



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 approval 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 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.**



NOA No. 20-1201.01
Expiration Date: May 13, 2026
Approval Date: May 13, 2021
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.
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

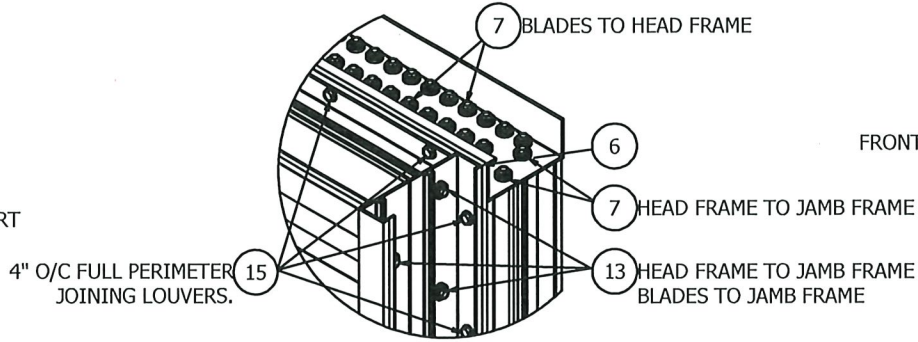
1. Statement letter of code conformance to the 7th edition (2020) of the FBC, issued by Ted Ruskin Company, dated 04/01/2020, signed and sealed by Vahe M. Astourian, P.E.
2. Statement letter of no financial interest issued by Ruskin Company, dated 04/01/2021, signed and sealed by Vahe M. Astourian, P.E.



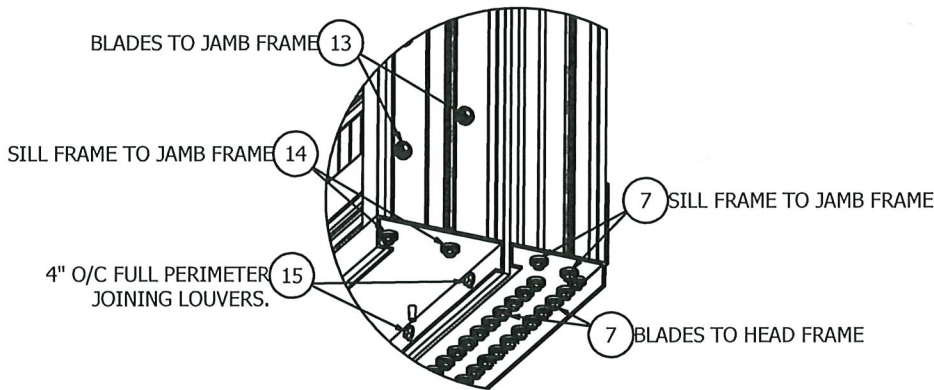
Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 20-1201.01
Expiration Date: May 13, 2026
Approval Date: May 13, 2021

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



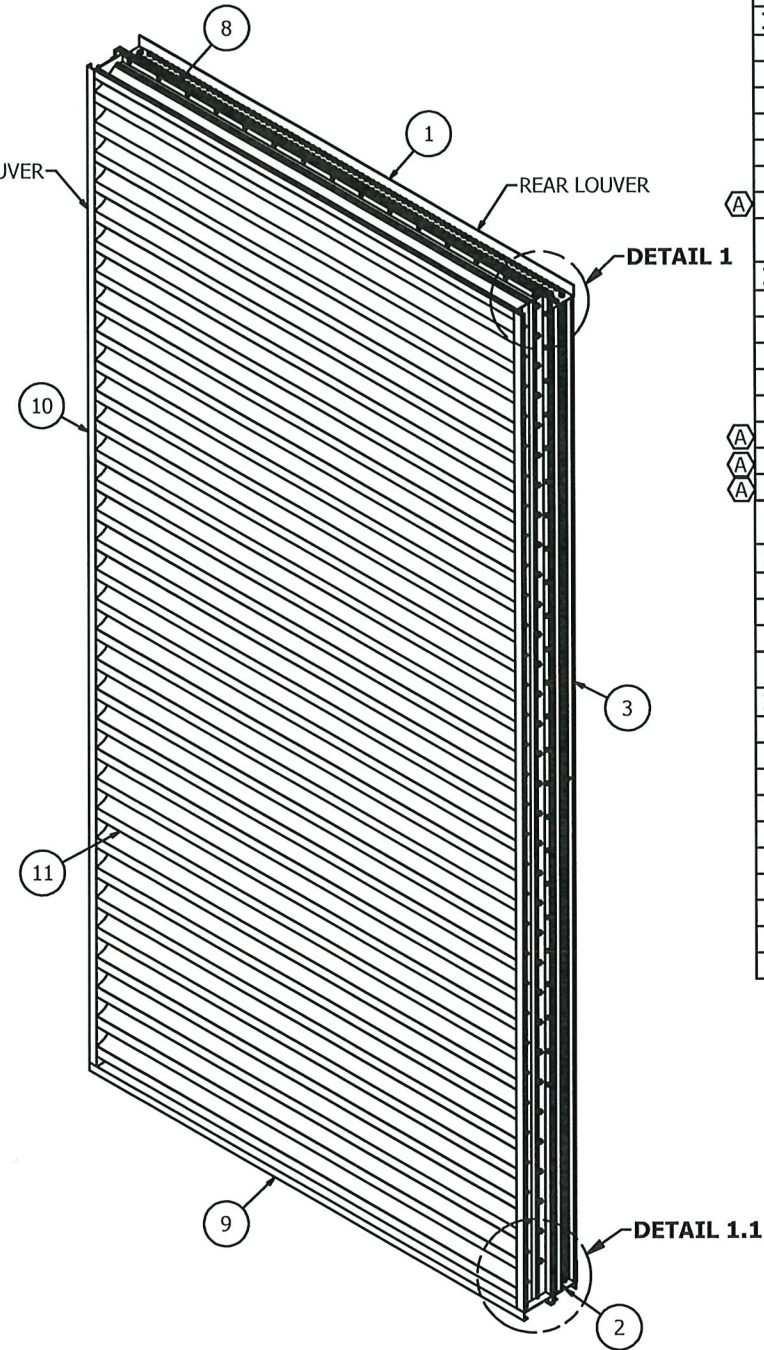
DETAIL 1.1
LOUVER ASSEMBLY

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 ATTACMENT 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



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

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)

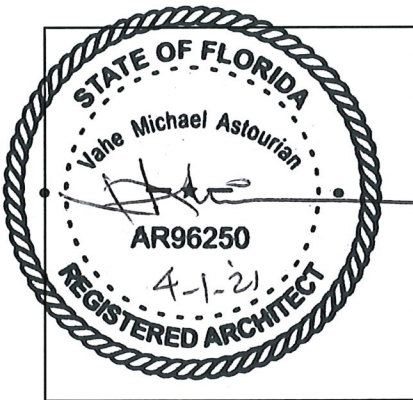
ITEM	DESCRIPTION	MATERIAL
8	HEAD FRAME	EXT ALUM 6063-T6
9	SILL FRAME	EXT ALUM 6063-T6
10	JAMB FRAME	EXT ALUM 6063-T6
11	LOUVER BLADE	EXT ALUM 6063-T6
12	WATERSTOP	EXT ALUM 6063-T5
13	SCR 10-16 X2" HWH SW A/B	410 SS/ZC
14	SCR 8-18 X .75" HWH SW A/B	410 SS/ZC
15	SCR 10X.75" HWH TEK	410 SS/ZC

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

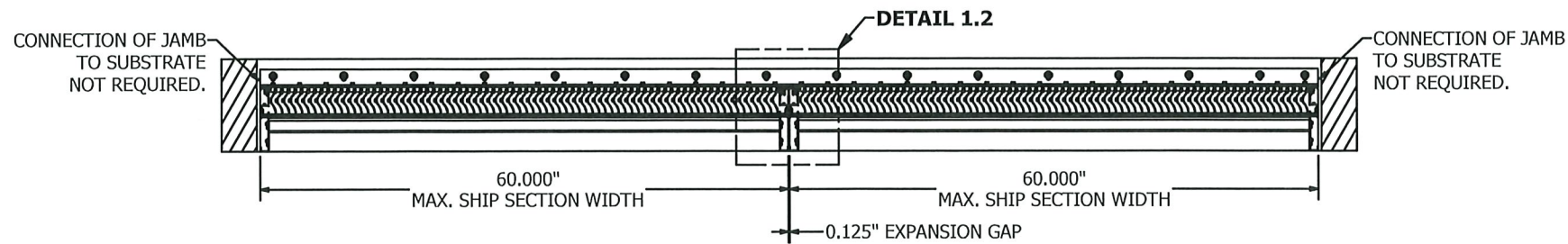
ITEM	DESCRIPTION	MATERIAL
19	CONT. RETAINING ANGLE 2" X 2" X 1/4"	EXT ALUM 6063-T6
20	SUBSTRATE FASTENER (N.I.C.)	(SEE SHEETS 07 & 08)
21	SCR 1/4"-20 X 1-1/2" HWH TEK3	ZC
22	UNIVERSAL SLEEVE - MIN. 1/8" THK PLATE	ALUM 5005-H34
23	SPL PLT LVR ALUM 2X4X.125	ALUM 3003-H14
24	CONT. RETAINING ZEE - 1/4" THK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



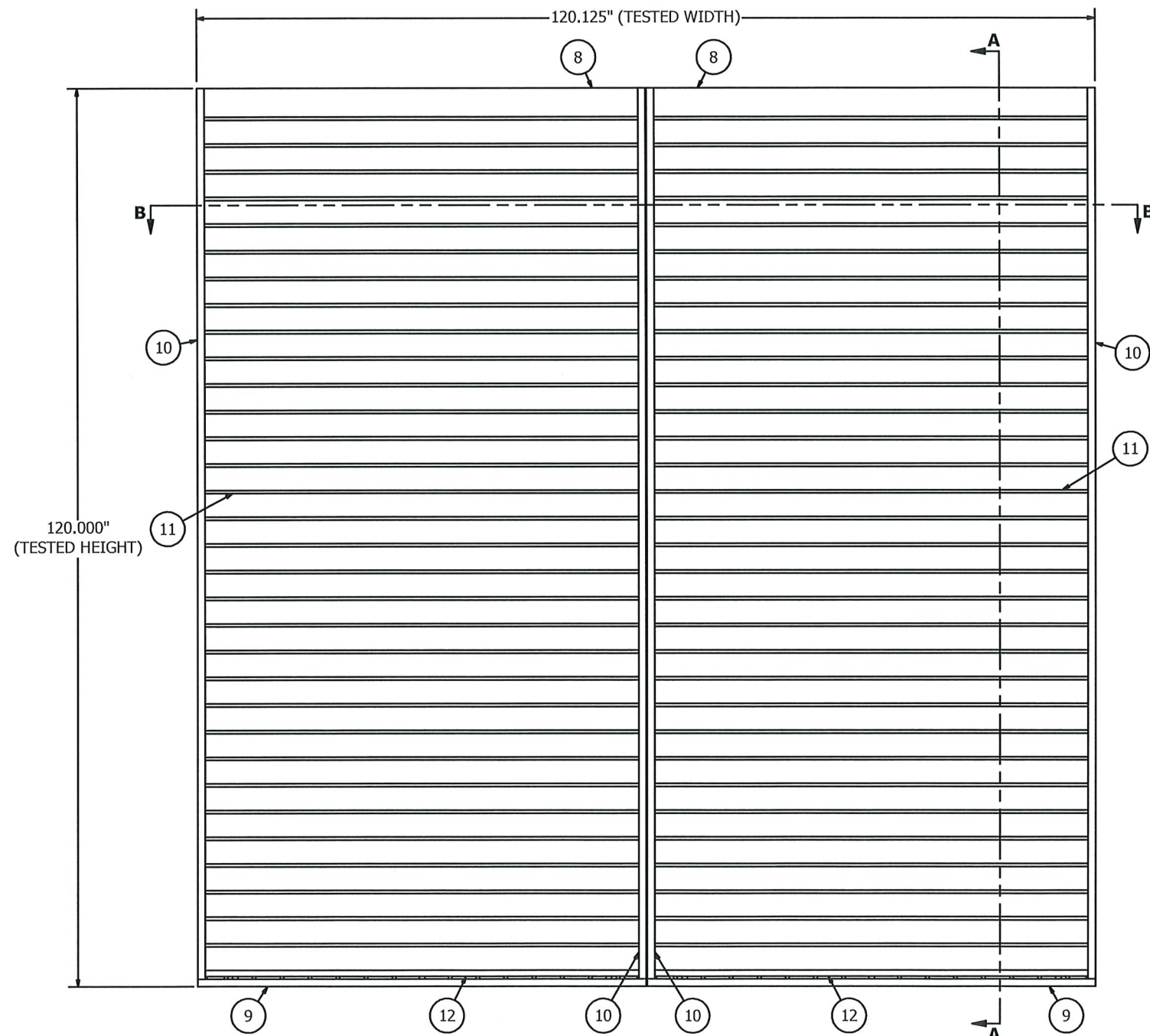
VAHE MICHAEL ASTOURIAN
AR-96250

PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. 20-1201.01
Approval Date 05/13/2021
By *[Signature]*
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				
MATERIAL		EXTRUDED ALUMINUM		PRODUCT				
Tolerances				TITLE				
Unless Stated Otherwise Use WQ-007, WQ-008				STANDARD LOUVER SPECIFICATIONS				
Fractions ±1/16				SIZE				
Two Decimals ±0.020				B				
Three Decimals ±0.010				DWG NO				
Angle Dimensions ±2°				60-022569-00B				
ECN				REV				
				A				
				SCALE				
				NONE				
				INVENTOR				
				SHEET 1 OF 10				



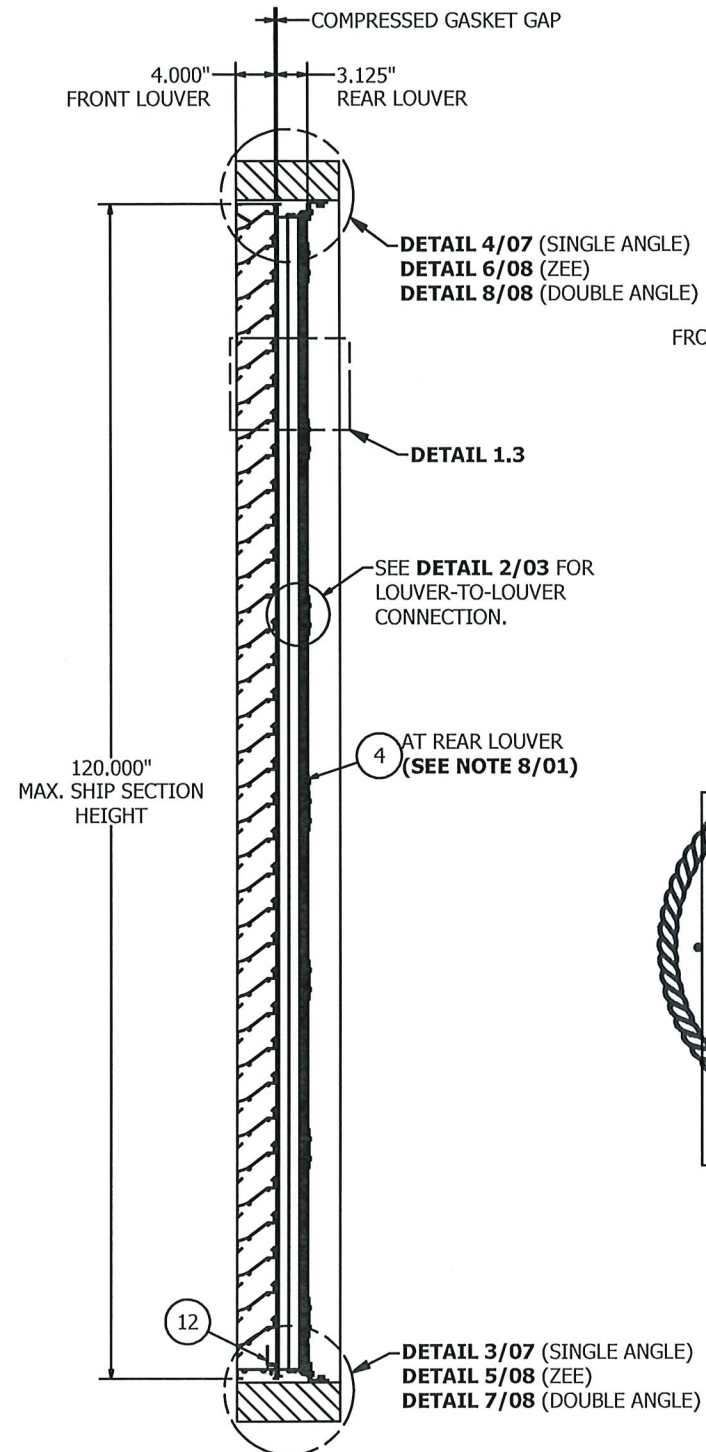
SECTION B-B



MULTI-SECTION ASSEMBLY - CHANNEL FRAME (FRONT) LOUVER

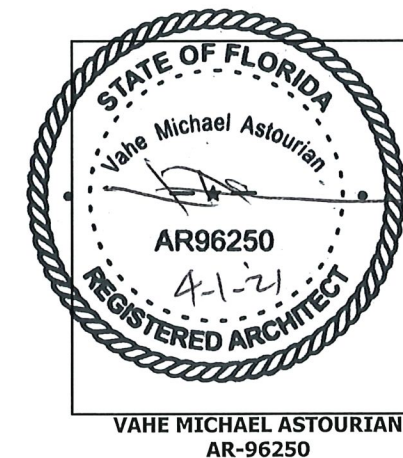
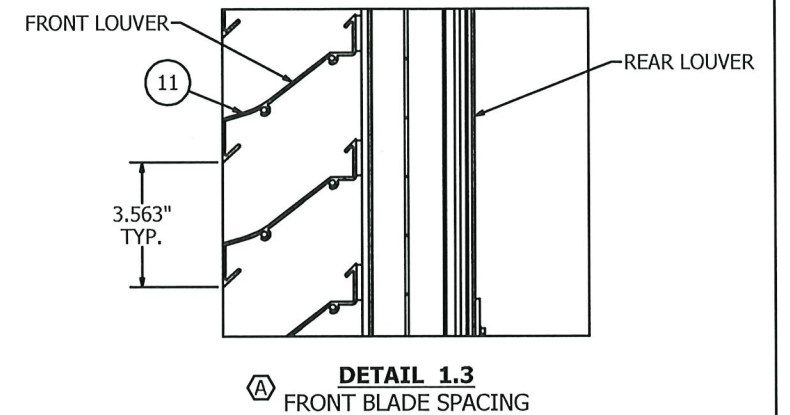
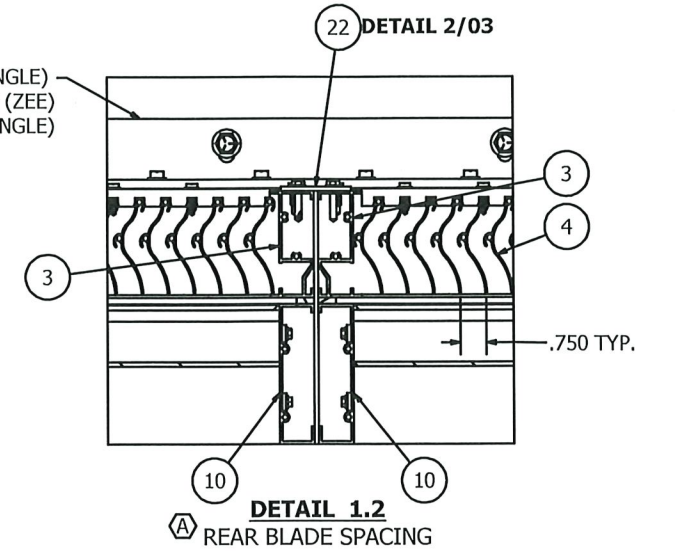
N.T.S.
(SUBSTRATE & INSTALL PARTS NOT SHOWN FOR CLARITY)

FRONT VIEW



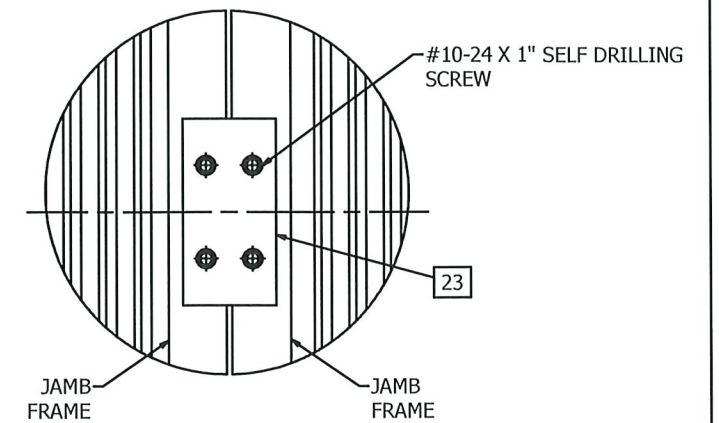
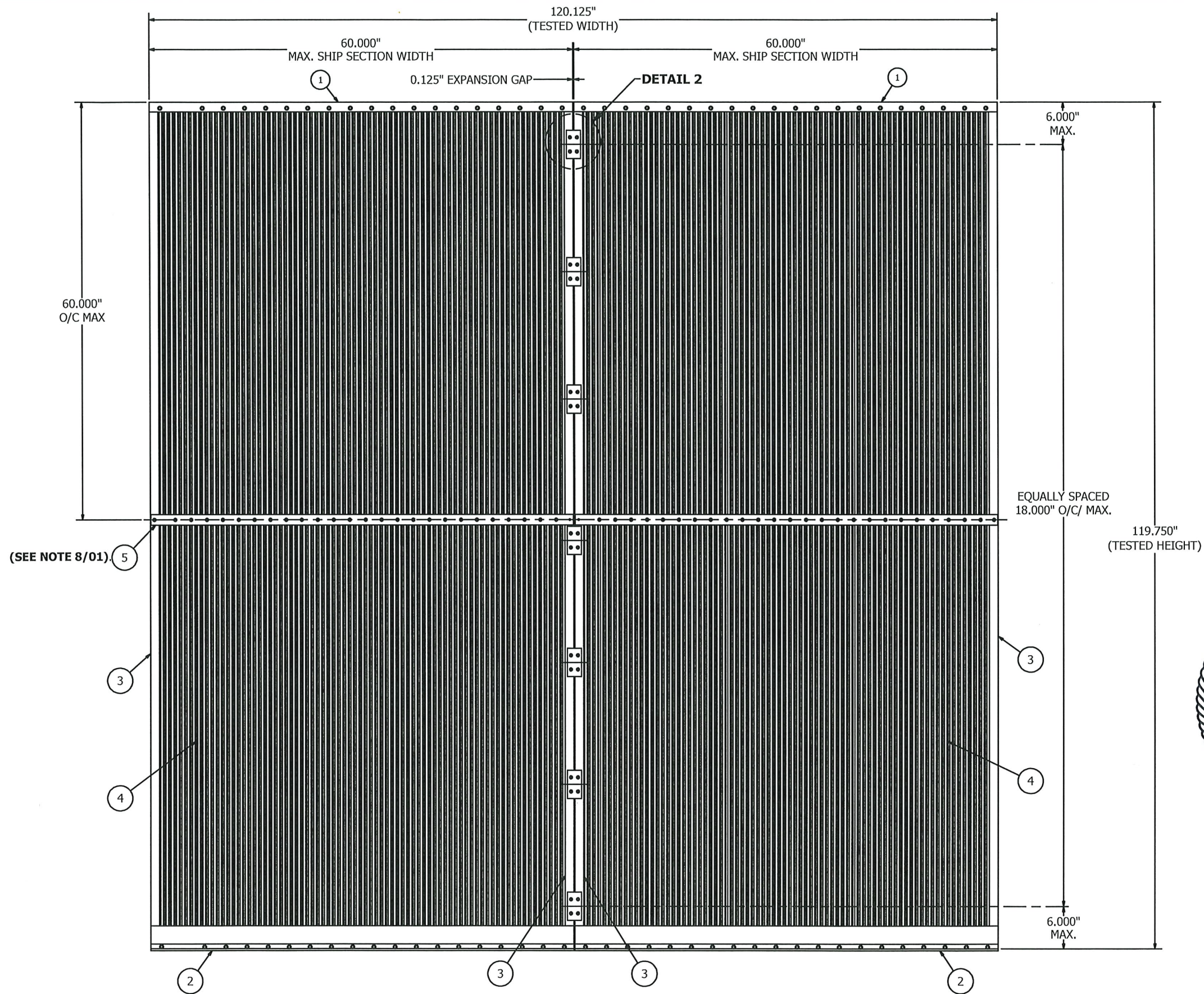
SECTION A-A

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

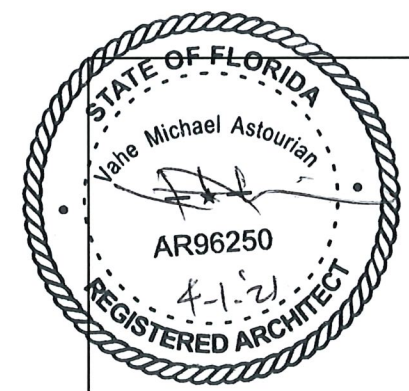


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By *[Signature]*
Miami-Dade Product Control

A	ADDED DETAIL 1.2 & 1.3		E-R	JDS	VMA	3/19/21
AUTHOR	DKF	9/25/2020	 RUSKIN AUTHORITY IN AIR CONTROL		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			PRODUCT HZ700MD / WIND-DRIVEN RAIN RESISTANT LOUVER MULTI-SECTION (CF) ASSEMBLY FRONT VIEW			
SIZE B			DWG NO		60-022569-00B	
SCALE NONE			INVENTOR		SHEET 2 OF 10	
ECN			REV A			



DETAIL 2
LOUVER-TO-LOUVER SPLICE




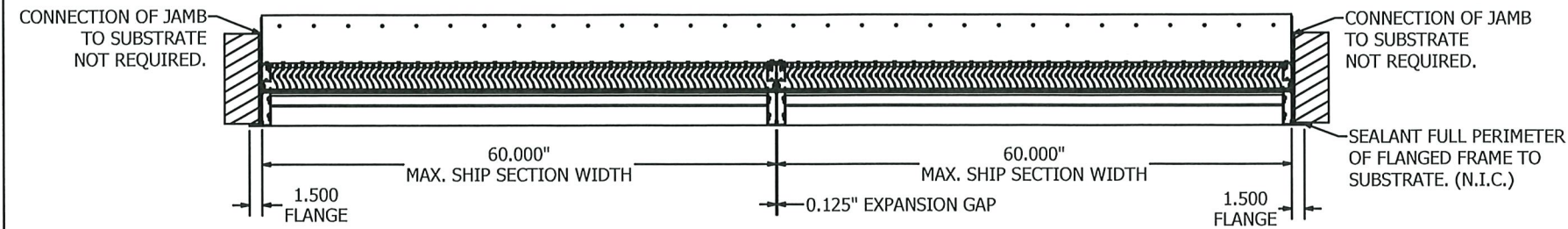
VAHE MICHAEL ASTOURIAN
AR-96250

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By *[Signature]*
Miami-Dade Product Control

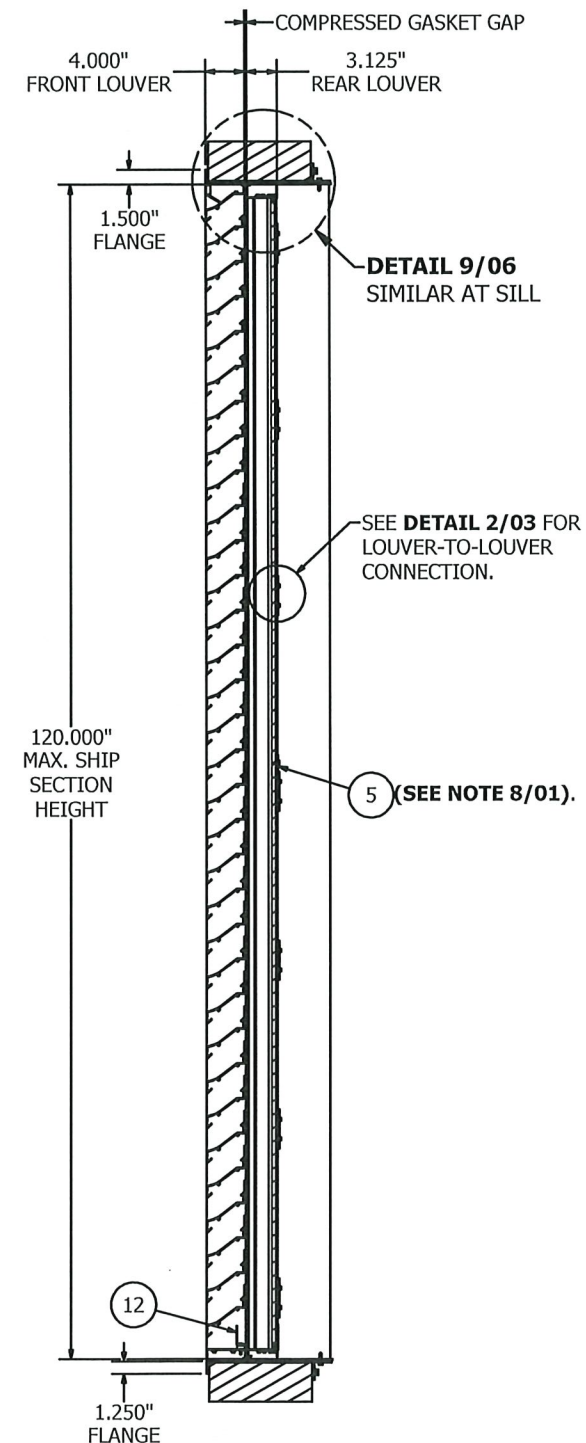
MULTI-SECTION ASSEMBLY - CHANNEL FRAME (REAR) LOUVER
N.T.S.
(SUBSTRATE & INSTALL PARTS NOT SHOWN FOR CLARITY)

BACK VIEW

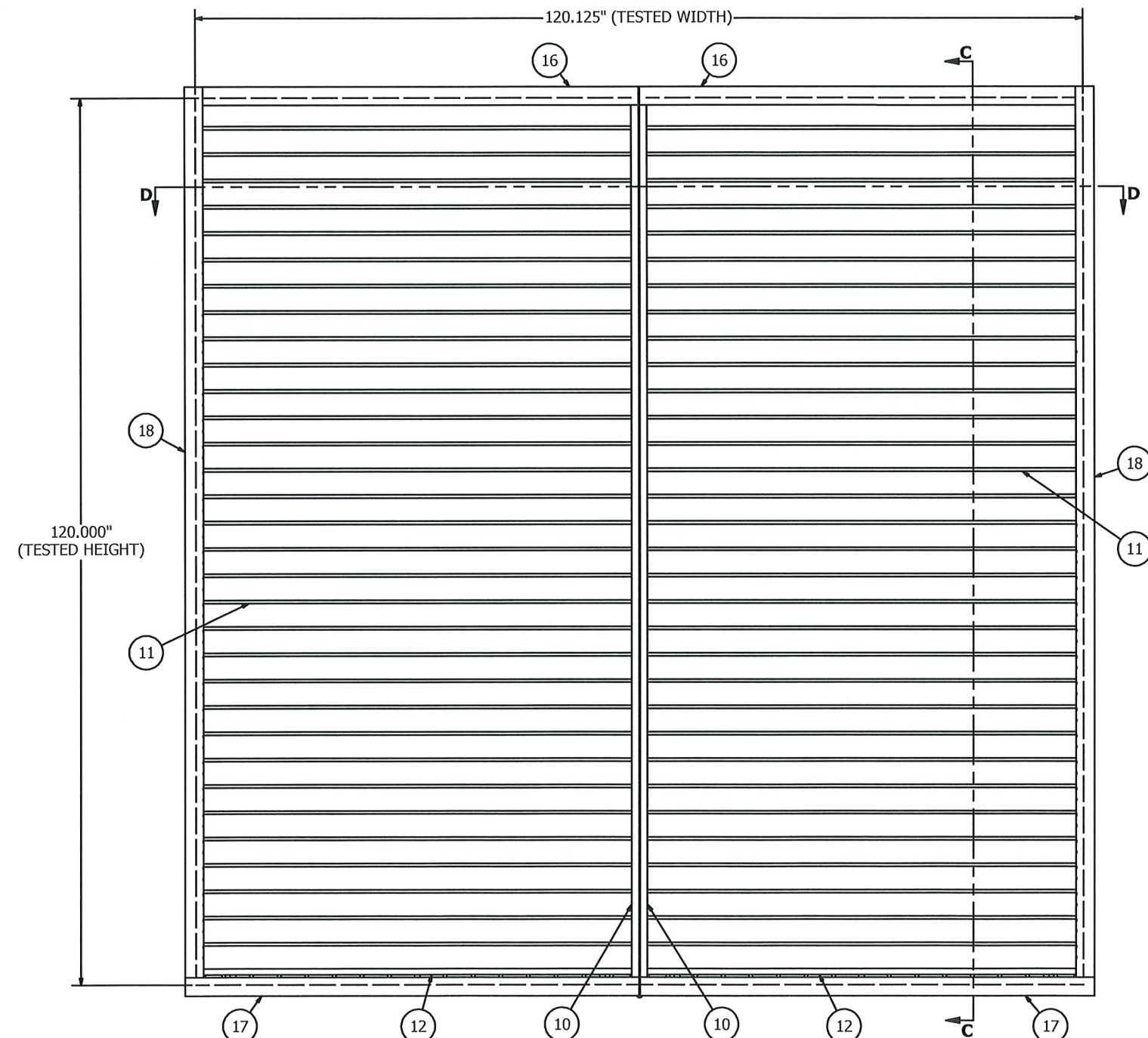
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CHECKED	E-R	9/28/2020						
APPROVED	TCB	10/29/2020						
APPROVED	MMM	10/30/2020						
MATERIAL EXTRUDED ALUMINUM			PRODUCT	HZ700MD / WIND-DRIVEN RAIN RESISTANT LOUVER				
			TITLE MULTI-SECTION (CF) ASSEMBLY BACK VIEW					
			SIZE	B	DWG NO	60-022569-00B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



SECTION D-D



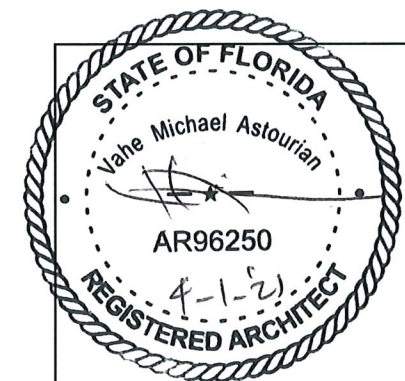
SECTION C-C



MULTI-SECTION ASSEMBLY - FLANGED FRAME (FRONT) LOUVER

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

FRONT VIEW



VAHE MICHAEL ASTOURIAN
AR-96250

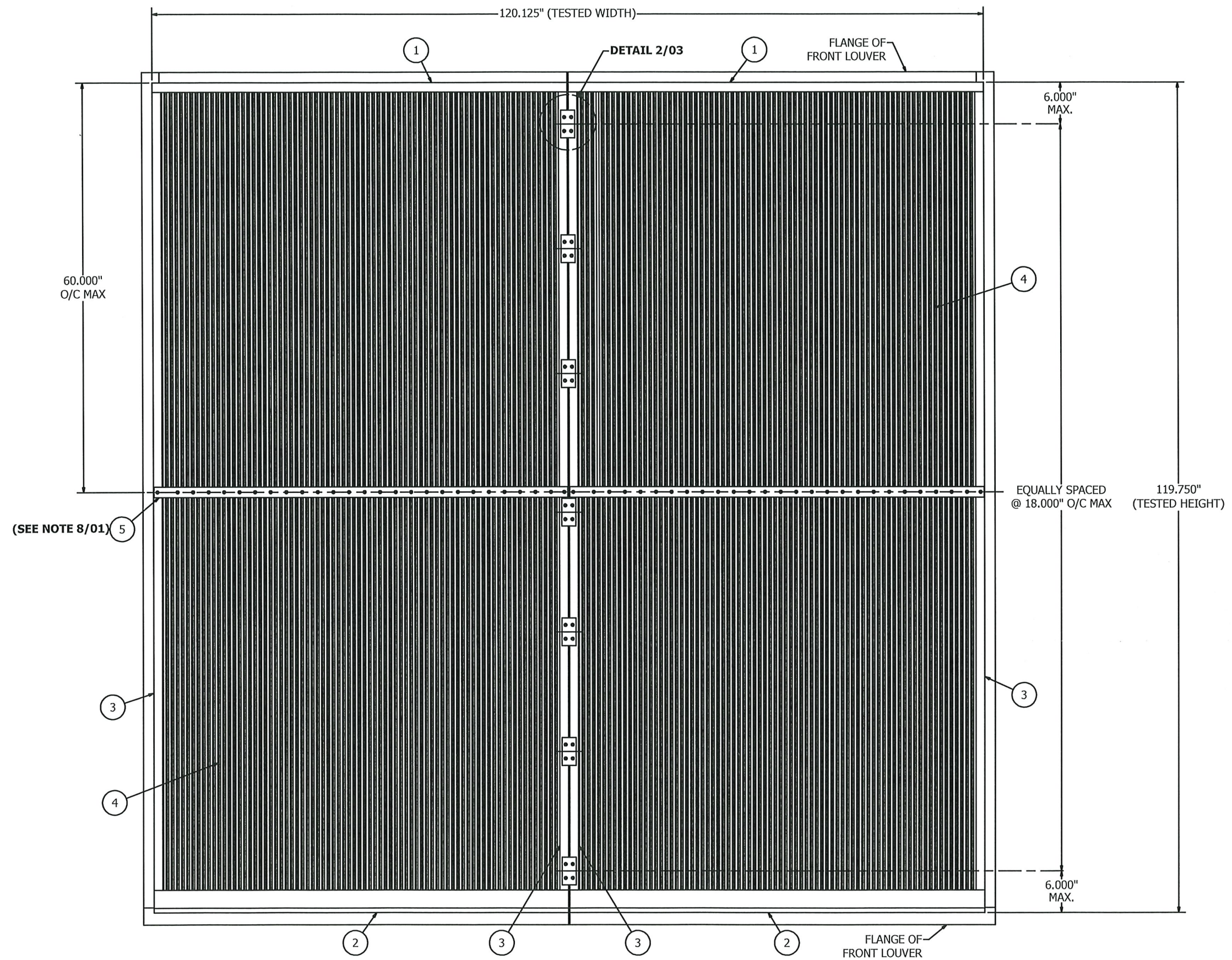
PRODUCT APPROVED
as complying with the Florida
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NOA-No. 20-1201.01

Approval Date 05/13/2021

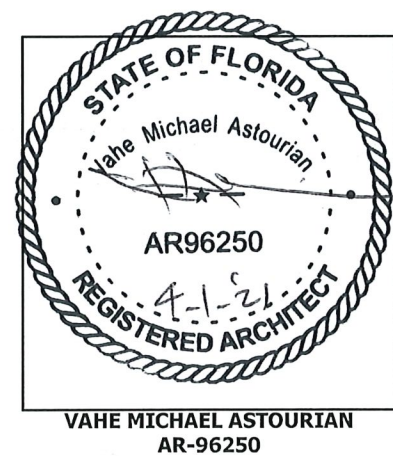
By *[Signature]*
Miami-Dade Product Control

AUTHOR	DKF	9/25/2020	 RUSKIN 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		PRODUCT	HZ700MD / WIND-DRIVEN RAIN RESISTANT LOUVER		
			TITLE	MULTI-SECTION (FF) ASSEMBLY FRONT VIEW		
			SIZE	B	OWG NO	
			SCALE	NONE	60-022569-00B	
			ECN		REVISION	
			SHEET 4 OF 10			



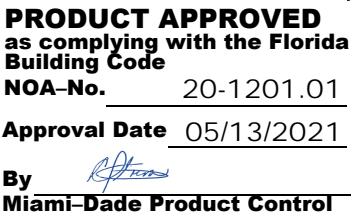
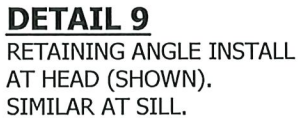
MULTI-SECTION ASSEMBLY - CHANNEL FRAME (REAR) LOUVER
N.T.S.
(SUBSTRATE & INSTALL PARTS NOT SHOWN FOR CLARITY)

BACK VIEW

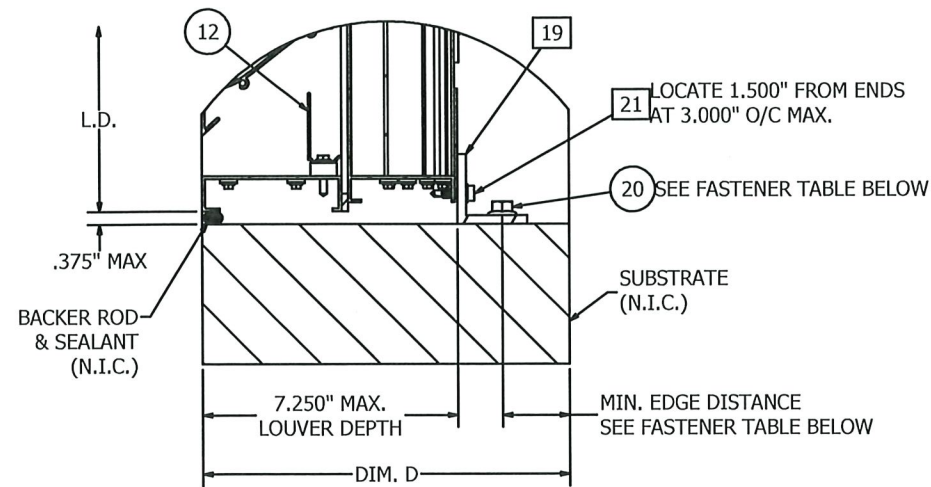


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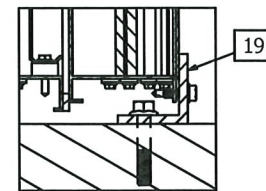
AUTHOR	DKF	9/25/2020	 RUSKIN AUTHORITY IN AIR CONTROL	3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL			
CHECKED	E-R	9/28/2020					
APPROVED	TCB	10/29/2020					
APPROVED	MMM	10/30/2020					
MATERIAL	EXTRUDED ALUMINUM		PRODUCT	HZ700MD / WIND-DRIVEN RAIN RESISTANT LOUVER			
TITLE			MULTI-SECTION (FF) ASSEMBLY BACK VIEW				
SIZE			B	DWG NO	60-022569-00B	REV	
SCALE			NONE	INVENTOR	SHEET 5 OF 10		
ECH							



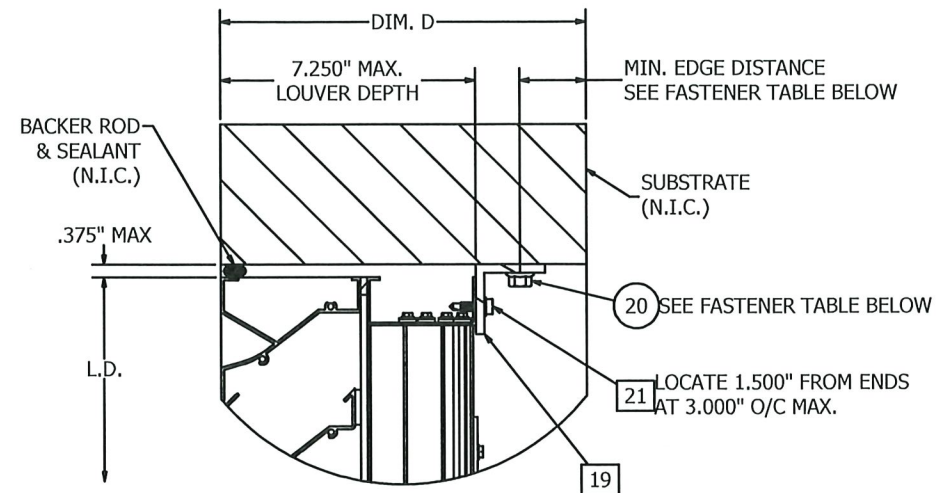
AUTHOR	DKF	9/25/2020	 RUSKIN AUTHORITY IN AIR CONTROL		3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL	
CHECKED	F-R	9/28/2020				
APPROVED	TCB	10/29/2020	PRODUCT HZ700MD / WIND-DRIVEN RAIN RESISTANT LOUVER		TITLE UNIVERSAL SLEEVE ASSEMBLY	
APPROVED	MMM	10/30/2020				
MATERIAL EXTRUDED ALUMINUM			SIZE B		DWG NO	REV
			SCALE		60-022569-00B	A
ECN			NONE		INVENTOR	SHEET 6 of 10



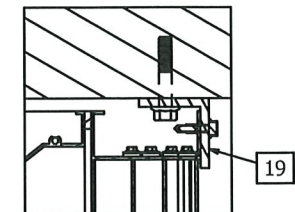
DETAIL 3
ANGLE INSTALL AT SILL



**OPTIONAL
LEG INSIDE**



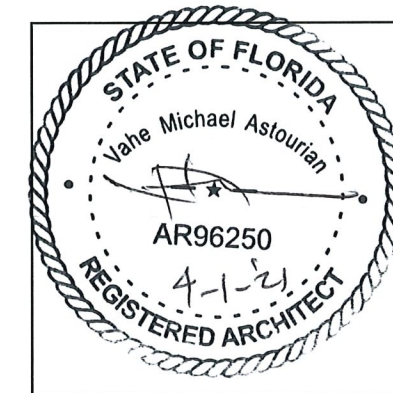
DETAIL 4
ANGLE INSTALL AT HEAD



**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"



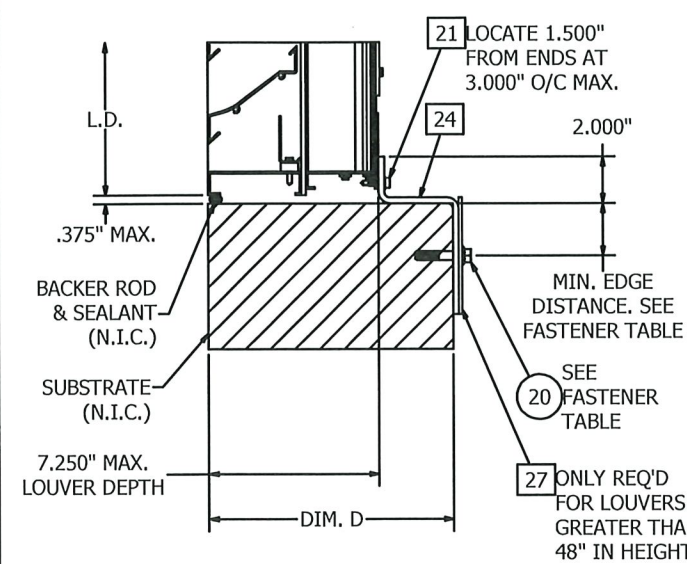
VAHE MICHAEL ASTOURIAN
AR-96250

PRODUCT APPROVED
as complying with the Florida
Building Code
NOA-No. 20-1201.01

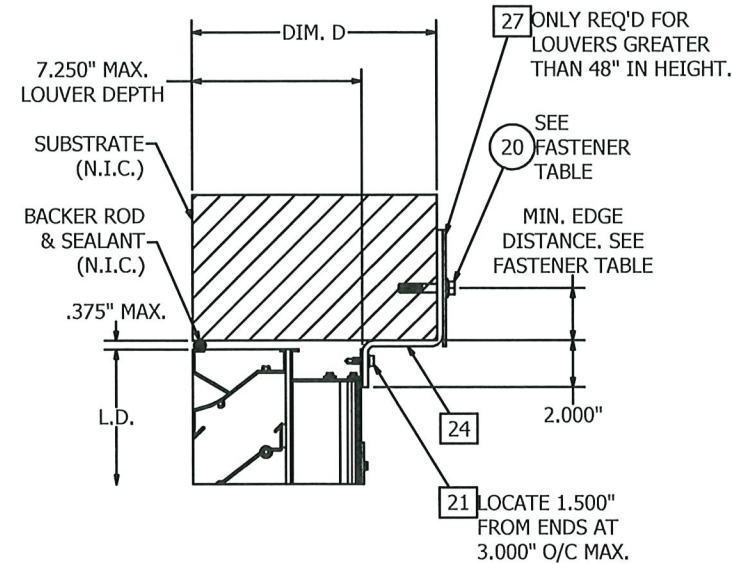
Approval Date 05/13/2021

By *[Signature]*
Miami-Dade Product Control

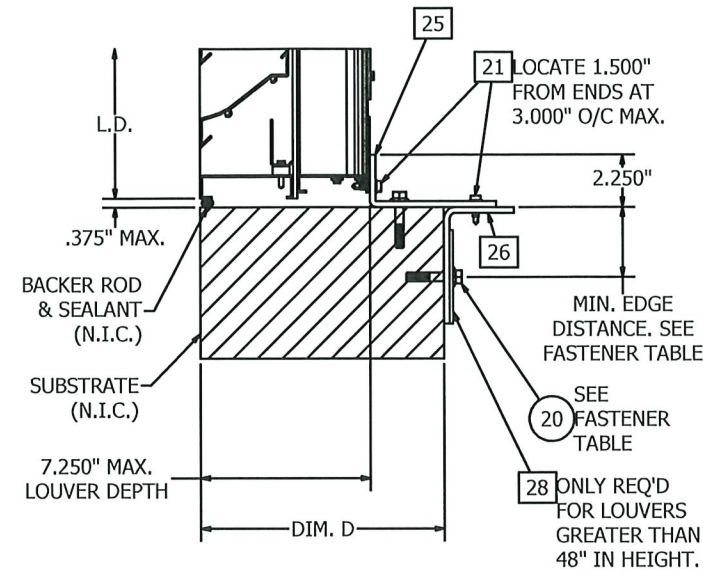
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CHECKED	E-R	9/28/2020			
APPROVED	TCB	10/29/2020			
APPROVED	MMM	10/30/2020			
MATERIAL EXTRUDED ALUMINUM			PRODUCT	HZ700MD / WIND-DRIVEN RAIN RESISTANT LOUVER	
			TITLE	LOUVER INSTALLATION DETAILS & FASTENING	
			SIZE B	DWG NO 60-022569-00B	REV A
ECN			SCALE NONE	INVENTOR	SHEET 7 OF 10



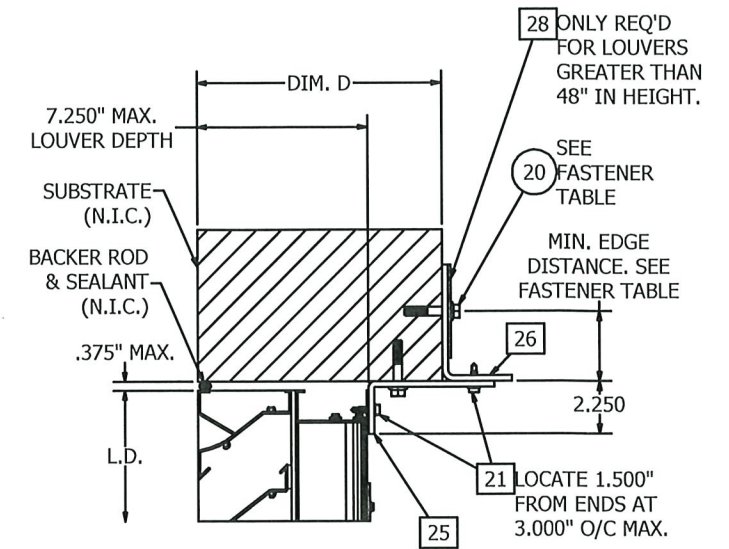
DETAIL 5
RETAINING ZEE INSTALLED AT SILL



DETAIL 6
RETAINING ZEE INSTALLED AT HEAD



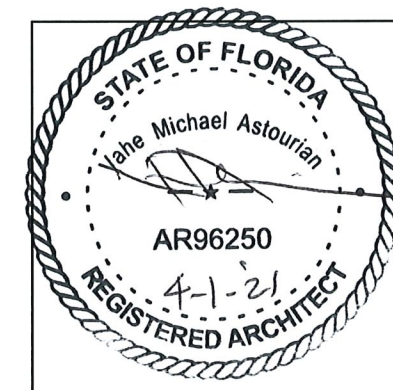
DETAIL 7
DOUBLE ANGLE INSTALLED AT SILL



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 APPROVED
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Building Code

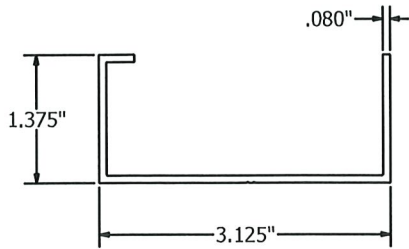
NOA-No. 20-1201.01

Approval Date 05/13/2021

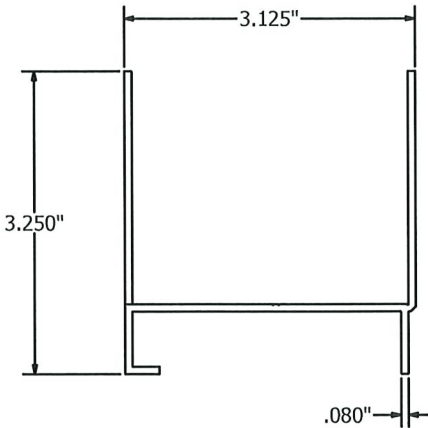
By *[Signature]*
Miami-Dade Product Control

A	REVISED SUBSTRATE FASTENER TABLE	E-R	JDS	VMA	3/19/21
AUTHOR	DKF	9/25/2020			
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 LOUVER INSTALL / RETAINING ZEE & DOUBLE ANGLE			DWG NO 60-022569-00B		
SCALE NONE			INVENTOR SHEET 8 OF 10		

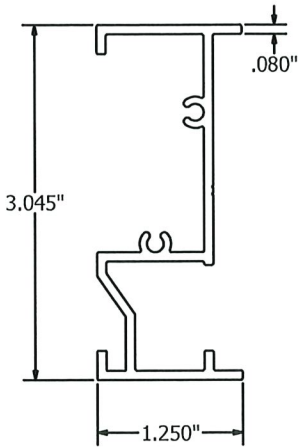
REAR LOUVER FRAME PROFILES



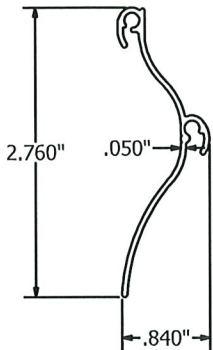
HEAD FRAME ITEM-1
N.T.S.



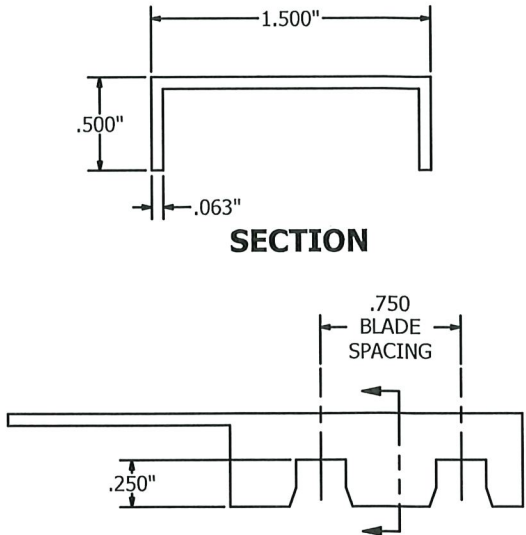
SILL FRAME ITEM-2
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JAMB FRAME ITEM-3
N.T.S.

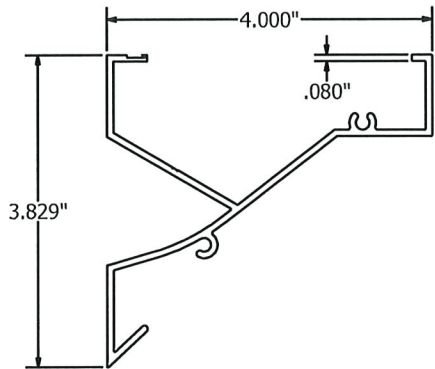


BLADE ITEM-4
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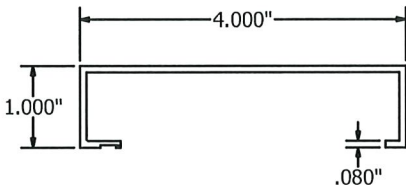


H.H.B.S. ITEM-5
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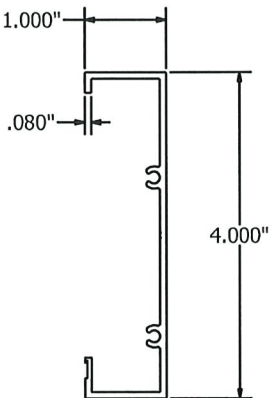
FRONT LOUVER FRAME PROFILES



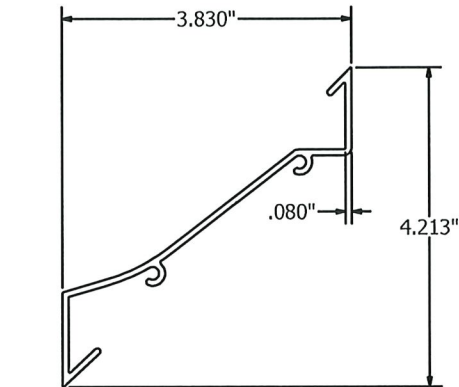
HEAD FRAME ITEM-8
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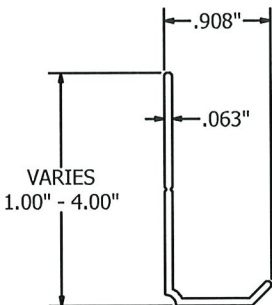
SILL FRAME ITEM-9
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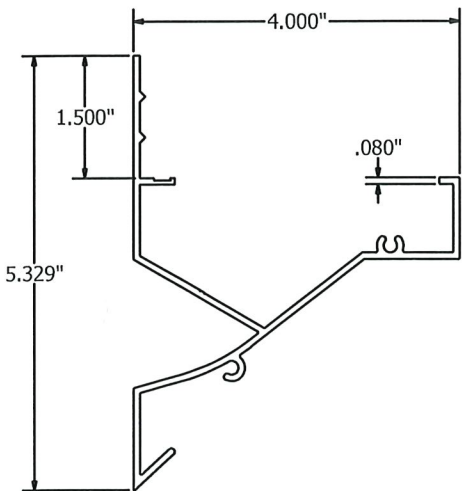
JAMB FRAME ITEM-10
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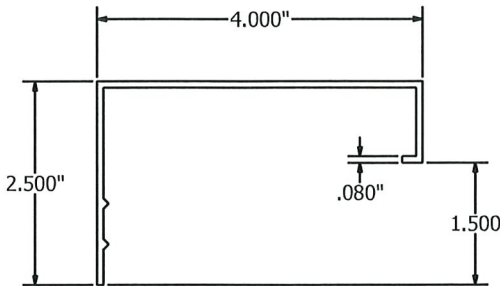
BLADE ITEM-11
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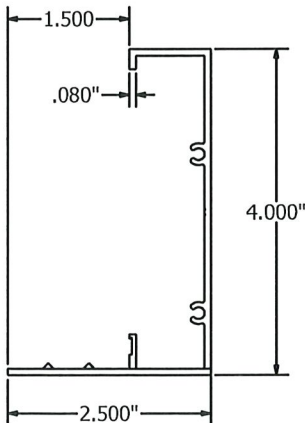
WATERSTOP ITEM-12
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FLANGED HEAD FRAME ITEM-16
N.T.S.



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

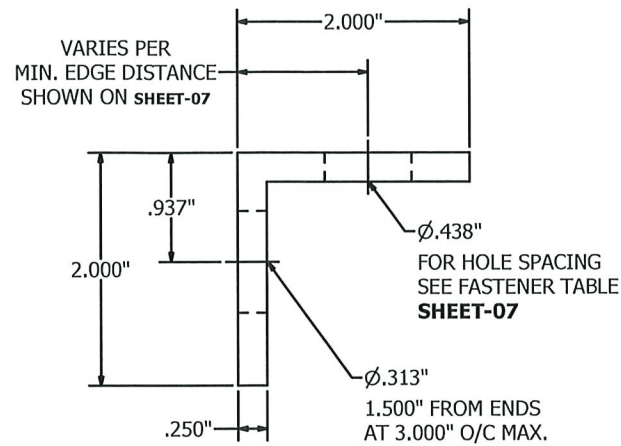


FLANGED JAMB FRAME ITEM-18
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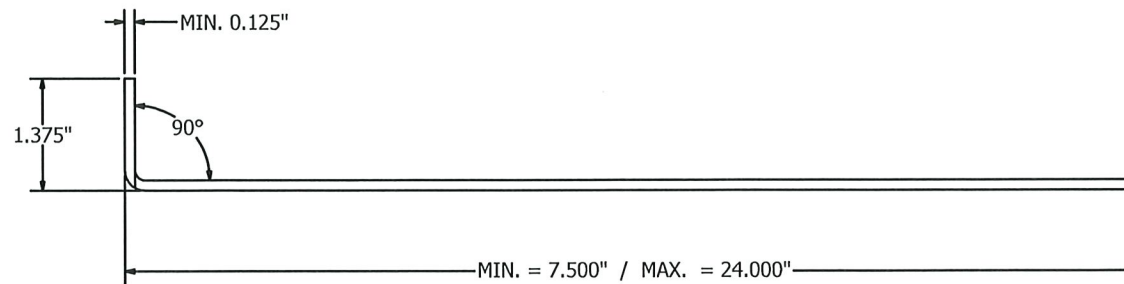


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Miami-Dade Product Control

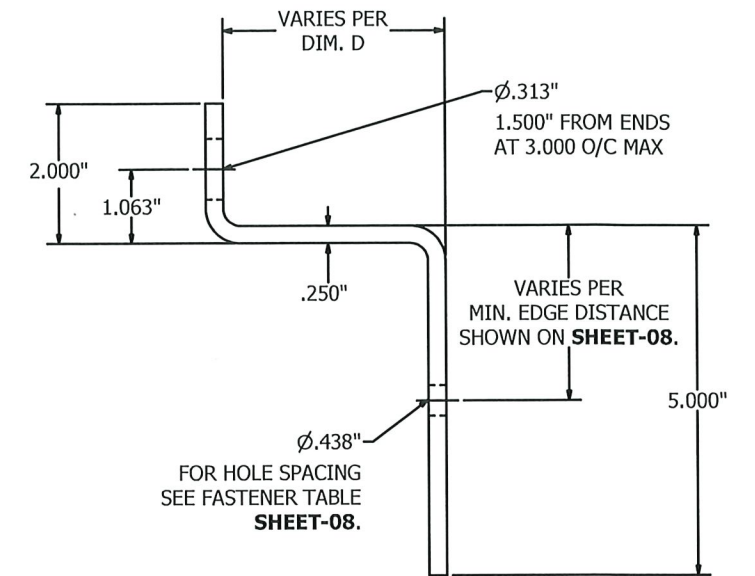
A RENUMBERED ITEMS				E-R	JDS	VMA	3/19/21
AUTHOR	DKF	9/25/2020			3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL		
CHECKED	E-R	9/28/2020					
APPROVED	TCB	10/29/2020					
APPROVED	MMM	10/30/2020					
MATERIAL EXTRUDED ALUMINUM			PRODUCT HZ700MD / WIND-DRIVEN RAIN RESISTANT LOUVER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



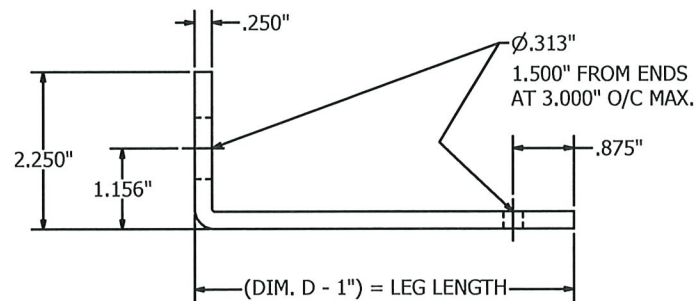
RETAINING ANGLE ITEM-19
N.T.S.



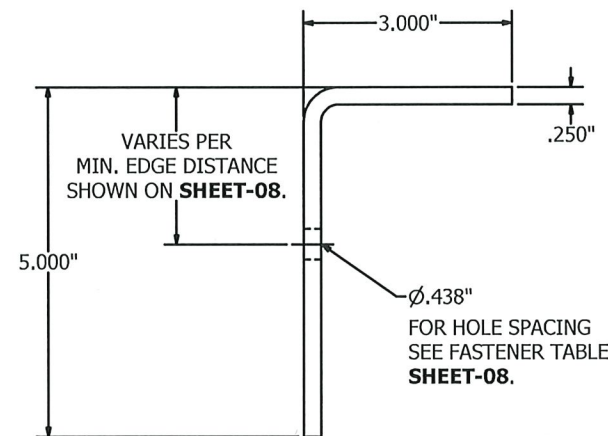
UNIVERSAL SLEEVE ITEM-22
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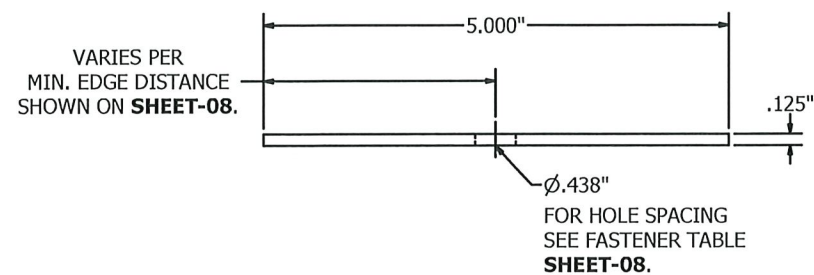
RETAINING ZEE ITEM-24
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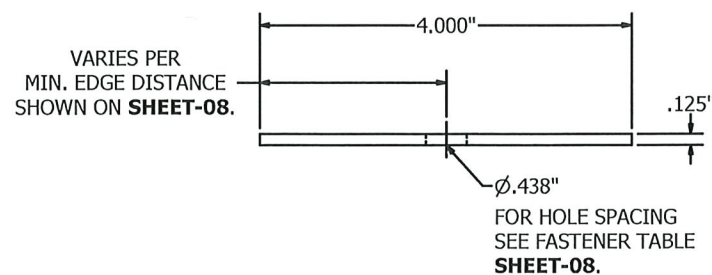
RETAINING ANGLE ITEM-25
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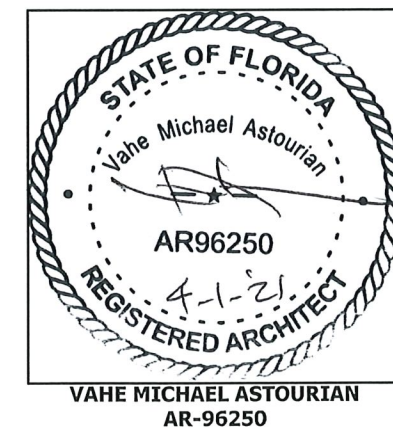
RETAINING ANGLE ITEM-26
N.T.S.



STIFFENER PLATE ITEM-27
N.T.S.



STIFFENER PLATE ITEM-28
N.T.S.



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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			INSTALL PARTS PROFILES			
SIZE B			DWG NO		60-022569-00B	
SCALE			NONE		REV A	
INVENTOR			SHEET 10		OF 10	