

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

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

NOTICE OF ACCEPTANCE (NOA)

Reliable Products a div. of Ruskin Company 1300 Enterprise Rd. (PO Box 580) Geneva, AL 36340

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: Model 3RRDC Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **60-022590-00D**, titled "3RRDC / Wind-Driven Rain Resistant Louver", sheets 1 through 9 of 9, dated 10/30/2020, with revision A dated 03/19/2021, prepared by Reliable Products, signed and sealed by Vahe M. Astourian, R.A., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, Geneva, AL or Juarez, Chihuahua C. P., Mexico, model/series, 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 **revises NOA # 21-0728.04** and consists of this page 1 and evidence page E-1 as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.

MIAMI-DADE COUNTY
APPROVED

02/06/24

NOA No. 23-1116.21 Expiration Date: May 13, 2026 Approval Date: February 15, 2024

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 2. Evidence submitted under NOA # 20-1201.02, # 21-0728.04 and new
- A. DRAWINGS "Submitted under NOA # 21-0728.04"
 - 1. Drawing No. **60-022590-00D**, titled "3RRDC / Wind-Driven Rain Resistant Louver", sheets 1 through 9 of 9, dated 10/30/2020, with revision A dated 03/19/2021, prepared by Reliable Products, signed and sealed by Vahe M. Astourian, R.A.
- B. TESTS "Submitted under NOA # 20-1201.02"
 - 1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with marked-up drawings and installation diagram of HZ700MD Aluminum Fixed Louvers", prepared by National Certified Testing Laboratories, Test Report No. NCTL-210-4189-01, dated 09/09/2020, signed and sealed by Douglas J. McDougall, P.E.

- 2. Test report on Wind Driven Rain Resistance per TAS 100(A)-95 and on High Wind Driven Rain Resistant Louvers per AMCA 550 09-15 of a EME3625MD Vertical Aluminum Louver, prepared by Intertek, Test Report No. **K3092.01-801-44 R0**, dated 02/14/2020, signed and sealed by Tyler Westerling, P.E.
- C. CALCULATIONS "Submitted under NOA # 20-1201.02"
 - 1. Wind load review prepared by Ruskin Company, dated 04/01/2021, signed and sealed by Vahe M. Astourian, P.E.
- D. QUALITY ASSURANCE
 - 1. Miami-Dade Department of Regulatory and Economic Resources (RER).
- E. MATERIAL CERTIFICATIONS
 - 1. None.
- F. STATEMENTS
 - 1. Statement letter of code conformance to the 8th edition (2023) of the FBC, issued by Reliable Products, dated 11/01/2023, signed and sealed by Jeffrey D. Smith, P.E.
 - "Submitted under NOA # 21-0728.04"
 - 2. Statement letter of code conformance to the 7th edition (2020) of the FBC, issued by Reliable Products, dated 08/30/2021, signed and sealed by Vahe M. Astourian, P.E.
 - 3. Statement letter of no financial interest issued by Ruskin Company, dated 08/30/2021, signed and sealed by Vahe M. Astourian, P.E.
 - **4.** Distributor agreement dated 09/24/2021.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 23-1116.21 Expiration Date: May 13, 2026

Approval Date: February 15, 2024

PRODUCT RENEWED

as complying with the Florida **ABBREVIATIONS: Building Code** - BLANK OFF 23-1215.04 CHANNEL FRAME NOA-No. CONT - CONTINUOUS - CENTER TO CENTER Expiration Date 03/06/2029 DIM - DIMENSION

HHOW

Miami-Dade Product Control

6 HEAD FRAME SHOWN (A) SIMILAR AT SILL 100 Q

DETAIL 1 LOUVER CONSTRUCTION

NOTES:

FLG

HDG

HWH

L.D.

MAX.

MIN.

NOM.

N.T.E.

O/C

OPP.

R.O.

REF

SHT

S.S.

S.S.D.

SDS

SIM

STI

TYP.

N.I.C.

HVRS

HHRS

- FLANGE - FLANGED FRAME

- HOT DIP GALVANIZED

- HEX WASHER HEAD

- LOUVER DIMENSION

- NOT TO EXCEED - NOT TO SCALE

- NOT IN CONTRACT

- SHIP SECTION DIMENSION

- UNLESS NOTED OTHERWISE

- SELF DRILLING SCREW

- ROUGH OPENING

- MAXIMUM

- MINIMUM

- NOMINAL

ON CENTER

- OPPOSITE

- REFERENCE

- SHFFT - SHIP SECTION

- SIMILAR

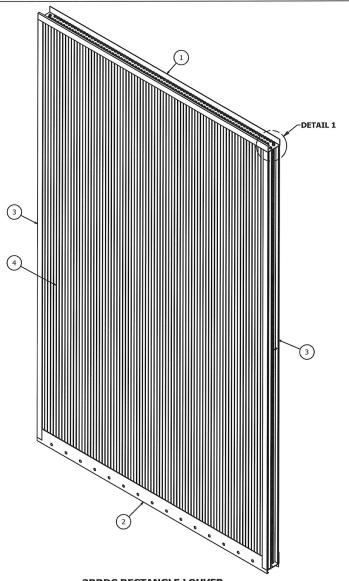
- STEEL

- TYPICAL

- HIDDEN VERTICAL BLADE SUPPORT

- HIDDEN HORIZONTAL BLADE SUPPORT

- THE 3RRDC HAS BEEN TESTED IN ACCORDANCE WITH & QUALIFIED TO FLORIDA PROTOCOLS TAS-201, 202, & 203 FOR LARGE MISSILE IMPACT, UNIFORM PRESSURE, CYCLIC WIND PRESSURE; (A) LEVEL D (BASIC PROTECTION) MISSILE IMPACT; & AMCA 550 FOR HIGH, VELOCITY WIND DRIVEN RAIN.
- 2. QUALIFICATIONS TO AMCA 550 ALLOWS THIS LOUVER TO BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVER IS NOT DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM & THE ROOM DOES NOT HOUSE WATER RESISTANT/PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES.
- 3. THIS LOUVER SYSTEM IS APPROVED FOR APPLICATIONS WITH DESIGN PRESSURES OF +/- 120 PSF OR LESS. THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING
- 4. SECTIONS OR ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDING A SUITABLE STRUCTURAL MEMBER, DESIGNED & INSTALLED BY OTHERS, IS BETWEEN EACH STACKED LOUVER TO CARRY THE FULL LOAD OF THE UPPER LOUVER, SO THAT NO LOUVER TAKES THE LOAD OF THE OTHER.
- 5. THIS LOUVER ATTACHES ONLY AT THE HEAD & SILL TO THE SUBSTRATE. NO ATTACHMENT AT JAMBS. SEE SHEETS -07 & -08 FOR INSTALLATION PARTS & DETAILS. REQUIREMENTS GIVEN IN "SUBSTRATE FASTENER TABLE" ARE AS NEEDED FOR ANCHORAGE ONLY AND (N.I.C.).
- 6. MAXIMUM SINGLE SECTION SIZE FOR RECTANGLES ARE 60" WIDE X 96" HIGH. UNLIMITED WIDTH CAN BE ACCOMPLISHED BY PLACING SINGLE SECTIONS SIDE-BY-SIDE.
- 7. ALL WELDED ATTACHMENTS REQUIRE A MINIMUM FILLER OF 4043 ALUMINUM ALLOY WITH A MINIMUM TENSILE STRENGTH OF 24KSI.
- 8. EXTRUDED ALUMINUM H.H.B.S. CHANNEL IS FACTORY CUT TO FIT BETWEEN EACH BLADE. THE H.H.B.S.CHANNEL IS SCREWED TO EVERY 3RD BLADE AND AT BOTH JAMB FRAMES. THE H.H.B.S. CHANNEL IS REQUIRED FOR ANY LOUVER ASSEMBLY EXCEEDING 48" HIGH & EQUALLY SPACED BETWEEN HEAD & SILL FRAMES
- 9. SQUARE BALLOONS INDICATE SHIP LOOSE PARTS.



(A)	PARTS LIST / CHANNEL FRAME						
	ITEM	DESCRIPTION	MATERIAL				
	1	HEAD FRAME	EXT ALUM 6063-T6				
	2	SILL FRAME	EXT ALUM 6063-T6				
	3	JAMB FRAME	EXT ALUM 6063-T6				
	4	LOUVER BLADE	EXT ALUM 6063-T6				
	5	H.H.B.S.	EXT ALUM 6063-T6				
(A)	6	SCR 8-18 X .75 HWH SW A/B	410 SS/ZC				
		PARTS LIST / FLANGED	FRAME				
	ITEM	DESCRIPTION	MATERIAL				
	7	FLANGED HEAD FRAME	EXT ALUM 6063-T6				
	8	FLANGED SILL FRAME	EXT ALUM 6063-T6				
	9	FLANGED JAMB FRAME	EXT ALUM 6063-T6				
	INSTALLATION PARTS						
	ITEM	DESCRIPTION	MATERIAL				
	10	CONT. RETAINING ANGLE 2" X 2" X 1/4"	EXT ALUM 6063-T6				
	11	SUBSTRATE FASTENER	-				
	12	SCR 1/4"-20 X 1" HWH TEK3	300S				
	13	UNIVERSAL SLEEVE - MIN 1/8" THK PLT	FORMED ALUM 5005-H34				
	14	SPL PLT LVR ALUM 2 X 4 X .125	ALUM 3003-H14				
	15	CONT. RETAINING ZEE - 1/4" THK PLT	FORMED ALUM 5005-H34				
	16	CONT. RETAINING ANGLE - 1/4" X 2"	FORMED ALUM 3003-H14				
	17	CONT. RETAINING ANGLE - 1/4" X 3" X 5"	FORMED ALUM 3003-H14				
	18	CONT. STIFFENER PLT - 1/8" X 5"	ALUM 5005-H34				
	19	CONT. STIFFENER PLT - 1/8" X 4"	ALUM 5005-H34				

DRAWING SHEET INDEX:

SHEET 01 - STANDARD LOUVER SPECIFICATIONS

SHEET 02 - MULTI-SECTION (CF) ASSEMBLY FRONT VIEW SHEET 03 - MULTI-SECTION (CF) ASSEMBLY BACK VIEW

SHEET 04 - MULTI-SECTION (FF) ASSEMBLY FRONT VIEW

SHEET 05 - MULTI-SECTION (FF) ASSEMBLY BACK VIEW

SHEET 06 - UNIVERSAL SLEEVE ASSEMBLY & INSTALLATION SHEET 07 - LOUVER INSTALL / RETAINING SINGLE ANGLE

SHEET 08 - LOUVER INSTALL / RETAINING ZEE & DOUBLE ANGLE

SHEET 09 - LOUVER FRAMING & INSTALL PART PROFILES

PRODUCT APPROVED as complying with the Florida Building Code NOA-No. 21-0728.04

Approval Date 11<u>/18/2021</u>

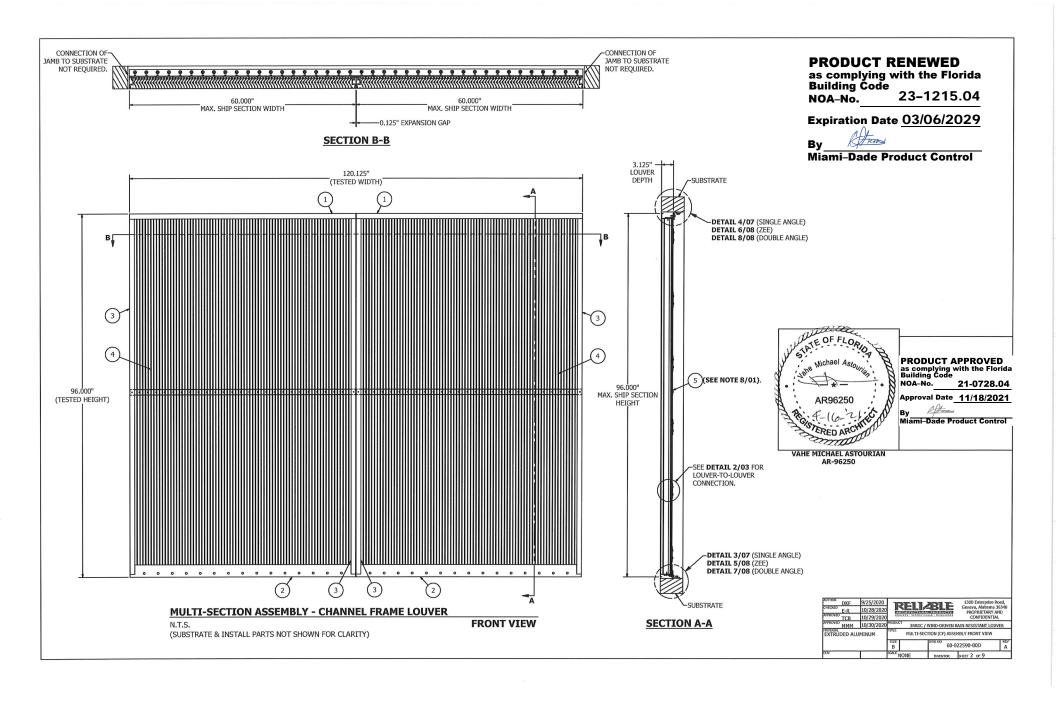
AR96250 Miami-Dade Product Contro CONTERED ARCHITE

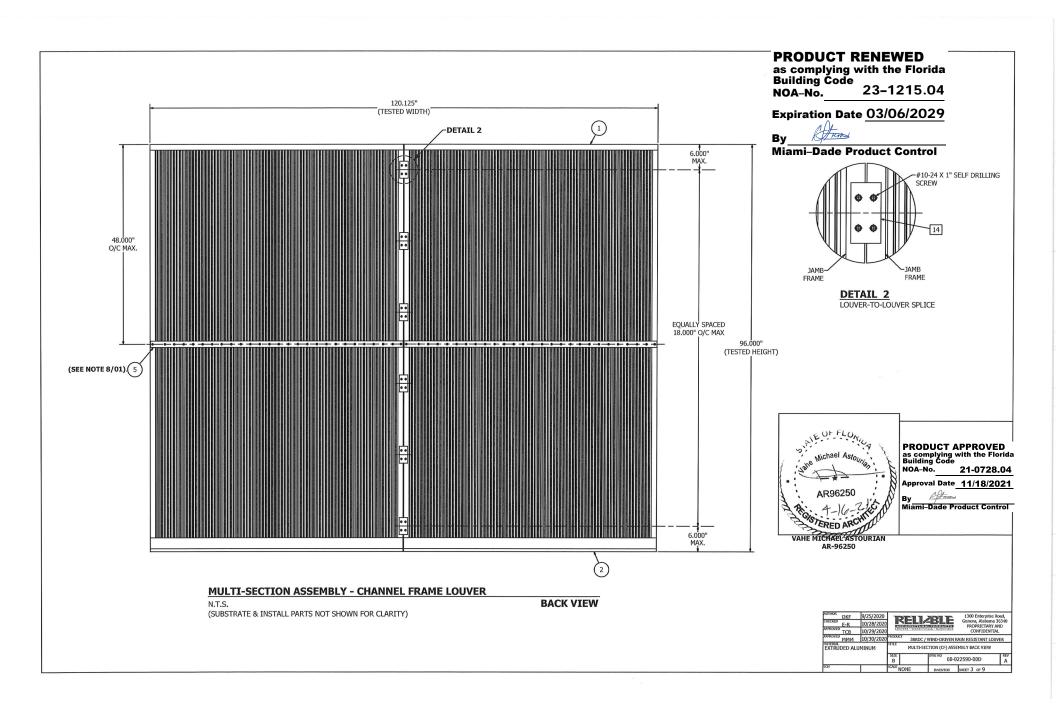
VAHE MICHAEL ASTOURIAN AR-96250

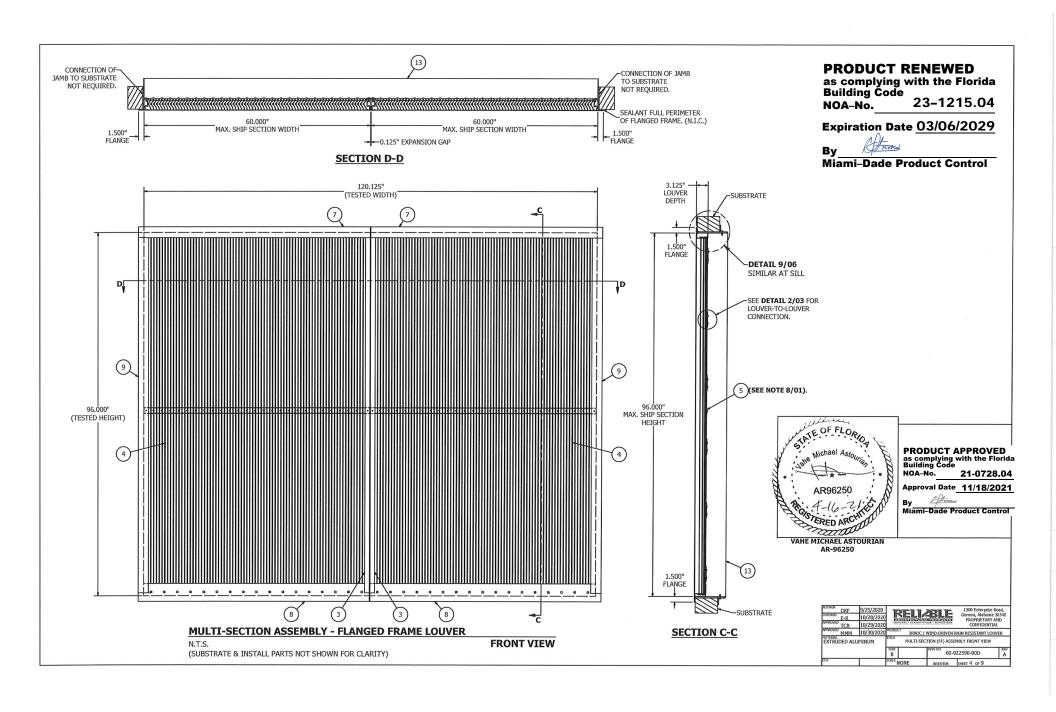
	A REVISED NOTE 1. ADI			DED FASTENERS TO E-R			JDS	VMA		3/19/21	
		AUTHOR CHECKED APPROVED	E-R	9/25/2020 10/28/2020 10/29/2020	Ex	RELIA			Geneva, PROP	nterprise Alabami RIETARY IFIDENT	a 36340 AND
ted Otherwise 107, WIQ-008 ±1/16		APPROVED MATERIAL	ммм	10/30/2020	PRODUC	3RRDC / WI	ND-DRI	VEN RAI	N RESIS	TANT LO	UVER
		EXTRUDED ALUMINUM			STANDARD LOUVER SPECIFICATIONS SIZE DWG NO RE						
s als	±0.020 ±0.010				В		60-022590-00D			A	

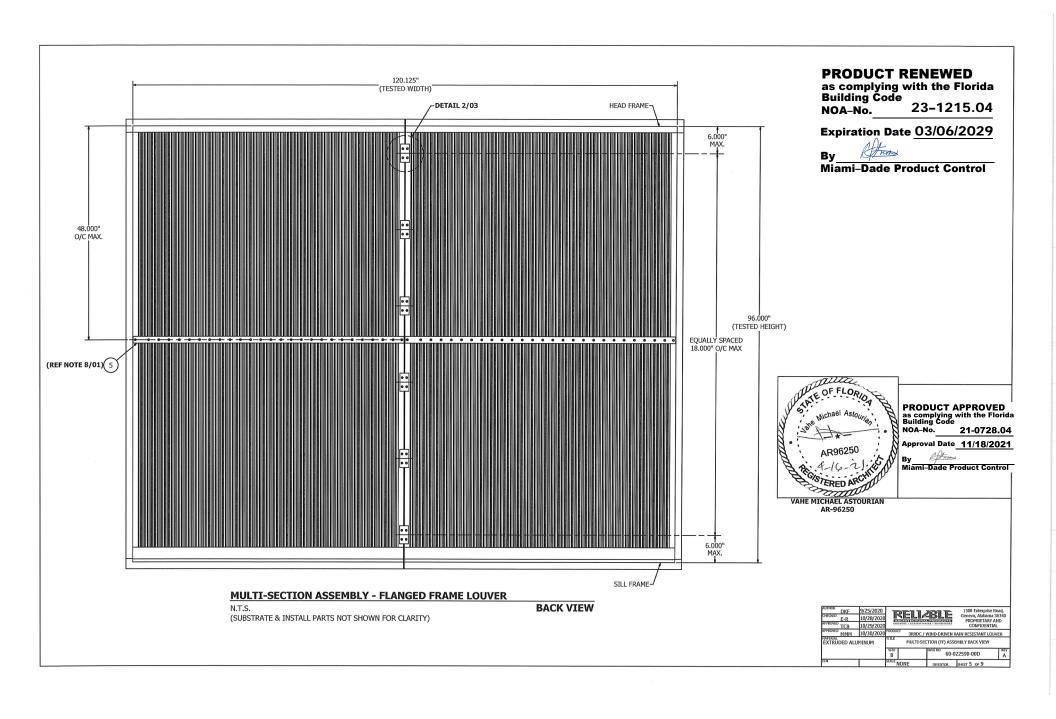
3RRDC RECTANGLE LOUVER

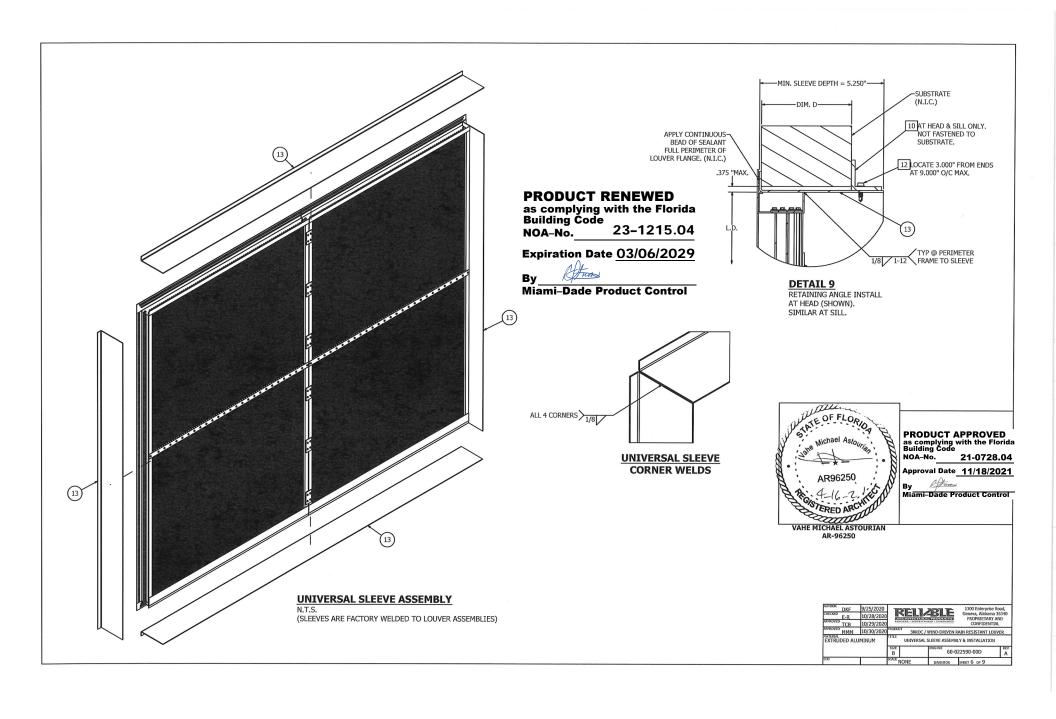
(CF) 60"W X 96"H SHOWN

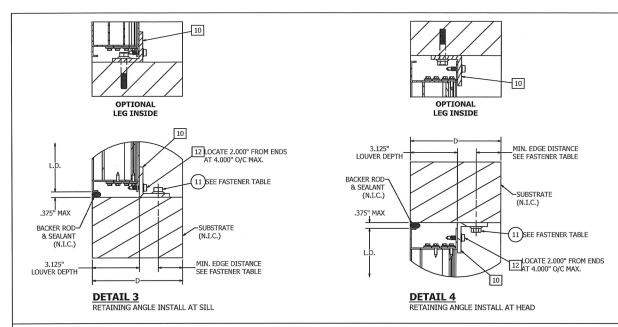












SUBSTRATE FASTENER TABLE (N.I.C.) / 3RRDC 120 PSF / SINGLE ANGLE INSTALL							
SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	FASTENER TYPE	MAX. C/C SPACING AT HEAD / SILL	MIN. EMBEDMENT	MIN. EDGE DISTANCE		
WOOD	3" THICK, 0.42 SPECIFIC GRAVITY	3/8-16 BOLT W/NUT, MIN A307 GRADE A		3 THREADS BEYOND NUT	1-1/2"		
WOOD		3/8" DIA. LAG SCREW 2 1/2" LONG MIN. A307 GRADE A	8"	2-1/4"	1-1/2"		
STEEL	18 GA, 45 KSI TENSILE STRENGTH, 33KSI YIELD STRENGTH	1/4-20 BOLT W/NUT & WASHER MIN A307 GRADE A	8"	3 THREADS BEYOND NUT	1/2"		
SIEEL	12 GA, 45 KSI TENSILE STRENGTH, 33KSI YIELD STRENGTH	1/4-20 SELF-DRILLING SCREW W/ WASHER CARBON STEEL	4"	3 THREADS BEYOND SUBSTR. THICKNESS	1/2"		
ALUMINUM	0.125" THICK, 20 KSI TENSILE STRENGTH, 15 KSI YIELD STRENGTH	1/4-20 BOLT W/NUT & WASHER MIN A307 GRADE A	MAX. C/C SPACING AT HEAD / SILL 307 GRADE A 8" 3 THREADS BEYOND NUT 1/2" LONG 8" 2-1/4" WASHER E A 8" 8" 3 THREADS BEYOND NUT 3 THREADS BEYOND NUT 3 THREADS BEYOND NUT SUBSTR. THICKNESS A THREADS BEYOND NUT 3 THREADS BEYOND SUBSTR. THICKNESS A THREADS BEYOND NUT 3 TH	1/2"			
ALUMINUM	0.1875" THICK, 20 KSI TENSILE STRENGTH, 15 KSI YIELD STRENGTH	1/4-20 SELF-DRILLING SCREW W/ WASHER CARBON STEEL	4"		1/2"		
	2500 PSI COMPRESSIVE STRENGTH	3/8" DIA. SIMPSON STRONG-TIE TITEN HD SCREW ANCHOR CARBON STEEL	8"	3-1/4"	2"		
		3/8" DIA. DEWALT SCREW BOLT + SCREW ANCHOR CARBON STEEL	8"	3-1/4"	4"		
CONCRETE		3/8" DIA. HILTI KWIK HUS-EZ SCREW ANCHOR CARBON STEEL	8"	3 1/4"	2"		
		1/4" DIA. ELCO AGGRE-GATOR W/ WASHER 300 SERIES SS	4"	1-3/8"	1-1/2"		
	J ASTM C-90 BLOCK, 1500 PSI GROUT COMPRESSIVE STRENGTH	3/8" DIA. SIMPSON STRONG-TIE TITEN HD SCREW ANCHOR CARBON STEEL	4"	2 -3/4"	4"		
		3/8" DIA. DEWALT SCREW BOLT + SCREW ANCHOR CARBON STEEL	8"	3 1/4"	2"		
GROUT FILLED CMU				8"	3-1/4"	4"	
		1/4" DIA. ELCO AGGRE-GATOR W/ WASHER 300 SERIES SS	4"	2"	2"		

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 23-1215.04

Expiration Date 03/06/2029

By____

Miami-Dade Product Control



PRODUCT APPROVED as complying with the Florida Building Code

NOA-No. 21-0728.04

Approval Date <u>11/18/2021</u>

By Miami-Dade Product Control

INUM

SIZE
B

SCALE NONE

MIND-DRIVEN RAIN RESISTANT LOUVE

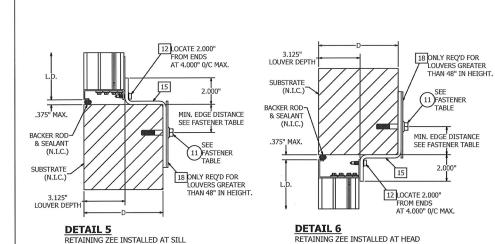
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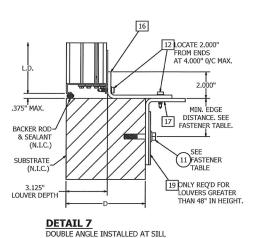
SIZE
B

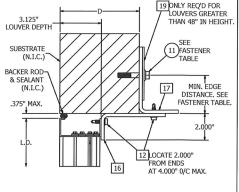
SCALE NONE

MORGHO

SHEET 7 OF 9





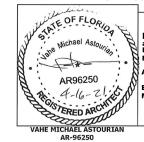


DETAIL 8DOUBLE ANGLE INSTALLED AT HEAD

product renewed as complying with the Florida Building Code NOA-No. 23-1215.04

Expiration Date 03/06/2029

By Miami-Dade Product Control



PRODUCT APPROVED as complying with the Florida Building Code NOA-No. 21-0728.04

Approval Date 11/18/2021

By

Miami-Dade Product Control

A REVISED SUBSTRATE FASTENER TABLE E-R JDS VMA

ADDRESS DKF 9/25/2020

ORICHAD E-R 10/26/2020

REPLIABLE GROPPA

REPLIABLE FROM

REPLIABLE FRO

APPROVED TCB 10/29/2020
APPROVED MMM 10/30/2020
PATERIAL
EXTRUDED ALUMINUM

DOCT 3RRDC / WIND-DRIVEN RAIN RESISTANT LOUVER

LOUVER INSTALL / RETAINING ZEE & DOUBLE ANGLE

OVER NO 60-022590-00D

SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	FASTENER TYPE	MAX. C/C SPACING AT HEAD / SILL	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD	3" THICK, 0.42 SPECIFIC GRAVITY	3/8-16 BOLT W/ NUT, MIN A307 GRADE A	A 8"	3 THREADS BEYOND NUT	1-1/2"
WOOD	3 THION, 0.42 OF EOIL TO GRAVITT	3/8" DIA. LAG SCREW, 2 1/2" LONG, MIN. A307 GRADE A	(A) 8"	2-1/4"	1-1/2"
OTEE	18 GA, 45 KSI TENSILE STRENGTH, 33KSI YIELD STRENGTH	1/4-20 BOLT W/ NUT & WASHER, MIN A307 GRADE A	(A) 8"	3 THREADS BEYOND NUT	1/2"
STEEL	12 GA, 45 KSI TENSILE STRENGTH, 33KSI YIELD STRENGTH	1/4-14 SELF-DRILLING SCREW W/ WASHER CARBON STEEL	6"	3 THREADS BEYOND SUBSTR. THICKNESS	1/2"
ALL INGINIUM	0.125" THICK, 20 KSI TENSILE STRENGTH, 15 KSI YIELD STRENGTH	1/4-20 BOLT W/ NUT & WASHER, MIN A307 GRADE A	A 8"	3 THREADS BEYOND NUT	1/2"
ALUMINUM	0.1875" THICK, 20 KSI TENSILE STRENGTH, 15 KSI YIELD STRENGTH	1/4-14 SELF-DRILLING SCREW W/ WASHER CARBON STEEL	6"	3 THREADS BEYOND SUBSTR. THICKNESS	1/2"
	VIELD STRENGTH		(A) 8"	3-1/4"	2"
			(A) 8"	3-1/4"	4"
CONCRETE		A) 8"	3 1/4"	2"	
			6"	1-3/8"	1-1/2"
	ASTM C-90 BLOCK, 1500 PSI GROUT COMPRESSIVE STRENGTH		♠ 8"	2 -3/4"	4"
GROUT FILLED CMU		3/8" DIA. DEWALT SCREW BOLT + SCREW ANCHOR CARBON STEEL	△ 8"	3 1/4"	2"
		3/8" DIA. HILTI KWIK HUS-EZ SCREW ANCHOR CARBON STEEL	(A) 8"	3-1/4"	4"
		1/4" DIA. ELCO AGGRE-GATOR W/ WASHER 300 SERIES SS	6"	2"	2"

