



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

Ruskin Company
3900 Dr. Greaves Road
Grandview, MO 64030

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 HZ700MD Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **60-022569-00B**, titled "HZ700MD / Wind-Driven Rain Resistant Louver", sheets 1 through 10 of 10, dated 10/30/2020, with revision A dated 03/19/2021, prepared by Ruskin Company, 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 expiration 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 **revised NOA#20-1201.01** and consists of this page 1 and evidence page E-1 as well as approval document mentioned above.

The submitted documentation was reviewed by **Sifang Zhao, P.E.**



S.Z.
02/01/2024

NOA No. 23-1116.01
Expiration Date: May 13, 2026
Approval Date: February 01, 2024
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **60-022569-00B**, titled "HZ700MD / Wind-Driven Rain Resistant Louver", sheets 1 through 10 of 10, dated 10/30/2020, with revision A dated 03/19/2021, prepared by Ruskin Company, signed and sealed by Vahe M. Astourian, R.A.

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.
(Submitted under NOA#20-1201.01)
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.
(Submitted under NOA#20-1201.01)
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.
(Submitted under NOA#20-1201.01)

C. CALCULATIONS

1. Wind load review prepared by Ruskin Company, dated 04/01/2021, signed and sealed by Vahe M. Astourian, R.A. (Submitted under NOA#20-1201.01)

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 Ruskin Company, dated 10/30/2023, signed and sealed by Jeffrey Devon Smith, P.E.
2. Statement letter of no financial interest issued by Ruskin Company, dated 10/30/2023, signed and sealed by Jeffrey Devon Smith, P.E.

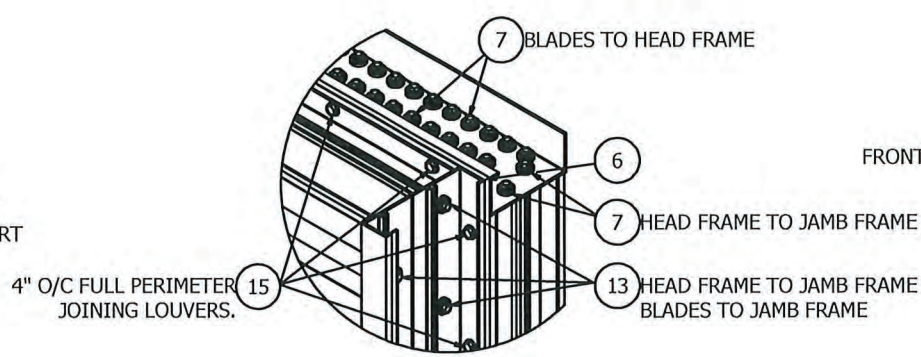
G. OTHERS

1. This NOA revises NOA#20-1201.01 for the 8th edition (2023) of the FBC update. 

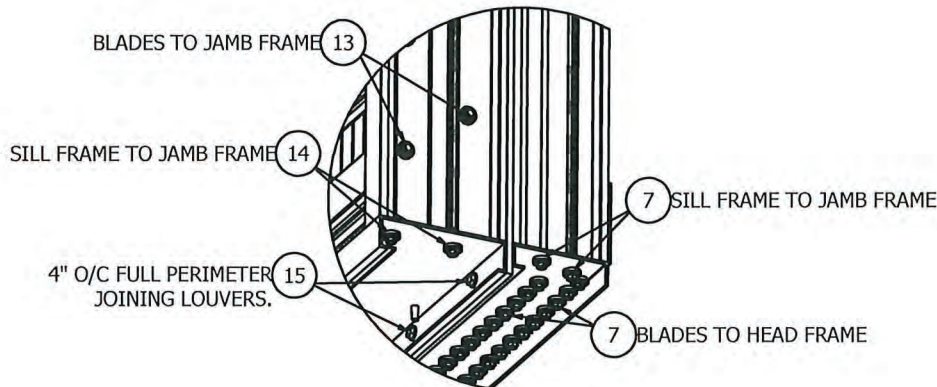
Sifang Zhao, P.E.
Product Control Examiner
NOA No. 23-1116.01
Expiration Date: May 13, 2026
Approval Date: February 01, 2024

ABBREVIATIONS:

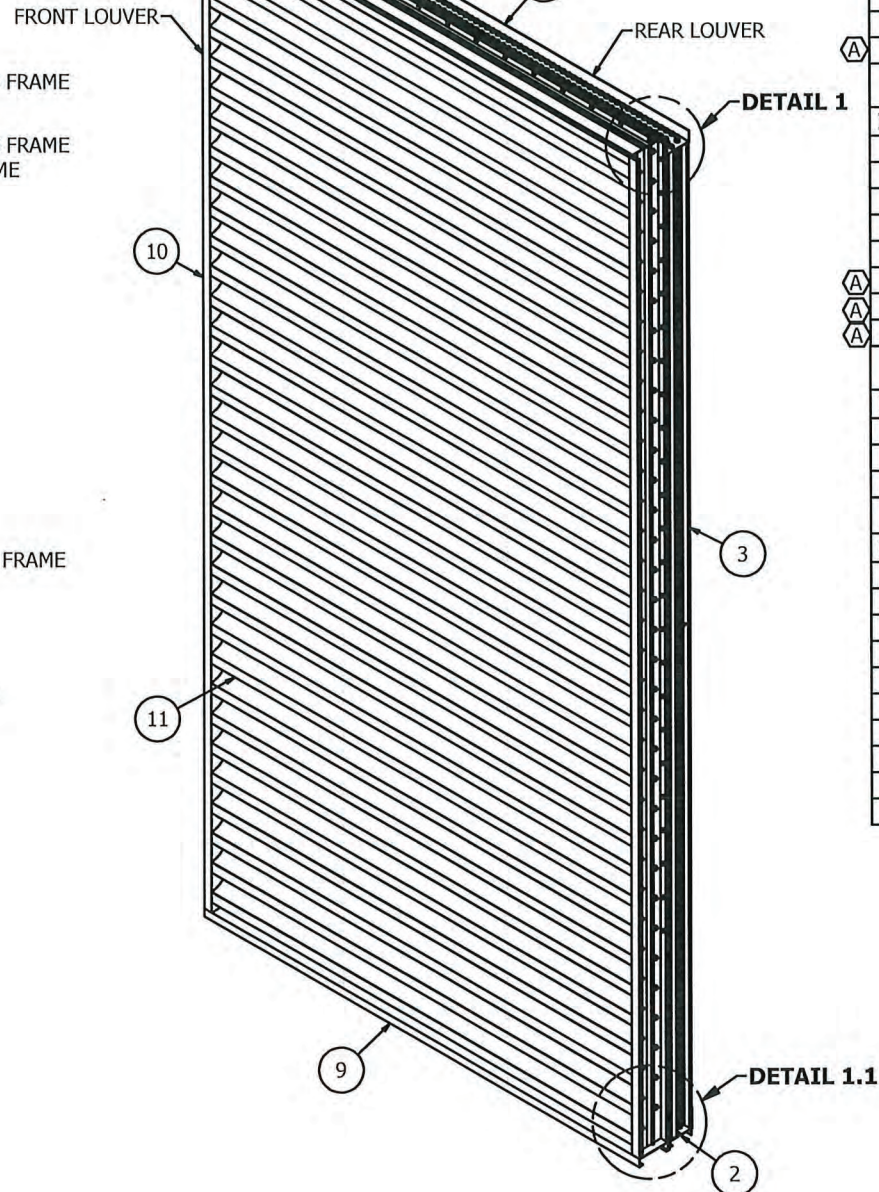
B.O.	- BLANK OFF
CF	- CHANNEL FRAME
CONT.	- CONTINUOUS
C-C	- CENTER TO CENTER
DIM	- DIMENSION
FLG	- FLANGE
FF	- FLANGED FRAME
HDG	- HOT DIP GALVANIZED
H.V.B.S.	- HIDDEN VERTICAL BLADE SUPPORT
H.H.B.S.	- HIDDEN HORIZONTAL BLADE SUPPORT
HWH	- HEX WASHER HEAD
L.D.	- LOUVER DIMENSION
MAX.	- MAXIMUM
MIN.	- 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



HZ700MD COMBINATION RECTANGLE LOUVER
N.T.S.
(CF) 60"W X 120"H SHOWN

NOTES:

1. THE **HZ700MD** HAS BEEN TESTED IN ACCORDANCE WITH & QUALIFIED TO FLORIDA PROTOCOLS **TAS-201, 202, & 203** FOR LARGE MISSILE IMPACT, UNIFORM PRESSURE, CYCLIC WIND PRESSURE; **LEVEL E (ENHANCED 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 +/- 130 PSF** OR LESS. THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEAD LOADS.
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 SHEET-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 120" 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 JAMBS FRAMES. THE H.H.B.S. CHANNEL IS REQUIRED FOR ANY LOUVER ASSEMBLY EXCEEDING **60" HIGH** & EQUALLY SPACED BETWEEN HEAD & SILL FRAMES.
9. **SQUARE BALLOONS** INDICATE **SHIP LOOSE PARTS**.

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)

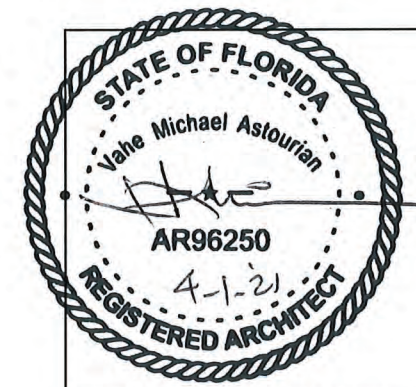
ITEM	DESCRIPTION	MATERIAL
8	HEAD FRAME	EXT ALUM 6063-T6
9	SILL FRAME	EXT ALUM 6063-T6
10	JAMB FRAME	EXT ALUM 6063-T6
11	LOUVER BLADE	EXT ALUM 6063-T6
12	WATERSTOP	EXT ALUM 6063-T5
13	SCR 10-16 X2" HWH SW A/B	410 SS/ZC
14	SCR 8-18 X .75" HWH SW A/B	410 SS/ZC
15	SCR 10X.75" HWH TEK	410 SS/ZC

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

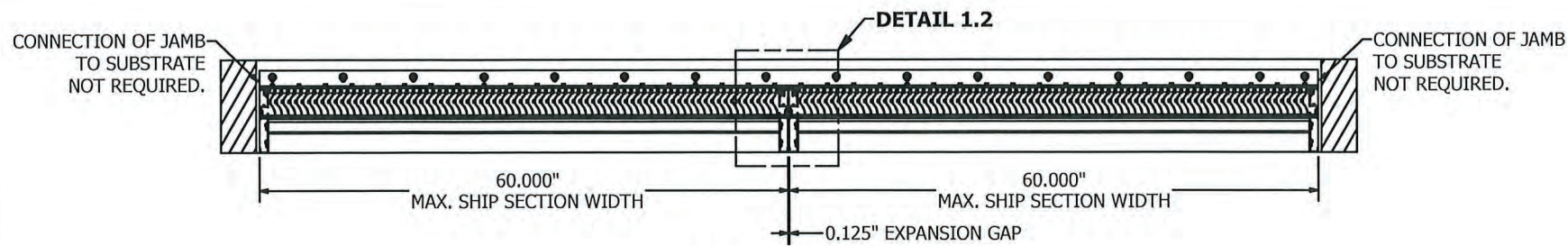
ITEM	DESCRIPTION	MATERIAL
19	CONT. RETAINING ANGLE 2" X 2" X 1/4"	EXT ALUM 6063-T6
20	SUBSTRATE FASTENER (N.I.C.)	(SEE SHEETS 07 & 08)
21	SCR 1/4"-20 X 1-1/2" HWH TEK3	ZC
22	UNIVERSAL SLEEVE - MIN. 1/8" THK PLATE	ALUM 5005-H34
23	SPL PLT LVR ALUM 2X4X.125	ALUM 3003-H14
24	CONT. RETAINING ZEE - 1/4" THK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



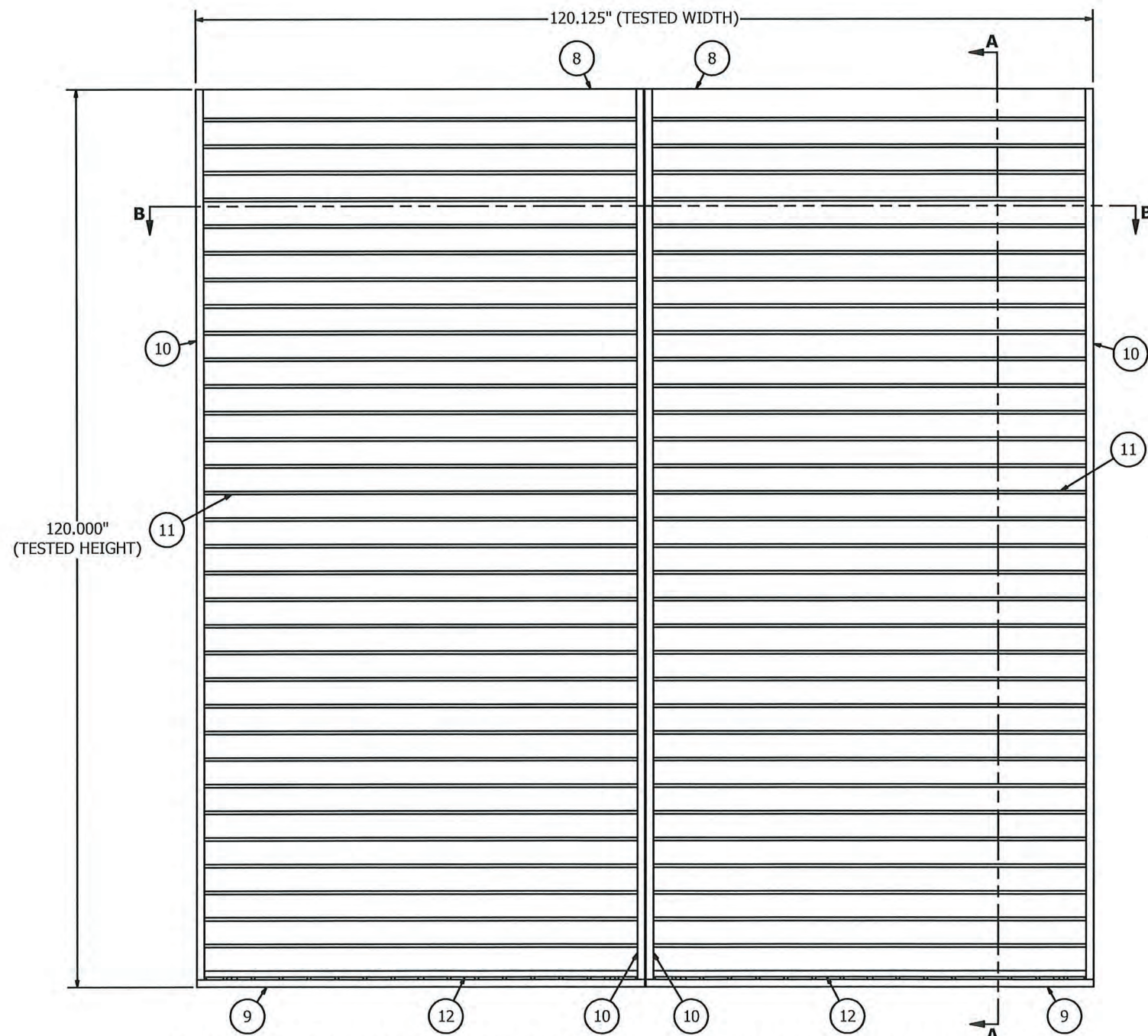
VAHE MICHAEL ASTOURIAN
AR-96250

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-1116.01
Expiration Date 05/13/2026
By Miami-Dade Product Control

A	REVISED NOTE 1. ADDED DETAIL 1.1 ADDED FASTENER INFO TO PARTS LISTS	E-R	JDS	VMA	3/19/21
AUTHOR	DKF	9/25/2020	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL		
CHECKED	E-R	9/28/2020			
APPROVED	TCB	10/29/2020			
APPROVED	MMM	10/30/2020			
Tolerances Unless Stated Otherwise Use WIO-007, WIO-008 Fractions ±1/16 Two Decimals ±0.020 Three Decimals ±0.010 Angle Dimensions ±2°			MATERIAL EXTRUDED ALUMINUM TITLE STANDARD LOUVER SPECIFICATIONS SIZE B DWG NO 60-022569-008 SCALE NONE INVENTOR SHEET 1 OF 10		



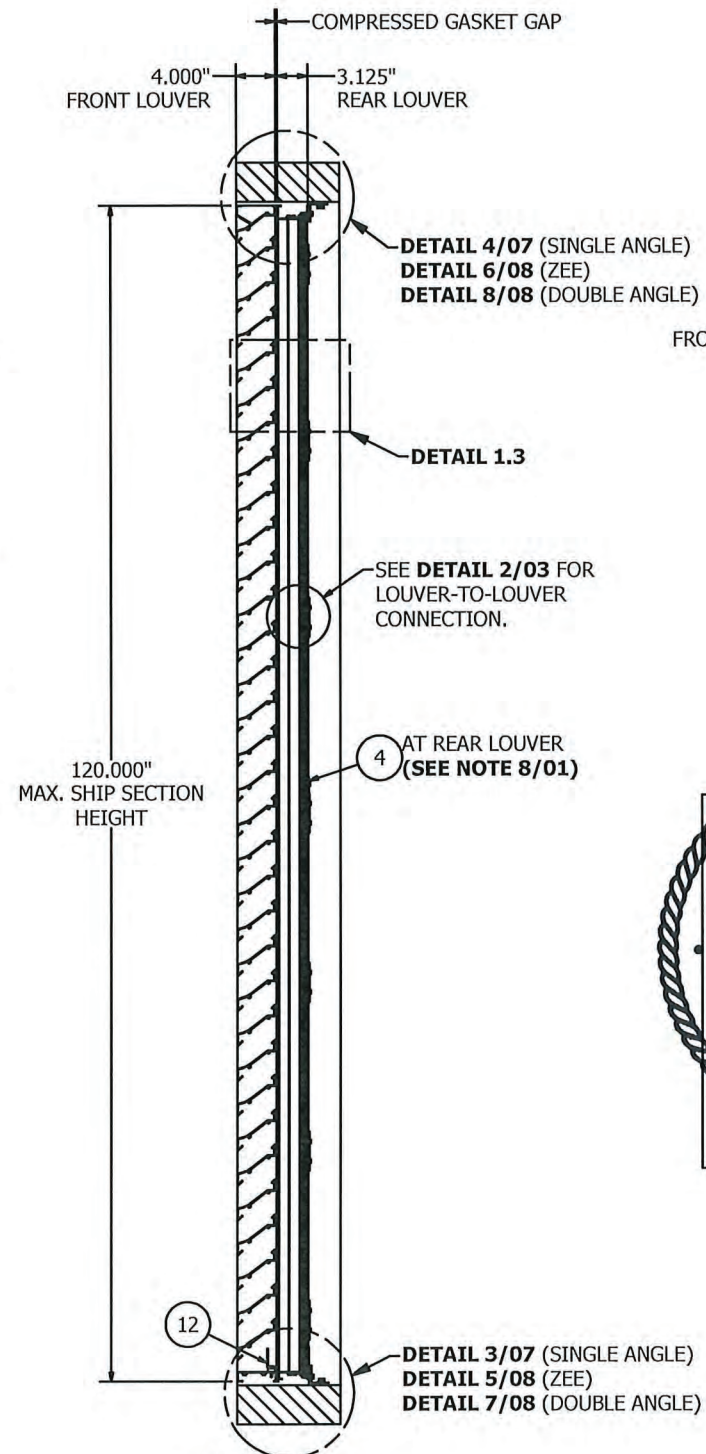
SECTION B-B



MULTI-SECTION ASSEMBLY - CHANNEL FRAME (FRONT) LOUVER

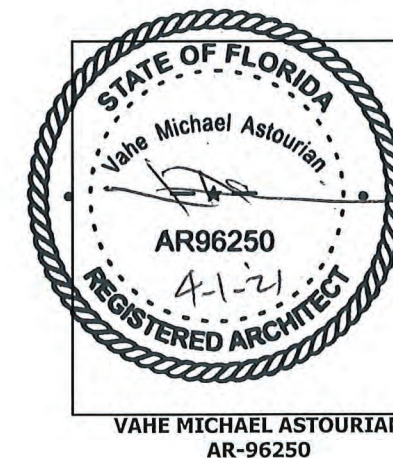
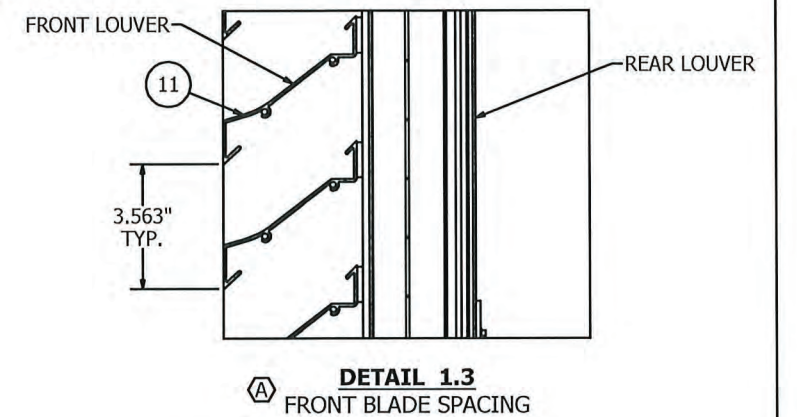
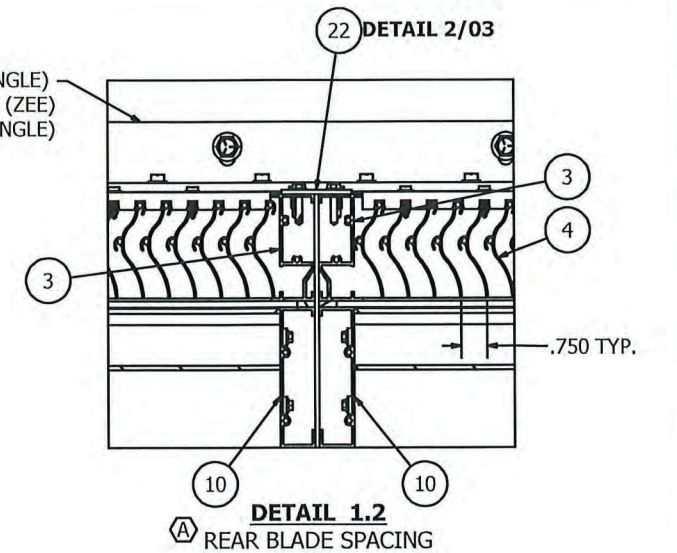
N.T.S.
(SUBSTRATE & INSTALL PARTS NOT SHOWN FOR CLARITY)

FRONT VIEW



SECTION A-A

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



PRODUCT REVISED
as complying with the Florida
Building Code

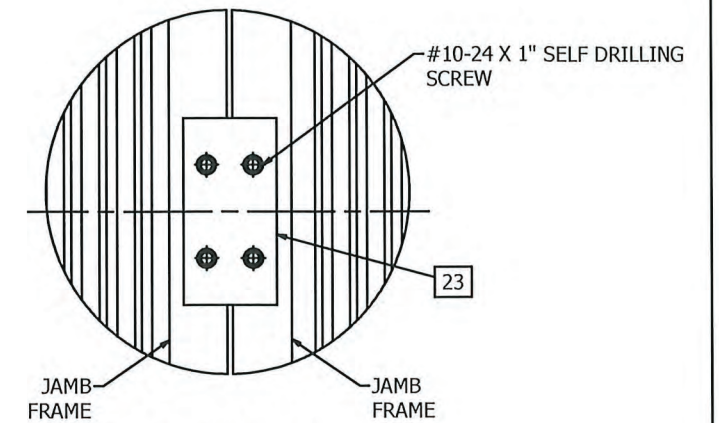
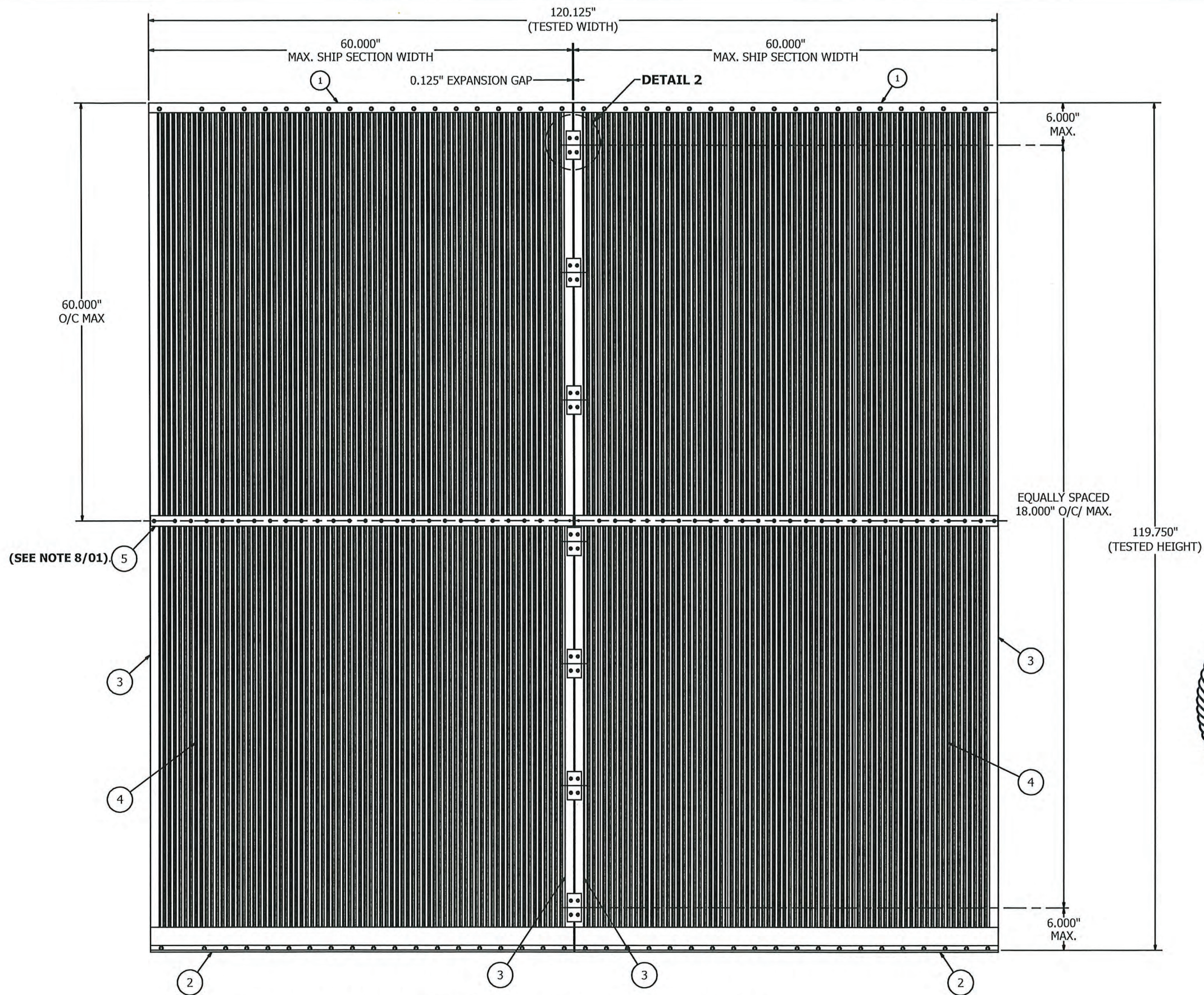
NOA-No. 23-1116.01

Expiration Date 05/13/2026

By *[Signature]*
Miami-Dade Product Control

VAHE MICHAEL ASTOURIAN
AR-96250

A	ADDED DETAIL 1.2 & 1.3	E-R	JDS	VMA	3/19/21
AUTHOR	DKF	9/25/2020	RUSKIN <small>3900 Doctor Greaves Rd, Grandview, MO 64030</small> AUTHORITY IN AIR CONTROL PROPRIETARY AND CONFIDENTIAL		
CHECKED	E-R	9/28/2020			
APPROVED	TCB	10/29/2020			
APPROVED	MMM	10/30/2020	PRODUCT HZ700MD / WIND-DRIVEN RAIN RESISTANT LOUVER TITLE MULTI-SECTION (CF) ASSEMBLY FRONT VIEW MATERIAL EXTRUDED ALUMINUM SIZE B SCALE NONE INVENTOR SHEET 2 of 10		



DETAIL 2
LOUVER-TO-LOUVER SPLICE




VAHE MICHAEL ASTOURIAN
AR-96250

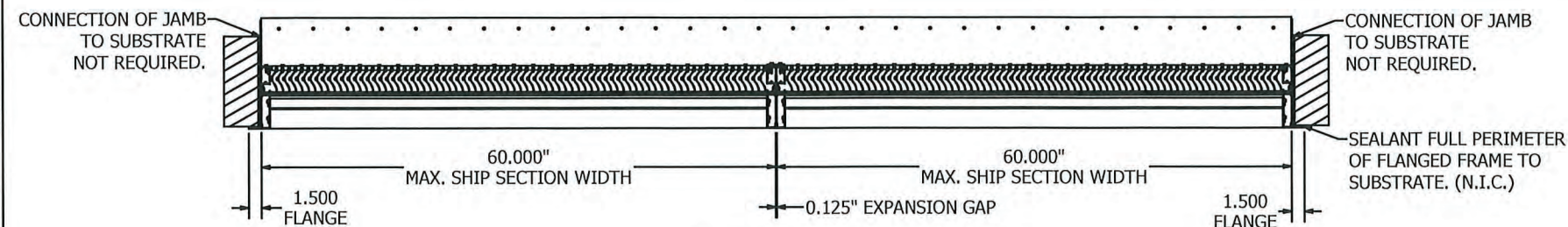
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-1116.01
Expiration Date 05/13/2026
By *[Signature]*
Miami-Dade Product Control

MULTI-SECTION ASSEMBLY - CHANNEL FRAME (REAR) LOUVER

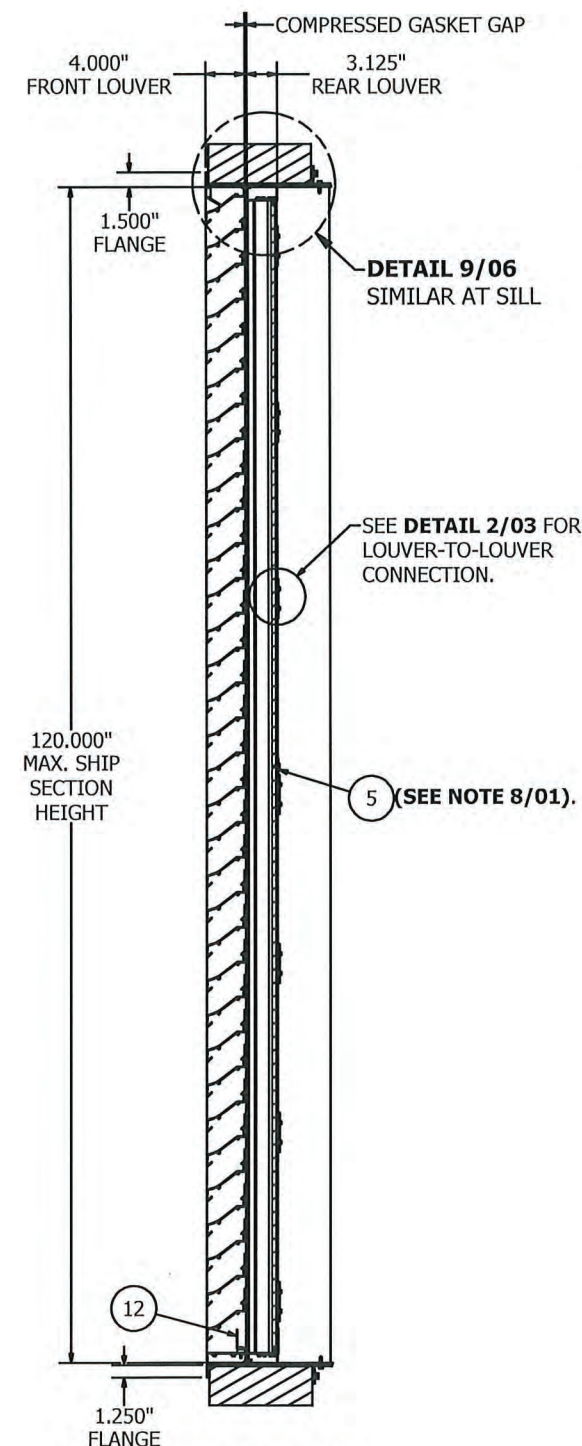
N.T.S.
(SUBSTRATE & INSTALL PARTS NOT SHOWN FOR CLARITY)

BACK VIEW

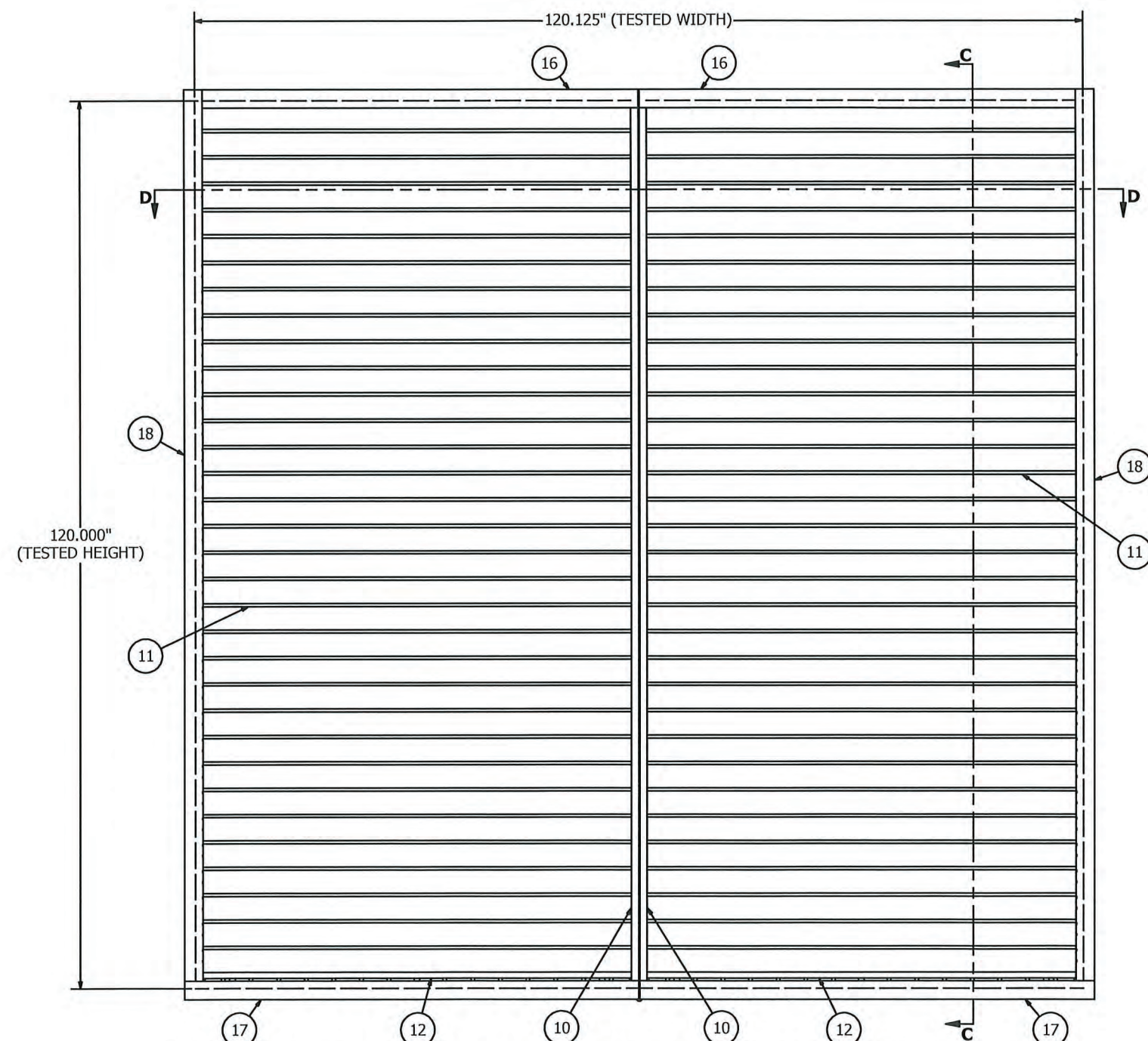
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CHECKED	E-R	9/28/2020				
APPROVED	TCB	10/29/2020				
APPROVED	MMM	10/30/2020				
MATERIAL			PRODUCT	HZ700MD / WIND-DRIVEN RAIN RESISTANT LOUVER		
EXTRUDED ALUMINUM			TITLE			
			MULTI-SECTION (CF) ASSEMBLY BACK VIEW			
			SIZE	DWG NO	REV	
			B	60-022569-00B	A	
ECN			SCALE	INVENTOR		
			NONE	SHEET 3 OF 10		



SECTION D-D



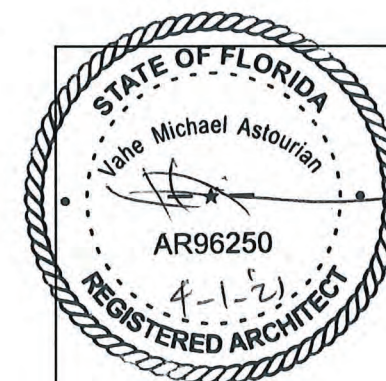
SECTION C-C



MULTI-SECTION ASSEMBLY - FLANGED FRAME (FRONT) LOUVER


N.T.S.
(SUBSTRATE & INSTALL PARTS NOT SHOWN FOR CLARITY)

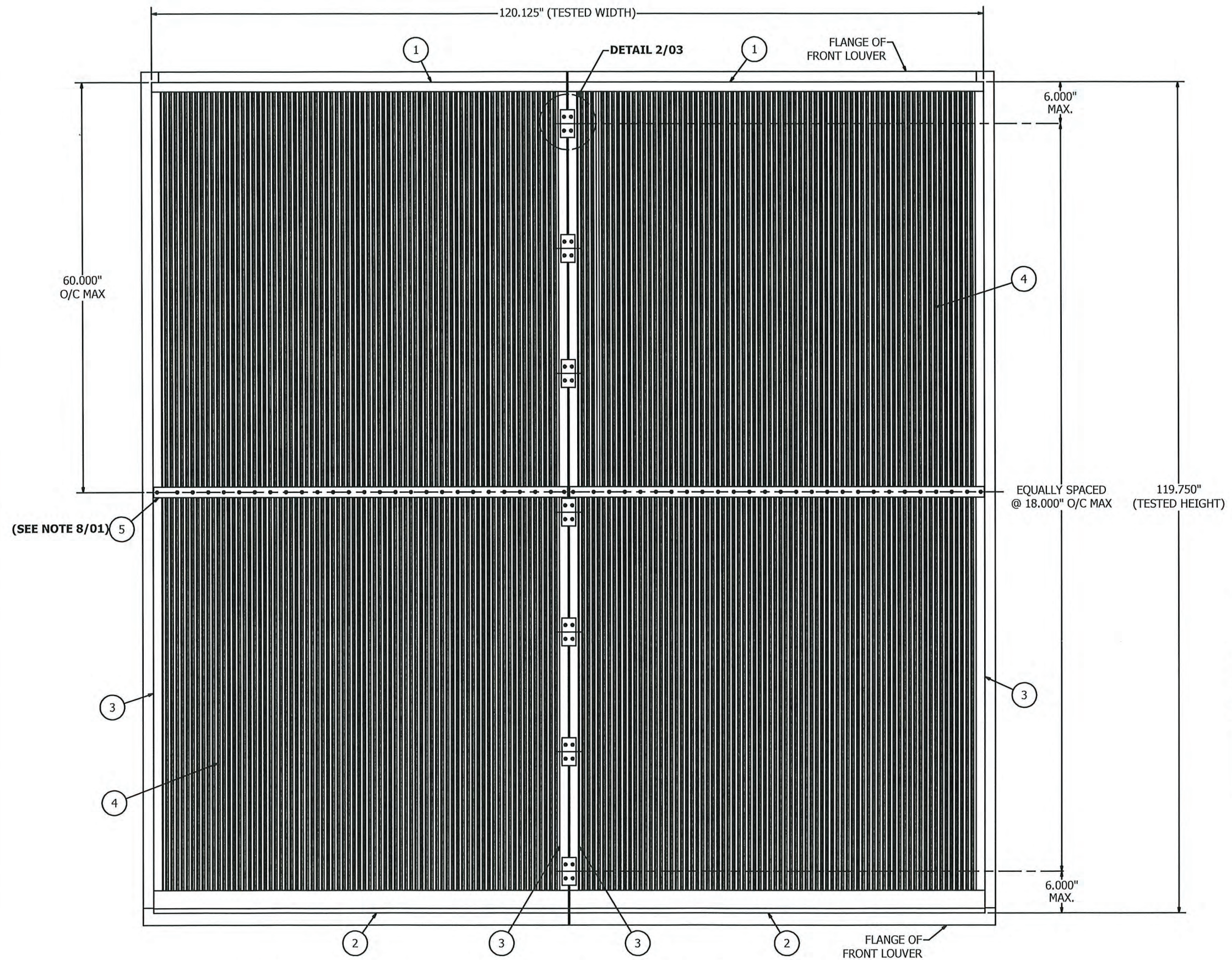
FRONT VIEW



VAHE MICHAEL ASTOURIAN
AR-96250

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Expiration Date 05/13/2026
By *[Signature]*
Miami-Dade Product Control

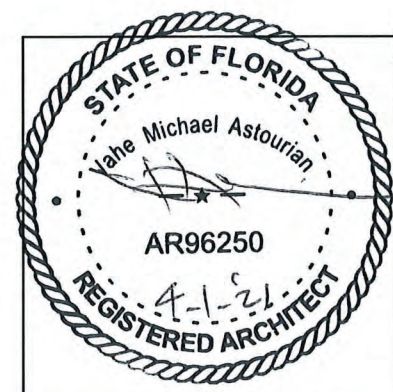
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CHECKED	E-R	9/28/2020			
APPROVED	TCB	10/29/2020			
APPROVED	MMM	10/30/2020			
MATERIAL			PRODUCT		
EXTRUDED ALUMINUM			HZ700MD / WIND-DRIVEN RAIN RESISTANT LOUVER		
			MULTI-SECTION (FF) ASSEMBLY FRONT VIEW		
			TITLE		
			SIZE	DWG NO	
			B	60-022569-00B	
			SCALE	NONE	
ECN					
			SHEET 4 OF 10		




MULTI-SECTION ASSEMBLY - CHANNEL FRAME (REAR) LOUVER

N.T.S.
(SUBSTRATE & INSTALL PARTS NOT SHOWN FOR CLARITY)

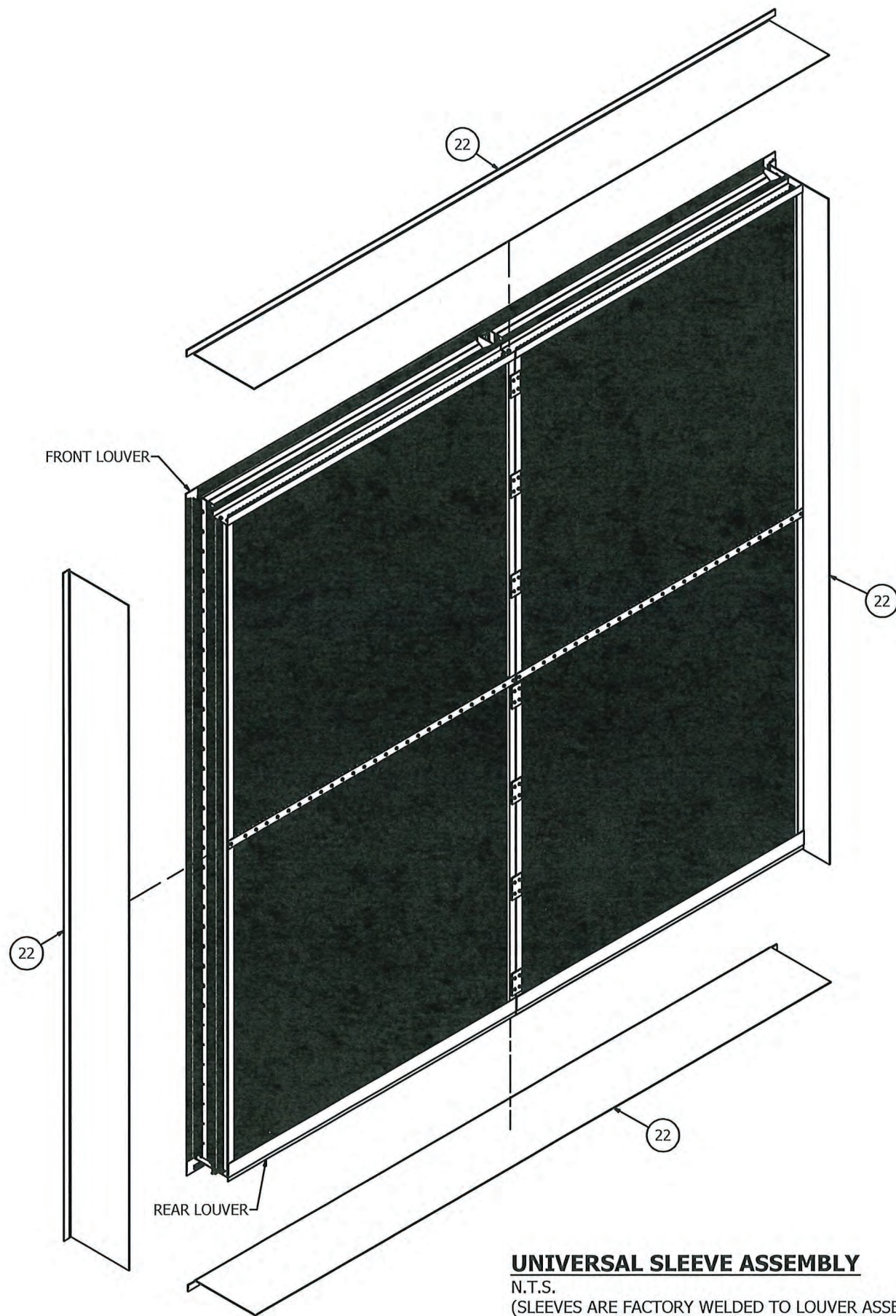
BACK VIEW



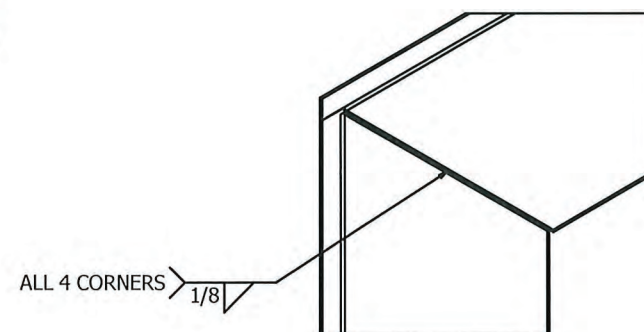
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VAHE MICHAEL ASTOURIAN
AR-96250

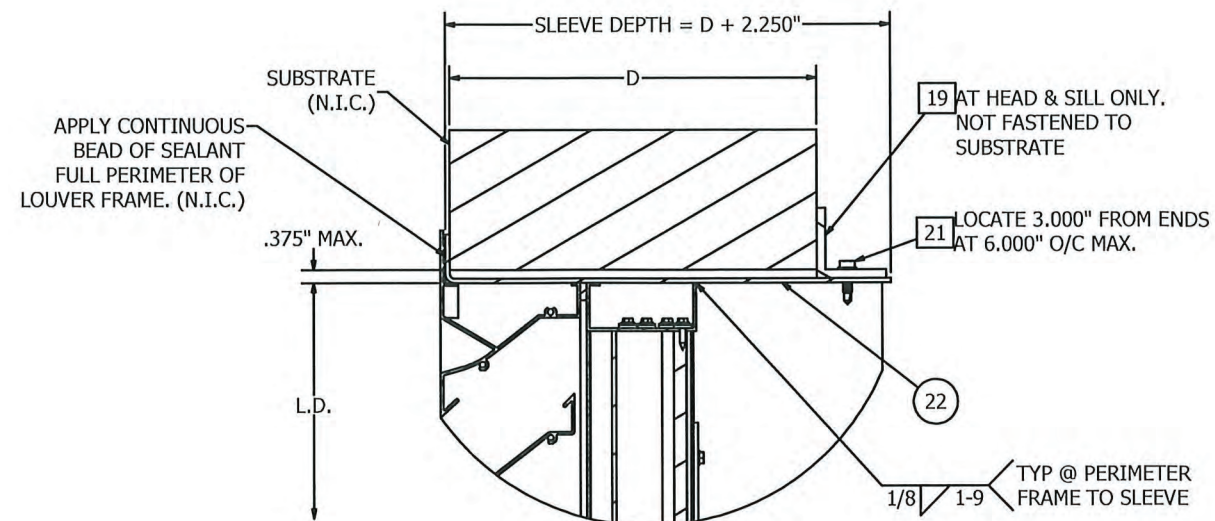
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CHECKED	E-R	9/28/2020			
APPROVED	TCB	10/29/2020			
APPROVED	MMM	10/30/2020			
MATERIAL EXTRUDED ALUMINUM	PRODUCT		HZ700MD / WIND-DRIVEN RAIN RESISTANT LOUVER		
	TITLE		MULTI-SECTION (FF) ASSEMBLY BACK VIEW		
	SIZE B		DWG NO	60-022569-00B	REV A
ECN	SCALE		NONE	INVENTOR	SHEET 5 OF 10



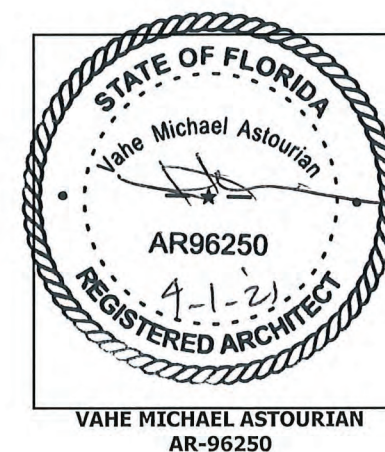
UNIVERSAL SLEEVE ASSEMBLY
N.T.S.
(SLEEVES ARE FACTORY WELDED TO LOUVER ASSEMBLIES)




**UNIVERSAL SLEEVE
CORNER WELDS**

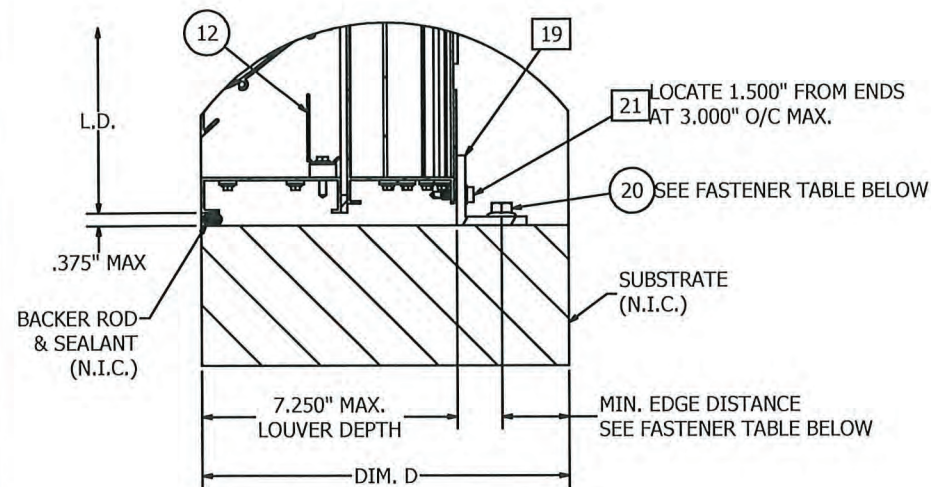


DETAIL 9
RETAINING ANGLE INSTALL AT HEAD (SHOWN). SIMILAR AT SILL.

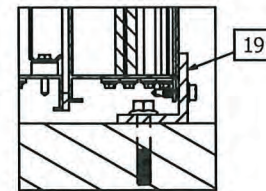


PRODUCT REVISED
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NOA-No. 23-1116.01
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By *CS*
Miami-Dade Product Control

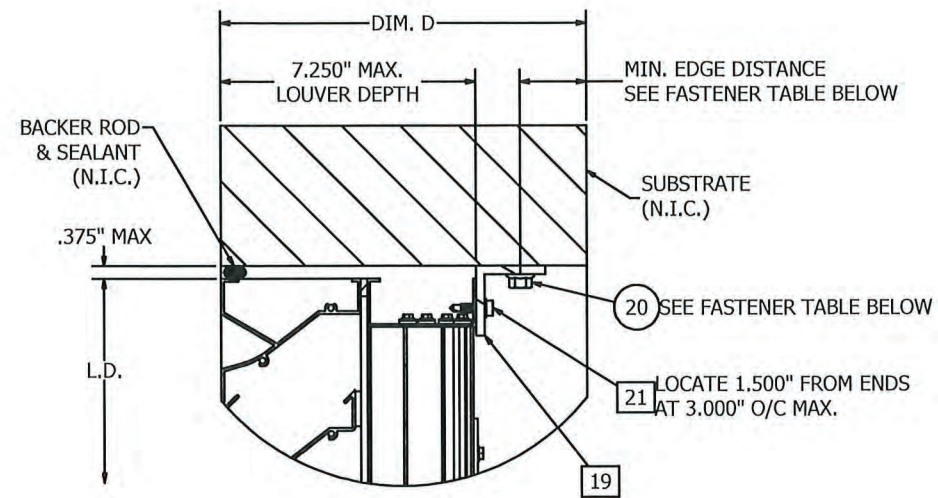
AUTHOR	DKF	9/25/2020	 3900 Doctor Greaves Rd Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL
CHECKED	F-R	9/28/2020	
APPROVED	TCB	10/29/2020	
APPROVED	MMM	10/30/2020	
MATERIAL	EXTRUDED ALUMINUM		
TITLE			UNIVERSAL SLEEVE ASSEMBLY
SIZE B			DWG NO 60-022569-00B
ECN		SCALE NONE	INVENTOR
			SHEET 6 OF 10



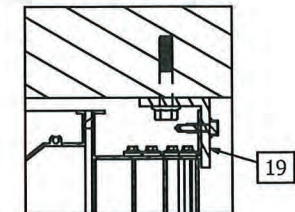
DETAIL 3
ANGLE INSTALL AT SILL



**OPTIONAL
LEG INSIDE**



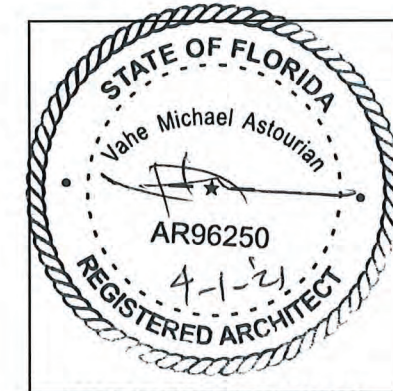
DETAIL 4
ANGLE INSTALL AT HEAD



**OPTIONAL
LEG INSIDE**

SUBSTRATE FASTENER TABLE (N.I.C.) / HZ700MD 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"



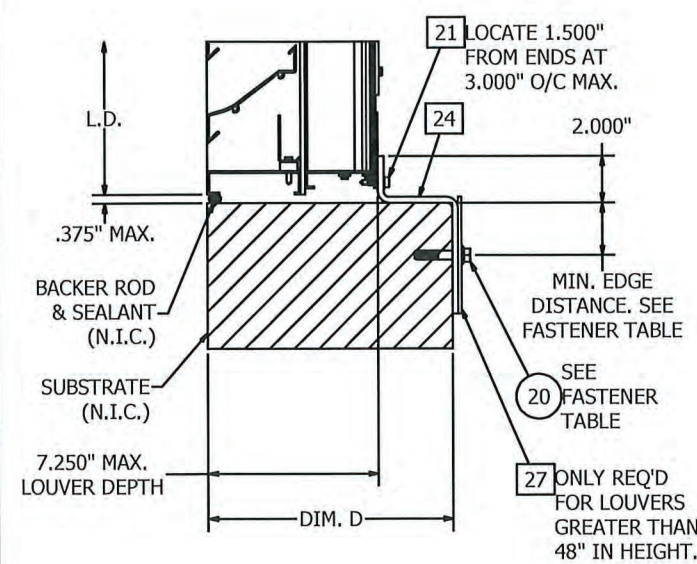
VAHE MICHAEL ASTOURIAN
AR-96250

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-1116.01

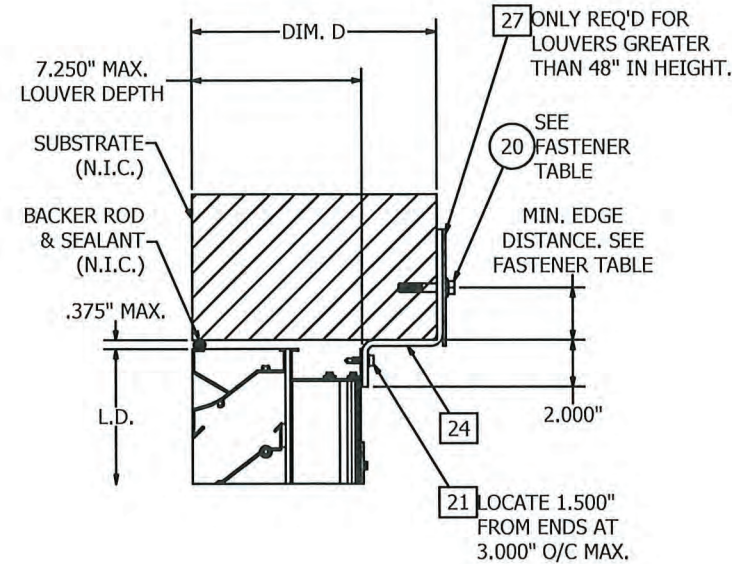
Expiration Date 05/13/2026

By 
Miami-Dade Product Control

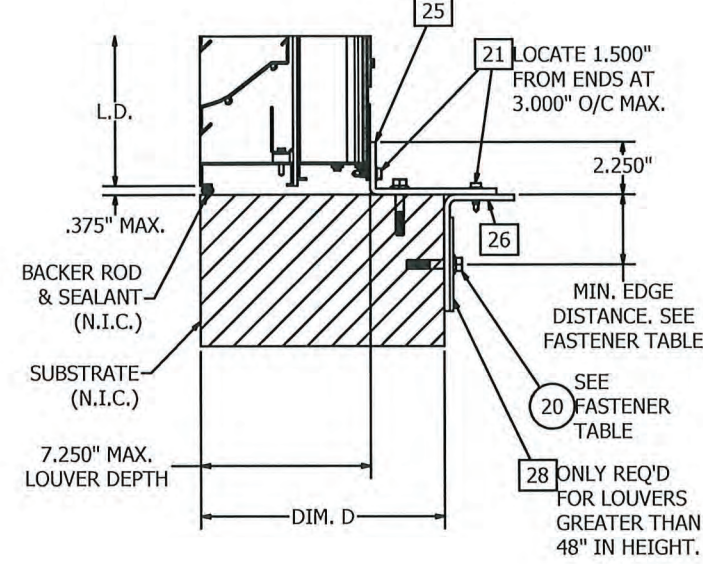
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CHECKED	F-R	9/28/2020	
APPROVED	TCB	10/29/2020	
APPROVED	MMM	10/30/2020	
MATERIAL			EXTRUDED ALUMINUM
TITLE			LOUVER INSTALLATION DETAILS & FASTENING
SIZE			B
SCALE			NONE
DWG NO			60-022569-00B
REV			A
SHEET			7 OF 10



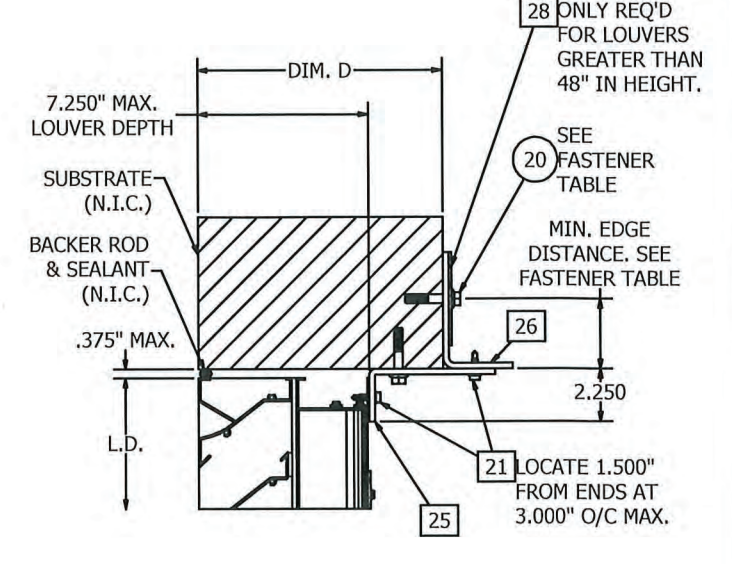
DETAIL 5
RETAINING ZEE INSTALLED AT SILL



DETAIL 6
RETAINING ZEE INSTALLED AT HEAD



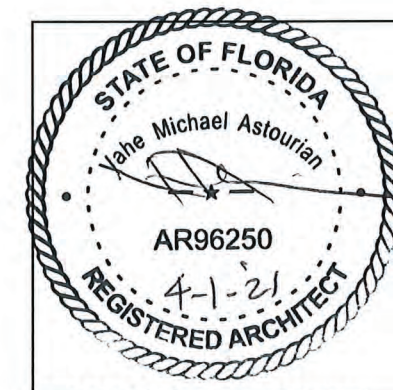
DETAIL 7
DOUBLE ANGLE INSTALLED AT SILL




DETAIL 8
DOUBLE ANGLE INSTALLED AT HEAD

SUBSTRATE FASTENER TABLE (N.I.C.) / HZ700MD 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"

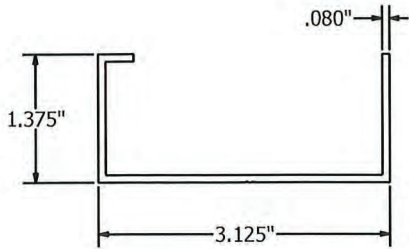


VAHE MICHAEL ASTOURIAN
AR-96250

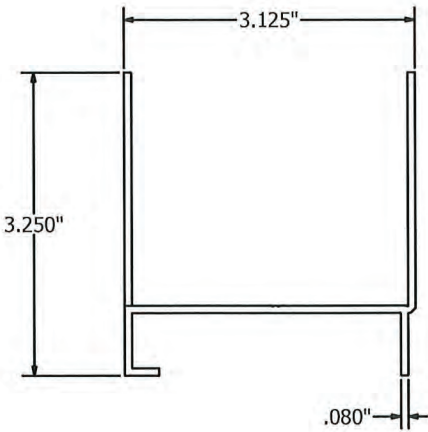
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-1116.01
Expiration Date 05/13/2026
By 
Miami-Dade Product Control

A	REVISED SUBSTRATE FASTENER TABLE	E-R	JDS	VMA	3/19/21
AUTHOR	DKF	9/25/2020	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL		
CHECKED	E-R	9/28/2020			
APPROVED	TCB	10/29/2020			
APPROVED	MMM	10/30/2020			
MATERIAL			PRODUCT		
EXTRUDED ALUMINUM			HZ700MD / WIND-DRIVEN RAIN RESISTANT LOUVER		
TITLE			LOUVER INSTALL / RETAINING ZEE & DOUBLE ANGLE		
SIZE			DWG NO		
B			60-022569-00B		
SCALE			NONE		
ECH			INVENTOR		
			SHEET 8 OF 10		

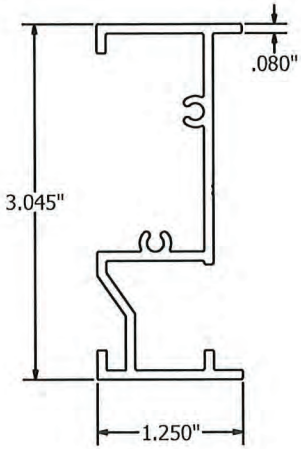
REAR LOUVER FRAME PROFILES



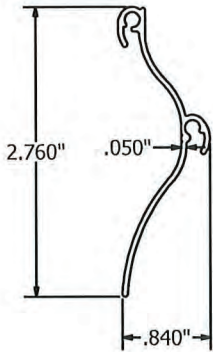
HEAD FRAME ITEM-1
N.T.S.



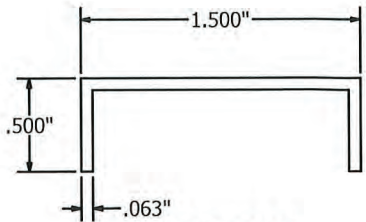
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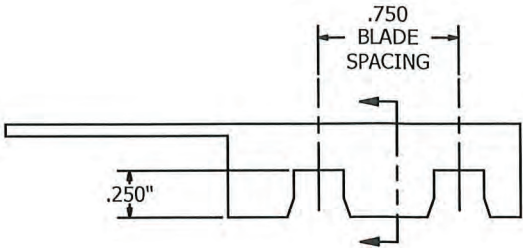
JAMB FRAME ITEM-3
N.T.S.



BLADE ITEM-4
N.T.S.

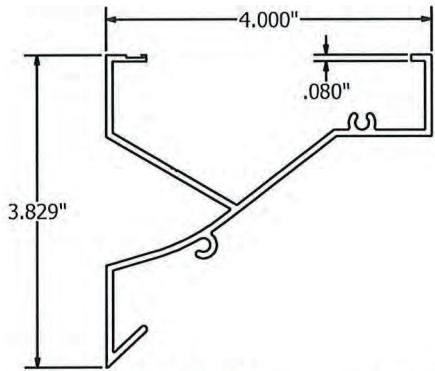


SECTION

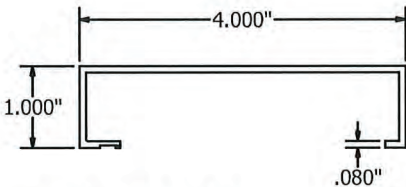


H.H.B.S. ITEM-5
N.T.S.

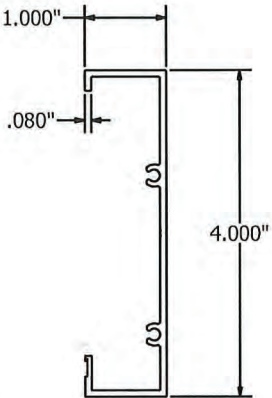
FRONT LOUVER FRAME PROFILES



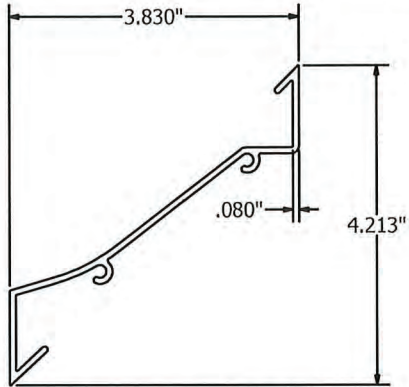
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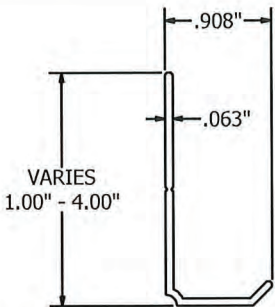
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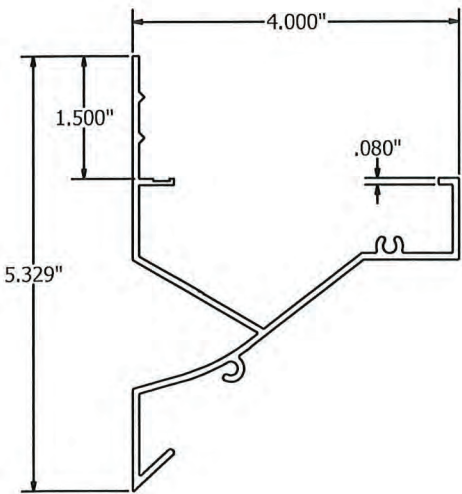
JAMB FRAME ITEM-10
N.T.S.



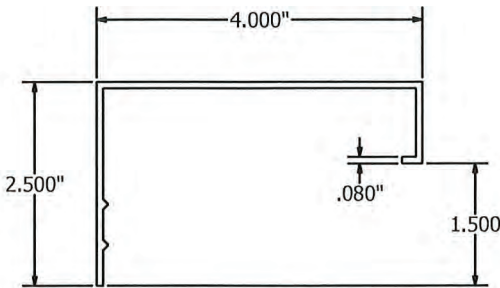
BLADE ITEM-11
N.T.S.



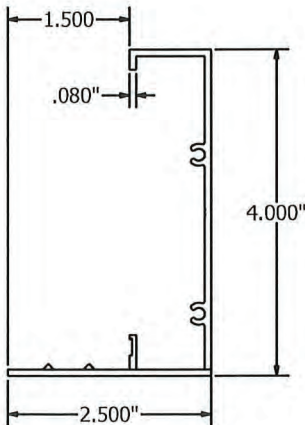
WATERSTOP ITEM-12
N.T.S.



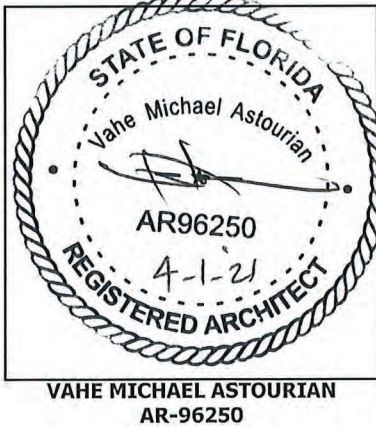
FLANGED HEAD FRAME ITEM-16
N.T.S.





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

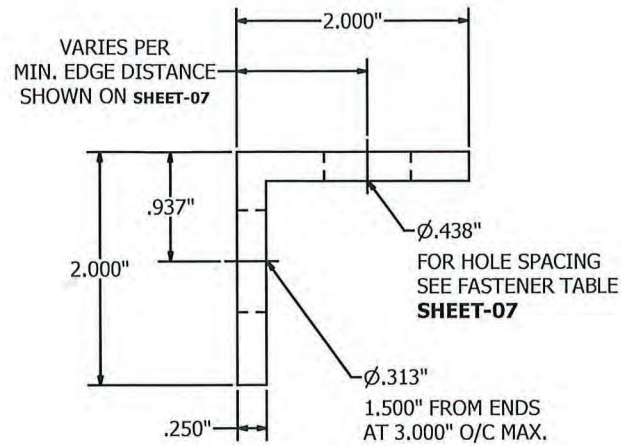


FLANGED JAMB FRAME ITEM-18
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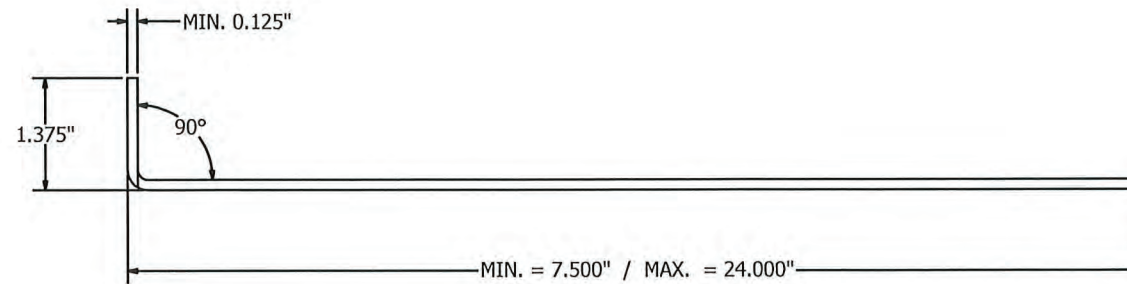


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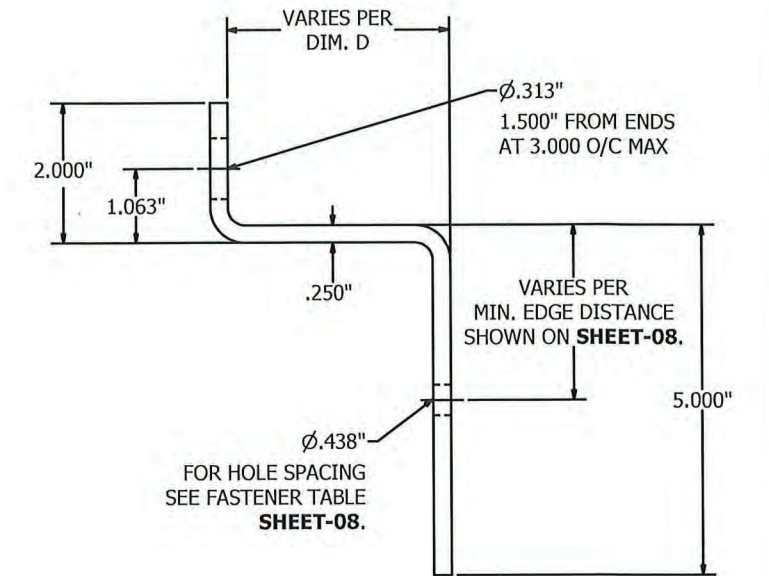
A	RENUMBERED ITEMS	E-R	JDS	VMA	3/19/21
AUTHOR	DKF	9/25/2020	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL		
CHECKED	E-R	9/28/2020			
APPROVED	TCB	10/29/2020			
APPROVED	MMM	10/30/2020			
MATERIAL		EXTRUDED ALUMINUM		TITLE	
				LOUVER FRAME PROFILES	
				DWG NO.	
				60-022569-00B	
				REV	
				A	
				SCALE	
				NONE	
				INVENTOR	
				SHEET 9 of 10	



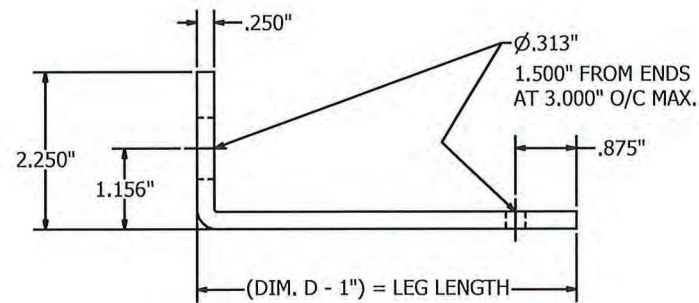
RETAINING ANGLE ITEM-19
N.T.S.



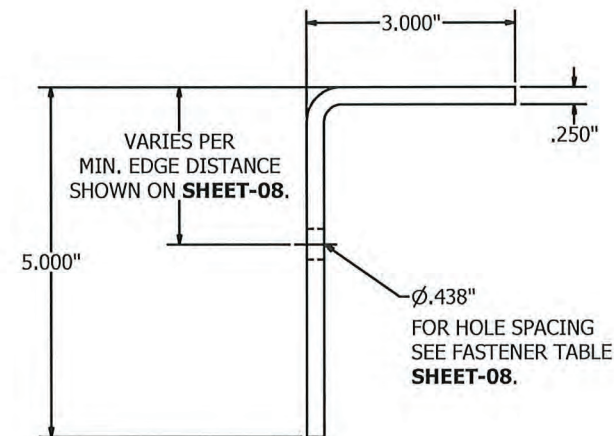
UNIVERSAL SLEEVE ITEM-22
N.T.S.



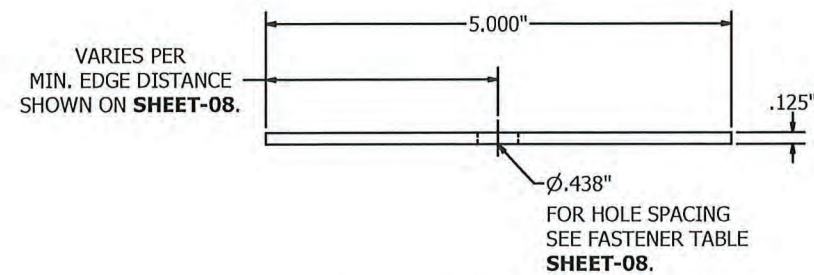
RETAINING ZEE ITEM-24
N.T.S.



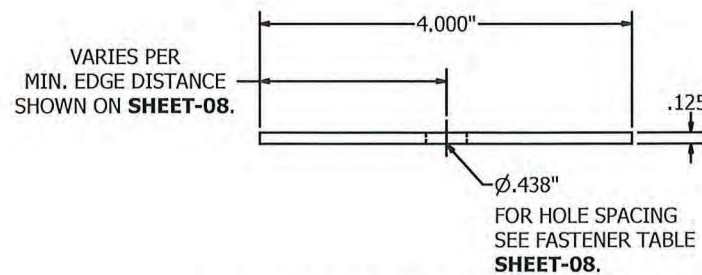
RETAINING ANGLE ITEM-25
N.T.S.



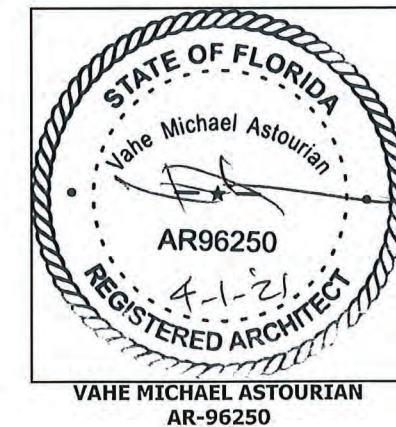
RETAINING ANGLE ITEM-26
N.T.S.



STIFFENER PLATE ITEM-27
N.T.S.



STIFFENER PLATE ITEM-28
N.T.S.



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Miami-Dade Product Control

VAHE MICHAEL ASTOURIAN
AR-96250

A RENUMBERED ITEMS				E-R	JDS	VMA	3/19/21
AUTHOR	DKF	9/25/2020	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL				
CHECKED	E-R	9/28/2020					
APPROVED	TCB	10/29/2020					
APPROVED	MMM	10/30/2020					
MATERIAL			PRODUCT				
EXTRUDED ALUMINUM			HZ700MD / WIND-DRIVEN RAIN RESISTANT LOUVER				
TITLE			INSTALL PARTS PROFILES				
SIZE			DWG NO			REV	
B			60-022569-00B			A	
ECH			SCALE			INVENTOR	
			NONE			SHEET 10 of 10	