



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

## NOTICE OF ACCEPTANCE (NOA)

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](http://www.miamidade.gov/economy)

**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 700HZDC Aluminum Louver

**APPROVAL DOCUMENT:** Drawing No. **60-022638-00B**, titled "700HZDC / Wind-Driven Rain Resistant Louver", sheets 1 through 10 of 10, dated 10/29/2020, prepared by Reliable Products a div. of Ruskin Company, signed and sealed by Jeffrey D. Smith, P.E. on 03/14/2022, 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 # 22-0407.03** 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.**



02/07/24

NOA No. 23-1116.24  
Expiration Date: May 13, 2026  
Approval Date: February 15, 2024  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. Evidence submitted under NOA # 20-1201.01, # 22-0407.03 and new**

**A. DRAWINGS**

1. Drawing No. **60-022638-00B**, titled "700HZDC / Wind-Driven Rain Resistant Louver", sheets 1 through 10 of 10, dated 10/29/2020, prepared by Reliable Products a div. of Ruskin Company, signed and sealed by Jeffrey D. Smith, P.E. on 03/14/2022.

**B. TESTS**

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-210-4189-02**, dated 09/09/2020, signed and sealed by Douglas J. McDougall, P.E.
2. Test reports on 1) Test Method for Louvers Impacted by Wind Borne Debris, AMCA 540-13  
2) Large Missile Impact Test per FBC, TAS 201-94 (Missile Level E)  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of HZ700MD Horizontal Aluminum Stationary Louvers", prepared by Intertek, Report No. **K9061.01-801-44 R1**, dated 07/15/2020, with revision date 07/21/2020, signed and sealed by Tyler Westerling, P.E.
3. 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 HZ700 Horizontal Aluminum Louver, prepared by Intertek, Test Report No. **K3093.01-801-44 R0**, dated 02/14/2020, signed and sealed by Tyler Westerling, P.E.

**C. CALCULATIONS**

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 8<sup>th</sup> edition (2023) of the FBC, issued by Reliable Products a div. of Ruskin Company, dated 11/01/2023, signed and sealed by Jeffrey D. Smith, P.E.
2. Statement letter of code conformance to the 7<sup>th</sup> edition (2020) of the FBC, issued by Ruskin Company, dated 04/01/2020, signed and sealed by Vahe M. Astourian, P.E.
3. Statement letter of no financial interest issued by Ruskin Company, dated 04/01/2021, signed and sealed by Vahe M. Astourian, P.E.
4. Private label agreement dated 11/18/2021.



**Carlos M. Utrera, P.E.**

**Product Control Examiner**

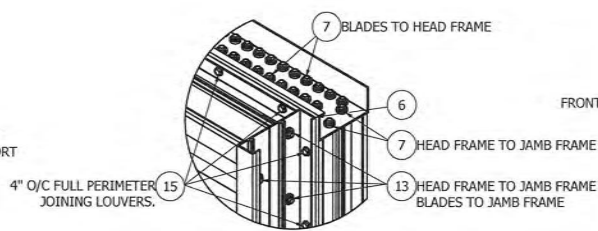
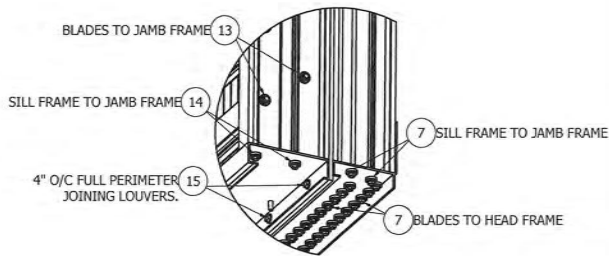
**NOA No. 23-1116.24**

**Expiration Date: May 13, 2026**

**Approval Date: February 15, 2024**

**ABBREVIATIONS:**

B.O.	- BLANK OFF
CF	- CHANNEL FRAME
CONT.	- CONTINUOUS
C-C	- CENTER TO CENTER
DIM	- DIMENSION
FLG	- FLANGE
FF	- FLANGED FRAME
HDG	- HOT DIP GALVANIZED
H.V.B.S.	- HIDDEN VERTICAL BLADE SUPPORT
H.H.B.S.	- HIDDEN HORIZONTAL BLADE SUPPORT
HWI	- HEX WASHER HEAD
L.D.	- LOUVER DIMENSION
MAX.	- MAXIMUM
MIN.	- MINIMUM
NOM.	- NOMINAL
N.T.E.	- NOT TO EXCEED
N.T.S.	- NOT TO SCALE
O/C	- ON CENTER
OPP.	- OPPOSITE
N.I.C.	- NOT IN CONTRACT
R.O.	- ROUGH OPENING
REF	- REFERENCE
SHT	- SHEET
S.S.	- SHIP SECTION
S.S.D.	- SHIP SECTION DIMENSION
S.D.S.	- SELF DRILLING SCREW
SIM	- SIMILAR
STL	- STEEL
TYP.	- TYPICAL
U.N.O.	- UNLESS NOTED OTHERWISE

**DETAIL 1**  
LOUVER ASSEMBLY**DETAIL 1.1**  
LOUVER ASSEMBLY**NOTES:**

- THE 700HZDC 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 E (ENHANCED PROTECTION)** MISSILE IMPACT; & **AMCA 550** FOR HIGH VELOCITY WIND DRIVEN RAIN.
- 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.
- THIS LOUVER SYSTEM IS APPROVED FOR APPLICATIONS WITH **DESIGN PRESSURES OF +/- 130 PSF** OR LESS. THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEAD LOADS.
- 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.
- THIS LOUVER ATTACHES ONLY AT THE HEAD & SILL TO THE SUBSTRATE. NO ATTACHMENT AT JAMBS. **SEE SHEET-07 & -08** FOR INSTALLATION PARTS & DETAILS. REQUIREMENTS GIVEN IN **"SUBSTRATE FASTENER TABLE"** ARE AS NEEDED FOR ANCHORAGE ONLY AND (N.I.C.).
- MAXIMUM SINGLE SECTION SIZE FOR RECTANGLES ARE **60" WIDE X 120" HIGH**. UNLIMITED WIDTH CAN BE ACCOMPLISHED BY PLACING SINGLE SECTIONS SIDE-BY-SIDE.
- ALL WELDED ATTACHMENTS REQUIRE A MINIMUM FILLER OF 4043 ALUMINUM ALLOY WITH A MINIMUM TENSILE STRENGTH OF 24KSI.
- 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 JAMBS FRAMES. THE H.H.B.S. CHANNEL IS REQUIRED FOR ANY LOUVER ASSEMBLY EXCEEDING **60" HIGH** & EQUALLY SPACED BETWEEN HEAD & SILL FRAMES.
- SQUARE BALLOONS INDICATE SHIP LOOSE PARTS.**

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-1116.24

Expiration Date 05/13/2026

By *RFT*  
**Miami-Dade Product Control**

**700HZDC COMBINATION RECTANGLE LOUVER**  
N.T.S.  
(CF) 60"W X 120"H SHOWN

**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 FRAME PROFILES  
**SHEET 10** - INSTALL PARTS PROFILES

**PARTS LIST / REAR LOUVER (CF)**

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
6	GSK STP NEOP .25 X .50	NEOPRENE
7	SCR 8-18 X .75" HWH SW A/B	410 SS/ZC

**PARTS LIST / FRONT LOUVER (CF)**

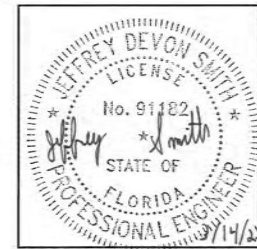
ITEM	DESCRIPTION	MATERIAL
8	HEAD FRAME	EXT ALUM 6063-T6
9	SILL FRAME	EXT ALUM 6063-T6
10	JAMB FRAME	EXT ALUM 6063-T6
11	LOUVER BLADE	EXT ALUM 6063-T6
12	WATERSTOP	EXT ALUM 6063-T5
13	SCR 10-16 X2" HWH SW A/B	410 SS/ZC
14	SCR 8-18 X .75" HWH SW A/B	410 SS/ZC
15	SCR 10X.75" HWH TEK	410 SS/ZC

**PARTS LIST / FRONT LOUVER (FF)**

ITEM	DESCRIPTION	MATERIAL
16	FLANGED HEAD FRAME	EXT ALUM 6063-T6
17	FLANGED SILL FRAME	EXT ALUM 6063-T6
18	FLANGED JAMB FRAME	EXT ALUM 6063-T6

**INSTALLATION PARTS**

ITEM	DESCRIPTION	MATERIAL
19	CONT. RETAINING ANGLE 2" X 2" X 1/4"	EXT ALUM 6063-T6
20	SUBSTRATE FASTENER (N.I.C.)	(SEE SHEETS 07 & 08)
21	SCR 1/4"-20 X 1-1/2" HWH TEK3	ZC
22	UNIVERSAL SLEEVE - MIN. 1/8" THK PLATE	ALUM 5005-H34
23	SPL PLT LVR ALUM 2X4X.125	ALUM 3003-H14
24	CONT. RETAINING ZEE - 1/4" THK PLT	FORMED ALUM 5005-H34
25	CONT. RETAINING ANGLE - 1/4" X 2"	FORMED ALUM 3003-H14
26	CONT. RETAINING ANGLE - 1/4" X 3" X 5"	FORMED ALUM 3003-H14
27	CONT. STIFFENER PLT - 1/8" X 5"	ALUM 5005-H34
28	CONT. STIFFENER PLT - 1/8" X 4"	ALUM 5005-H34



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NOA-No. 22-0407.03

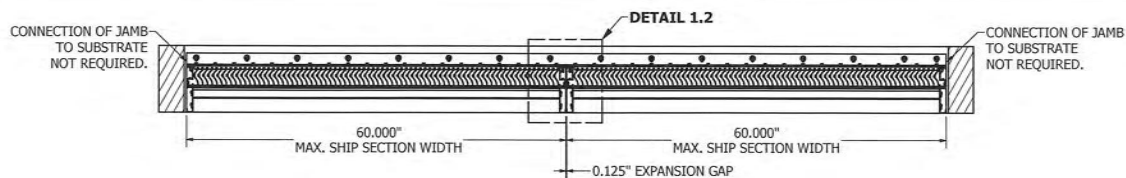
Approval Date 05/05/2022

By *RFT*  
**Miami-Dade Product Control**

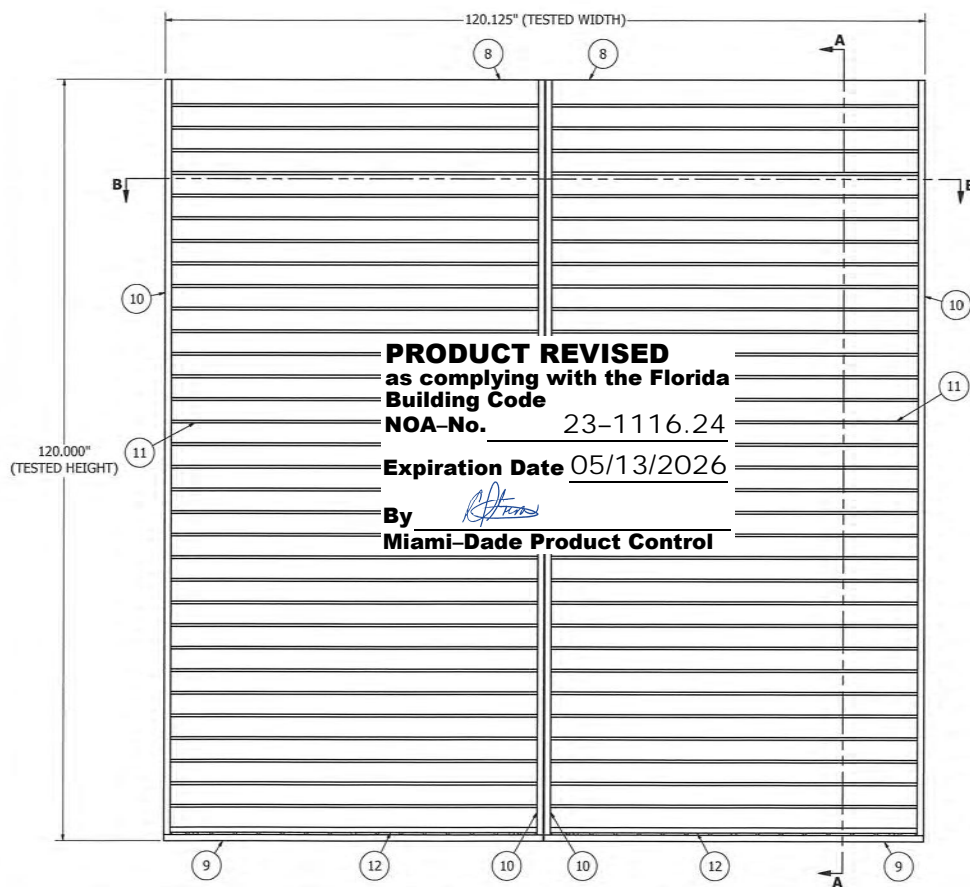
JEFFREY DEVON SMITH, P.E.  
NO. 91182

REV	DESCRIPTION	BY	CHK	APPD	SCN	DATE
1	CREATED 700HZDC NOA DRAWING	DAN	E-R	VMA	JDS	
2	REVISED					
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**SECTION B-B**



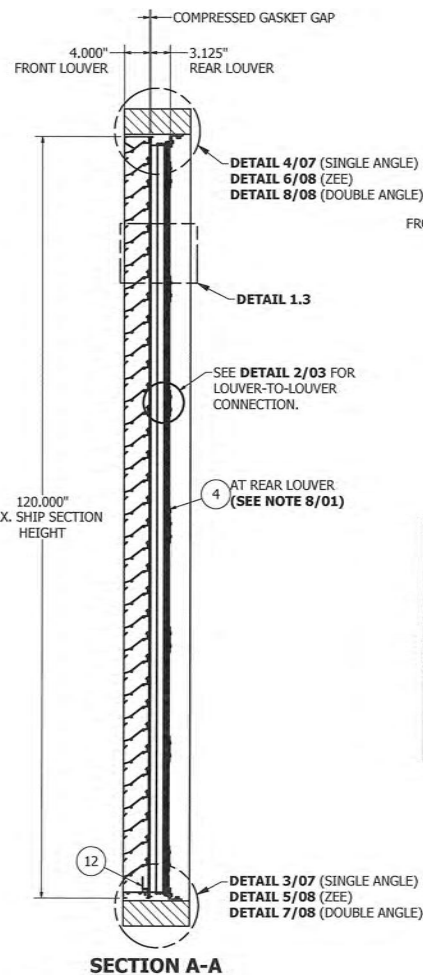
**MULTI-SECTION ASSEMBLY - CHANNEL FRAME (FRONT) LOUVER**

N.T.S.

(SUBSTRATE & INSTALL PARTS NOT SHOWN FOR CLARITY)

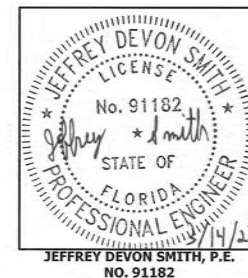
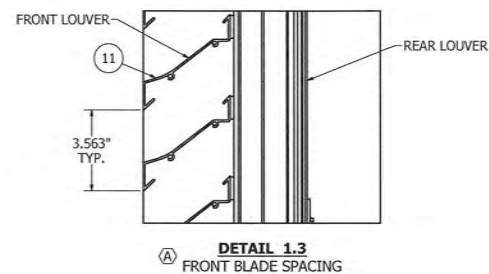
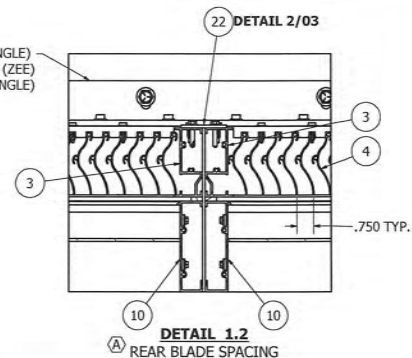
**FRONT VIEW**

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-1116.24  
Expiration Date 05/13/2026  
By *[Signature]*  
Miami-Dade Product Control



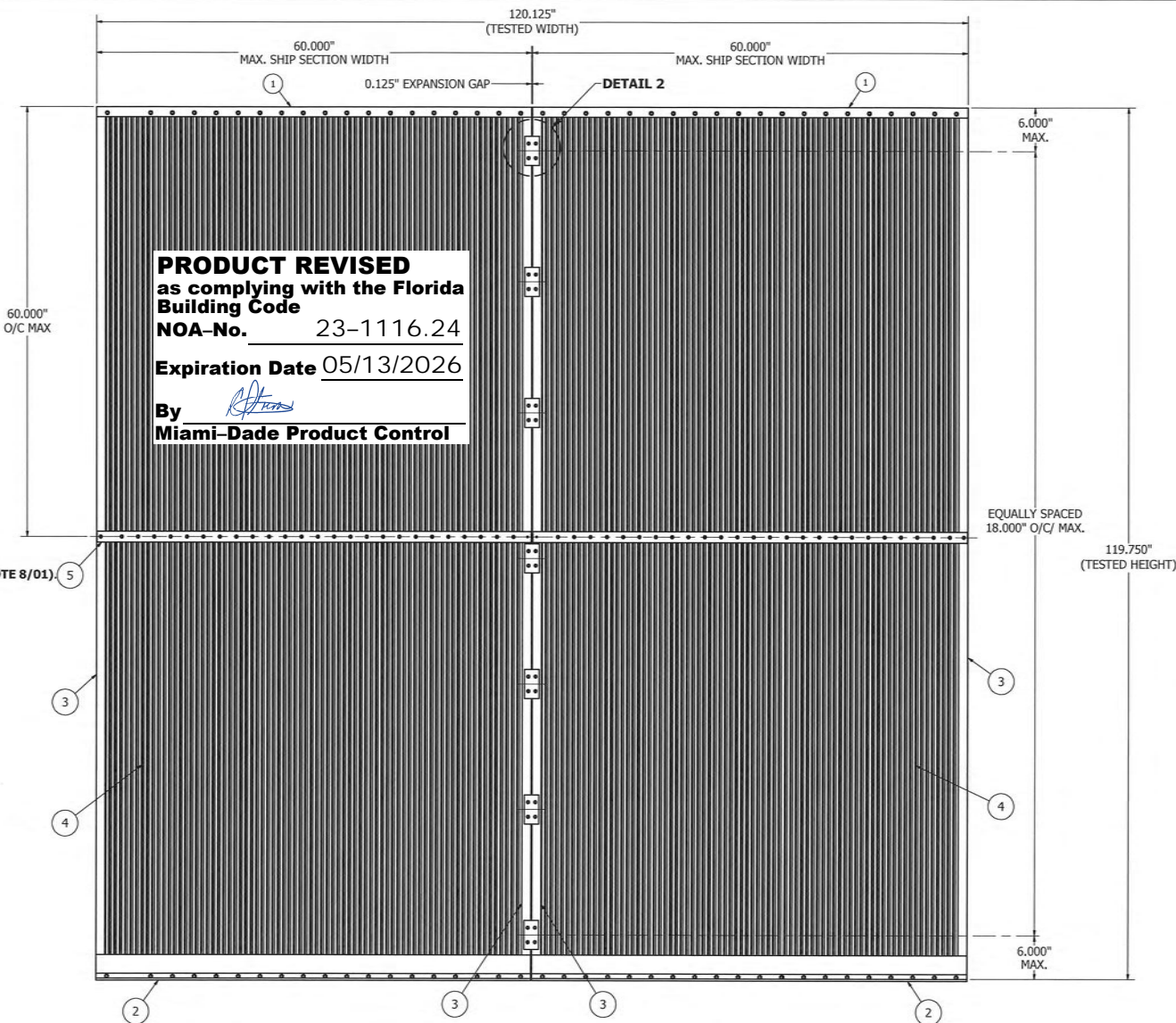
**SECTION A-A**

DETAIL 4/07 (SINGLE ANGLE)  
DETAIL 6/08 (ZEE)  
DETAIL 8/08 (DOUBLE ANGLE)

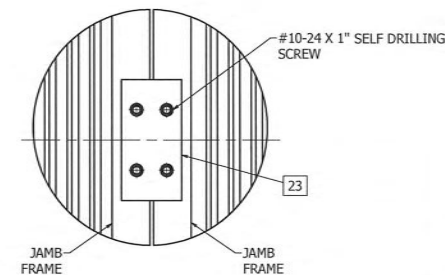


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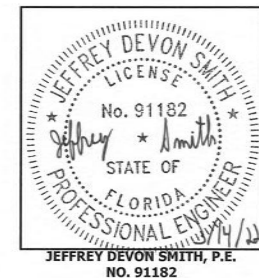
DATE	DKF	9/24/2020	<b>RELIABLE</b> 1300 Enterprise Road Gainesville, FL 32608 PROPRIETARY AND CONFIDENTIAL
PROJECT	E-R	9/27/2020	
REVISION	TCB	10/28/2020	
REVISION	NMM	10/29/2020	
REVISION	NMM	10/29/2020	7000ZDC / WIND-DRIVEN RAIN RESISTANT LOUVER
REVISION	EXTRUDED ALUMINUM		MULTI-SECTION (CF) ASSEMBLY FRONT VIEW
SCALE	B		60-022638-008
SCALE	NONE		2nd EDITION
SCALE	NONE		Page 2 of 10



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**DETAIL 2**  
 LOUVER-TO-LOUVER SPLICE

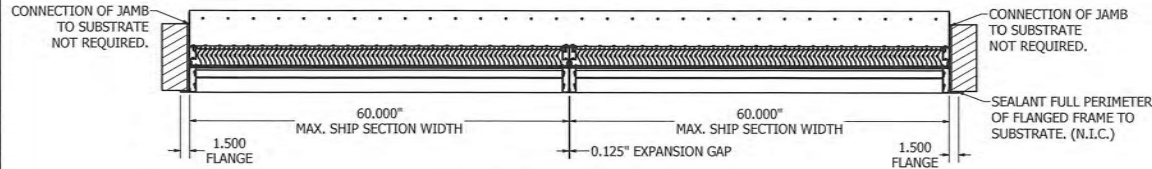


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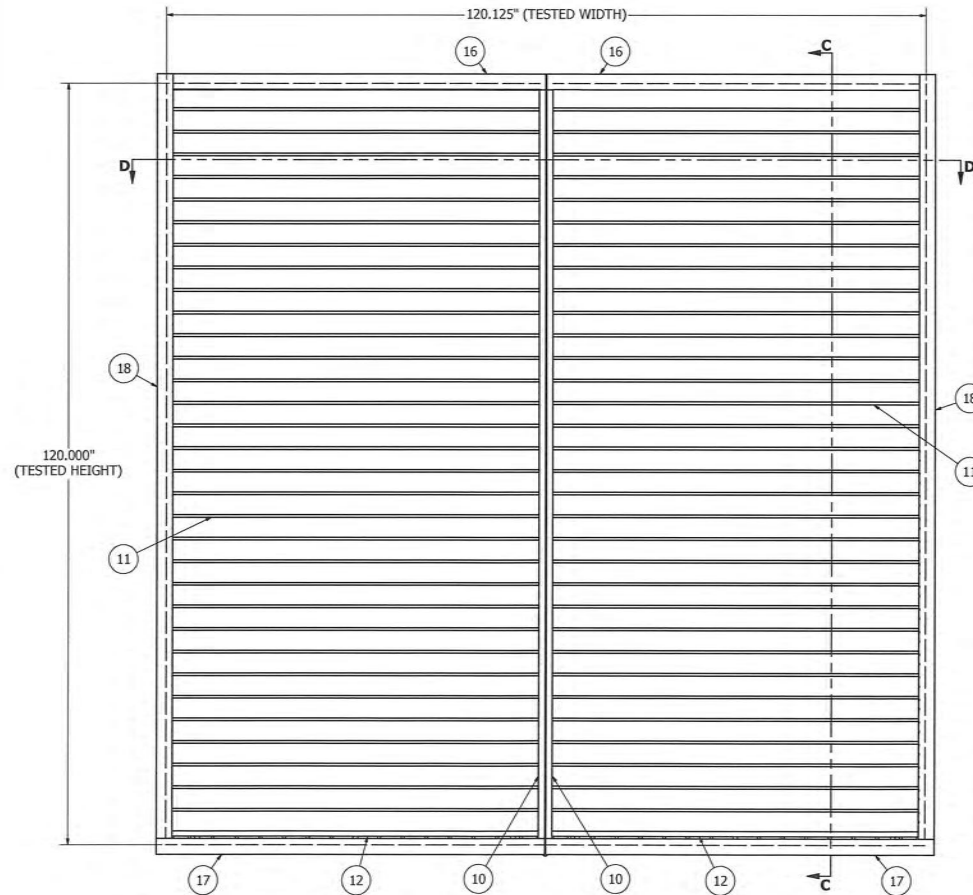
**MULTI-SECTION ASSEMBLY - CHANNEL FRAME (REAR) LOUVER**  
 N.T.S.  
 (SUBSTRATE & INSTALL PARTS NOT SHOWN FOR CLARITY)

**BACK VIEW**

DATE	DKF	9/24/2020	<b>RELIABLE</b> ENGINEERING & ARCHITECTURE 1300 Enterprise Road Geneva, Alabama 36039 PROPRIETARY AND CONFIDENTIAL	
CHECKED	F-R	9/27/2020		
APPROVED	TCB	10/28/2020		
DATE	MMM	10/29/2020		
PROJECT	EXTRUDED ALUMINUM		REVISION	700HDC / WIND-DRIVEN RAIN RESISTANT LOUVER
PRODUCT			TITLE	MULTI-SECTION (C) ASSEMBLY BACK VIEW
SCALE	B	DWG NO	60-022638-008	
BY	SCALE	NONE	INVENTOR	SHEET 3 OF 10



**SECTION D-D**

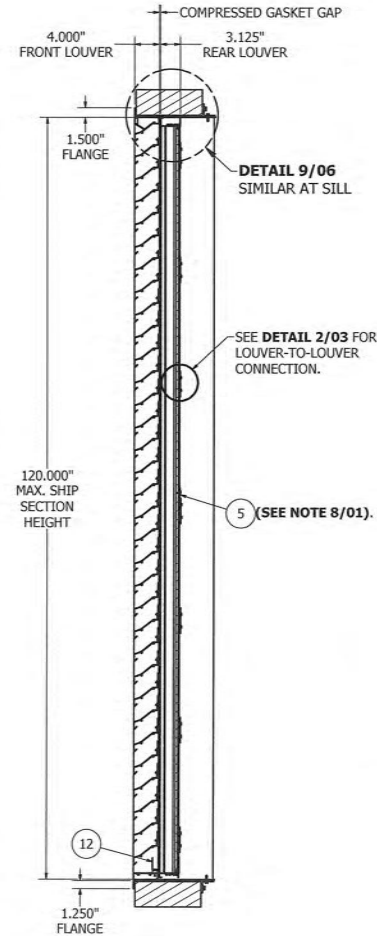


**MULTI-SECTION ASSEMBLY - FLANGED FRAME (FRONT) LOUVER**

N.T.S.

(SUBSTRATE & INSTALL PARTS NOT SHOWN FOR CLARITY)

**FRONT VIEW**



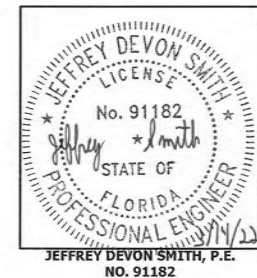
**SECTION C-C**

**PRODUCT REVISED**  
as complying with the Florida  
Building Code

NOA-No. 23-1116.24

Expiration Date 05/13/2026

By *[Signature]*  
Miami-Dade Product Control



**PRODUCT APPROVED**  
as complying with the Florida  
Building Code

NOA-No. 22-0407.03

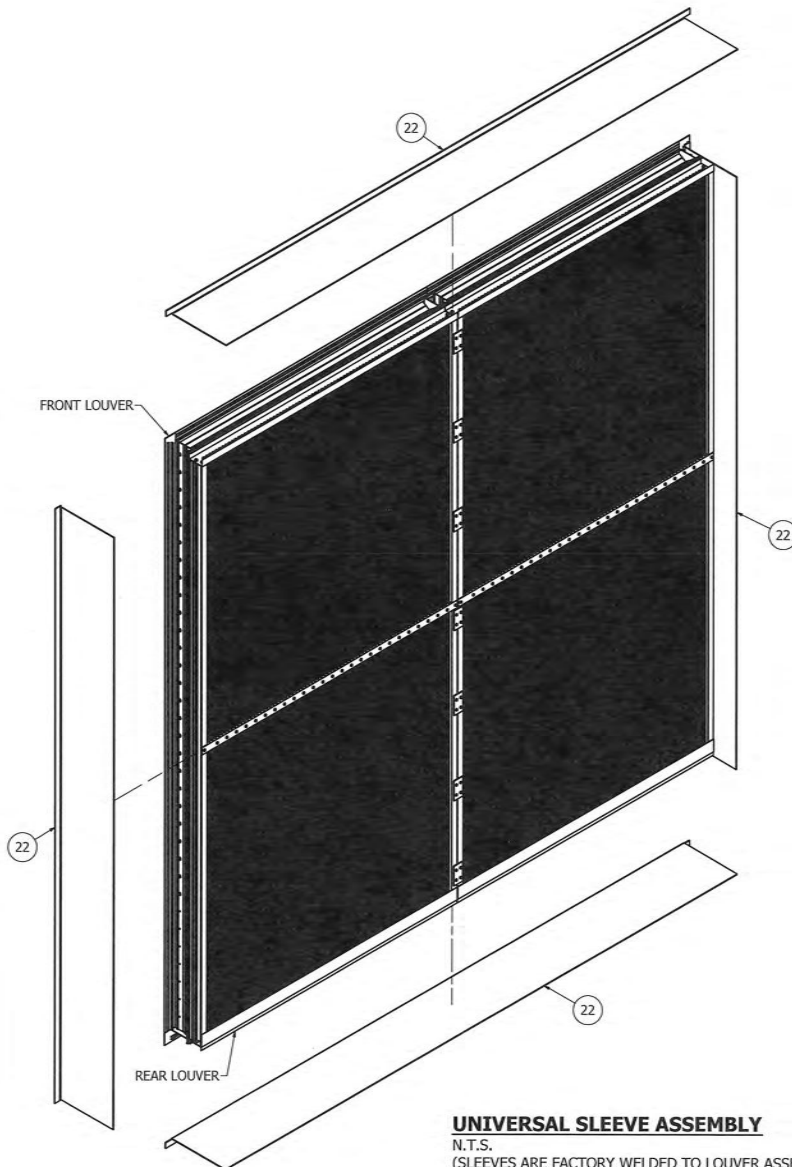
Approval Date 05/05/2022

By *[Signature]*  
Miami-Dade Product Control

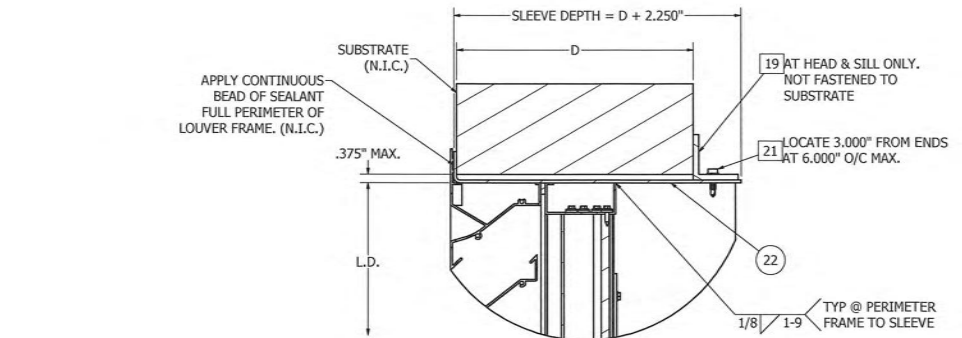
DATE	DKF	9/24/2020	<b>RELIABLE</b> 1300 Enterprise Road Goreville, Alabama 36049 PROPRIETARY AND CONFIDENTIAL
REVISION	E-R	9/27/2020	
REVISION	TCB	10/28/2020	
REVISION	NMM	10/29/2020	
PROJECT			700NDC / WIND-DRIVEN RAIN RESISTANT LOUVER
MATERIAL			EXTRUDED ALUMINUM
TITLE			MULTI-SECTION (FF) ASSEMBLY FRONT VIEW
SCALE	B		60-022638-008
DATE	NONE	INVENTOR	Sheet 4 of 10



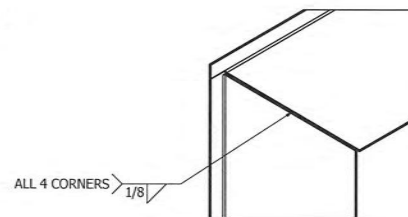




**UNIVERSAL SLEEVE ASSEMBLY**  
N.T.S.  
(SLEEVES ARE FACTORY WELDED TO LOUVER ASSEMBLIES)



**DETAIL 9**  
RETAINING ANGLE INSTALL  
AT HEAD (SHOWN).  
SIMILAR AT SILL.

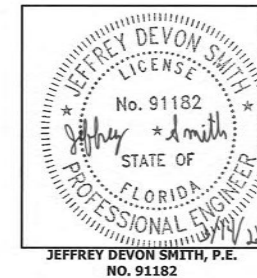


**UNIVERSAL SLEEVE  
CORNER WELDS**

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-1116.24

Expiration Date 05/13/2026

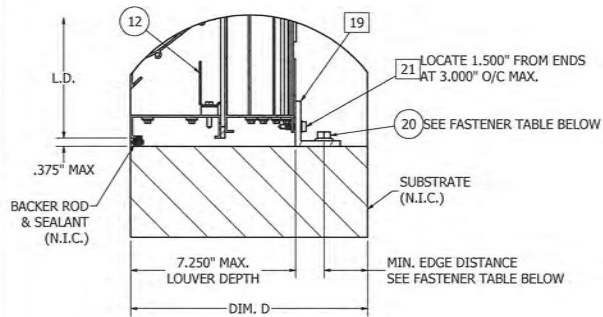
By *RPT*  
**Miami-Dade Product Control**



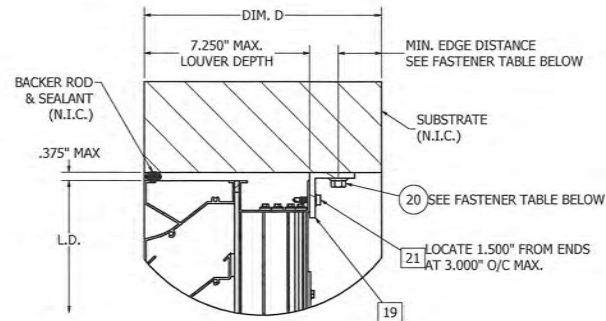
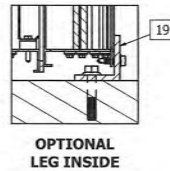
**PRODUCT APPROVED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0407.03  
Approval Date 05/05/2022  
By *RPT*  
**Miami-Dade Product Control**

DATE	CHK	9/24/2020	<b>RELIABLE</b> 1300 Enterprise Road Gainesville, ALABAMA 36204 PROPRIETARY AND CONFIDENTIAL
REVISION	F-R	9/27/2020	
APPROVED	T-CR	10/28/2020	
APPROVED	M-M	10/29/2020	
PRODUCT	700MEDC / WIND-ORIGIN RAIN RESISTANT LOUVER		
EXTRUDED ALUMINUM	UNIVERSAL SLEEVE ASSEMBLY		
SIZE	B	60-022638-00B	REV A
SCALE	NONE	INVENTOR	SHEET 6 OF 10

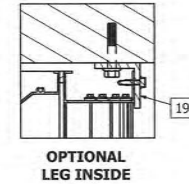




**DETAIL 3**  
ANGLE INSTALL AT SILL



**DETAIL 4**  
ANGLE INSTALL AT HEAD



**PRODUCT REVISED**  
as complying with the Florida  
Building Code

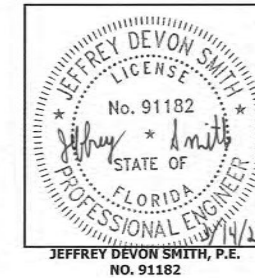
NOA-No. 23-1116.24

Expiration Date 05/13/2026

By *[Signature]*  
Miami-Dade Product Control

**SUBSTRATE FASTENER TABLE (N.I.C.) / 700HZDC 130 PSF / SINGLE ANGLE INSTALLATION**

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	6"	3 THREADS BEYOND NUT	1-1/2"
		3/8" DIA. LAG SCREW, 2 1/2" LONG, MIN. A307 GRADE A	6"	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	6"	3 THREADS BEYOND NUT	1/2"
	12 GA, 45 KSI TENSILE STRENGTH, 33KSI YIELD STRENGTH	1/4-20 SELF-DRILLING SCREW W/ WASHER CARBON STEEL	3"	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	6"	3 THREADS BEYOND NUT	1/2"
	0.1875" THICK, 20 KSI TENSILE STRENGTH, 15 KSI YIELD STRENGTH	1/4-20 SELF-DRILLING SCREW W/ WASHER CARBON STEEL	3"	3 THREADS BEYOND SUBSTR. THICKNESS	1/2"
CONCRETE	2500 PSI COMPRESSIVE STRENGTH	3/8" DIA. SIMPSON STRONG-TIE TITEN HD SCREW ANCHOR CARBON STEEL	6"	3-1/4"	3"
		3/8" DIA. DEWALT SCREW BOLT + SCREW ANCHOR CARBON STEEL	6"	3-1/4"	6"
		3/8" DIA. HILTI KWIK HUS-EZ SCREW ANCHOR CARBON STEEL	6"	3 1/4"	2 1/2"
		1/4" DIA. ELCO AGGRE-GATOR W/ WASHER 300 SERIES SS	3"	1-3/8"	1-1/2"
GROUT FILLED CMU	ASTM C-90 BLOCK, 1500 PSI GROUT COMPRESSIVE STRENGTH	3/8" DIA. SIMPSON STRONG-TIE TITEN HD SCREW ANCHOR CARBON STEEL	3"	2 -3/4"	4"
		3/8" DIA. DEWALT SCREW BOLT + SCREW ANCHOR CARBON STEEL	6"	3 1/4"	2"
		3/8" DIA. HILTI KWIK HUS-EZ SCREW ANCHOR CARBON STEEL	6"	3-1/4"	4"
		1/4" DIA. ELCO AGGRE-GATOR W/ WASHER 300 SERIES SS	3"	2"	2"

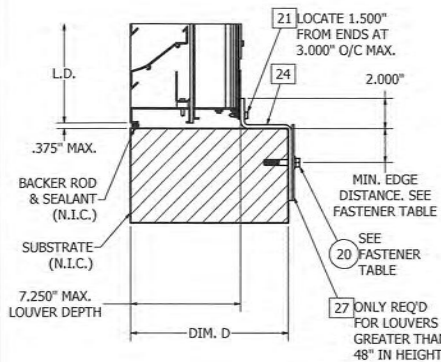


**PRODUCT APPROVED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0407.03

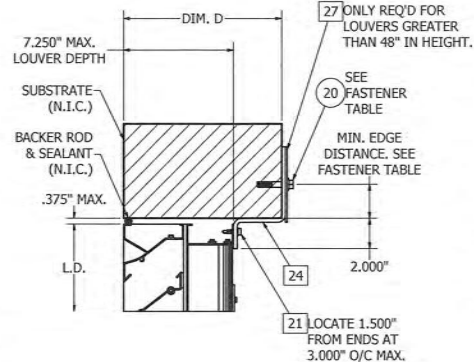
Approval Date 05/05/2022

By *[Signature]*  
Miami-Dade Product Control

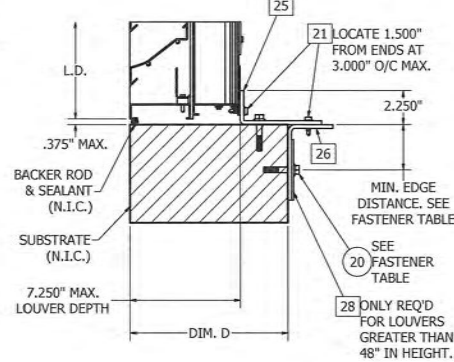
DATE	05/24/2020	<b>RELIABLE</b> 1309 Enterprise Road Geneva, Alabama 36340 PROPRIETARY AND CONFIDENTIAL
DESIGNED BY	05/27/2020	
REVIEWED BY	10/28/2020	
APPROVED BY	10/29/2020	
PROJECT NAME		700HZDC / WIND-DRIVEN RAIN RESISTANT LOUVER
TITLE		LOUVER INSTALLATION DETAILS & FASTENING
FILE NO.	60-022638-008	REV A
SCALE	NONE	SHEET 7 OF 10



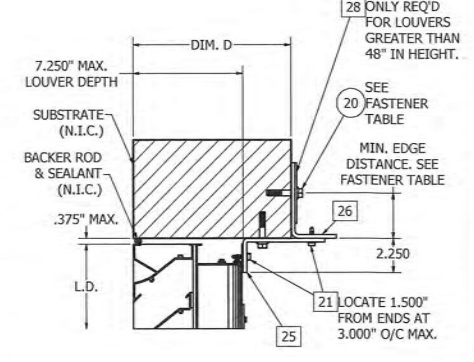
**DETAIL 5**  
RETAINING ZEE INSTALLED AT SILL



**DETAIL 6**  
RETAINING ZEE INSTALLED AT HEAD



**DETAIL 7**  
DOUBLE ANGLE INSTALLED AT SILL



**DETAIL 8**  
DOUBLE ANGLE INSTALLED AT HEAD

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-1116.24

Expiration Date 05/13/2026

By *[Signature]*  
**Miami-Dade Product Control**

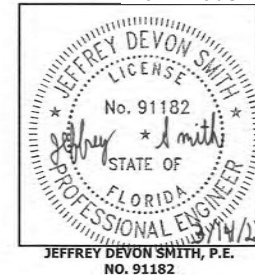
**SUBSTRATE FASTENER TABLE (N.I.C.) / 700HZDC 130 PSF / RETAINING ZEE & DOUBLE ANGLE INSTALL**

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	(A) 8"	3 THREADS BEYOND NUT	1-1/2"
		3/8" DIA. LAG SCREW, 2 1/2" LONG, MIN. A307 GRADE A	(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	6"	3 THREADS BEYOND NUT	1/2"
	12 GA, 45 KSI TENSILE STRENGTH, 33KSI YIELD STRENGTH	1/4-20 SELF-DRILLING SCREW W/ WASHER CARBON STEEL	6"	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	(A) 8"	3 THREADS BEYOND NUT	1/2"
	0.1875" THICK, 20 KSI TENSILE STRENGTH, 15 KSI YIELD STRENGTH	1/4-20 SELF-DRILLING SCREW W/ WASHER CARBON STEEL	3"	3 THREADS BEYOND SUBSTR. THICKNESS	1/2"
CONCRETE	2500 PSI COMPRESSIVE STRENGTH	3/8" DIA. SIMPSON STRONG-TIE TITEN HD SCREW ANCHOR CARBON STEEL	(A) 8"	3-1/4"	3"
		3/8" DIA. DEWALT SCREW BOLT + SCREW ANCHOR CARBON STEEL	6"	3-1/4"	4"
		3/8" DIA. HILTI KWIK HUS-EZ SCREW ANCHOR CARBON STEEL	(A) 8"	3 1/4"	2 1/2"
		1/4" DIA. ELCO AGGRE-GATOR W/ WASHER 300 SERIES SS	3"	1-3/8"	1-1/2"
GROUT FILLED CMU	ASTM C-90 BLOCK, 1500 PSI GROUT COMPRESSIVE STRENGTH	3/8" DIA. SIMPSON STRONG-TIE TITEN HD SCREW ANCHOR CARBON STEEL	6"	2 -3/4"	4"
		3/8" DIA. DEWALT SCREW BOLT + SCREW ANCHOR CARBON STEEL	(A) 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"

**PRODUCT APPROVED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0407.03

Approval Date 05/05/2022

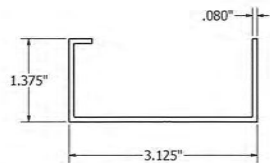
By *[Signature]*  
**Miami-Dade Product Control**



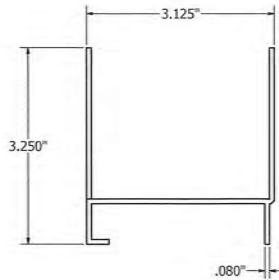
JEFFREY DEVON SMITH, P.E.  
NO. 91182

DATE	01/24/2020	<b>RELIABLE</b> ENGINEERING & ARCHITECTURE, INC. 1300 Enterprise Road Geneva, Alabama 36340 PROPRIETARY AND CONFIDENTIAL
DESIGNED BY	02/27/2020	
CHECKED BY	10/26/2020	
APPROVED BY	10/29/2020	
PROJECT NAME		700HZDC / WIND-DRIVEN RAIN RESISTANT LOUVER
PROJECT NO.		60-022638-008
SHEET NO.		8 OF 10

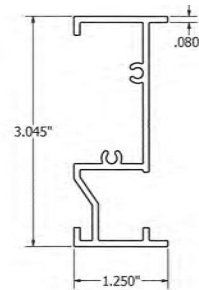
## REAR LOUVER FRAME PROFILES



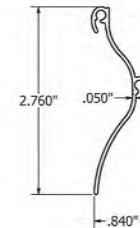
**HEAD FRAME ITEM-1**  
N.T.S.



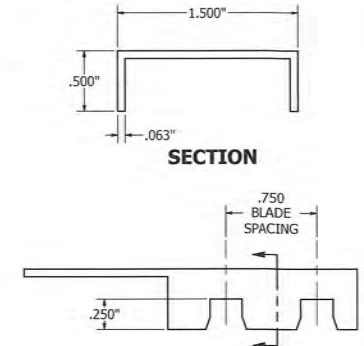
**SILL FRAME ITEM-2**  
N.T.S.



**JAMB FRAME ITEM-3**  
N.T.S.

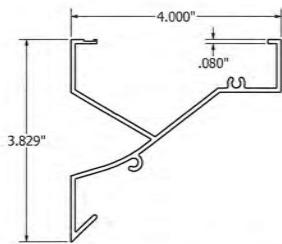


**BLADE ITEM-4**  
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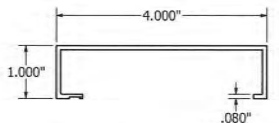


**H.H.B.S. ITEM-5**  
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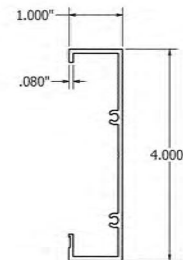
## FRONT LOUVER FRAME PROFILES



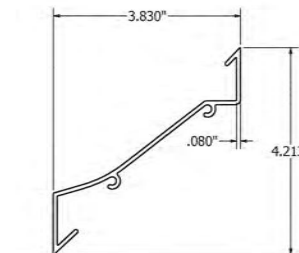
**HEAD FRAME ITEM-8**  
N.T.S.



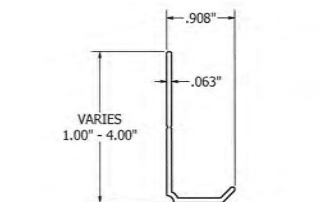
**SILL FRAME ITEM-9**  
N.T.S.



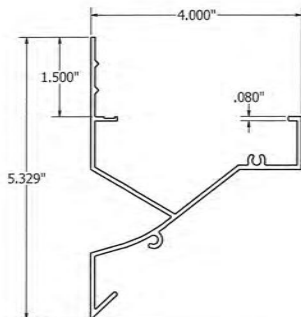
**JAMB FRAME ITEM-10**  
N.T.S.



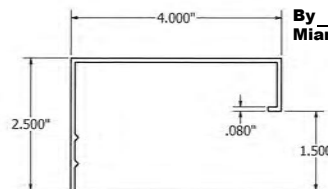
**BLADE ITEM-11**  
N.T.S.



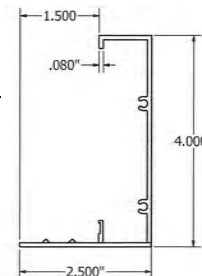
**WATERSTOP ITEM-12**  
N.T.S.



**FLANGED HEAD FRAME ITEM-16**  
N.T.S.



**FLANGED SILL FRAME ITEM-17**  
N.T.S.



**FLANGED JAMB FRAME ITEM-18**  
N.T.S.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-1116.24

Expiration Date 05/13/2026

By *[Signature]*  
Miami-Dade Product Control



**PRODUCT APPROVED**  
as complying with the Florida  
Building Code  
NOA-No. 22-0407.03

Approval Date 05/05/2022

By *[Signature]*  
Miami-Dade Product Control

DATE	05/24/2020	<b>RELIABLE</b> 1300 Enterprise Road Geneva, Alabama 36030 PROPRIETARY AND CONFIDENTIAL
DESIGNED	E.S.	
APPROVED	T.C.	
REVISION	MM	
EXTRUDED ALUMINUM		60-022638-008 LOUVER FRAME PROFILES SCALE: NONE SHEET 9 OF 10





By   
Miami-Dade Product Control



DATE	DKF	9/24/2020	 1300 Enterprise Road Geneva, Alabama 36340 PROPRIETARY AND CONFIDENTIAL
CREATED	TCR	9/27/2020	
APPROVED	F-B	10/28/2020	
APPROVED	MMM	10/29/2020	
PRODUCT	7005DC / WIND-DRIVEN RAIN RESISTANT LOUVER		
TITLE	INSTALL PARTS PROFILES		
SIZE	B	QTY	60-02268-00B
SCALE	NONE		1/8" = 1'-0"
DATE	10/29/2020		