page 1

#### **NOTICE OF ACCEPTANCE:** EVIDENCE SUBMITTED

#### A. DRAWINGS

1. Drawing No. M-D NOA, titled "Tile Replacement and Standoff", sheets 1 through 11 of 11, prepared by Unirac, Inc, dated on 12/07/2022, signed and sealed by Saddam Ahmad, P.E.

#### **B. TESTS**

- 1. Test report on Uplift and Shear Allowable Loads of the Tile Replacement Solar Mount per ASTM D7147-11, prepared by Intertek, Test Report No. M2545.01-119-18 R0, dated 06/09/2022, signed and sealed by Vinu J. Abraham, P.E.
- 2. Test report on Uplift and Shear Allowable Loads of the Standoff Solar Mount per ASTM D7147-11, prepared by Intertek, Test Report No. M2545.03-119-18 R0, dated 06/09/2022, signed and sealed by Vinu J. Abraham, P.E.
- **3.** Test report on Wind Driven Rain Resistance of the FlashLock Comp Solar Mount per TAS 100(A)-95, prepared by Intertek, Test Report No. **N2545.01-109-18**, dated 03/31/2022, signed and sealed by Vinu J. Abraham, P.E.

#### C. CALCULATIONS

1. Engineering certification, prepared by Engineering Alliance, Inc., dated 07/28/2022, signed and sealed by Saddam Ahmad, P.E.

#### D. MATERIAL CERTIFICATIONS

1. None.

#### E. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

#### F. STATEMENTS

- 1. Statement letter of code conformance to the 7<sup>th</sup> edition (2020) of the FBC, issued by Engineering Alliance, Inc., dated 07/28/2022, signed and sealed by Saddam Ahmad, P.E.
- 2. Statement letter of no financial interest issued by Engineering Alliance, Inc., dated 12/07/2022, signed and sealed by Saddam Ahmad, P.E.

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#### <u>Unirac, Inc.</u>

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### A. DRAWINGS

- 1. Drawing No. M-D NOA, titled "Tile Replacement and Standoff", sheets 1 through 11 of 11, prepared by Unirac, Inc, dated 12/07/2022, signed and sealed by Saddam Ahmad, P.E.
- B. TESTS (submitted under previous approval)1. None.
- C. CALCULATIONS (submitted under previous approval) 1. None.

#### **D.** MATERIAL CERTIFICATIONS

1. None.

#### E. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER).

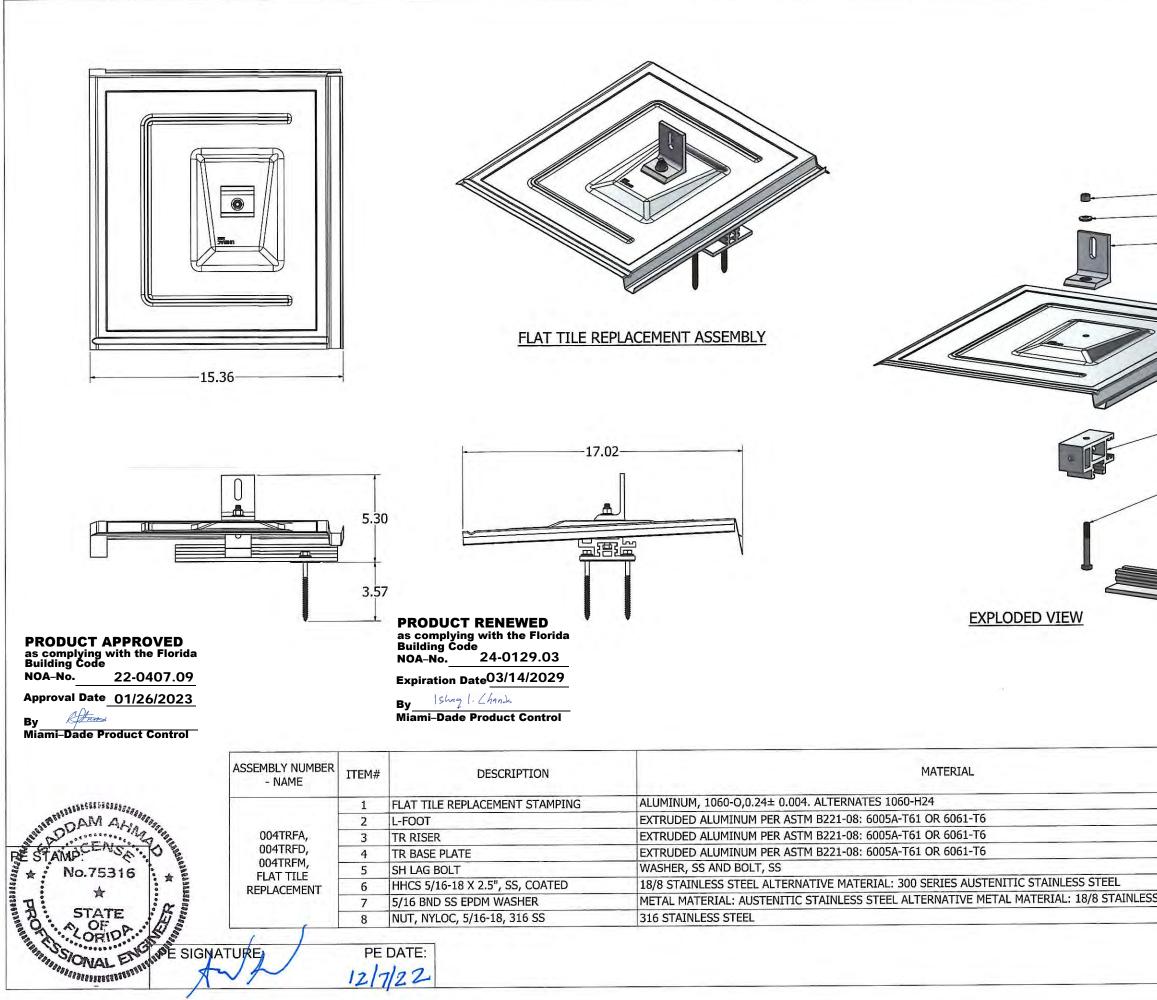
#### **F. STATEMENTS** (items #2 & #3, submitted under previous approval)

- 1. Statement letter of code conformance to the 8<sup>th</sup> edition (2023) of the FBC and "No financial interest", issued by Engineering Alliance, Inc., dated JAN 24, 2024, signed and sealed by Saddam Ahmad, P.E.
- 2. Statement letter of code conformance to the 7<sup>th</sup> edition (2020) of the FBC, issued by Engineering Alliance, Inc., dated 07/28/2022, signed and sealed by Saddam Ahmad, P.E.
- **3**. Statement letter of no financial interest issued by Engineering Alliance, Inc., dated 12/07/2022, signed and sealed by Saddam Ahmad, P.E.

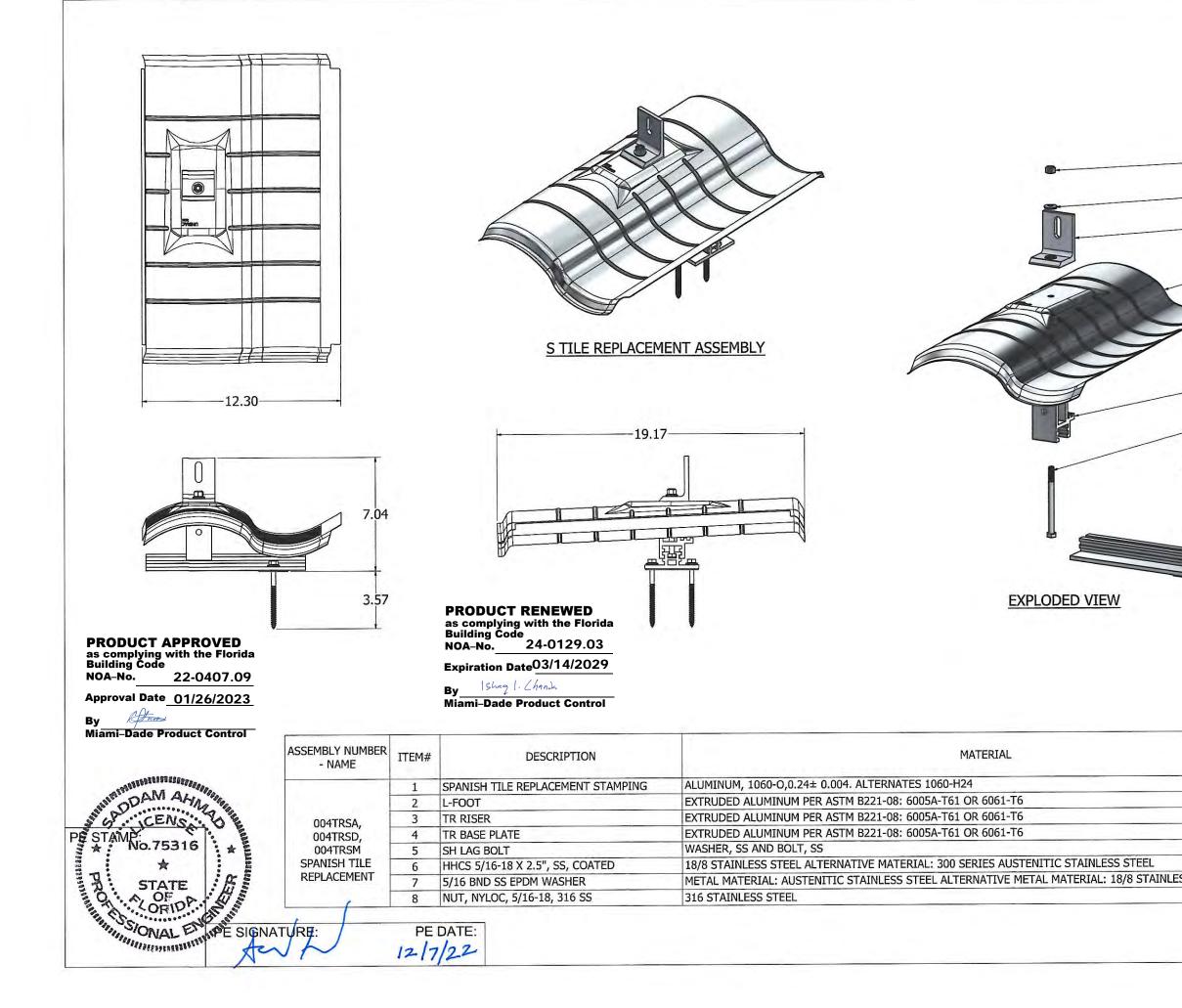
#### G. OTHER

1. This NOA revises NOA No. 22-0407.09 for FBC 2023 updates, expiring 01/26/28.

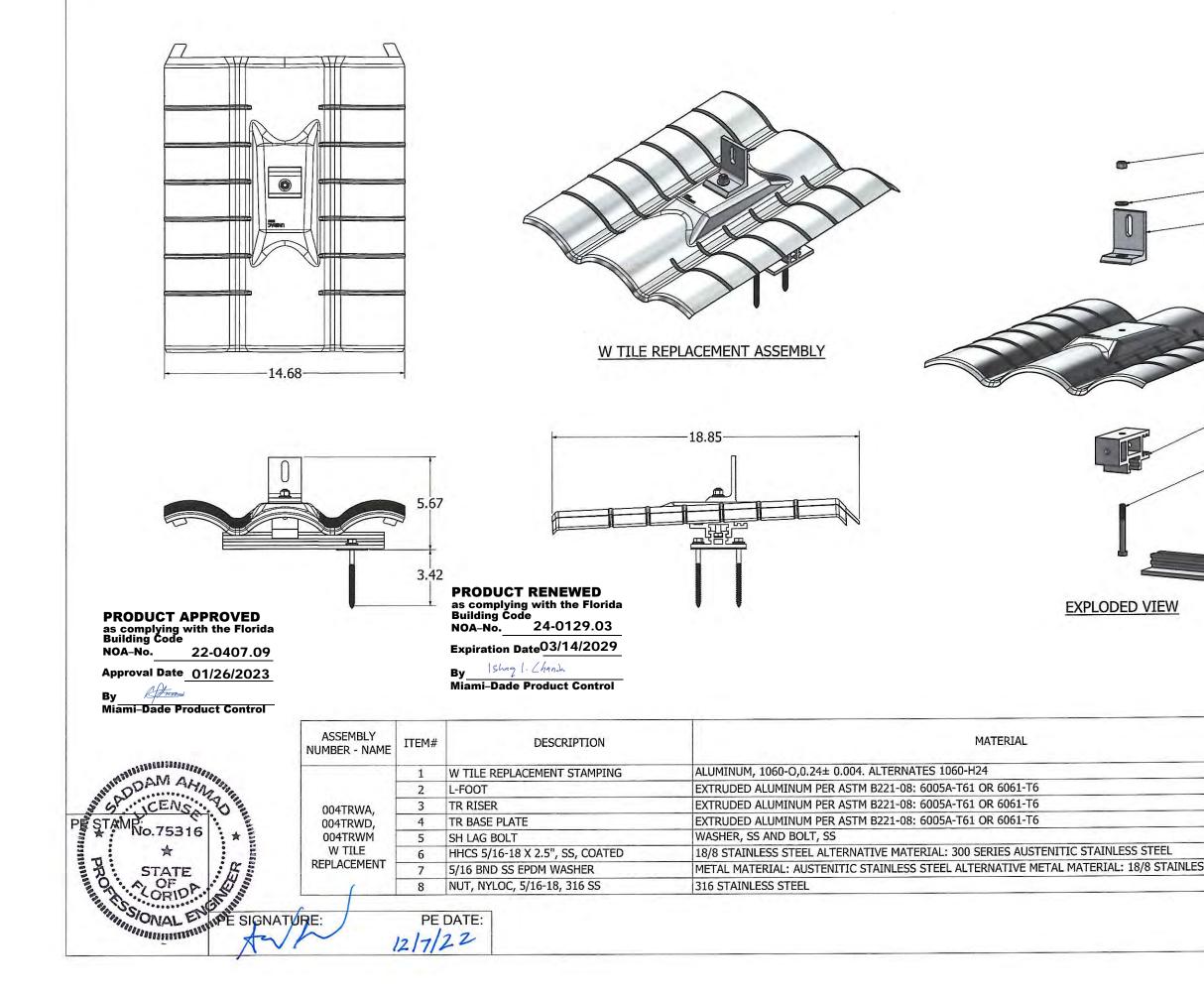
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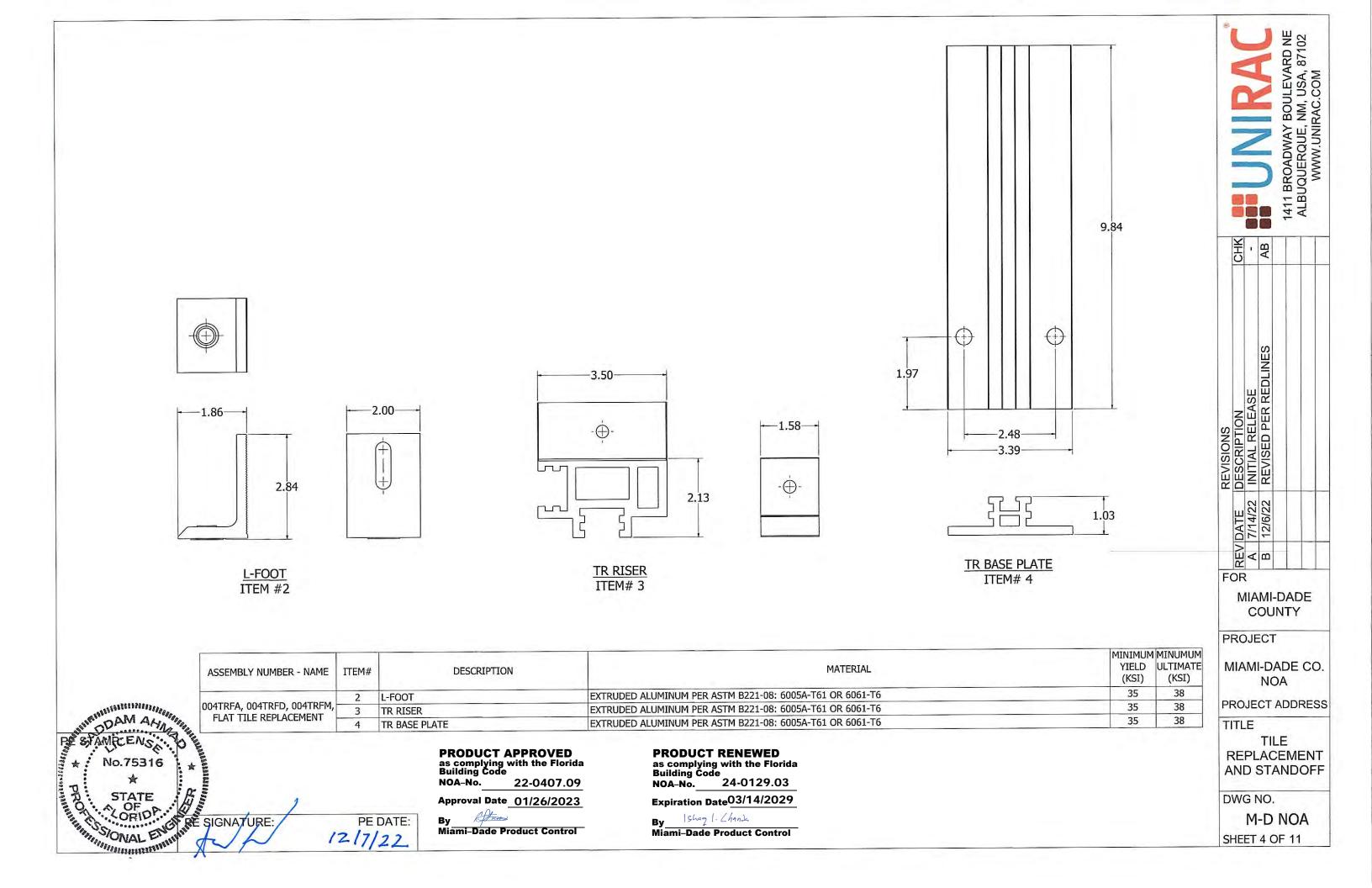
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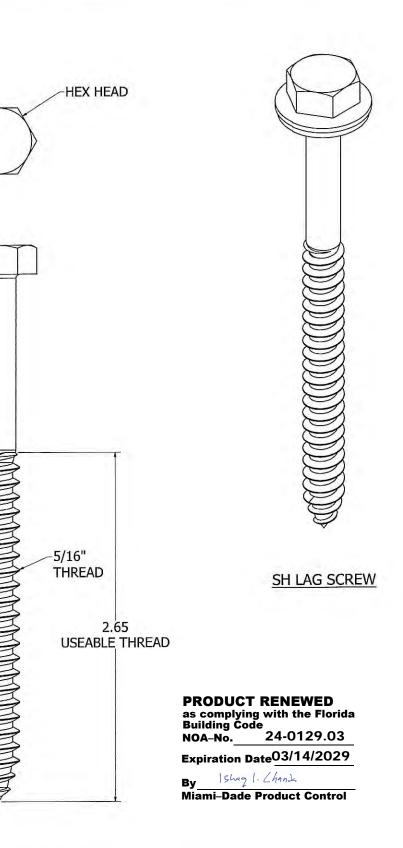


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		PARTS LIST
ITEM	QTY	DESCRIPTION
1	1	5/16 X 4.00 HEX HEAD LAG SCREW, SS
2	1	5/16 EPDM WASHER SS

WITHDRAWAL AND LATERAL LOADS FROM NDS

LOAD DURATION FACTOR (CD) = 1.6

WET SERVICE FACTOR (CM) = 1

TEMPERATURE FACTORS (CT) = 1.0

GROUP ACTION FACTOR (CG) = 1

GEOMETRY FACTOR (CA) = 1

END GRAIN FACTOR (Ceg) = 1

DIAPHRAGM FACTOR (Cdi) = 1

TOE-NAIL FACTOR (Ctn) = 1

WITHDRAWAL LOADS

WITHDRAWAL DESIGN VALUE (W) = 307 LBS. PER INCH (FROM NDS TABLE 12.2A)

WITHDRAWAL LOADS *W*' = 307 X 1 X 1.6 X 1 X 1 X 1 X 1.85 = 1,119.93 LBS.

#### LATERAL LOADS

LATERAL DESIGN VALUE (Z) = MINIMUM OF PARALLEL = 280 LBS. (FROM NDS TABLE 12K)

GROUP ACTION FACTOR (CG) = 0.97

LATERAL LOADS Z' = 280 X 1.6 X 1 X 0.97 X 1 X 1 X 1 X 1.85/2.5 = 321.57 LBS.

LATERAL DESIGN VALUE (Z) = MINIMUM OF PERPENDICULAR = 190 LBS. (FROM NDS TABLE 12K)

GROUP ACTION FACTOR (CG) = 1

LATERAL LOADS Z' = 190 X 1.6 X 1 X 1 X 1 X 1 X 1 X 1 X 1.85/2.5 = 224.96 LBS.

\*ASSUMED G = 0.55 SOUTHERN PINE

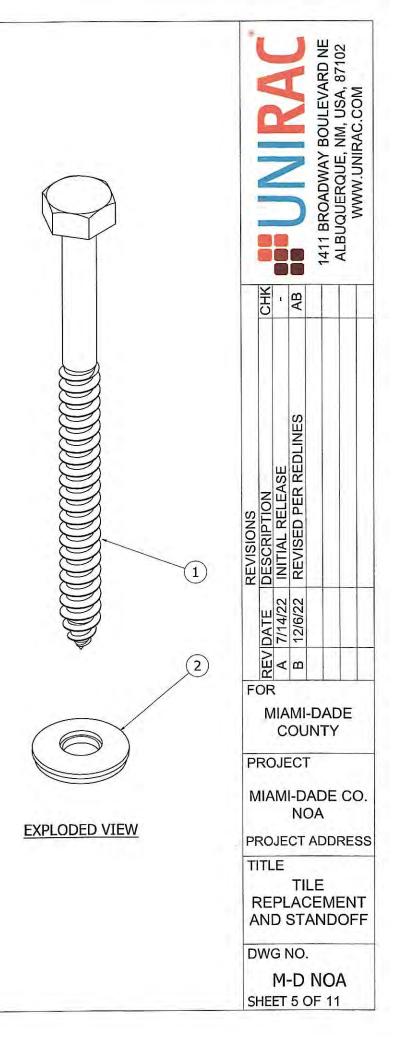


PRODUCT APPROVEDas complying with the FloridaBuilding CodeNOA-No.22-0407.09Approval Date01/26/2023

By Afree

By African Miami-Dade Product Control

PE DATE: 12/1/2



# STRUCTURAL MEMBER SPECIFICATION: MINIMUM WOOD GRADE = SPF #2 MINIMUM SPECIFIC GRAVITY = 0.42 TOTAL ALLOWABLE FASTENER UPLIFT = 131.3 lbs TOTAL ALLOWABLE FASTENER LATERAL = 143.66 lbs MINIMUM FASTENER EDGE DISTANCE = 0.75" IN RAFTER <2.5" WIDE = 1.25" IN RAFTER >= 2.5 " WIDE MINIMUM FASTENER END DISTANCE = 2.2"

TILE REPLACEMENT INSTALLATION NOT TO SCALE

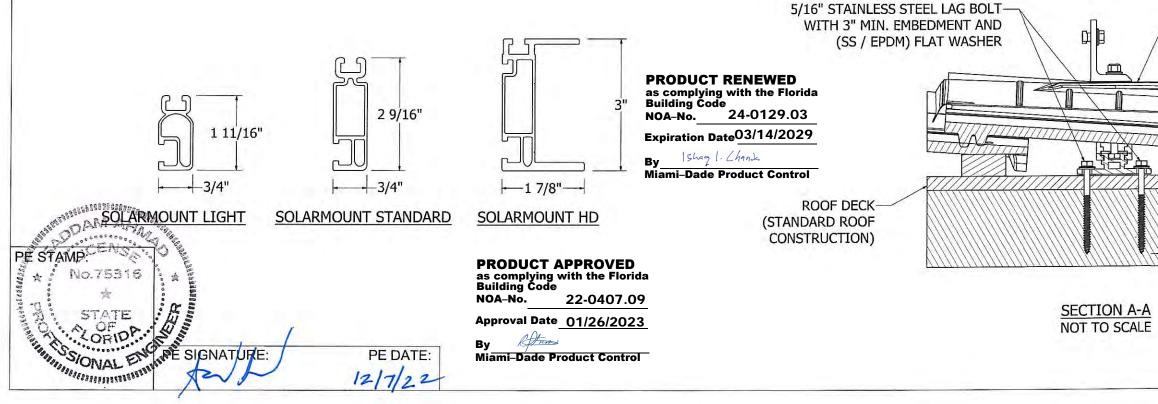
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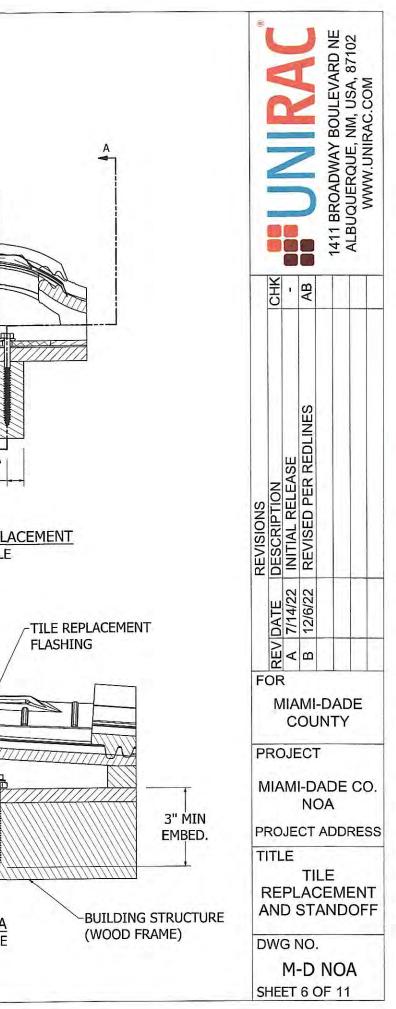
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TO CENTER OF LAG BOLT (WITHDRAWAL) SECTION S-TILE REPLACEMENT

3/4" MIN. EDGE DISTANCE

NOT TO SCALE







#### LAYOUT

PLACE RISER

Locate rail attachment locations and remove corresponding tile that will be replaced by Unirac Tile Replacement.



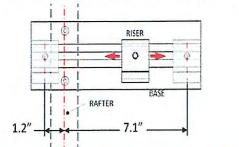
LOCATE RAFTER & DRILL PILOT Locate rafter where tile was removed and align tile replacement base mounting holes over rafter and vertically. Mark and drill pilot holes.



PREPARE UNDERLAYMENT & BUTYL Clear any pilot hole debris from underlayment and peel to remove sealing patch release liner.

### Base may be positioned with rafter attachment holes on either the left or right hand side.

ADJUSTMENT RANGE OF RISER RELATIVE TO RAFTER ATTACHMENT LOCATION



NOTE: Refer to SM D&E guide for design rules, load capacities and pressure tables.



INSTALL BASE Optional: Place Tile Replacement Sub Flashing Align base over pilot holes and install base using supplied lag screws and sealing washers.

Position riser on correct mating rail surfaces of base

for tile type. Rotate bolt to slide as necessary. Align

position of riser with crown of tile course.



RISER CONFIGURATION The Universal Tile Base can be configured for all three tile types.



PREPARE RISER Assemble tile replacement riser and bolt using the correct configuration for tile type. (Can be completed before Base Installation; S-Tile Configuration Shown)



**INSERT TILE FLASHING:** Lift upslope and adjacent tile to insert tile flashing into tile course. Position replacement flashing over riser and insert into replacement flashing. Riser can be freely slid to position with mating flashing hole.



ATTACH L-FOOT: Install sealing L-Foot, Washer and Locknut, Fasten the nut on to the base of the L-Foot to 10 ft-lbs torque.



Set the Tiered Riser in a horizontal orientation and to its lowest height setting on the Base Plate to mount Flat Tile Replacements.



S-TILE

Set the Tiered Riser in a vertical orientation and to its bottom height setting on the Base Plate to mount Spanish Tile Replacements.



#### **PRODUCT APPROVED** as complying with the Florida Building Code 22-0407.09 NOA-No.

Approval Date 01/26/2023

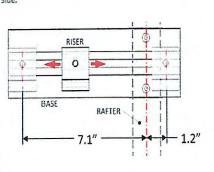
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#### PRODUCT RENEWED

as complying with the Florida Building Code NOA-No. 24-0129.03

Expiration Date03/14/2029

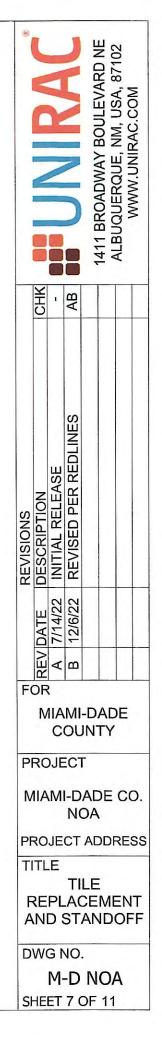
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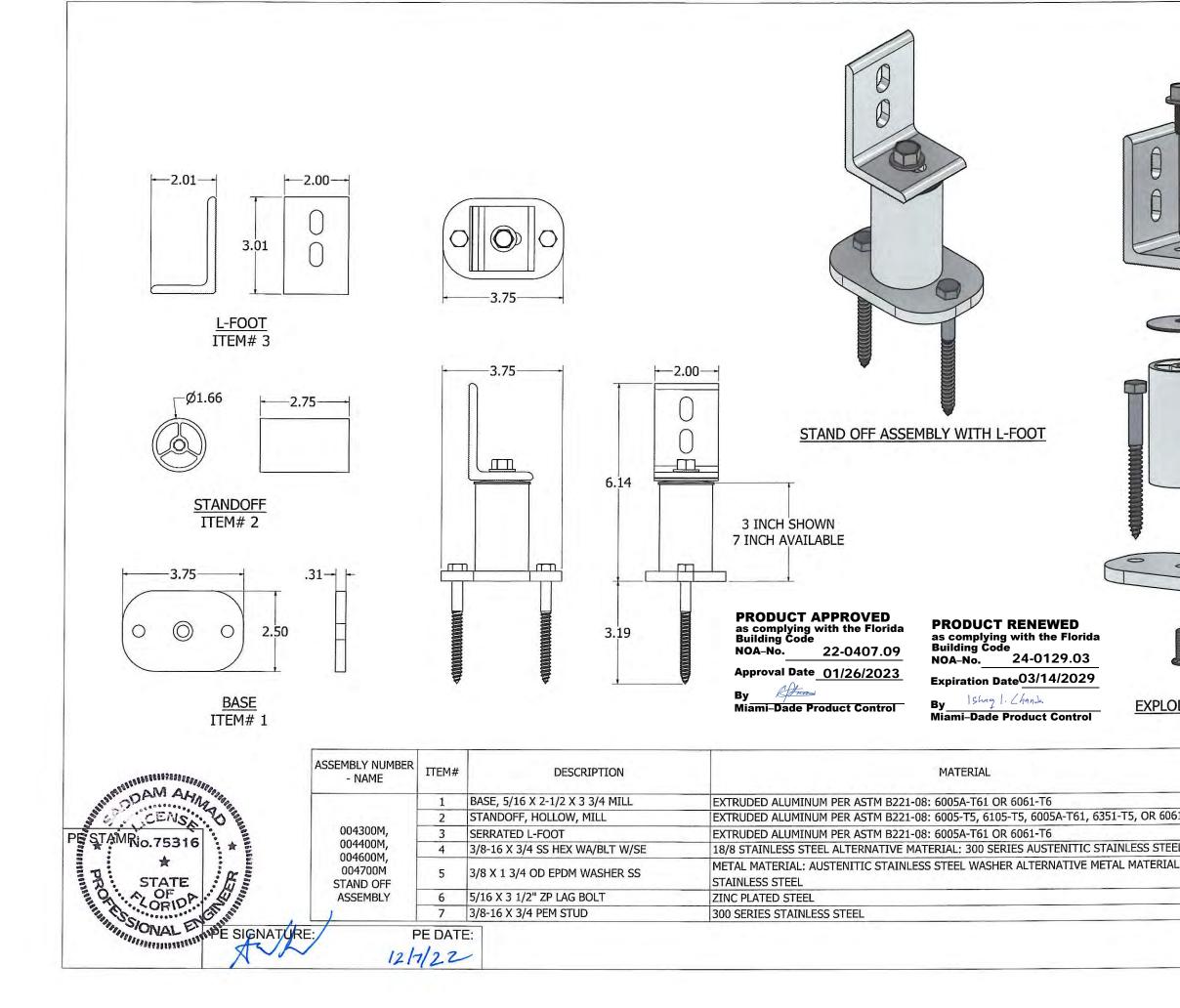




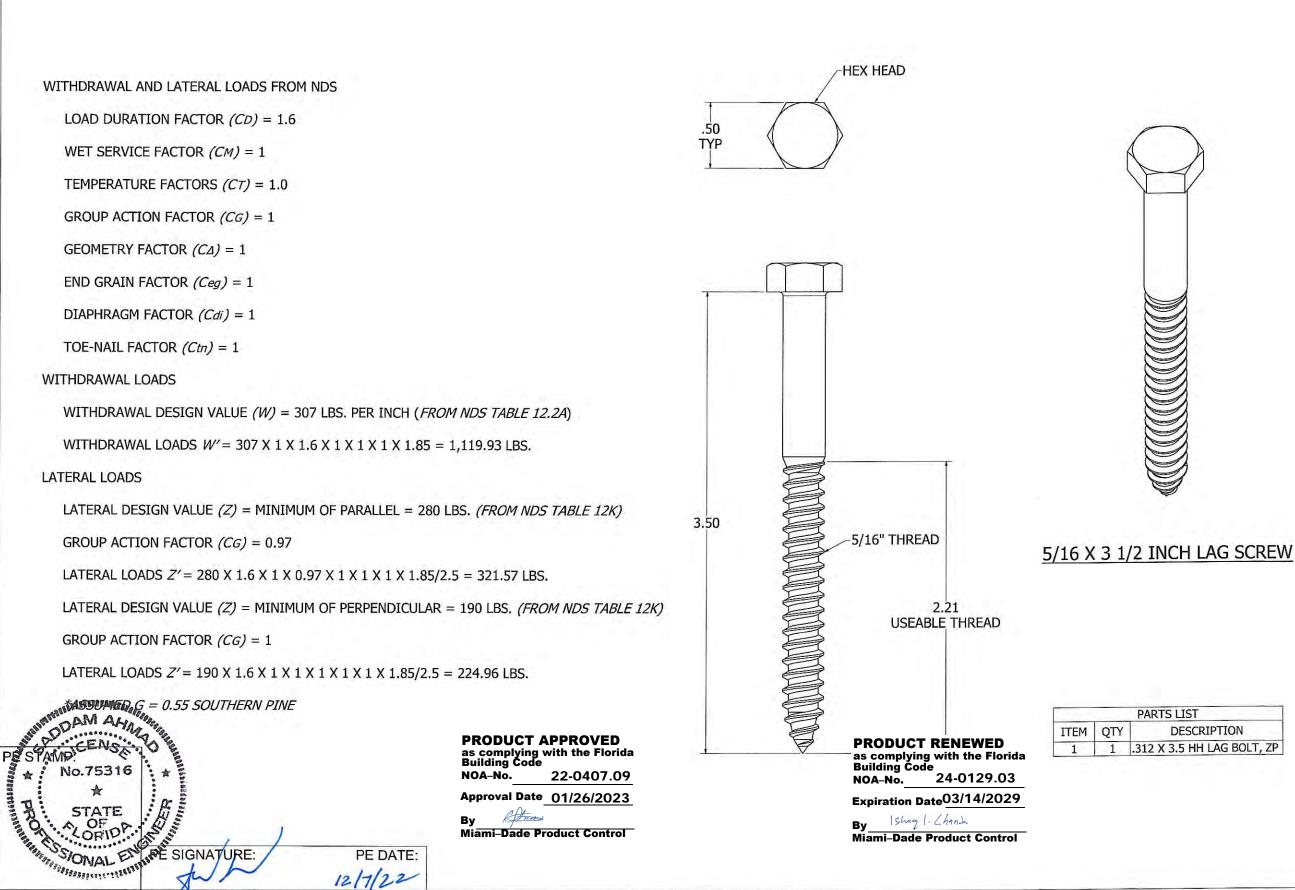
W-TILE

Set the Tiered Riser in a horizontal orientation and to its lowest height setting on the Base Plate to mount W-Tile Replacements.





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	N/A	N/A	
2.33	N/A	75	DWG NO.
			M-D NOA SHEET 8 OF 11



PARTS LIST
DESCRIPTION
312 X 3.5 HH LAG BOLT, ZP

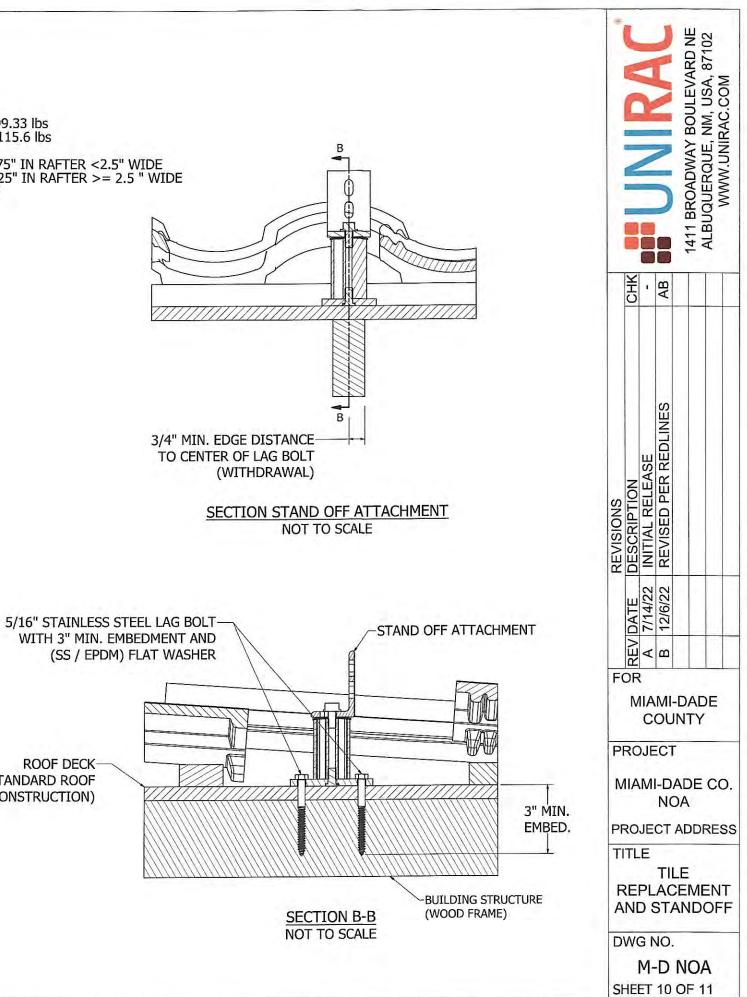
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#### STRUCTURAL MEMBER SPECIFICATION:

MINIMUM WOOD GRADE = SPF #2 MINIMUM SPECIFIC GRAVITY = 0.42

TOTAL ALLOWABLE FASTENER UPLIFT = 799.33 lbs TOTAL ALLOWABLE FASTENER LATERAL = 115.6 lbs

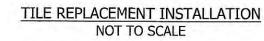
MINIMUM FASTENER EDGE DISTANCE = 0.75" IN RAFTER <2.5" WIDE = 1.25" IN RAFTER >= 2.5 " WIDE MINIMUM FASTENER END DISTANCE = 2.2"



**PRODUCT RENEWED** as complying with the Florida Building Code NOA-No. 24-0129.03

Expiration Date03/14/2029

Ishag 1. Chanda Βv Miami-Dade Product Control



**PRODUCT APPROVED** as complying with the Florida Building Code NOA-No. 22-0407.09

Approval Date 01/26/2023

