



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 ALVRAL-MD-3, ALVRAL-MD-4 and ALVRAL-MD-7 Thin line Package
Unit Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **60-022541-00D**, titled "ALVRAL-MD-3, ALVRAL-MD-4 & ALVRAL-MD-7", sheets 1 through 9 of 9 dated 03/23/2020 and last revised on dated 02/08/2022, prepared by Ruskin Company, signed and sealed by Jeffrey D. Smith, P.E., 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 and Ciudad Juarez, 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 # 21-1216.11** and consists of this page 1 and evidence pages 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. 23-1116.04
Expiration Date: October 15, 2025
Approval Date: February 01, 2024
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **60-022541-00D**, titled “ALVRAL-MD-3, ALVRAL-MD-4 & ALVRAL-MD-7”, sheets 1 through 9 of 9 dated 03/23/2020 and last revised on dated 02/08/2022, prepared by Ruskin Company, signed and sealed by Jeffrey D. Smith, P.E. (*Submitted under NOA#21-1216.11*)

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 ALVRAL-MD-3 and ALVRAL-MD-4 aluminum louvers, prepared by UL LLC., Test Report No. **SV16533-20200326 Rev. 1**, dated 04/14/2020, with revision dated 07/30/2020, signed and sealed by Alexis Spyrou, P.E. (*Submitted under NOA # 20-0612.02*)

C. CALCULATIONS

1. Louver wind load review prepared by Ruskin Company, dated 05/28/2020, signed and sealed by Melissa M. Massar, P.E. (*Submitted under NOA # 20-0612.02*)
2. Louver wind load review prepared by Ruskin Company, dated 07/20/2021, signed and sealed by Jeffrey D. Smith, P.E. (*Submitted under NOA#21-1216.11*)

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) FBC and of no financial interest issued by Ruskin Company, dated 08/14/2020, signed and sealed by Melissa M. Massar, P.E. (*Submitted under NOA # 20-0612.02*)
2. Distributor agreement dated 06/01/2020. (*Submitted under NOA # 20-0612.02*)
3. Statement letter of code conformance to the 8th edition (2023) of the FBC and of no financial interest, issued by Ruskin Company, dated 10/30/2023, signed and sealed by Jeffrey Devon Smith, P.E.

G. OTHER

1. This NOA revises **NOA # 21-1216.11** for the 8th edition (2023) of the FBC update, expiring **10/15/2025**.



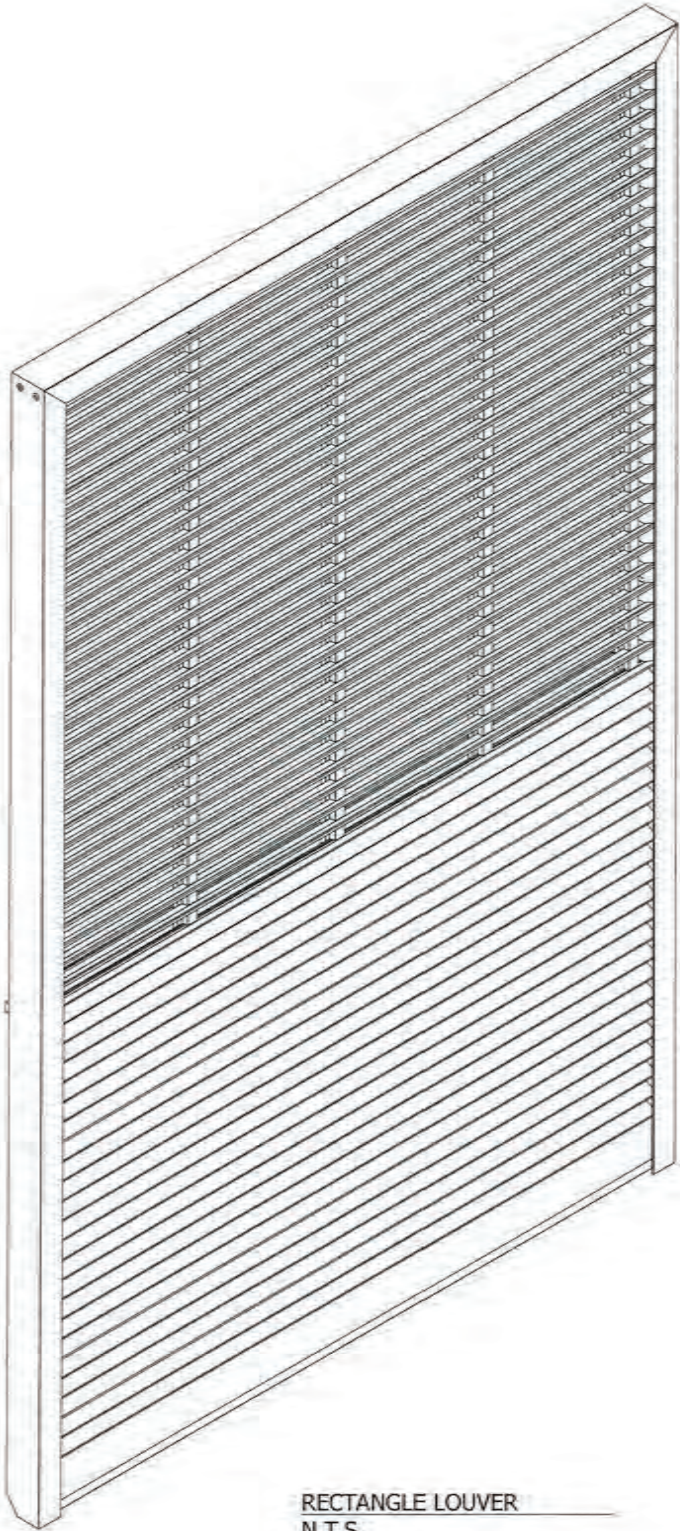
Sifang Zhao, P.E.
Product Control Examiner
NOA No. 23-1116.04
Expiration Date: October 15, 2025
Approval Date: February 01, 2024

PARTS LIST			
ITEM	DESCRIPTION	MATERIAL	ALLOY
1	HEAD FRAME	0.125" THK EXTRUDED ALUMINUM	6063-T6
2	SILL ANGLE	0.125" THK EXTRUDED ALUMINUM	6063-T6
3	JAMB FRAME	0.125" THK EXTRUDED ALUMINUM	6063-T6
4	BLADE	0.072" THK EXTRUDED ALUMINUM	6063-T5
5	Y BLADE	0.048" THK EXTRUDED ALUMINUM	6063-T6
6	BOTTOM BLADE	0.063" THK EXTRUDED ALUMINUM	6063-T5
7	CORNER LUG	0.061" THK EXTRUDED ALUMINUM	6063-T5
8	BLANK OFF	0.032" THK SHEET ALUMINUM	5052-H32
9	SPLITTER GASKET	0.500 X 0.375 POLYETHER	-
10	BRACE BAR	0.050" THK EXTRUDED ALUMINUM	6063-T5
11	SPLINE	0.200" THK EXTRUDED ALUMINUM	6063-T5
12	END SUPPORT	0.125" THK SHEET ALUMINUM	5005-H34
13	RETENTION STRIP	0.063" THK SHEET ALUMINUM	5005-H34
14	#10-16 X 1" SAE GRAE 2 S.D. "HWH" SCREW	ZINC PLATED	-
15	0.250 I.D. ROUND WASHER	ZINC PLATED	-
16	1/8" DIA 0.313" - 0.375" GRIP POP RIVET	ALUMINUM	-
17	3/16" DIA POP RIVET 0.020" - 0.125" GRIP	STEEL	-

SHEET 01 - NOTES, PARTS LIST, DRAWING INDEX,
SHEET 02 - ASSEMBLY "A" & DETAILS
SHEET 03 - ASSEMBLY "B" & DETAILS
SHEET 04 - ASSEMBLY "C" & DETAILS
SHEET 05 - ASSEMBLY CONSTRUCTION DETAILS
SHEET 06 - ASSEMBLY CONSTRUCTION DETAILS
SHEET 07 - INSTALL DETAILS
SHEET 08 - PARTS
SHEET 09 - PARTS

ABBREVIATIONS:

B.O. - BLANK OFF
CONT. - CONTINUOUS
C-C - CENTER TO CENTER
C.W. - CLOCKWISE
C.C.W. - COUNTER CLOCKWISE
DIM - DIMENSION
FLG - FLANGE
HDG - HOT DIPPED 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
S.S. - SHIP SECTION
S.S.D. - SHIP SECTION DIMENSION
S.S.H. - SHIP SECTION HEIGHT
S.D.S. - SELF DRILLING SCREW
SIM. - SIMILAR
STL - STEEL
TYP. - TYPICAL
U.N.O. - UNLESS NOTED OTHERWISE



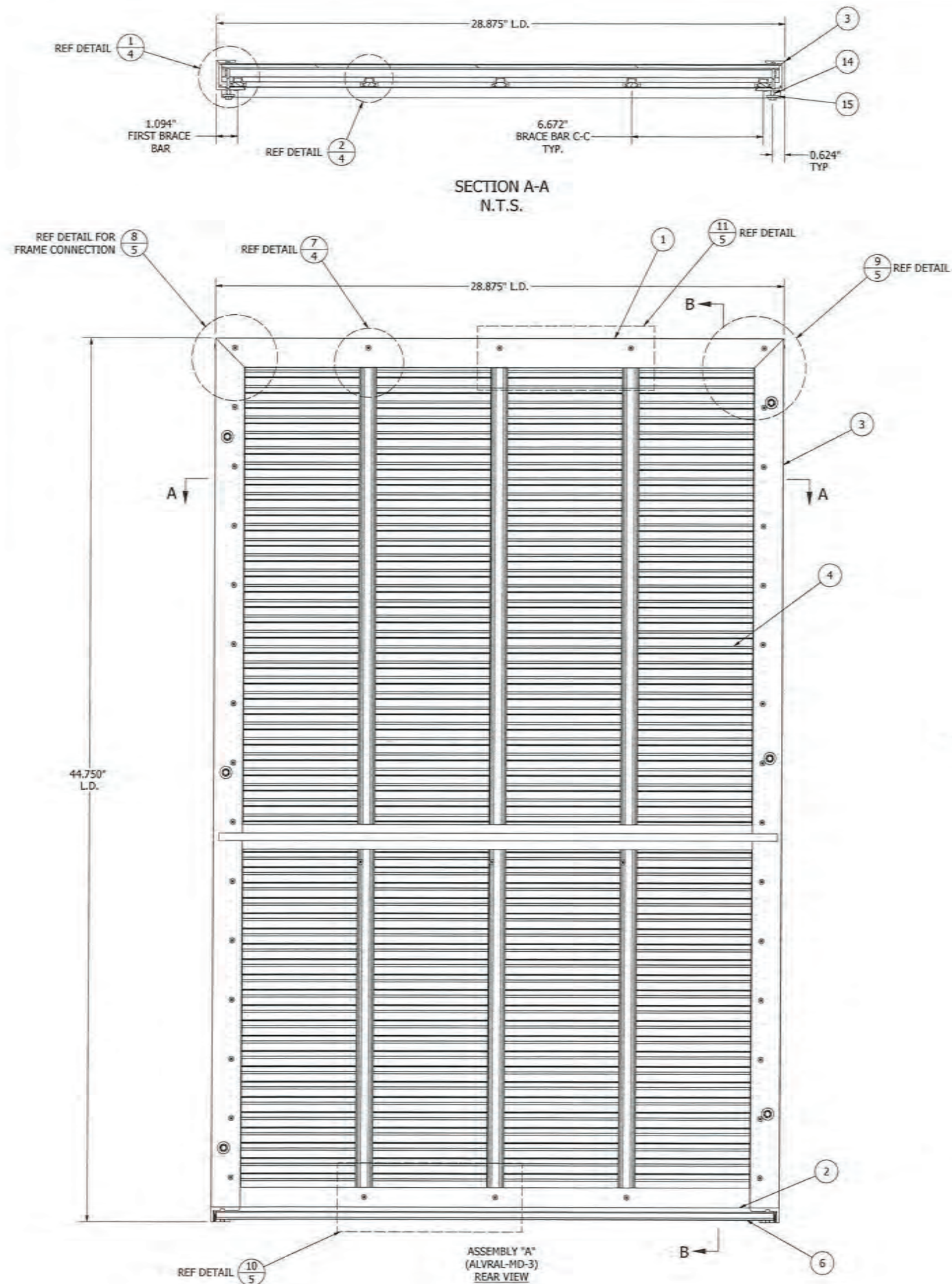
RECTANGLE LOUVER
N.T.S.
ALVRAL-MD-3 REF SHEET 02
ALVRAL-MD-4 REF SHEET 03
ALVRAL-MD-7 REF SHEET 04

- NOTES:
1. THE ALVRAL-MD-3, ALVRAL-MD-4 & ALVRAL-MD-7 HAVE BEEN TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PROTOCOLS TAS-201, 202, & 203 FOR LARGE MISSILE IMPACT, UNIFORM PRESSURE AND CYCLIC WIND PRESSURE.
 2. THIS LOUVER SYSTEM IS APPROVED FOR APPLICATIONS WITH DESIGN PRESURES OF +/- 50 PSF OR LESS. THIS LOUVER IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEAD LOADS.
 3. THIS LOUVER IS TO BE INSTALLED IN LOCATIONS WHERE THE ROOM BEHIND THE LOUVER IS DESIGNED TO DRAIN WATER THAT PENETRATES INTO THE ROOM AND THE ROOM WILL HOUSE WATER RESISTANT/WATER PROOF EQUIPMENT, COMPONENTS OR SUPPLIES.
 4. THIS LOUVER IS TO BE ATTACHED TO A WALL SLEEVE PROVIDED BY OTHERS, RUSKIN DOES NOT DETERMINE THE STRUCTURAL INTEGRITY OF THE WALL SLEEVE. MINIMUM WALL SLEEVE MATERIAL REQUIREMENTS GIVEN ARE ONLY AS NEEDED FOR ADEQUATE ATTACHMENT OF THE LOUVER.



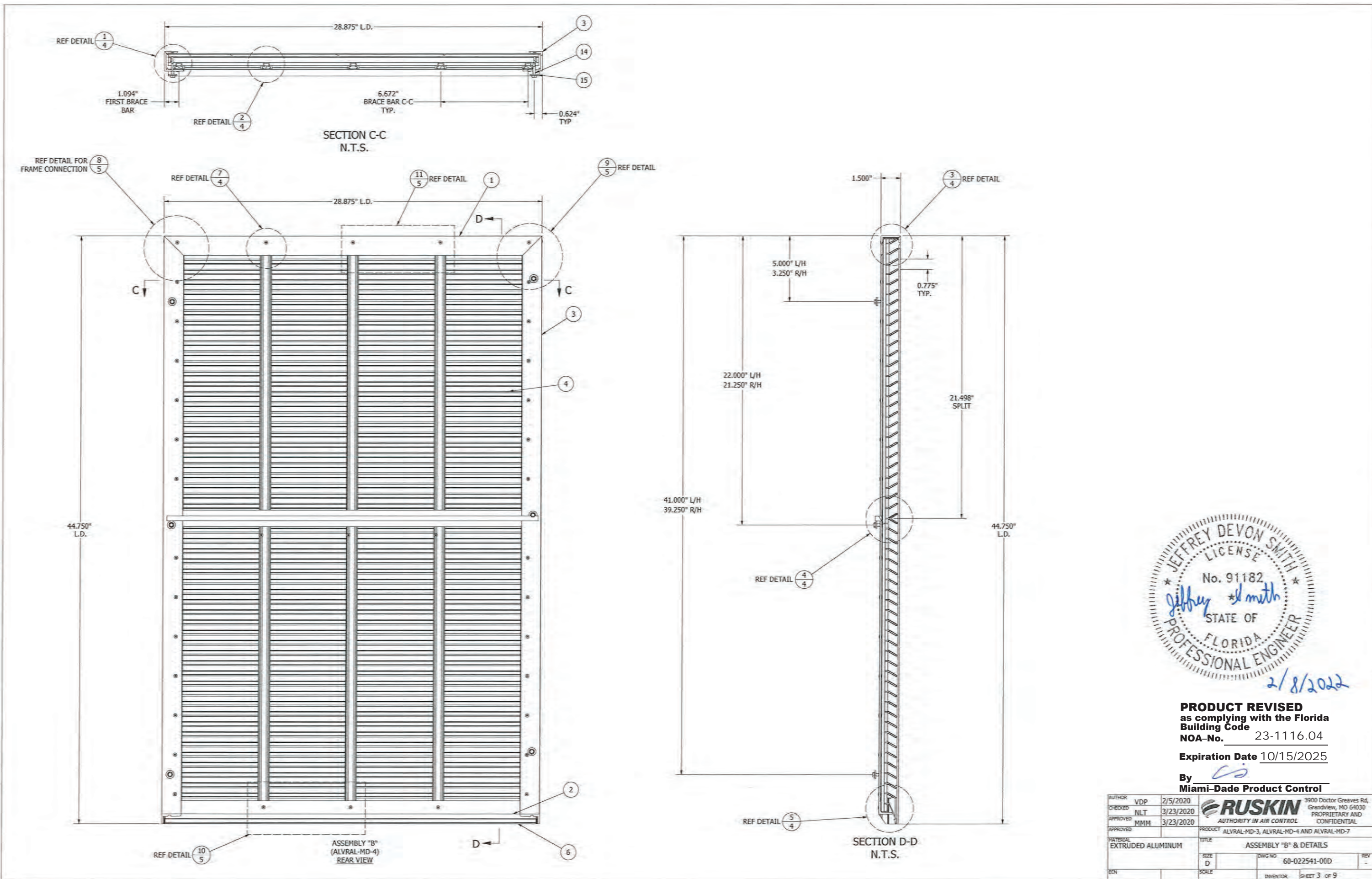
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-1116.04
Expiration Date 10/15/2025
By *CS*
Miami-Dade Product Control

AUTHOR	VDP	2/5/2020	 3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL
CHECKED	NLT	3/23/2020	
APPROVED	MMM	3/23/2020	
APPROVED			
MATERIAL EXTRUDED ALUMINUM			PRODUCT ALVRAL-MD-3, ALVRAL-MD-4 AND ALVRAL-MD-7
			TITLE NOTES, PART LIST & ASSEMBLY VIEWS
			SIZE D
			DWG NO 60-022541-00D
			SCALE
			INVENTOR SHEET 1 of 9



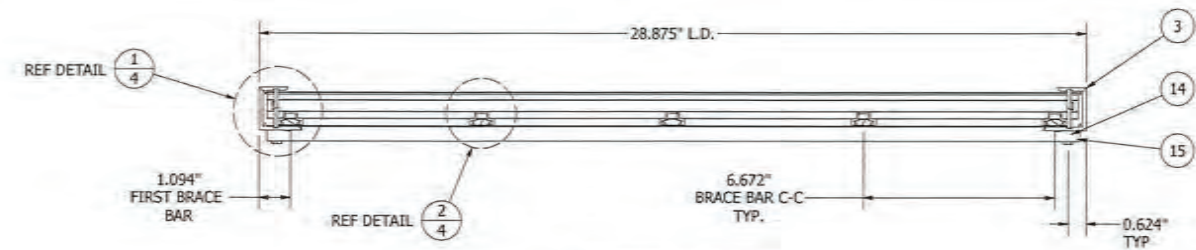
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-1116.04
Expiration Date 10/15/2025
By *[Signature]*
Miami-Dade Product Control

AUTHOR	VDP	2/5/2020	 RUSKIN AUTHORITY IN AIR CONTROL	3900 Doctor Greaves Rd, Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL					
CHECKED	NLT	3/23/2020							
APPROVED	MMM	3/23/2020							
APPROVED									
MATERIAL EXTRUDED ALUMINUM			PRODUCT	ALVRAL-MD-3, ALVRAL-MD-4 AND ALVRAL-MD-7					
			TITLE			ASSEMBLY "A" & DETAILS			
			SIZE	D	DWG NO	60-022541-00D		REV	-
			SCALE			INVENTOR		SHEET 2 OF 9	
ECN									

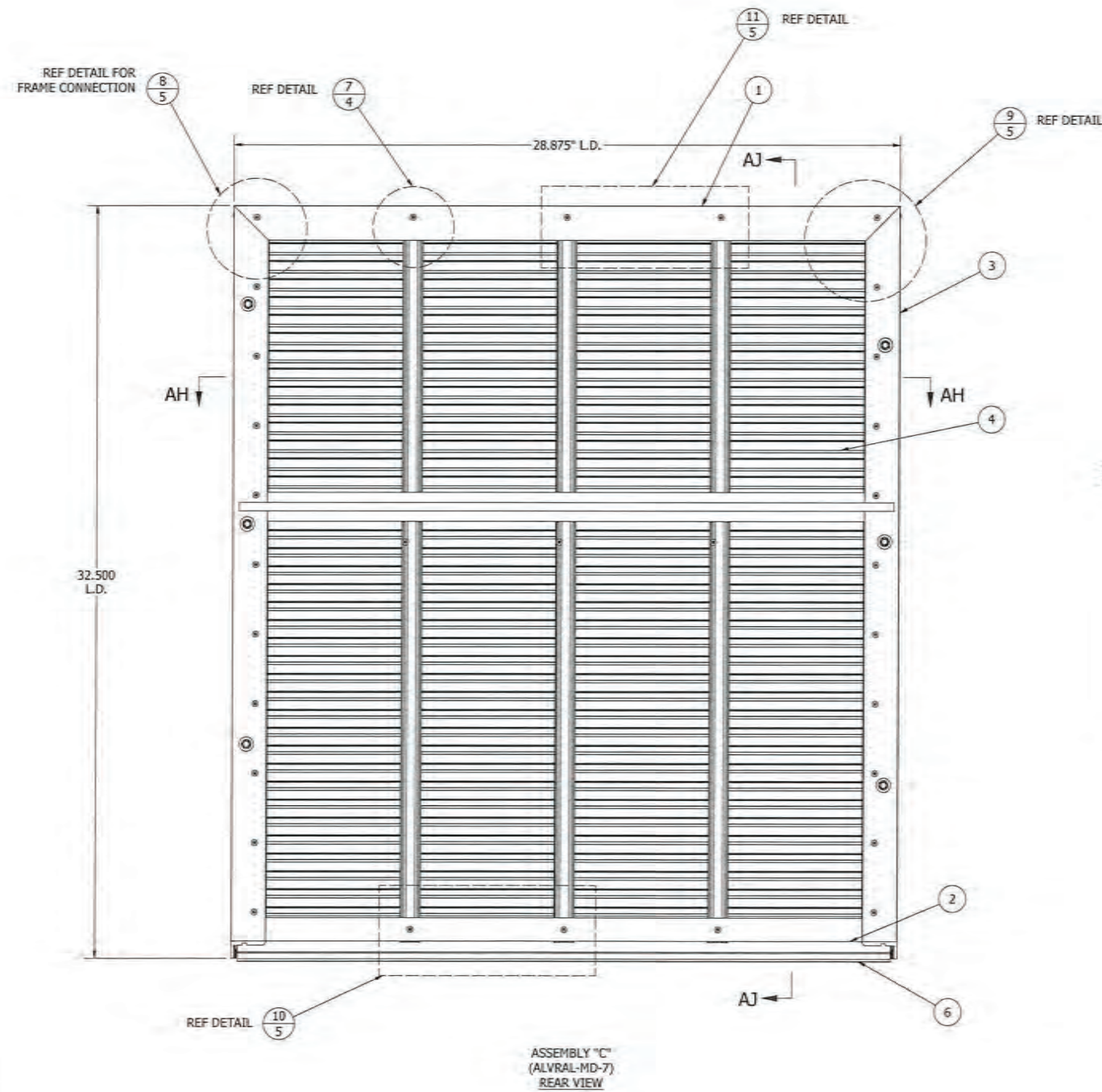


PRODUCT REVISED
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By *CS*
Miami-Dade Product Control

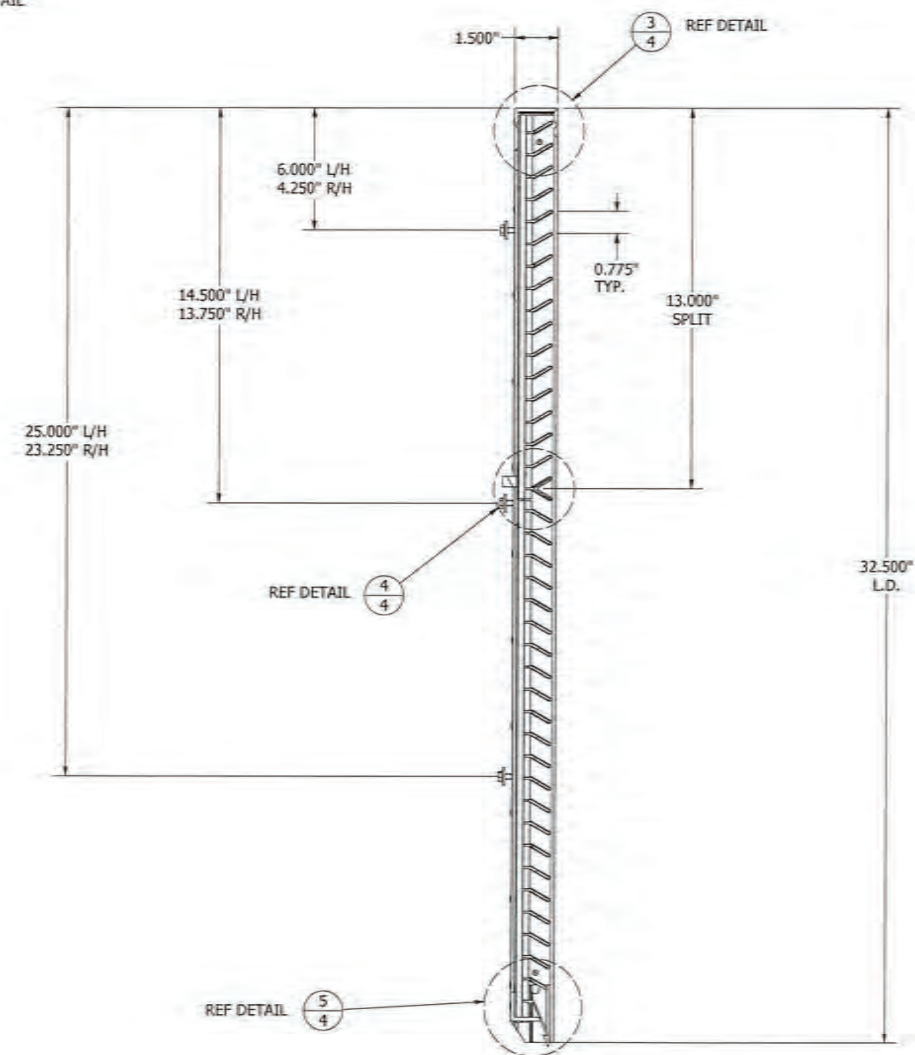
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APPROVED	MMM	3/23/2020	
APPROVED	MMM	3/23/2020	
MATERIAL EXTRUDED ALUMINUM			PRODUCT ALVRAL-MD-3, ALVRAL-MD-4 AND ALVRAL-MD-7
TITLE ASSEMBLY "B" & DETAILS			
SIZE D			DWG NO 60-022541-00D
SCALE			REV -
ECN			DIVINVENTOR SHEET 3 of 9



SECTION AH-AH



ASSEMBLY "C"
(ALVRAL-MD-7)
REAR VIEW



SECTION AJ-AJ
N.T.S.

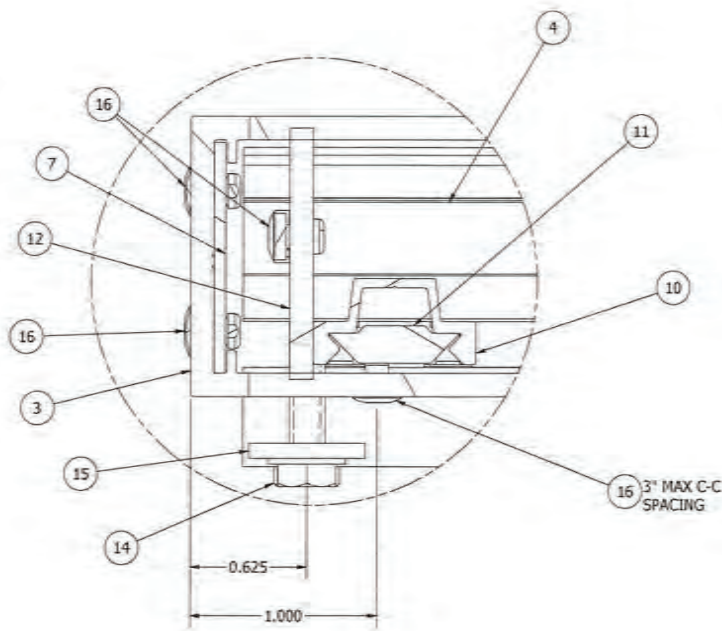


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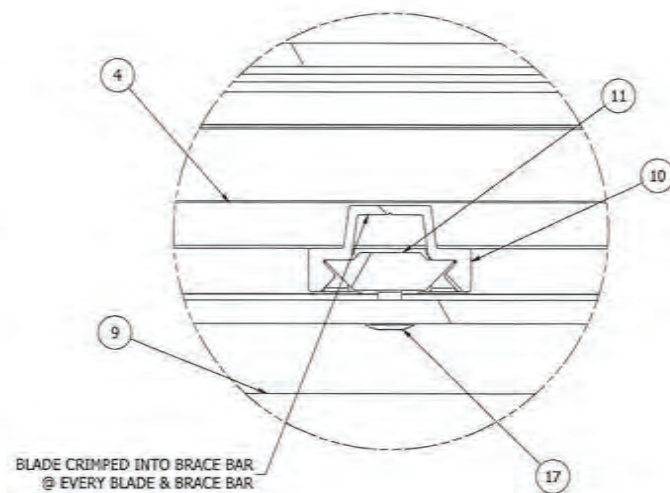
Expiration Date 10/15/2025

By *[Signature]*
Miami-Dade Product Control

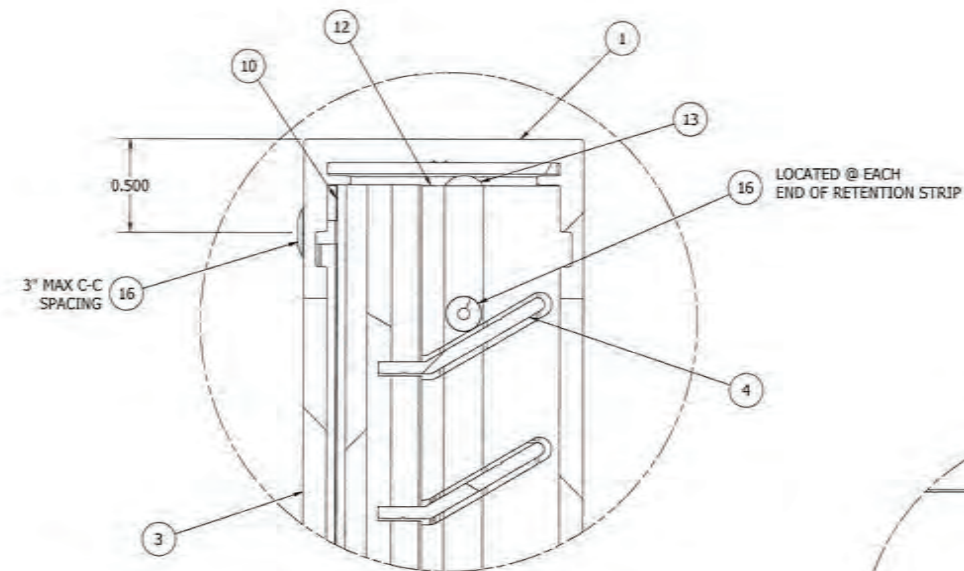
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APPROVED	MMM	3/23/2020				
APPROVED						
MATERIAL	EXTRUDED ALUMINUM		PRODUCT	ALVRAL-MD-3, ALVRAL-MD-4 AND ALVRAL-MD-7		
			TITLE	ASSEMBLY "C" & DETAILS		
			SIZE D	DWG NO 60-022541-000		
			SCALE	REV -		
			INVENTOR	SHEET 4 OF 9		



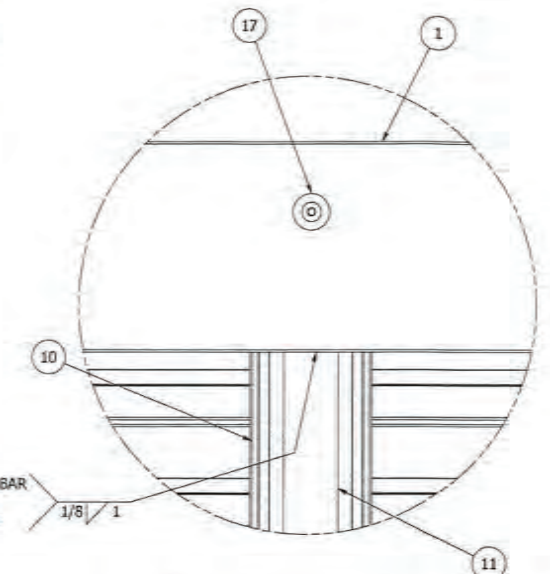
1 JAMB CONSTRUCTION DETAILS
N.T.S.



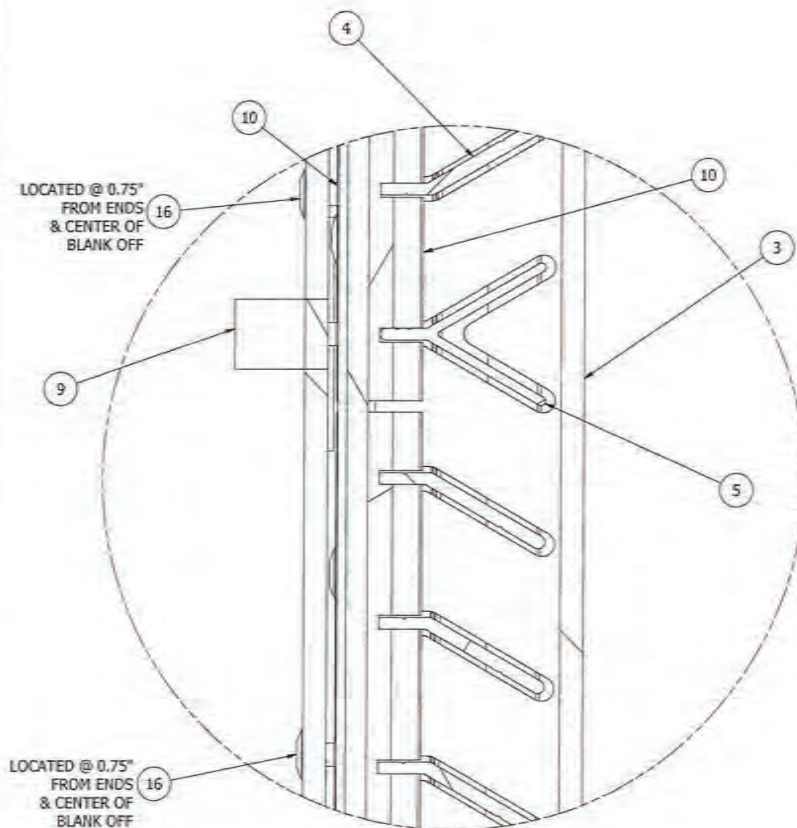
2 BRACE BAR CONSTRUCTION DETAILS
N.T.S.



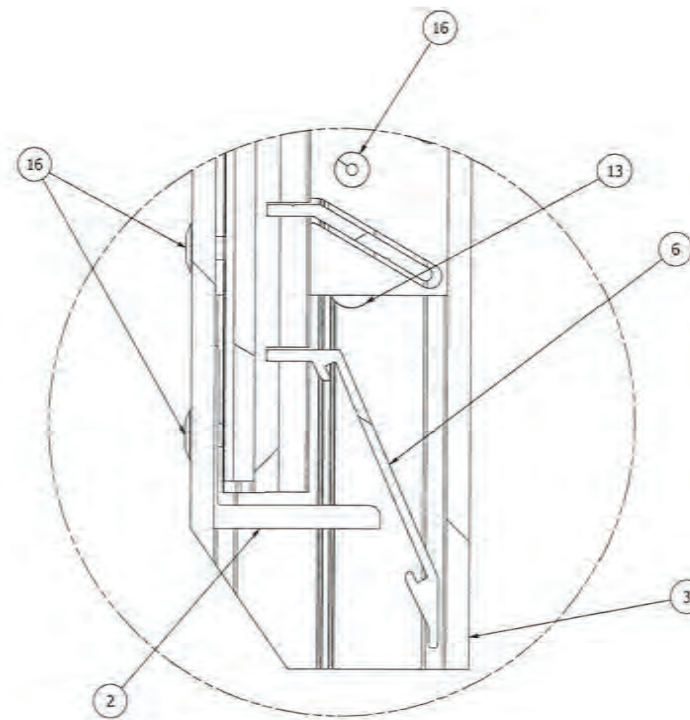
3 HEAD CONSTRUCTION DETAILS
N.T.S.



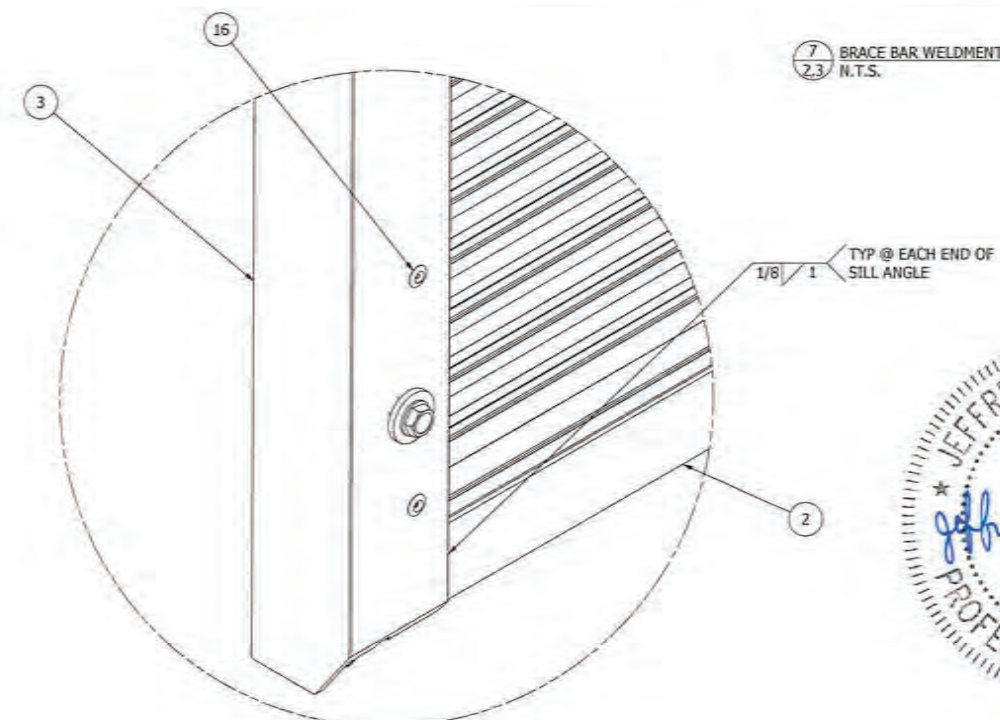
7 BRACE BAR WELDMENT CONSTRUCTION DETAILS
N.T.S.



4 Y BLADE CONSTRUCTION DETAILS
N.T.S.



5 SILL CONSTRUCTION DETAILS
N.T.S.



6 SILL WELDMENT DETAILS
N.T.S.

PRODUCT REVISED
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NOA-No. 23-1116.04

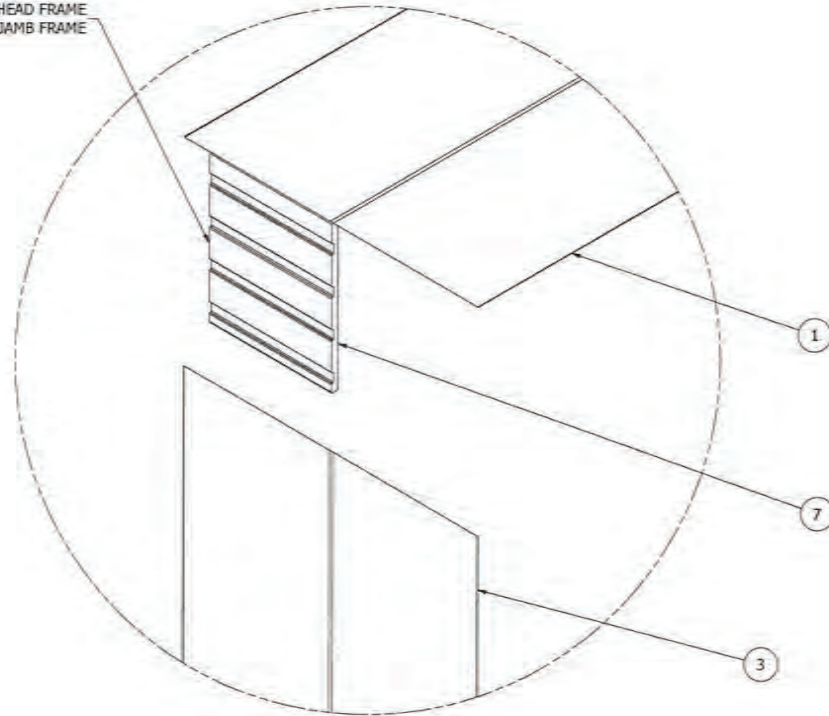
Expiration Date 10/15/2025

By *[Signature]*
Miami-Dade Product Control

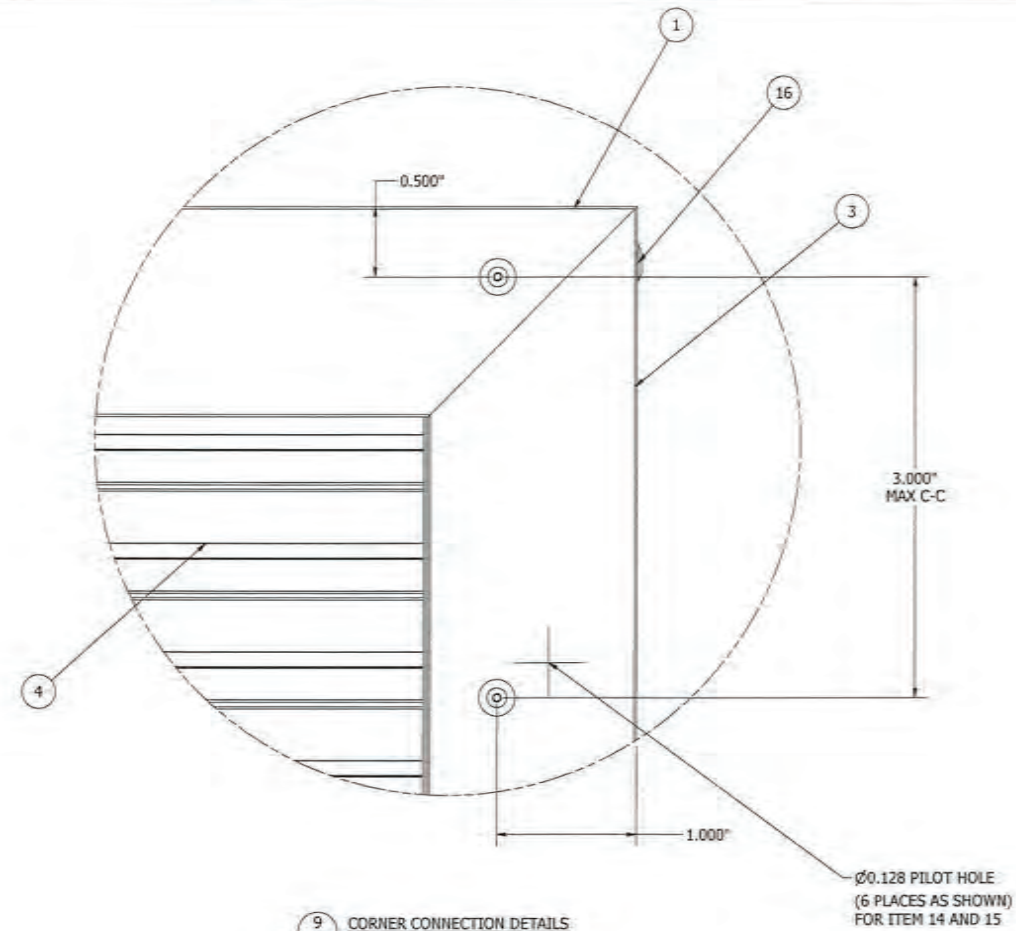


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CHECKED:	NLT	3/23/2020			
APPROVED:	MMM	3/23/2020			
APPROVED:					
MATERIAL:	EXTRUDED ALUMINUM		PRODUCT:	ALYRAL-MD-3, ALYRAL-MD-4 AND ALYRAL-MD-7	
			TITLE:	ASSEMBLY CONSTRUCTION DETAILS	
			SIZE:	D	
			SCALE:		
			INVENTOR:		
			SHEET:	5	OF 9
ECN:			60-022541-00D		

CORNER LUG CRIMPED TO HEAD FRAME
& RIVETED TO JAMB FRAME

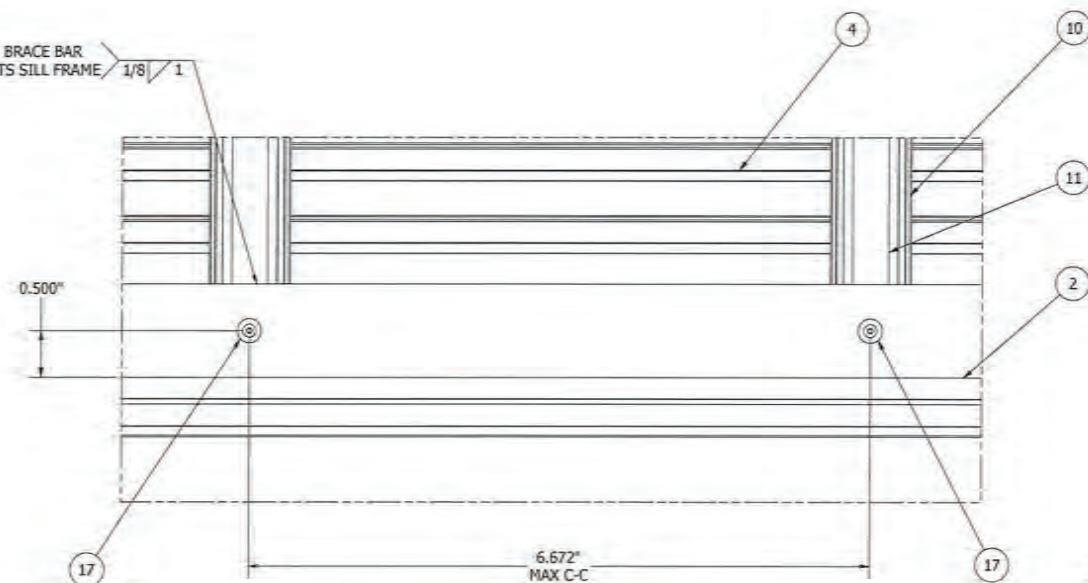


8 CORNER CONNECTION DETAILS
2.3 N.T.S.



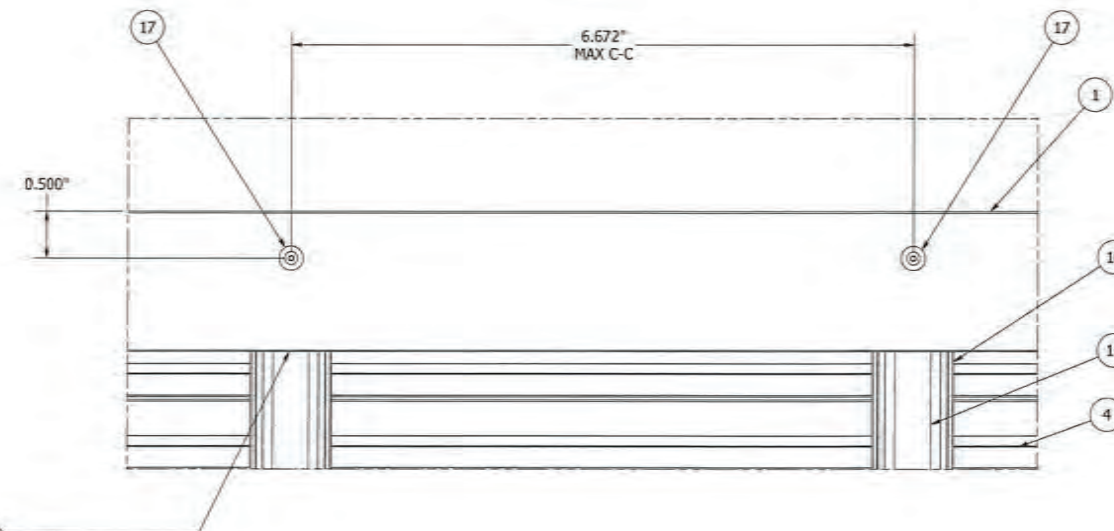
9 CORNER CONNECTION DETAILS
2.3 N.T.S.

TYP @ EACH BRACE BAR
WHERE MEETS SILL FRAME 1/8" 1



10 CORNER CONNECTION DETAILS
2.3 N.T.S.

TYP @ EACH BRACE BAR
WHERE MEETS HEAD FRAME 1/8" 1

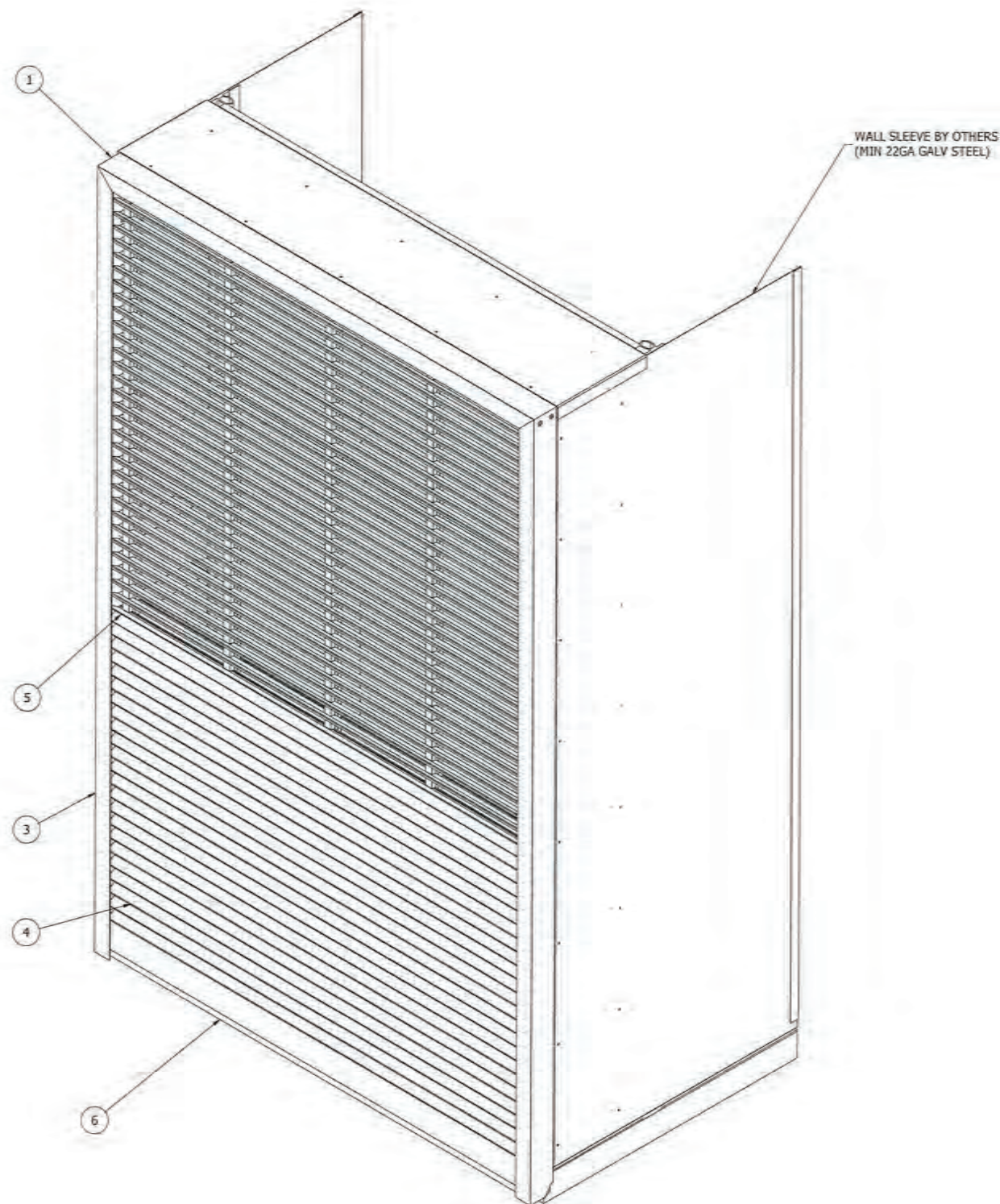


11 HEAD CONNECTION DETAILS
2.3 N.T.S.



PRODUCT REVISED
as complying with the Florida
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Expiration Date 10/15/2025
By *CS*
Miami-Dade Product Control

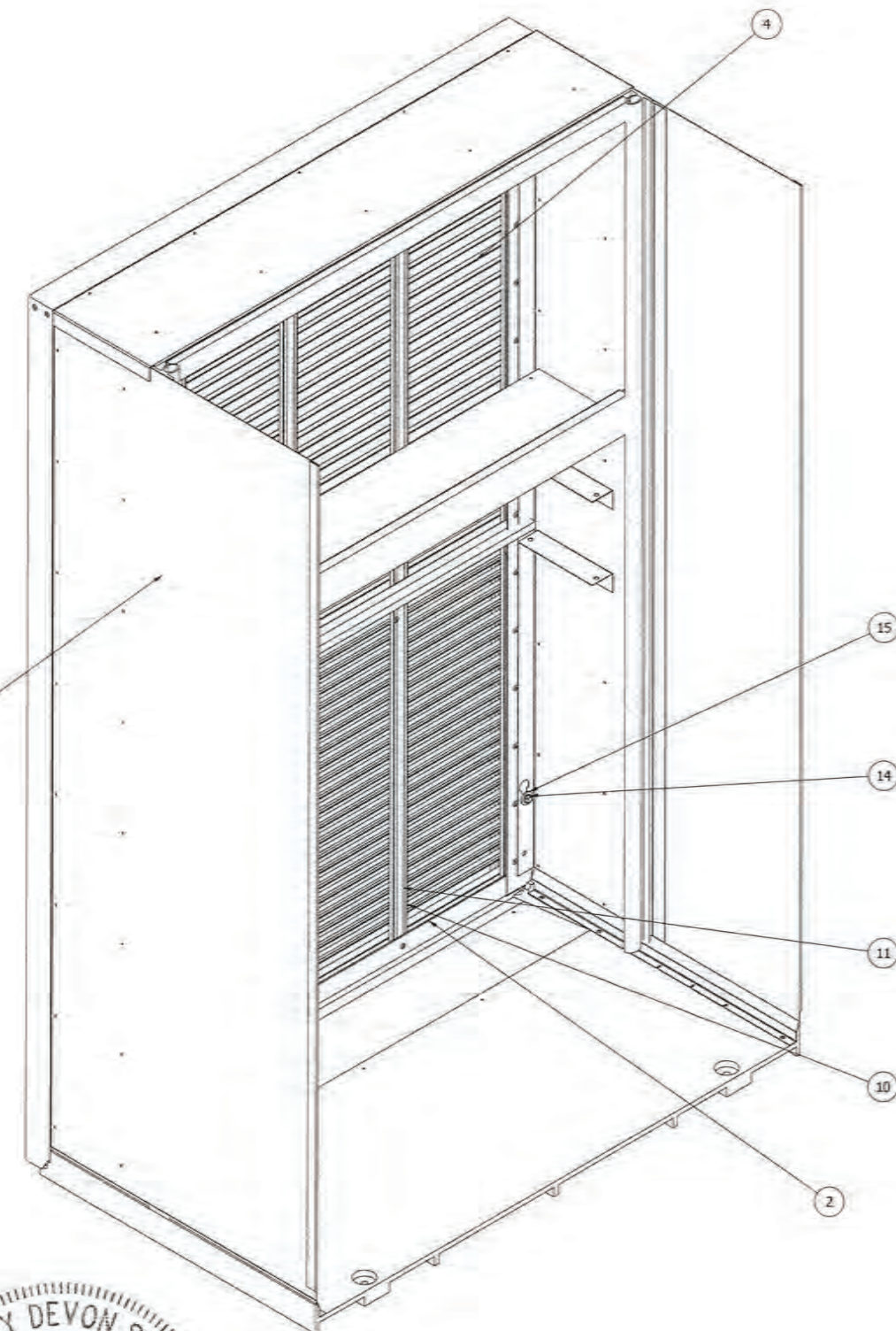
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APPROVED	MMM	3/23/2020			
APPROVED					
MATERIAL	EXTRUDED ALUMINUM		PRODUCT	ALVRAL-MD-3, ALVRAL-MD-4 AND ALVRAL-MD-7	
			TITLE	ASSEMBLY CONSTRUCTION DETAILS	
SIZE	D		DWG NO	60-022541-00D	
SCALE			INVENTOR	SHEET 6 OF 9	



WALL SLEEVE ATTACHMENT DETAIL
FRONT VIEW
N.T.S.

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By *CS*
Miami-Dade Product Control

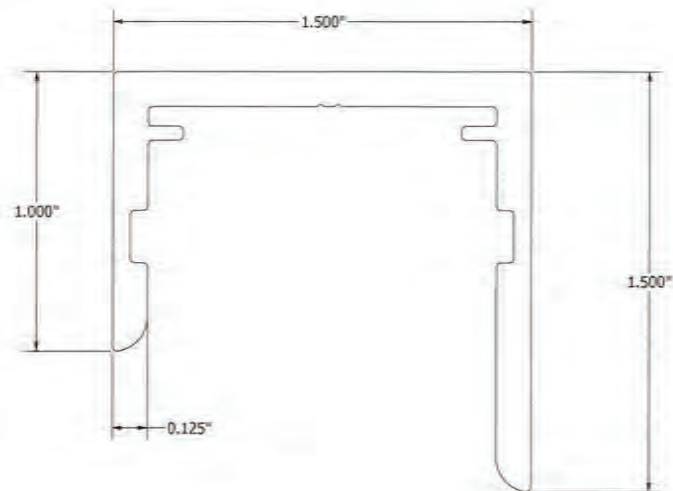
WALL SLEEVE BY OTHERS
(MIN 22GA GALV STEEL)



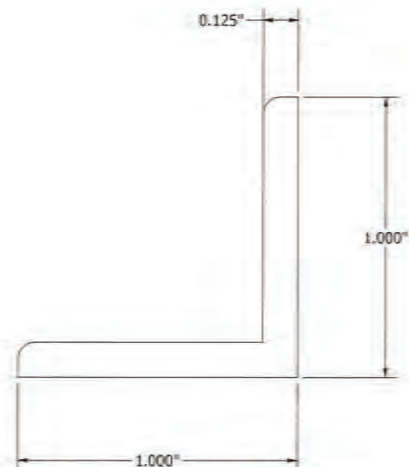
WALL SLEEVE ATTACHMENT DETAIL
REAR VIEW
N.T.S.



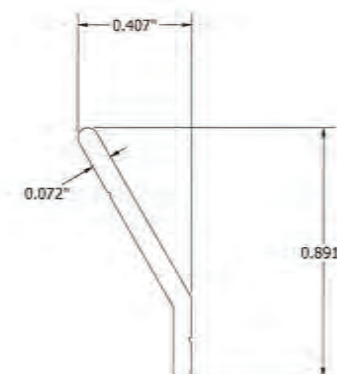
AUTHOR	VDP	2/5/2020	 RUSKIN AUTHORITY IN AIR CONTROL	3900 Doctor Greaves Rd Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL
CHECKED	NLT	3/23/2020		
APPROVED	MMH	3/23/2020		
APPROVED				
MATERIAL	EXTRUDED ALUMINUM		PRODUCT	ALVRAL-MD-3, ALVRAL-MD-4 AND ALVRAL-MD-7
			TITLE	INSTALL DETAILS
			SIZE D	DWG NO 60-022541-00D
ECN			SCALE	INVENTOR SHEET 7 OF 9



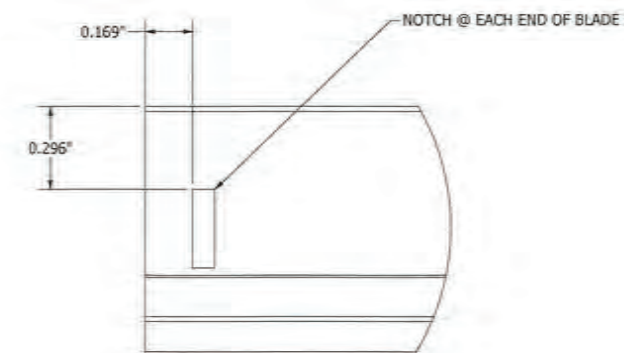
ITEM 1 & 3 HEAD & JAMB FRAME
N.T.S.
RUSKIN PART # 70-023371-008



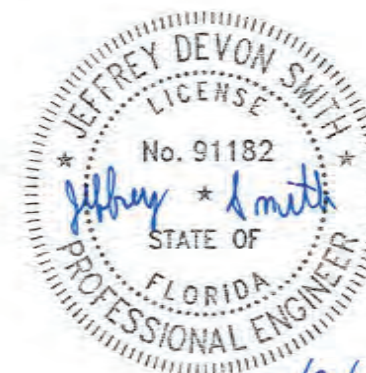
ITEM 2 SILL ANGLE
N.T.S.



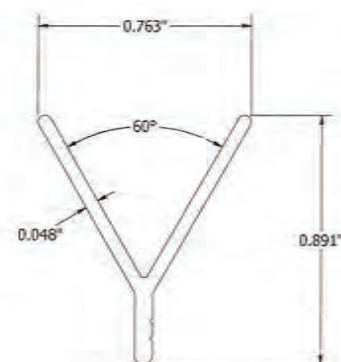
ITEM 4 BLADE
N.T.S.
RUSKIN PART # 218



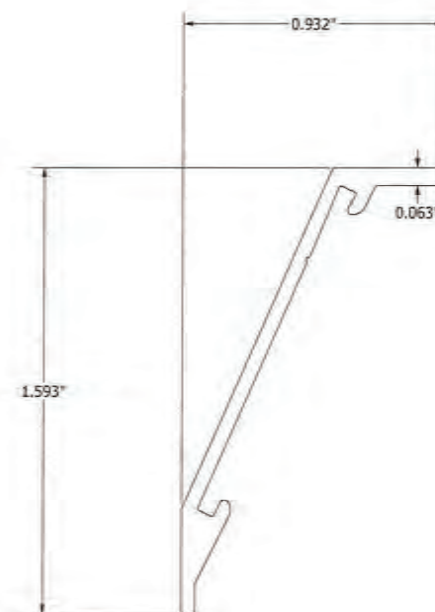
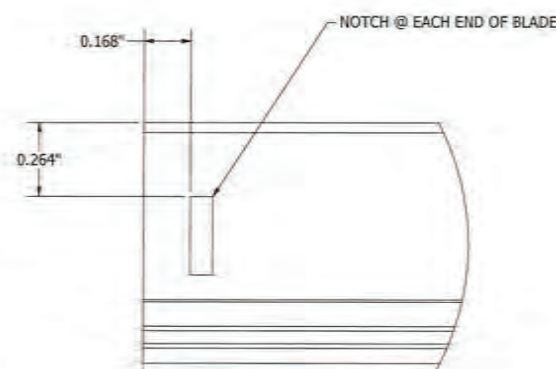
DETAIL AD



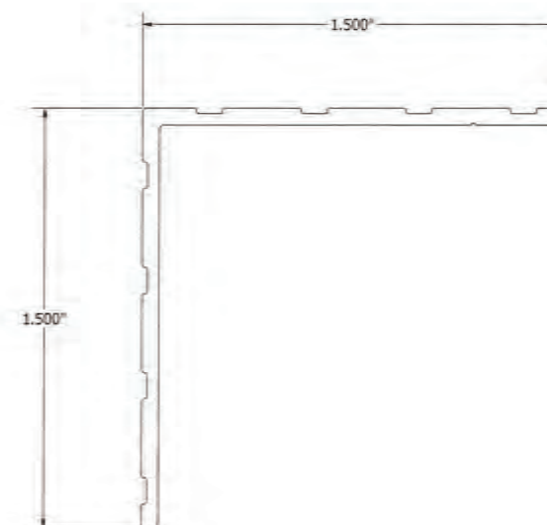
2/8/2022



ITEM 5 Y BLADE
N.T.S.
RUSKIN PART # 70-023132-008



ITEM 6 BOTTOM BLADE
N.T.S.
RUSKIN PART # 68




ITEM 7 CORNER LUG
N.T.S.
RUSKIN PART # 285

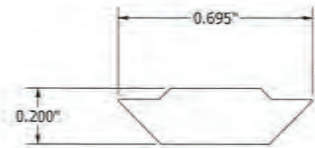


PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-1116.04

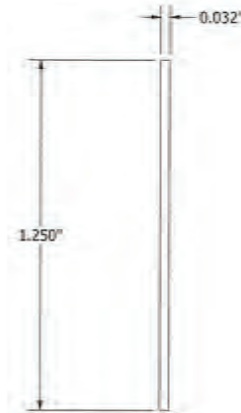
Expiration Date 10/15/2025

By 
Miami-Dade Product Control

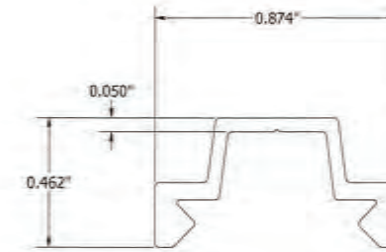
AUTHOR	VDP	2/5/2020	 RUSKIN 3900 Doctor Greaves Rd. Grandview, MO 64030 PROPRIETARY AND CONFIDENTIAL
CHECKED	NLT	3/23/2020	
APPROVED	MMM	3/23/2020	
MATERIAL			PRODUCT
EXTRUDED ALUMINUM			ALVRAL-MD-3, ALVRAL-MD-4 AND ALVRAL-MD-7
TITLE			PARTS
SIZE			DWG NO.
D			60-022541-000
SCALE			REV
			-
SHEET			8 OF 9



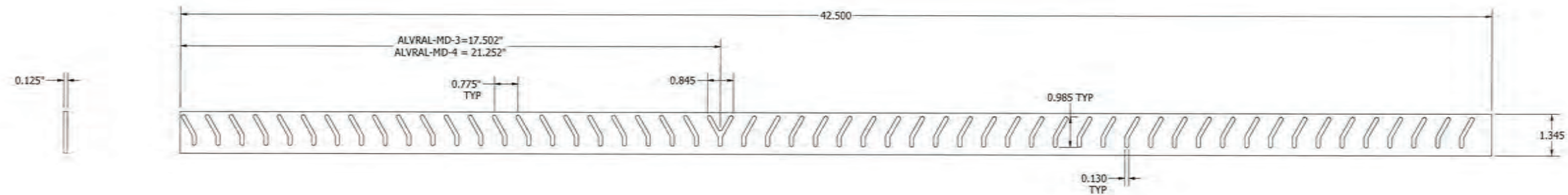
ITEM 11 SPLINE
N.T.S.
RUSKIN PART # 70



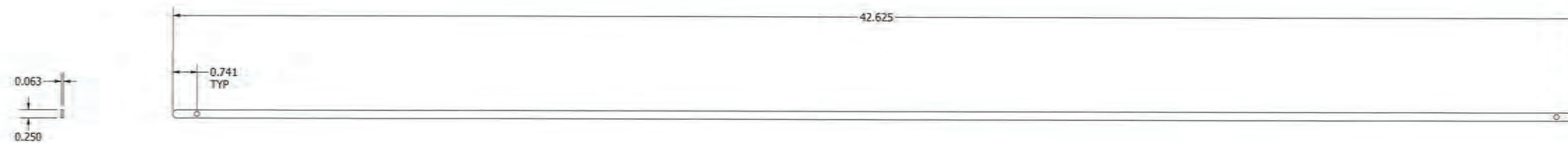
ITEM 8 BLANK OFF
N.T.S.



ITEM 10 BRACE BAR
N.T.S.
RUSKIN PART # 304



ITEM 12 END SUPPORT
N.T.S.




ITEM 13 RETENTION STRIP
N.T.S.



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-1116.04

Expiration Date 10/15/2025

By *CS*
Miami-Dade Product Control

AUTHOR	VDP	2/5/2020	 RUSKIN 3900 Doctor Greaves Rd. Grandview, MD 64030 PROPRIETARY AND CONFIDENTIAL
CHECKED	NLT	3/23/2020	
APPROVED	MMM	3/23/2020	
APPROVED			
MATERIAL EXTRUDED ALUMINUM			PRODUCT ALVRAL-MD-3, ALVRAL-MD-4 AND ALVRAL-MD-7
			TITLE PARTS
			SIZE D
			DWG NO. 60-022541-00D
			REV -
			SCALE
			INVENTOR
			SHEET 9 OF 9