

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 ELF375DXD Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **60-021902-00D**, titled "ELF375DXD Louver", sheets 1 through 14 of 14, dated 05/26/2006, with revision **E** dated 09/27/2023, prepared by Ruskin Company, signed and sealed by Jeffrey Devon 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 Juarez, Mexico, model/ series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

LIMITATION: This louver is to be installed in a location where the room behind the louver is designed to drain water penetrating into the room, and the room will house water resistant/ water proof equipment, components or supplies.

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 # 23-1116.11** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

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



6.2.

07/18/2024

NOA-No. 24-0403.02 Expiration Date: January 03, 2028 Approval Date: July 18, 2024 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **60-021902-00D**, titled "ELF375DXD Louver", sheets 1 through 11 of 11, dated 05/26/2006, with revision **D** dated 03/02/2018, prepared by Ruskin Company, signed and sealed by Melissa M. Massar, P.E. "*Submitted under NOA # 18-0201.08*"

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 ELF375DXD Test Louver, prepared by National Certified Testing Laboratories, Inc., Test Report No. **NCTL-210-3377-1**, dated 03/19/2007, signed and sealed by Gerard J. Ferrara, P.E. *"Submitted under NOA # 07-0621.07"*

- 2. 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 ELF375DXD Test Louver, prepared by National Certified Testing Laboratories, Inc., Test Report No. **NCTL-210-4090-01**, dated 12/07/2017, signed and sealed by Douglas J. McDougall, P.E. *"Submitted under NOA # 18-0201.08"*

C. CALCULATIONS

- 1. Louver and anchor calculations prepared by Ruskin Engineering, dated 09/08/2015, signed and sealed by Chelsea GQ Welch, P.E. *"Submitted under NOA # 15-0923.05"*
- 2. Louver and anchor calculations prepared by Ruskin Engineering, dated 05/14/2007 and 11/20/2007, signed and sealed by Daniel J. Rau, P.E. *"Submitted under NOA # 07-0621.07"*
- **3.** Louver wind load review prepared by Ruskin Company, dated 03/08/2018, signed and sealed by Melissa M. Massar, P.E. *"Submitted under NOA # 18-0201.08"*

D. QUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

Sifang Zhao, P.E. Product Control Examiner NOA-No. 24-0403.02 Expiration Date: January 03, 2028 Approval Date: July 18 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS

- 1. Distributor agreement dated 09/22/2016. "Submitted under NOA # 16-1110.03"
- Statement letter of code conformance to 2010 FBC, issued by Ruskin Company, dated 06/13/2012, signed and sealed by Daniel J. Rau, P.E.
 "Submitted under NOA # 12-0816.02"
- **3.** Statement letter of code conformance to the 5th edition (2014) FBC, issued by Ruskin Company, dated 09/08/2015, signed and sealed by Chelsea GQ Welch, P.E. *"Submitted under NOA # 15-0923.05"*
- 4. No financial interest letter issued by Ruskin Company, dated 05/25/2007, signed and sealed by Daniel J. Rau, P.E. *"Submitted under NOA # 07-0621.07"*
- 5. Statement letter of code conformance to the 6th edition (2017) FBC and of no financial interest issued by Ruskin Company, dated 03/08/2018, signed and sealed by Melissa M. Massar, P.E. "*Submitted under NOA # 18-0201.08*"
- 6. Laboratory compliance letter for Test Report No. NCTL-210-4090-01, issued by National Certified Testing Laboratories, Inc., dated 12/07/2017, signed and sealed by Douglas J. McDougall, P.E. "Submitted under NOA # 18-0201.08"
- 7. 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 # 22-1215.04 for the 8th edition (2023) of the FBC update.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED UNDER NOA # 24-0403.02

A. DRAWINGS

1. Drawing No. **60-021902-00D**, titled "ELF375DXD Louver", sheets 1 through 14 of 14, dated 05/26/2006, with revision **E** dated 09/27/2023, prepared by Ruskin Company, signed and sealed by Jeffrey Devon Smith, P.E

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 ELF375DXD Test Louver, prepared by Intertek., Test Report No. **P5506.01-801-18 R0**, dated 01/09/2023, signed and sealed by Tyler Westerling, P.E.

C. CALCULATIONS

1. Louver wind load review prepared by Ruskin Company, dated 11/07/2023, signed and sealed by Jeffrey D. Smith, 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 8th edition (2023) of the FBC, issued by Ruskin Company, dated 11/09/2023, signed and sealed by Jeffrey D. Smith, P.E.

G. OTHER

1. This NOA revises NOA # 23-1116.11.

Sifang Zhao, P.E. Product Control Examiner NOA-No. 24-0403.02 Expiration Date: January 03, 2028 Approval Date: July 18 2024

	TABLE 01 - PARTS	LIST	
ITEM #	DESCRIPTION	MATERIAL	ALLOY
1	HEAD FRAME	.080" THK. EXTRUDED ALUM.	6063-T6
2	SILL FRAME	.125" THK. EXTRUDED ALUM.	6063-T6
3	JAMB FRAME	.080" THK, EXTRUDED ALUM.	6063-T6
4	BLADE	.080" THK. EXTRUDED ALUM.	6063-T6
5	BLADE BRACE	.080" THK, EXTRUDED ALUM.	6063-T6
6	WATERSTOP	.063" THK. EXTRUDED ALUM.	6063-T6
7	OFFSET TEE SUPPORT	.125" THK. EXTRUDED ALUM.	6063-T6
8	SCREW #10-16 X 1" LG HWH	410 SS/ZC PLT	
9	FSNR KIT 1/4-20 X 3/4"LG W LOCKNUT	ZINC PLT	
	TABLE 02 - MULTI-SECTION CO	NNECTION PARTS	
ITEM #	DESCRIPTION	MATERIAL	ALLOY
11	MULLION ATTACHMENT ANGLE	.125" THK. EXTRUDED ALUM.	6063-T6
12	SCREW #10-16 X 1" LG HWH	410 SS/ZC PLT	0005-10
12	SCREW #10-16 X 1" LG HWH	410 55/20 PL)	-
	TABLE 03 - SHIP LOOS	SE PARTS	
ITEM #	DESCRIPTION	MATERIAL	ALLOY
13	CLIP ANG 2 X 2 X 1/4 X 6" LG PUNCHED STD	.25" THK, EXTRUDED ALUM.	6063-T6
14	CLIP ANG 2 X 2 X 1/4 X 6" LG PUNCHED CNTRSNK	.25" THK. EXTRUDED ALUM.	6063-T6
15	CLIP ANG 2 X 2 X 1/4 X 2º LG PUNCHED	.25" THK. EXTRUDED ALUM,	6063-T6
16	CLIP ANG 2 X 2 X 1/4 X 2" LG CNTRSNK	.25" THK. EXTRUDED ALUM.	6063-T6
17	SCREW #10-16 X 1 1/4" LG HWH	410 SS/ZC PLT	1100.00
18	SCREW #10-16 X 1 1/2" LG HWH	410 SS/ZC PLT	
19			
20	SCR 1/4X1 HWH TEK 410 SS/ZC PLT FSNR KIT 3/8-16X3"LG W LOCKNUT ZINC PLT		
21	STRUCTURAL ATTACHMENT ANGLE - HEAD/SILL	.375" THK. EXTRUDED ALUM.	6053-T6
22	CMU ATTACHMENT ANGLE - HEAD/SILL	.25" THK. FORMED ALUM.	3003-H14
23	CLIP ANG 2 X 2 X 1/4 X 8" LG PUNCHED STD	.25" THK. EXTRUDED ALUM.	6063-T6
24	3/8-16 X 2" LG. A307 GRADE A HHB W/WASHER & LOCKNUT	ZINC PLT	0005-10
.25	ATTACHMENT ANGLE - JAMB	.25" THK. EXTRUDED ALUM.	6063-T6
26	CMU ATTACHMENT ANGLE - JAMB	.25" THK. FORMED ALUM.	3003-H14
20	1/4-20 X 1.5" LG. A307 GRADE A HHB W/WASHER &	ZINC PLT	3003-111-
28	LOCKNUT SUBSTRATE FASTENER	REF TABLE 6/09 & 7/09	
_	TABLE DA DADTE UNIVEDEN		
	TABLE 04 - PARTS - UNIVERSA		
ITEM #	DESCRIPTION	MATERIAL	ALLOY
29	HEAD FRAME W INTEGRAL FLANGE (FF)	.080" THK, EXTRUDED ALUM.	6063-T6
30	SILL FRAME W INTEGRAL FLANGE (FF)	.125" THK. EXTRUDED ALUM.	6063-T6
31	JAMB FRAME W INTEGRAL FLANGE (FF)	.080" THK. EXTRUDED ALUM.	6063-T6
32	UNIVERSAL SLEEVE	.190" THK. FORMED ALUM.	3003-H14
33	CONT. RETAINING ANGLE - HEAD/SILL	.25" THK, EXTRUDED ALUM,	6063-T6
34	CONT. RETAINING ANGLE - JAMBS	.25" THK, EXTRUDED ALUM.	6063-T6
35	UNIVERSAL SLEEVE ATTACHMENT ANGLE	.25" THK. EXTRUDED ALUM.	6063-T6
36	SCR 1/4X1 HWH TEK 410/ZC	410 SS/ZC PLT	
37	1/2-13 X 3.5" LG. SAE GRADE Z HHB W/WASHER & LOCKNUT	ZINC PLT	2.6.1

TABLE 05 - H.V.B.S. / MULLION SUPPORTS OPTIONS BASED ON SECTION HEIGHT

ITEM #	DESCRIPTION	LOUVER HEIGHT RANGE	MATERIAL	ALLOY
38	3" ALUM, H.V.B.S.	UP TO 35" TALL	EXT. ALUM.	6063-T6
39	6" ALUM. H.V.B.S.	GREATER THAN 35" TO 50"	EXT. ALUM.	6063-T6
40	6" ALUM, "I" H.V.B.S.	GREATER THAN 50" TO 66"	EXT. ALUM.	6063-T6
41	2X4 TUBE H.V.B.S.	GREATER THAN 66" TO 74"	EXT, ALUM.	6063-T6
42	2X6 TUBE H.V.B.S.	GREATER THAN 74" TO 100"	EXT. ALUM,	6063-T6
43	2X8 TUBE H.V.B.S.	GREATER THAN 100" TO 120"	EXT. ALUM.	6063-T6

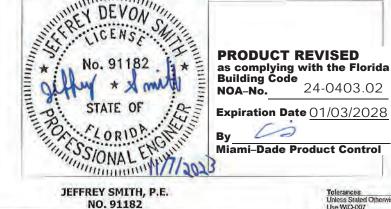
DRAWING SHEET INDEX:

SHEET 01 - STANDARD LOUVER SPECIFICATIONS	
SHEET 02 - SINGLE-SECTION (CF) ASSEMBLY & DETAILS	
SHEET 03 - MULTI-SECTION (CF) ASSEMBLY	
SHEET 04 - STANDARD LOUVER BUILD DETAILS	
SHEET 05 - STANDARD INSTALLATION DETAILS	
SHEET 06 - ALTERNATE INSTALLATION DETAILS - REVERSED)
SHEET 07 - ALTERNATE INSTALLATION DETAILS (>6" CMU)	
SHEET 08 - ALTERNATE INSTALLATION DETAILS (6" CMU)	
SHEET 09 - WALL FASTENER TABLE	
SHEET 10 - UNIVERSAL SLEEVE ASSEMBLY	
SHEET 11 - UNIVERSAL SLEEVE INSTALLATION DETAILS	
SHEET 12 - LOUVER ASSEMBLY PART PROFILES	
SHEET 13 - INSTALLATION PART PROFILES	
SHEET 14 - INSTALLATION PART PROFILES	



NOTES:

- DEAD LOADS.
- RESISTANT/PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES.
- BY PLACING SINGLE SECTIONS SIDE-BY-SIDE.
- LOUVER.
- GROUT AND MORTAR MUST COMPLY WITH FBC.
- TENSILE STRENGTH OF 24KSI.
- 9. SOUARE BALLOONS INDICATE SHIP LOOSE PARTS.



1. THE ELF375DXD HAS 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 PRESSURES OF +/- 130 PSF OR LESS, THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING

3. THIS LOUVER TO BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVER IS DESIGNED TO DRAIN WATER THAT PENETRATES INTO THE ROOM & THE ROOM WILL HOUSE WATER

4. RUSKIN DOES NOT DETERMINE STRUCTURAL INTEGRITY OF THE STRUCTURE. SUBSTRATE REQUIREMENTS GIVEN IN THE TABLE 6 & 7 ON SHEET 09 ARE AS NEEDED FOR ANCHORAGE ONLY.

5. MAXIMUM SINGLE SECTION SIZE: 90" WIDE X 120" HIGH. UNLIMITED WIDTH CAN BE ACCOMPLISHED

6. SECTIONS OR ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDING A SUITABLE STRUCTURAL MEMBER IS DESIGNED & INSTALLED BY OTHERS TO SUPPORT ALL THE LOADS TRANSFERRED FROM THE

7. ALL CMU BLOCK MUST BE GROUT FILLED. MIN. PRISM STRENGTH OF 1500 PSI AT TIME OF INSTALLATION. CMU BLOCKS MUST BE MINIMUM TYPE 1, GRADE N, LIGHT, MEDIUM, OR NORMAL WEIGHT PER ASTM C90.

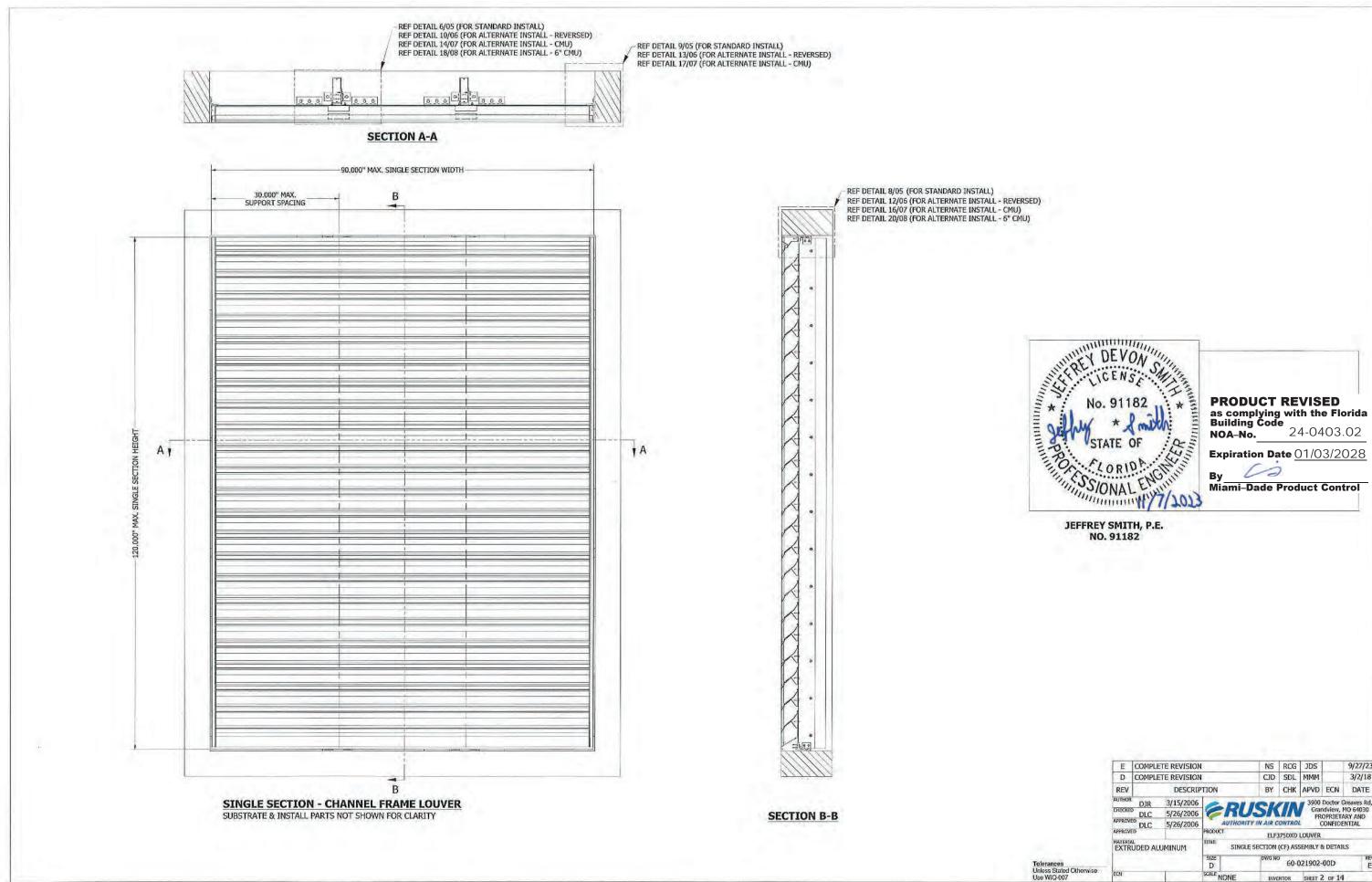
8. ALL WELDED ATTACHMENTS REQUIRE A MINIMUM FILLER OF 4043 ALUMINUM ALLOY WITH MINIMUM

ABBRE	VIATIONS:
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
1 FALO	LINE FOR MOTED OTHEDIMICE

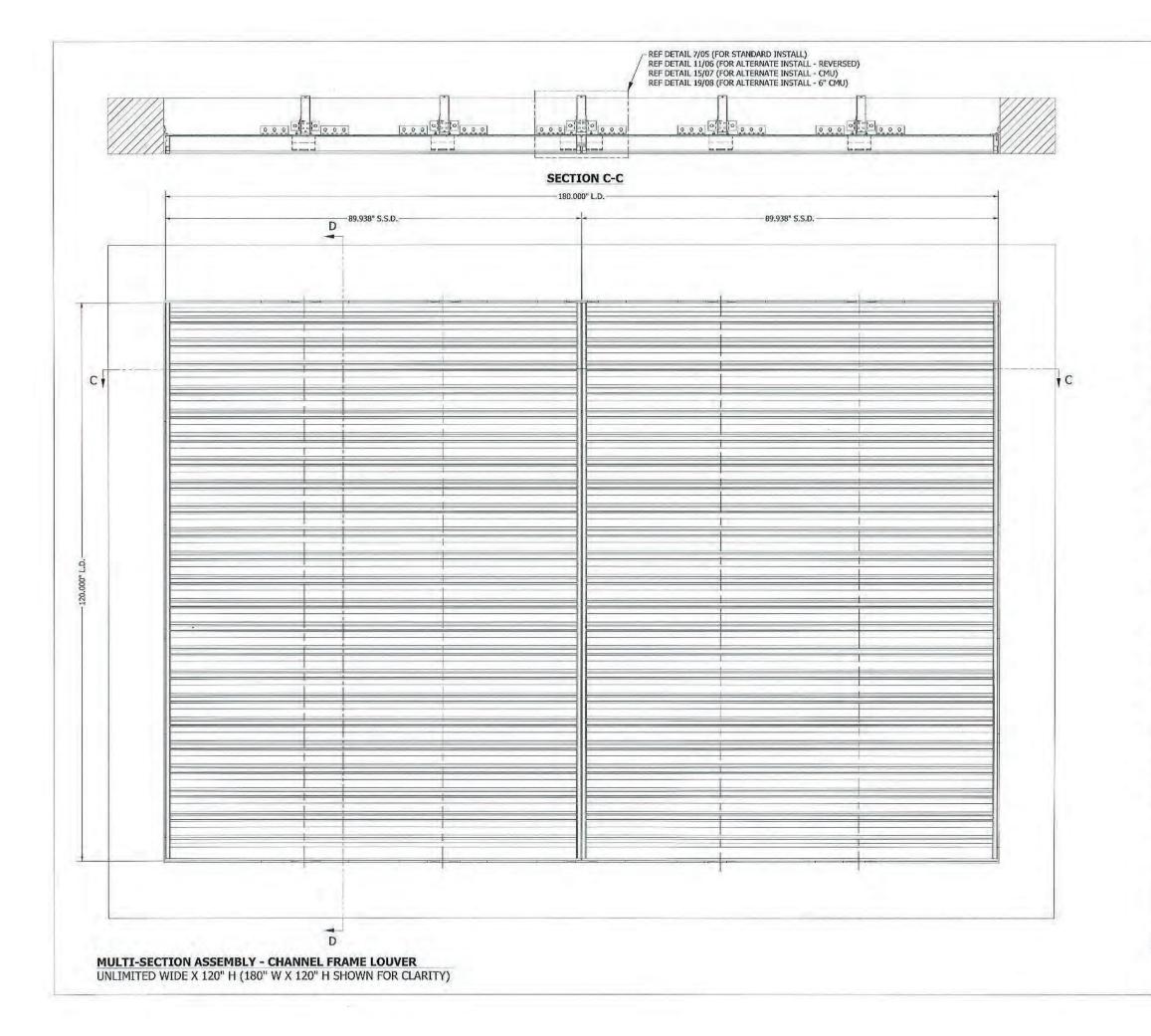
U.N.O. - UNLESS NOTED OTHERWISE

24-0403.02

9/27/23 E COMPLETE REVISION NS RCG JDS D COMPLETE REVISION CJD SDL MMM 3/2/18 DESCRIPTION BY CHK APVD ECN DATE REV ROHTUN 3/15/2006 3900 Doctor Greaves Rd Grandview, MD 64030 DJR *RUSKIN* CHECKED DLC 5/26/2006 PROPRIETARY AND OVED DLC 5/26/2006 AUTHORITY IN AIR CONTROL CONFIDENTIAL ELF375DXD LOUVER EXTRUDED ALUMINUM STANDARD LOUVER SPECIFICATIONS SIZE Tolerances Unless Stated Other Use WIQ-007 60-021902-00D D SCALE NONE INVENTOR SHEET 1 OF 14

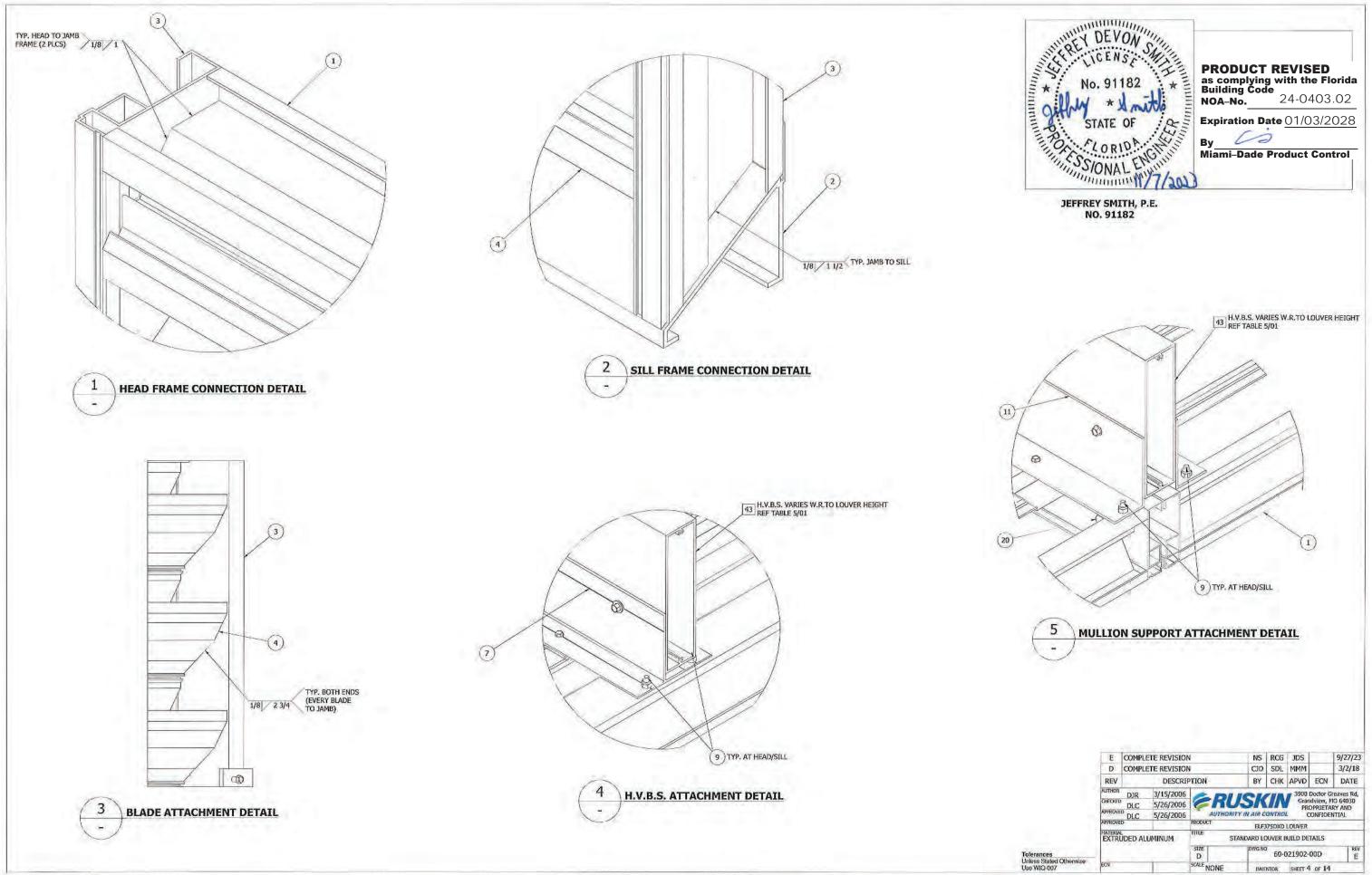


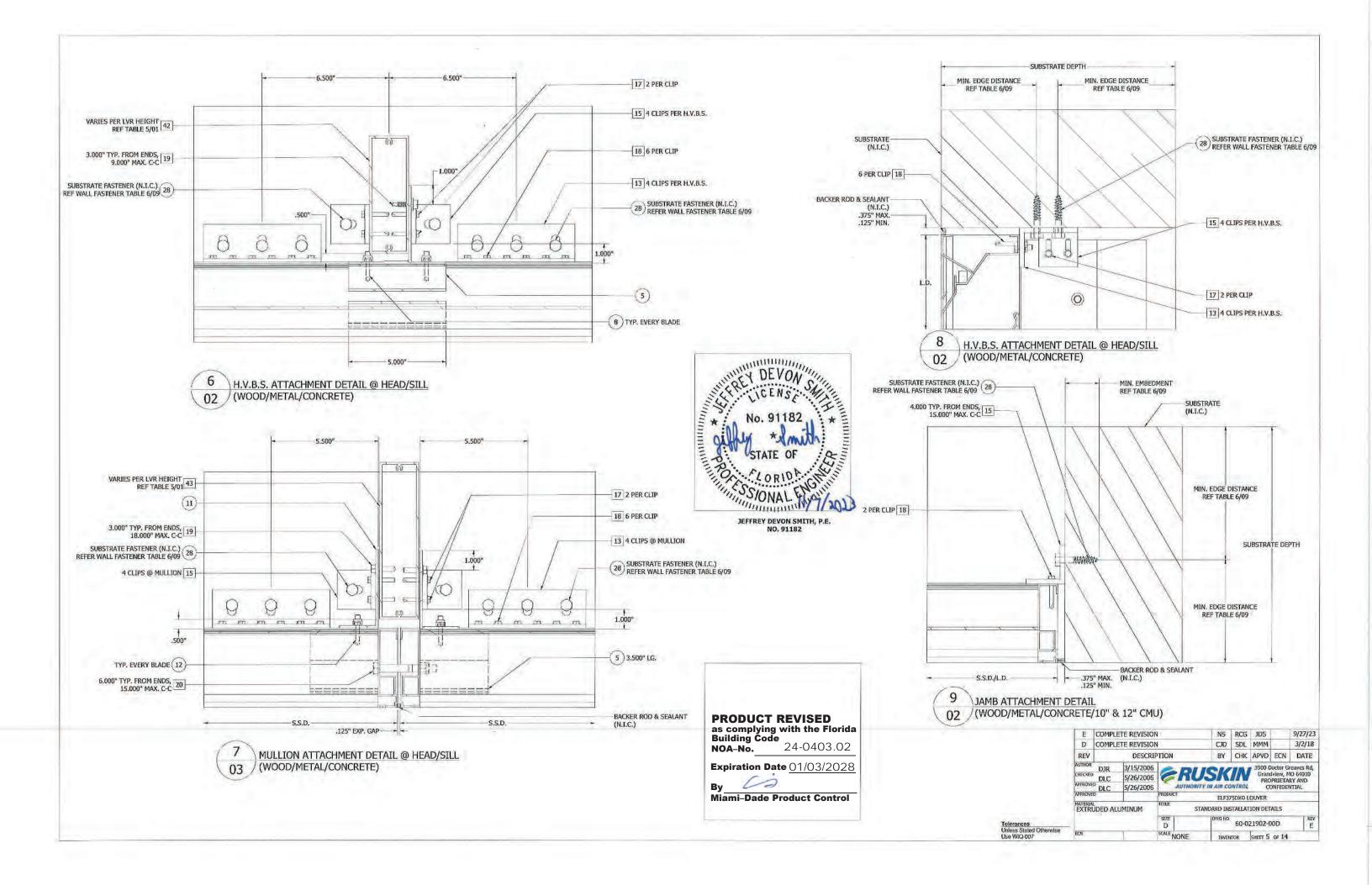
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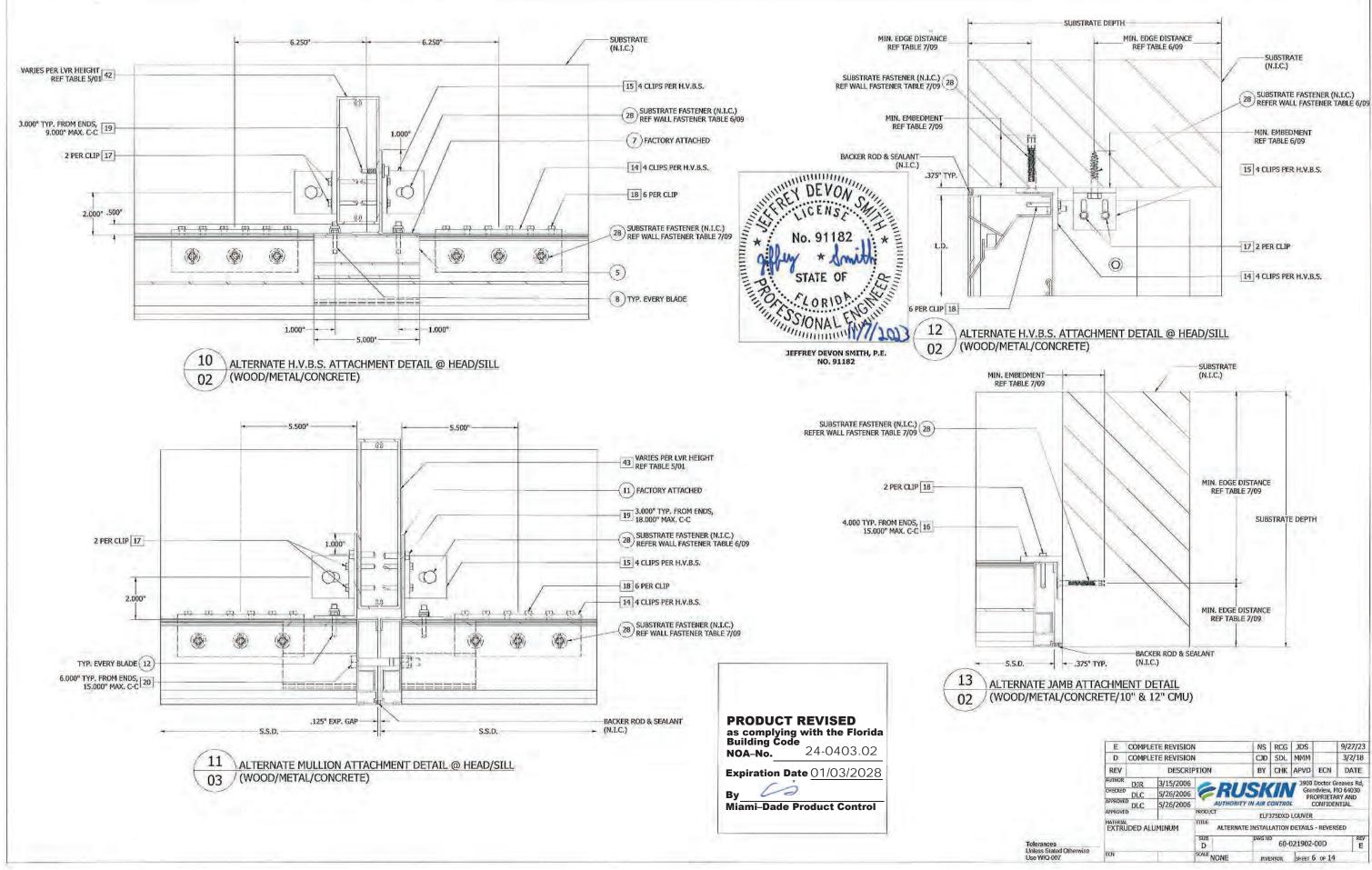


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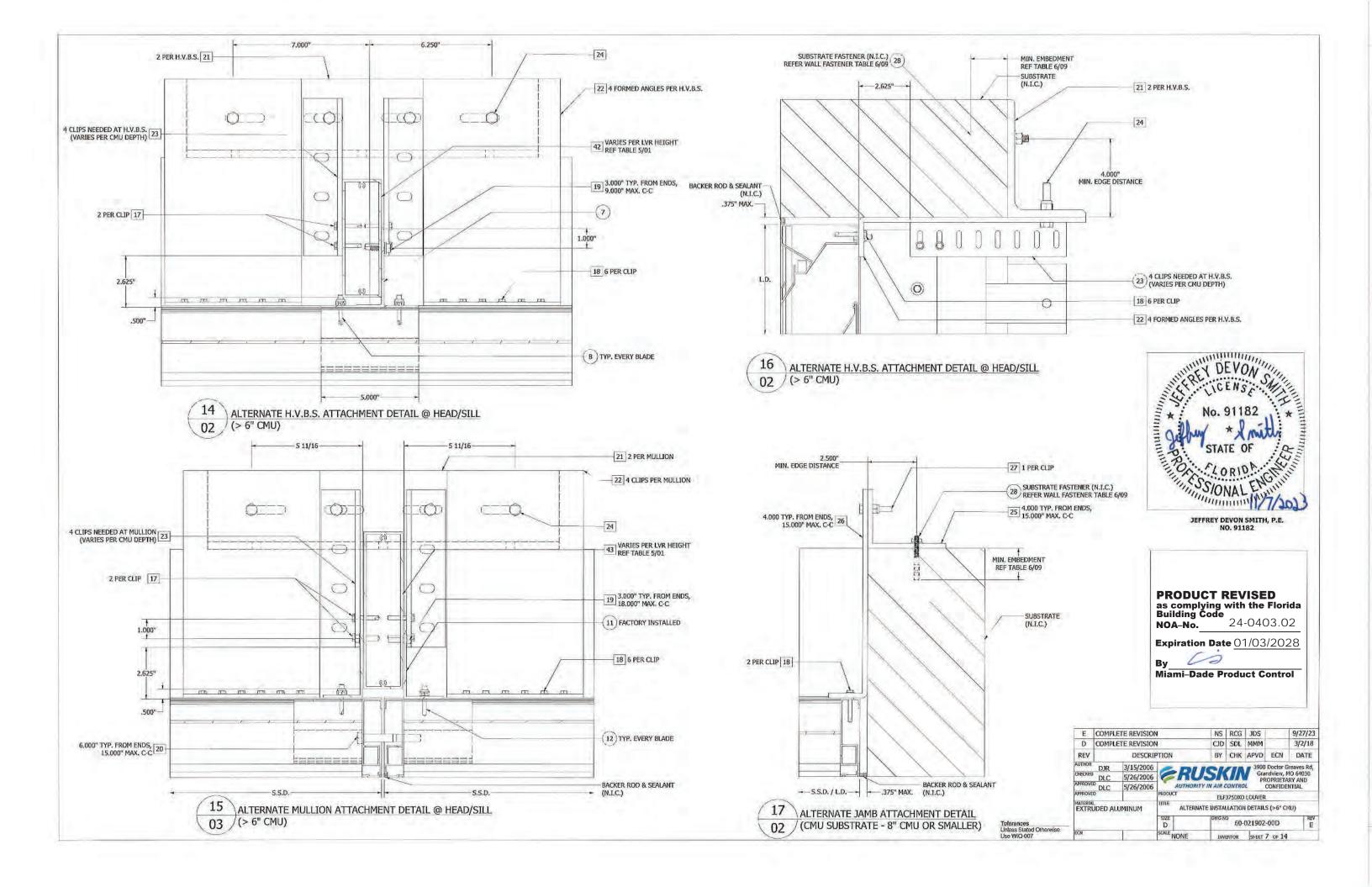
JEFFREY DEVON SMITH, P.E. NO. 91382 PRODUCT REVISED as complying with the Florida Building Code NOA-No. 24-0403.02 Expiration Date 01/03/2028 By Miami-Dade Product Control		giffy's	DEVOA CENSE 91182 * TATE OF	SHITH * HIM	ANUILING
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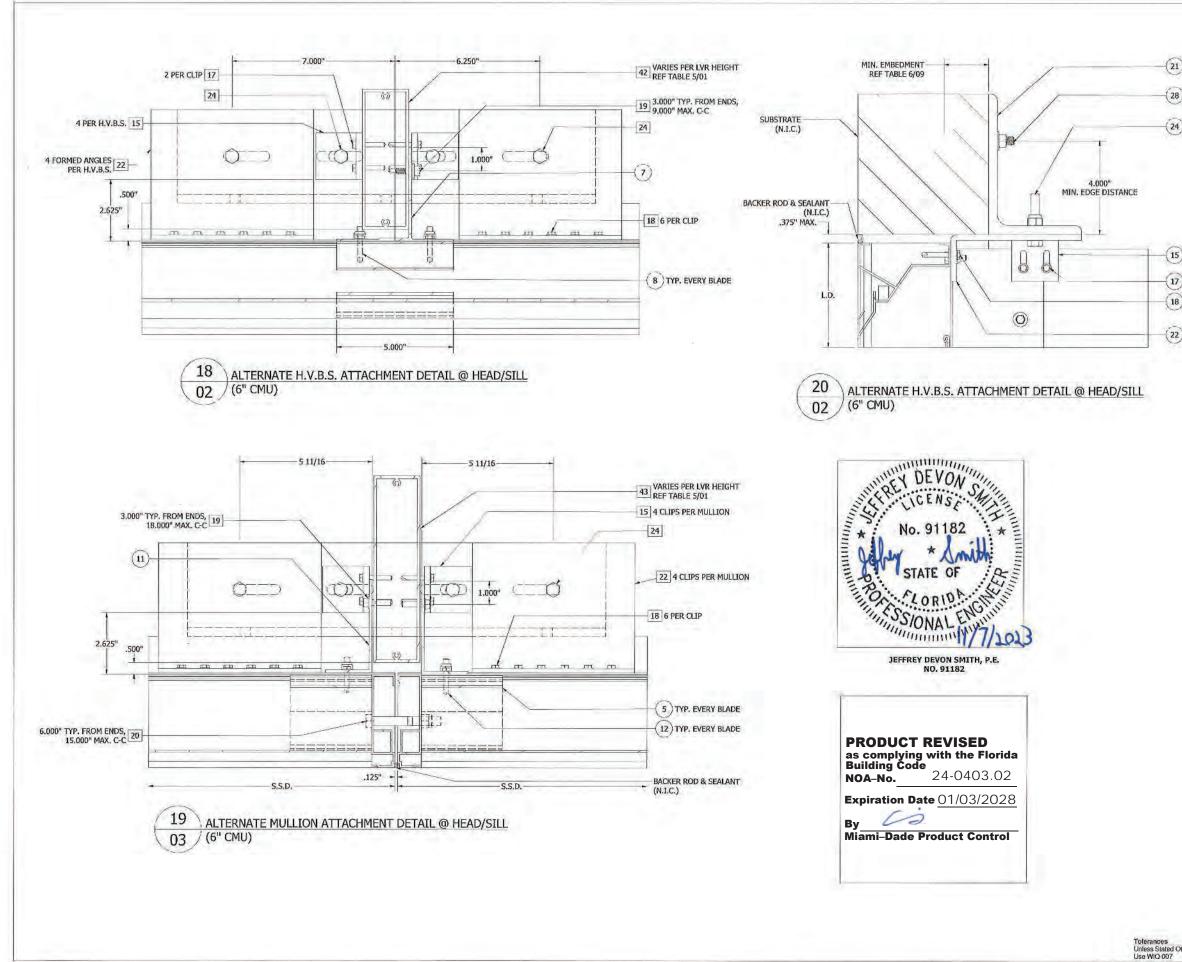






		APPROVED		PRODUCT			LOUVER		
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	AUTHOR	DJR	3/15/2006	20	IICI	7 8 M	3900		reaves Rd,
	REV		DESCRI	PTION	BY	CHK	APVD	ECN	DATE
	D	COMPL	ETE REVISION	N	CDD	SDL	MMM		3/2/18
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-{21	2 PER H.V.B.S.
12	CONTRACTORS IN CONTRACTORS

(28) SUBSTRATE FASTENER (N.I.C.) REFER WALL FASTENER TABLE 6/09

(24)

(15) 4 CLIPS PER H.V.B.S.

17) 2 PER CLIP

(18) 6 PER CLIP

(22) 4 FORMED CLIPS PER H.V.B.S.

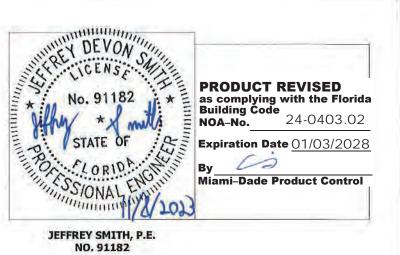
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UBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	LOCATION	FASTENER TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE	FASTENER QTY
		HVBS/MULLION	3/8" Ø A307 STEEL/STAINLESS STEEL BOLT, WASHER & LOCKNUT	3 THREADS BEYOND NUT	2 1/2"	1 PER 6" LG. ANGLE
WOOD	SPECIFIC GRAVITY = 0.4	SUPPORT	3/8" Ø X 2" LONG LAG SCREW, A307 STEEL/STAINLESS STEEL	1 3/4"	2 1/2"	3 PER 6" LG. ANGLE
WOOD	SPECIFIC GRAVITT - 0.4	JAMBS	1/4" Ø A307 STEEL/STAINLESS STEEL BOLT, WASHER & LOCKNUT	3 THREADS BEYOND NUT	2 1/2"	1 PER 2" LG. ANGLE
		JAMBO	3/8" Ø X 2" LONG LAG SCREW, A307 STEEL	1 3/4"	2 1/2"	1 PER 2" LG. ANGLE
	STEEL - MIN. 14 GA ALUMINUM - MIN. 1/8" THICK	HVBS/MULLION	3/8" Ø A307 STEEL/STAINLESS STEEL BOLT, WASHER & LOCKNUT	3 THREADS BEYOND NUT	3/4"	1 PER 6" LG. ANGLE
STEEL & ALUMINUM		SUPPORT	3/8" Ø SCREW, A307 STEEL/STAINLESS STEEL	3 THREADS BEYOND SUBSTRATE	3/4"	3 PER 6" LG. ANGLE
		JAMBS	5/16" Ø - 18 A307 STEEL/STAINLESS STEEL BOLT OR TEK SCREW	3 THREADS BEYOND NUT OR SUBSTRATE	5/8"	1 PER 2" LG. ANGLE
CONCRETE	3000 PSI MIN. COMP. STRENGTH	HVBS/MULLION SUPPORT	3/8" Ø HILTI KWIK HUS SCREW ANCHOR	3 1/4"	4 1/2"	1 PER 6" LG. ANGLE
CONCRETE	SUUD FSI MIN. COMF. STRENGTH	JAMBS	1/4" Ø X 2 1/4" SS HILTI KWIK CON +	1 3/4"	2 1/2"	1 PER 2" LG. ANGLE
	and a second second	HVBS/MULLION SUPPORT	3/8" Ø X 3 1/2" HILTI KWIK HUS EZ SCREW ANCHOR	3 1/4"	4"	3 PER SUPPORT ANGLE (ITEM 21
GROUT FILLED CMU	ASTM C-90 BLOCK, 1500 PSI GROUT COMP. STRENGTH	JAMBS (SINGLE ANGLE)	1/4" Ø X 2" HILTI KWIK HUS EZ W/WASHER	1 5/8"	4"	1 PER 2" LG. ANGLE
		JAMBS (DOUBLE ANGLE)	1/4" Ø X 1 1/4" SS HILTI KWIK CON +	1ª	2 1/2"	2 PER ANGLE (ITE 25)

		07 - ELF375DXD - COUNTERSUNK F	AGTENEIX TABLE (N.I	,		
SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	FASTENER TYPE MIN. EMBEDMENT D		MIN. EDGE DISTANCE	FASTENER QTY. PER 6" LG. ANGLE	FASTENER QTY, PER 2" LG. ANGLE
13000	14GA, 45 KSI TENSILE STRENGTH, 33 KSI YIELD STRENGTH	1/4-20 BOLT, A307 STEEL/STAINLESS STEEL GRADE A	3 THREADS BEYOND NUT			
STEEL	12GA, 45 KSI TENSILE STRENGTH, 33 KSI YIELD STRENGTH	1/4-20 SD SCREW, A307 STEEL/STAINLESS STEEL GRADE A	3 THREADS BEYOND SUBSTRATE THICKNESS	1/2"	3	1
	1/8" THICK, 20 KSI TENSILE STRENGTH, 15 KSI YIELD STRENGTH	1/4-20 BOLT, A307 STEEL/STAINLESS STEEL GRADE A	3 THREADS BEYOND NUT	1/2"	3'	
ALUMINUM	3/16" THICK, 20 KSI TENSILE STRENGTH, 15 KSI YIELD STRENGTH	1/4-20 SD SCREW, A307 STEEL/STAINLESS STEEL GRADE A	3 THREADS BEYOND SUBSTRATE THICKNESS	1/2	3	
CONCRETE	3000 PSI MIN. COMP. STRENGTH	1/4" DIA HILTI KWIK HUS EZ SCREW ANCHOR	2 1/2"	4"	2	1
GROUT FILLED CMU	ASTM C-90 BLOCK, 1500 PSI GROUT COMP. STRENGTH	1/4" Ø X 2" HILTI KWIK HUS EZ W/WASHER	1 5/8"	4"	N/A	1

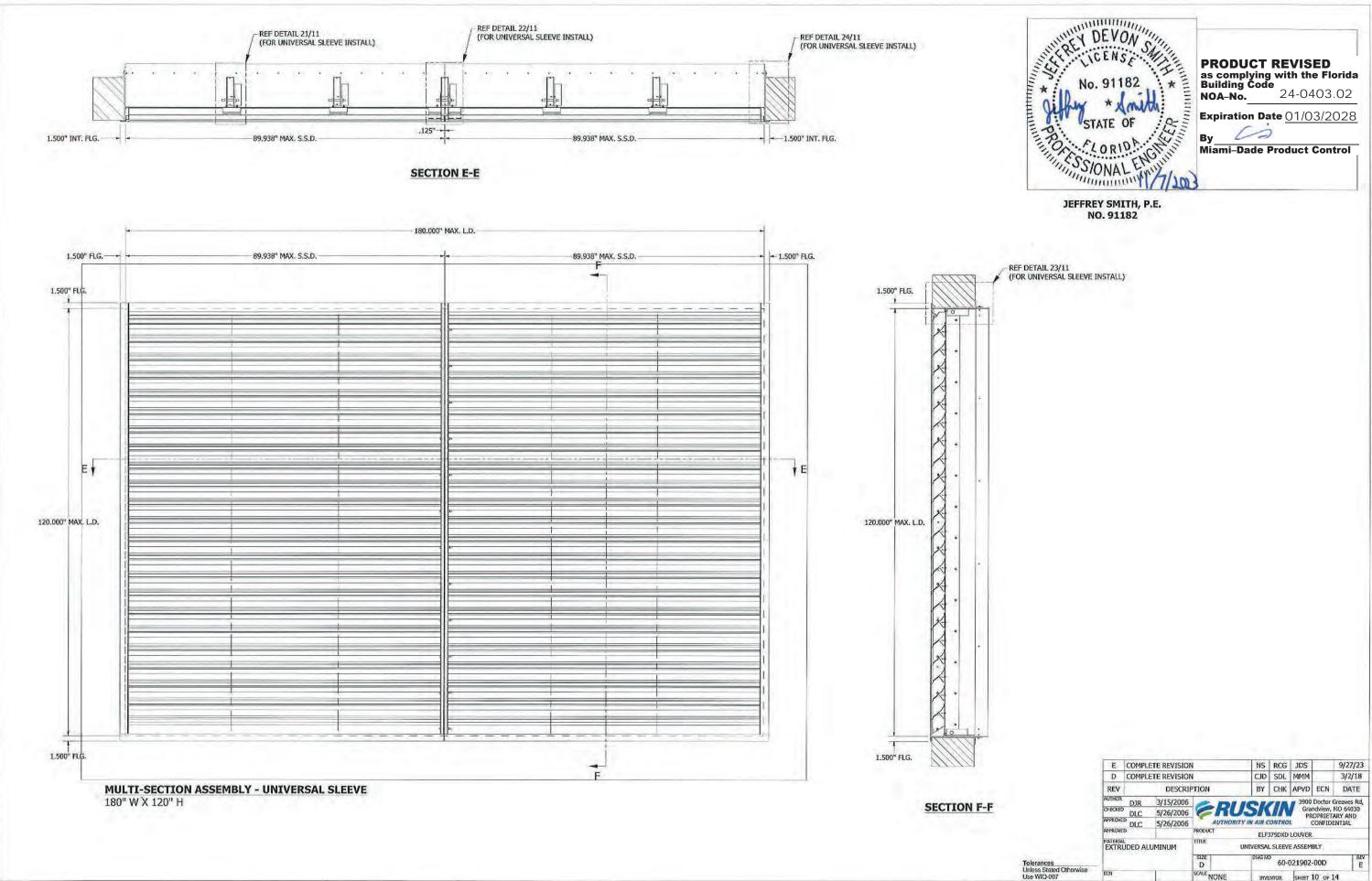




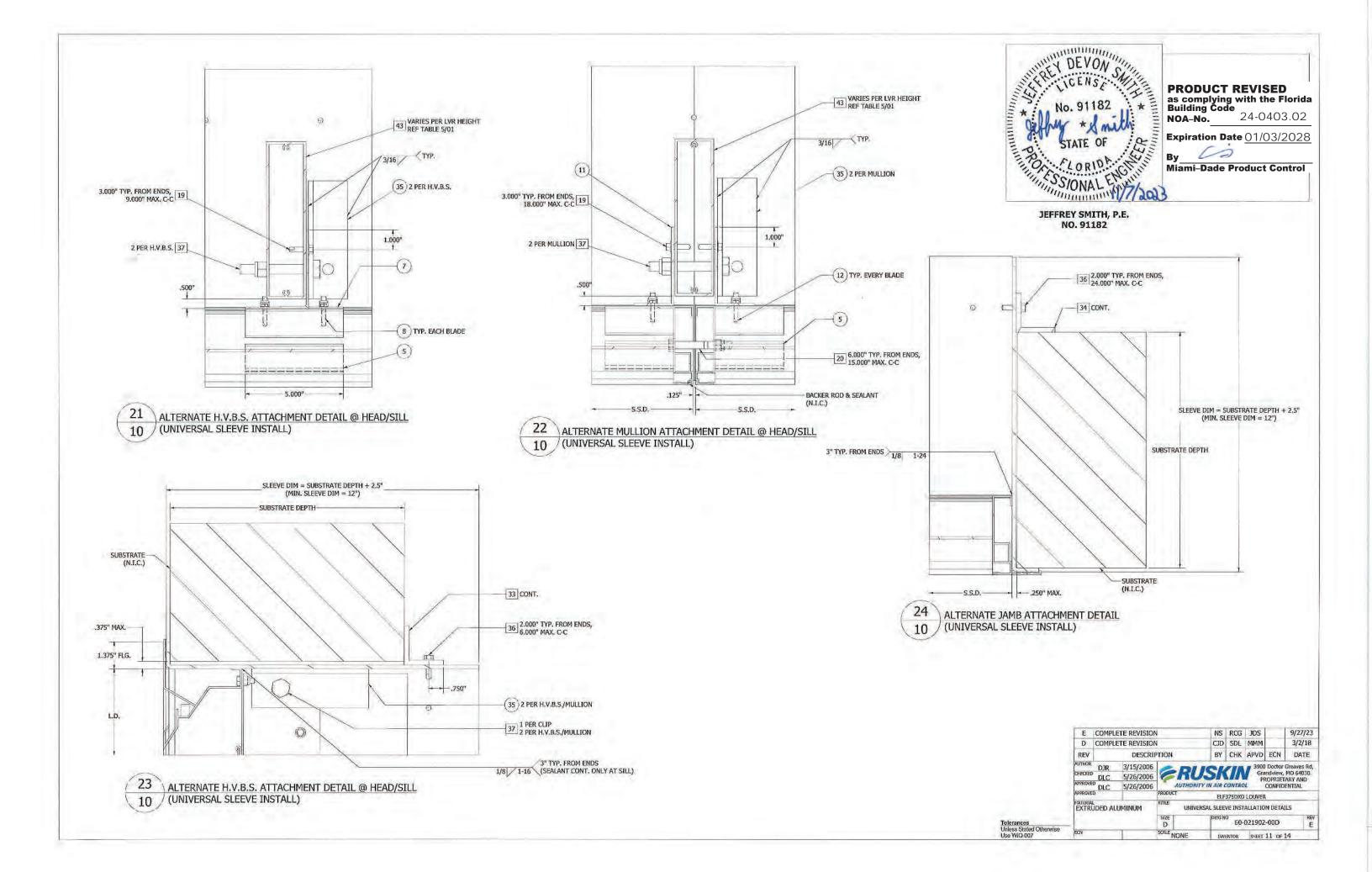


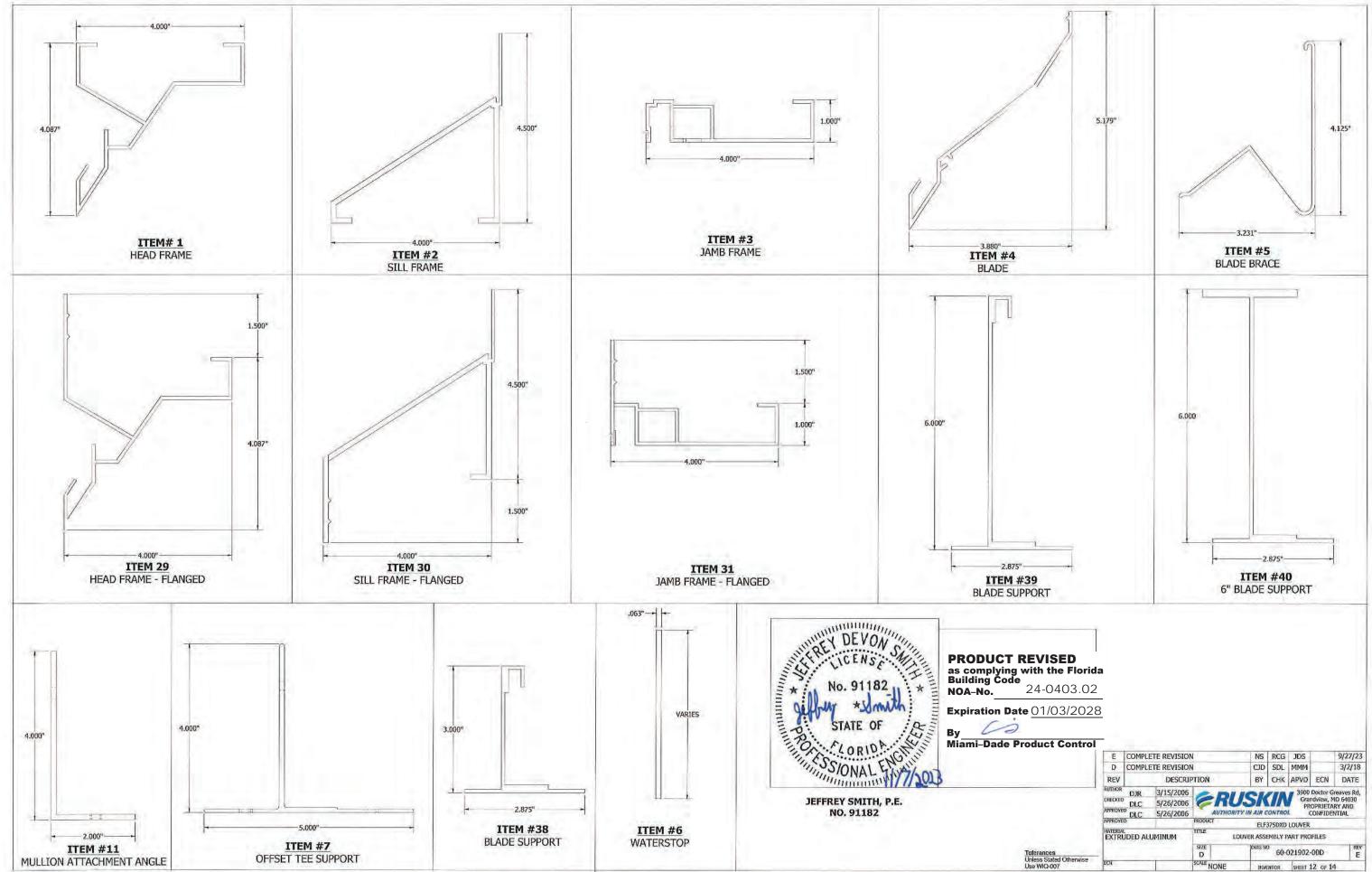
NOTE FOR COUNTERSUNK ATTACHMENT: MULTIPLE ANCHORS ARE ONLY FOR HVBS/MULLION ATTACHMENT. JAMB ATTACHMENT NEEDS ONLY ONE ANCHOR PER ANGLE.

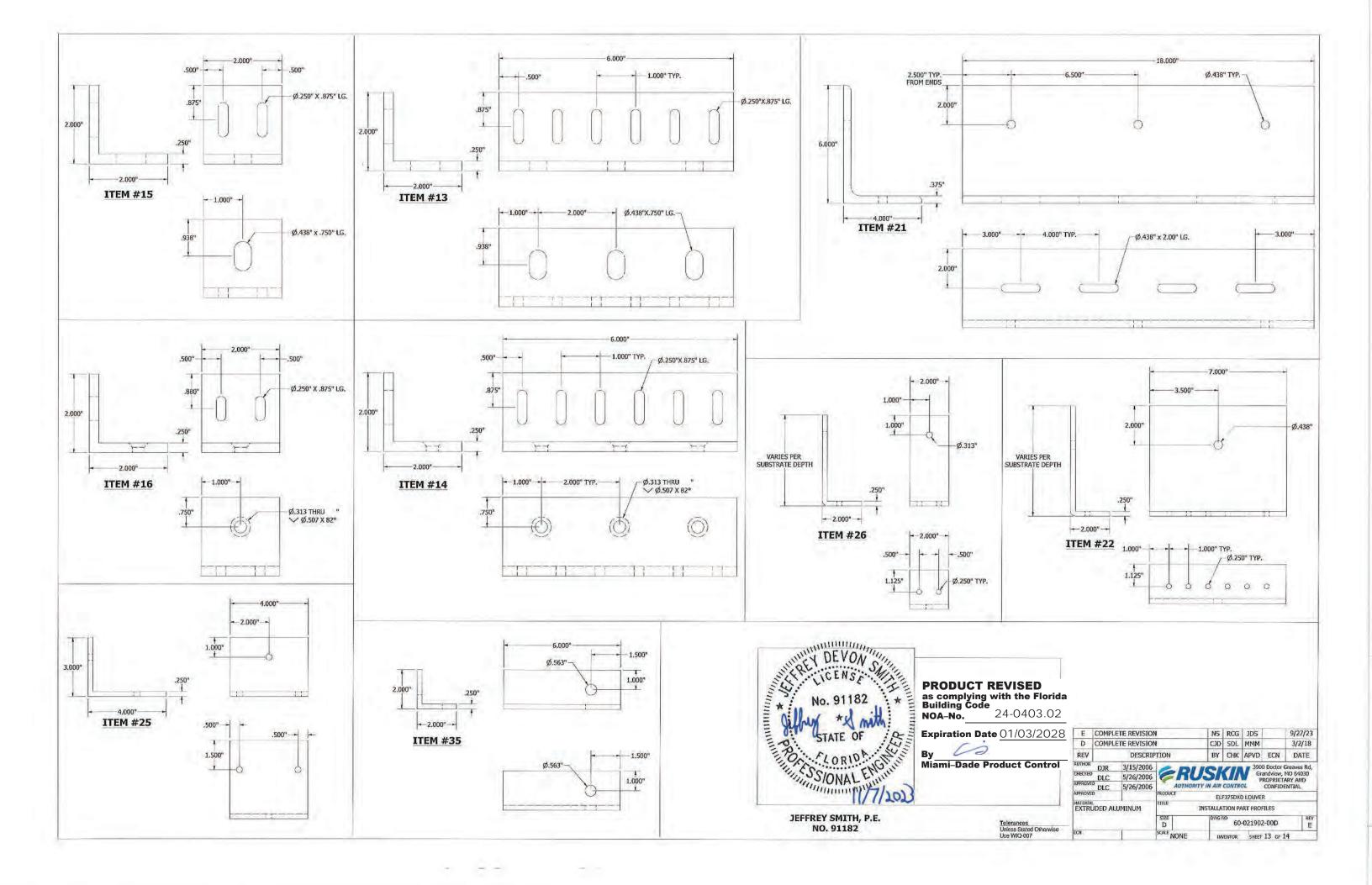
VIQ-007	ECN	-		SCALE NONE	INVE	NTOR	SHEET 9	OF 14		
ances is Stated Otherwise	-	-		STZE D	DWG NC	60-0	21902-0	DOD		E
	EXTR	UDED AL	UMINUM	TITLE	WALL F	ASTENE	TABLE			
	APPROVE			PRODUCT	ELF3	75DXD	OUVER			
	APPROVE	DLC	5/26/2006	and the second second	ORITY IN AIR C	ONTROL		ONFIDE		
	CHECKED	DLC	5/26/2006	64	USK		Gran		10 64030 RY AND)
	AUTHOR	DJR	3/15/2006	00	IICI	TA	3900 [reaves R	
	REV		DESCRI	PTION	BY	CHK	APVD	ECN	DATE	E
	D	COMPL	ETE REVISIO	Ŋ	CJD	SDL	MMM		3/2/1	8
	E	E COMPLETE REVISION			NS	RCG	JDS		9/27/2	23

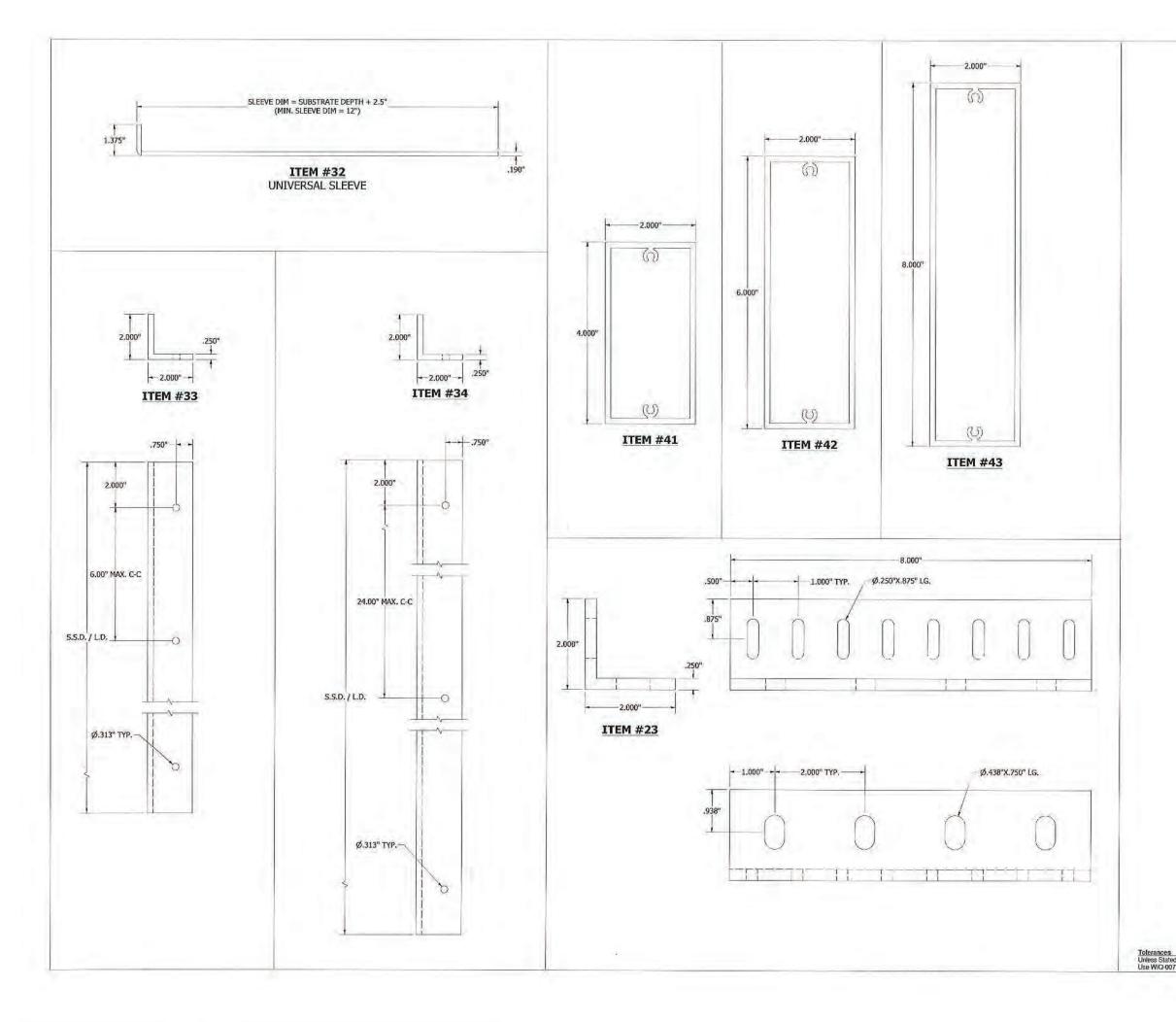


	E	COMPL	ETE REVISION	N	NS	RCG	JDS	1.0.0	9/27/23	
	D	COMPL	ETE REVISION	N	CJD	SDL	MMM		3/2/18	
	REV		DESCRI	PTION	BY	CHK	APVD	ECN	DATE	
	AUTHOR	DJR	3/15/2006	20	-		3900		Greaves Rd,	
	CHECKED	CHECKED DLC 5/26/20		CR	USK		Gran		MO 64030	
	APPROVE	APPROVED DLC 5/26/2006								
	APPROVED			PRODUCT	ELF	375DXD	LOUVER			
	EXTRUDED ALUMINUM			UNIVERSAL SLEEVE ASSEMBLY						
				SIZE D	DWG N	60-021902-00D				
therwise	ECN			SCALE NONE	INVE	MICR	SHEET	10 OF 1	4	









MIIIIIII LORID SSIONAL ENGINE 101 JEFFREY DEVON SMITH, P.E. NO. 91182 PRODUCT REVISEDas complying with the FloridaBuilding CodeNOA-No.24-0403.02 Expiration Date 01/03/2028 By______ Miami-Dade Product Control

	E	COMPL	ETE REVISIO	N		NS	RCG	JDS		9/27/23
	D	COMPL	ETE REVISIO	N		CJD	SDL	MMM		3/2/18
	REV		DESCRIP	TION		BY	CHK	APVD	ECN	DATE
	AUTHOR	DJR	3/15/2006							ireaves Rd,
	CHECKED DLC 5/26/2006			6	RU	SI		Gra	ndview, N OPRIETA	10 64030
	APPROVED DLC 5/26/2006									
	AFPROVED			PRODUCT ELF375DXD LOUVER						
	EXTRUDED ALUMINUM			INSTALLATION PART PROFILES						
				SIZE DWG NO 60-021902-00D						REV
d Otherwise 7	ECN			SCALE NONE		INVENTOR		SHEET 14 OF 14		and the second