



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

## NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**Reliable Products a div. of Ruskin Company**  
**1300 Enterprise Road (P.O. Box 580)**  
**Geneva, AL 36340**

### SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami-Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami-Dade County) and/ or the AHJ (in areas other than Miami-Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

### DESCRIPTION: Model 4375DC Aluminum Louver

**APPROVAL DOCUMENT:** Drawing No. **60-022136-00D**, titled "4375DC Louver", sheets 1 through 14 of 14, dated 11/11/2008, with revision **B** dated 01/25/2024, prepared by Reliable Products a div. of 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 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 # 22-1215.06** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



08/01/24

NOA-No. 24-0605.05  
Expiration Date: January 3, 2028  
Approval Date: August 8, 2024  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOAs**

**A. DRAWINGS “Submitted under NOA # 08-1202.04”**

1. Drawing No. **60-022136-01D, 02D, 03D, 04B, 05B**, titled “4375DC Louver”, sheets 1 through 5 of 5, dated 11/11/2008, prepared by Reliable Products, signed and sealed by Daniel J. Rau, P.E.

**B. TESTS “Submitted under NOA # 07-0621.07”**

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 4375DC Test Louver, prepared by National Certified Testing Laboratories, Test Report No. **210-3377-1**, dated 03/19/2007, signed and sealed by Gerard J. Ferrara, P.E.

**C. CALCULATIONS “Submitted under NOA # 07-0621.07”**

1. Louver and anchor calculations prepared, dated 05/14/2007 and 11/20/2007, signed and sealed by Daniel J. Rau, P.E.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS “Submitted under NOA # 12-0816.02”**

1. Test report on impact test of an ELF375DXD louver per AMCA 540, prepared, Test Report No. **053012E**, dated 05/30/2012, signed and sealed by Daniel J. Rau, P.E.

**F. STATEMENTS “Submitted under NOA # 13-0219.09”**

1. Statement letter of code conformance to 2010 FBC issued, dated 02/06/2013, signed and sealed by Daniel J. Rau, P.E.
2. No financial interest letter issued, dated 02/06/2013, signed and sealed by Daniel J. Rau, P.E.
3. Private label agreement dated 02/05/2013.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA-No. 24-0605.05**  
**Expiration Date: January 3, 2028**  
**Approval Date: August 8, 2024**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

**A. DRAWINGS “Submitted under NOA # 17-0222.01”**

1. Drawing No. **60-022136-00D**, titled “4375DC Louver”, sheets 1 through 11 of 11, dated 11/11/2008, with revision **A** dated 03/07/2018, prepared by Reliable Products, signed and sealed by Melissa M. Massar, P.E.

**B. TESTS “Submitted under NOA # 18-0201.08”**

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 203-94along 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.

**C. CALCULATIONS “Submitted under NOA # 18-0201.08”**

1. Louver wind load review prepared, dated 03/08/2018, signed and sealed by Melissa M. Massar, P.E.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS “Submitted under NOA # 18-0201.08”**

1. Statement letter of code conformance to the 6<sup>th</sup> edition (2017) FBC issued, dated 03/08/2018, signed and sealed by Melissa M. Massar, P.E.
2. Statement letter of no financial interest issued, dated 03/08/2018, signed and sealed by Melissa M. Massar, P.E.
3. 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.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA-No. 24-0605.05**  
**Expiration Date: January 3, 2028**  
**Approval Date: August 8, 2024**

**Reliable Products a div. of Ruskin Company**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. EVIDENCE SUBMITTED UNDER NOA # 17-0222.01 AND # 20-0909.09**

**A. DRAWINGS**

1. Drawing No. **60-022136-00D**, titled “4375DC Louver”, sheets 1 through 11 of 11, dated 11/11/2008, with revision **A** dated 03/07/2018, prepared by Reliable Products, signed and sealed by Melissa M. Massar, P.E.

**B. TESTS**

1. None.

**C. CALCULATIONS**

1. None.

**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 7<sup>th</sup> edition (2020) FBC issued by Reliable Products, dated 08/25/2020, signed and sealed by Melissa M. Massar, P.E.
2. Statement letter of no changes and not been affected by any changes in the 2020 FBC issued by Reliable Products, dated 08/25/2020, signed and sealed by Melissa M. Massar, P.E.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA-No. 24-0605.05**  
**Expiration Date: January 3, 2028**  
**Approval Date: August 8, 2024**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**4. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **60-022136-00D**, titled “4375DC Louver”, sheets 1 through 14 of 14, dated 11/11/2008, with revision **B** dated 01/25/2024, prepared by Reliable Products a div. of Ruskin Company, signed and sealed by Jeffrey D. Smith, P.E.

**B. TESTS “Submitted under NOA # 24-0403.02”**

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. None.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letter of code conformance to the 8<sup>th</sup> edition (2023) of the FBC, issued by Reliable Products a div. of Ruskin Company, dated 05/14/2024, signed and sealed by Jeffrey D. Smith, P.E.
2. Statement letter of no financial interest, issued by Reliable Products a div. of Ruskin Company, dated 05/14/2024, signed and sealed by Jeffrey D. Smith, P.E.



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Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA-No. 24-0605.05  
Expiration Date: January 3, 2028  
Approval Date: August 8, 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 CONNECTION 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	

TABLE 03 - SHIP LOOSE 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 CNTRS NK	.25" THK. EXTRUDED ALUM.	6063-T6
15	CLIP ANG 2 X 2 X 1/4 X 2" LG PUNCHED	.25" THK. EXTRUDED ALUM.	6063-T6
16	CLIP ANG 2 X 2 X 1/4 X 2" LG CNTRS NK	.25" THK. EXTRUDED ALUM.	6063-T6
17	SCREW #10-16 X 1 1/4" LG HWH	410 SS/ZC PLT	
18	SCREW #10-16 X 1 1/2" LG HWH	410 SS/ZC PLT	
19	SCR 1/4X1 HWH TEK	410 SS/ZC PLT	
20	FSNR KIT 3/8-16X3"LG W LOCKNUT	ZINC PLT	
21	STRUCTURAL ATTACHMENT ANGLE - HEAD/SILL	.375" THK. EXTRUDED ALUM.	6063-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	
25	ATTACHMENT ANGLE - JAMB	.25" THK. EXTRUDED ALUM.	6063-T6
26	CMU ATTACHMENT ANGLE - JAMB	.25" THK. FORMED ALUM.	3003-H14
27	1/4-20 X 1.5" LG. A307 GRADE A HHB W/WASHER & LOCKNUT	ZINC PLT	
28	SUBSTRATE FASTENER	REF TABLE 6/09 & 7/09	

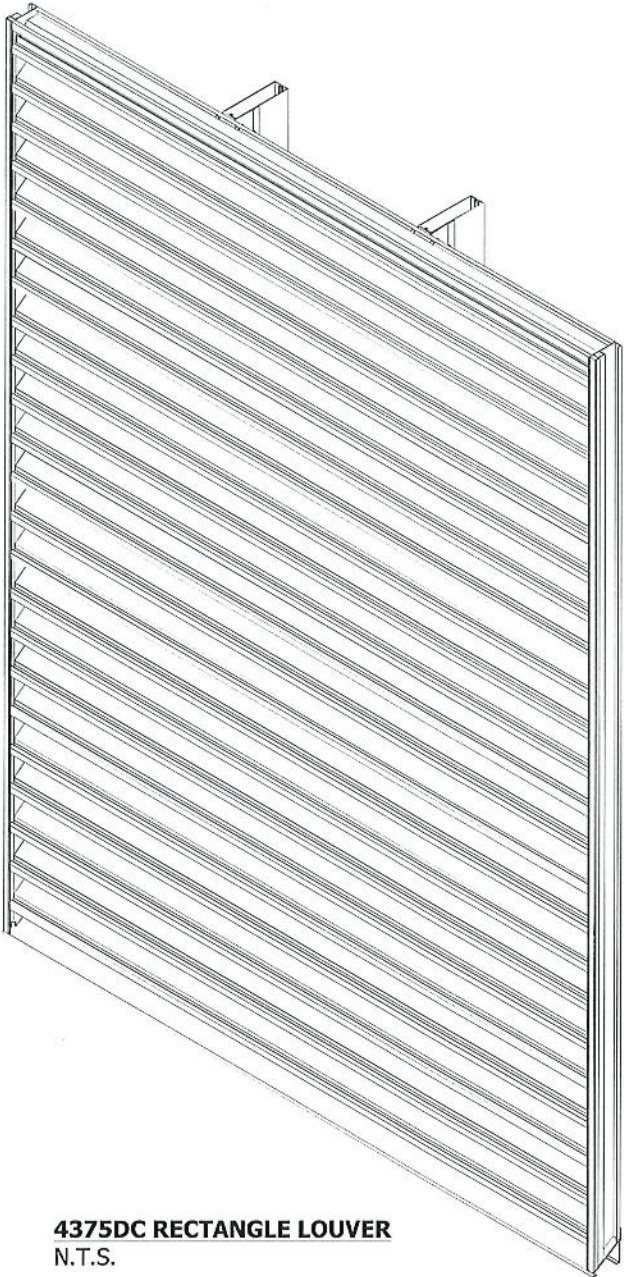
TABLE 04 - PARTS - UNIVERSAL SLEEVE INSTALL			
ITEM #	DESCRIPTION	MATERIAL	ALLOY
29	HEAD FRAME W INTEGRAL FLANGE (FF)	.080" THK. EXTRUDED ALUM.	6063-T6
30	SILL FRAME W INTEGRAL FLANGE (FF)	.125" THK. EXTRUDED ALUM.	6063-T6
31	JAMB FRAME W INTEGRAL FLANGE (FF)	.080" THK. EXTRUDED ALUM.	6063-T6
32	UNIVERSAL 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 2 HHB W/WASHER & LOCKNUT	ZINC PLT	

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



4375DC RECTANGLE LOUVER  
N.T.S.

NOTES:

- THE **4375DC** HAS BEEN TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PROTOCOLS **TAS-201, 202, & 203** FOR LARGE MISSILE IMPACT, UNIFORM PRESSURE AND CYCLIC WIND PRESSURE.
- 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.
- 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 RESISTANT/PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES.
- RELIABLE 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.
- MAXIMUM SINGLE SECTION SIZE: **90" WIDE X 120" HIGH**. UNLIMITED WIDTH CAN BE ACCOMPLISHED BY PLACING SINGLE SECTIONS SIDE-BY-SIDE.
- 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 LOUVER.
- 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. GROUT AND MORTAR MUST COMPLY WITH FBC.
- ALL WELDED ATTACHMENTS REQUIRE A MINIMUM FILLER OF 4043 ALUMINUM ALLOY WITH MINIMUM TENSILE STRENGTH OF 24KSI.
- SQUARE BALLOONS INDICATE SHIP LOOSE PARTS.**

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



JEFFREY SMITH, P.E.  
NO. 91182

**PRODUCT REVISED**  
**as complying with the Florida**  
**Building Code**  
**NOA-No.** 24-0605.05

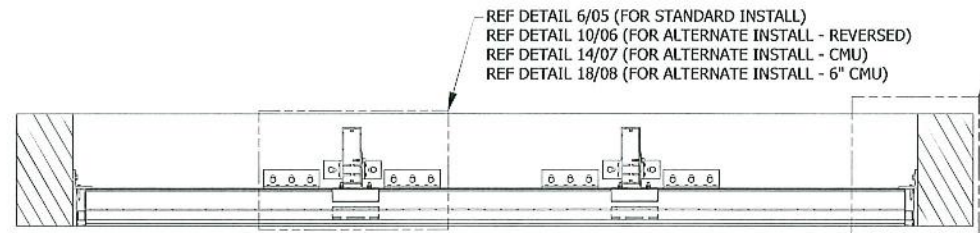
**Expiration Date** 01/03/2028

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

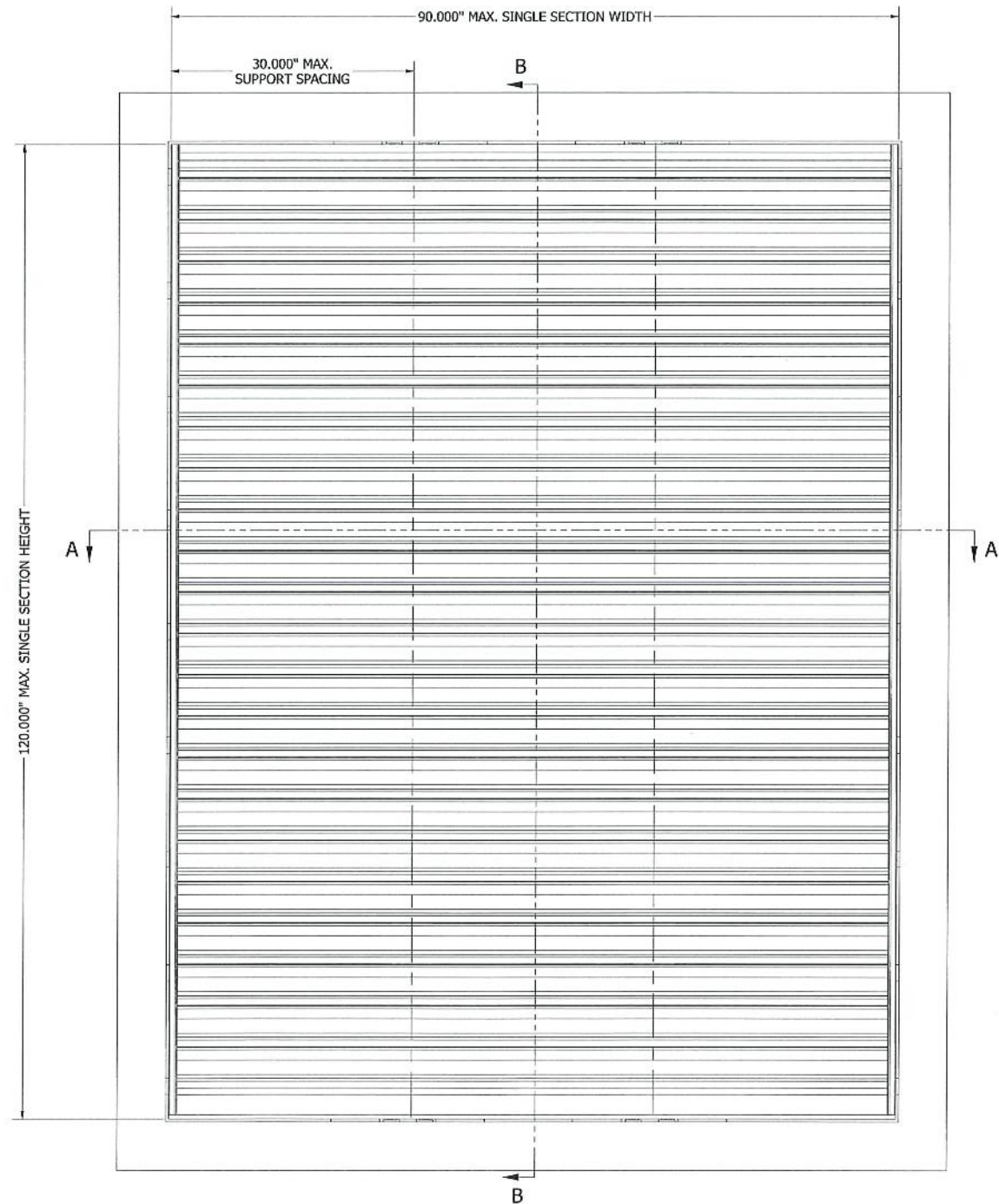
Tolerances  
Unless Stated Otherwise  
Use WIC-007

B	COMPLETE REVISION		NS	JDS	JDS		1/25/24
A	COMPLETE REVISION		CJD	SDL	MMM		3/7/18
REV	DESCRIPTION		BY	CHK	APVD	ECN	DATE
AUTHOR	VMA	11/3/2008			1300 Enterprise Road, Geneva, AL 36340		
CHECKED	DJR	11/11/2008			PROPRIETARY AND CONFIDENTIAL		
APPROVED	DJR	11/11/2008					
APPROVED							
MATERIAL EXTRUDED ALUMINUM		PRODUCT		4375DC LOUVER			
		TITLE		STANDARD LOUVER SPECIFICATIONS			
		SIZE D	DWG NO		60-022136-00D		REV B
ECN		SCALE	NONE		INVENTOR		SHEET 1 of 14





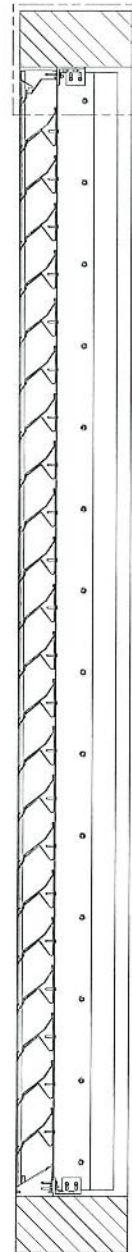
SECTION A-A



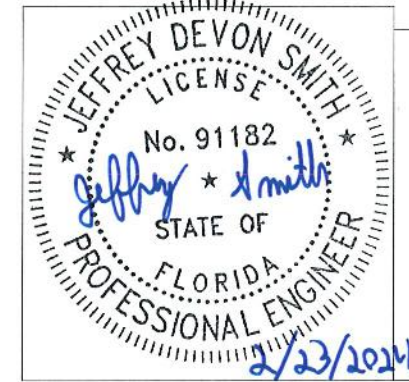
**SINGLE SECTION - CHANNEL FRAME LOUVER**  
SUBSTRATE & INSTALL PARTS NOT SHOWN FOR CLARITY

REF DETAIL 9/05 (FOR STANDARD INSTALL)  
REF DETAIL 13/06 (FOR ALTERNATE INSTALL - REVERSED)  
REF DETAIL 17/07 (FOR ALTERNATE INSTALL - CMU)

REF DETAIL 8/05 (FOR STANDARD INSTALL)  
REF DETAIL 12/06 (FOR ALTERNATE INSTALL - REVERSED)  
REF DETAIL 16/07 (FOR ALTERNATE INSTALL - CMU)  
REF DETAIL 20/08 (FOR ALTERNATE INSTALL - 6\"/>



SECTION B-B



JEFFREY SMITH, P.E.  
NO. 91182

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 24-0605.05  
Expiration Date 01/03/2028  
By *[Signature]*  
Miami-Dade Product Control

B	COMPLETE REVISION		NS	JDS	JDS	1/25/24			
A	COMPLETE REVISION		CJD	SDL	MMM	3/7/18			
REV	DESCRIPTION		BY	CHK	APVD	ECN	DATE		
AUTHOR	VMA	11/3/2008	 1300 Enterprise Road, Genova, AL 36340 PROPRIETARY AND CONFIDENTIAL						
CHECKED	DJR	11/11/2008							
APPROVED	DJR	11/11/2008							
APPROVED									
MATERIAL	EXTRUDED ALUMINUM		PRODUCT				4375DC LOUVER		
			TITLE				SINGLE SECTION (CF) ASSEMBLY & DETAILS		
			SIZE D		DWG NO		60-022136-00D	REV B	
ECN			SCALE		NONE		INVENTOR		SHEET 2 of 14

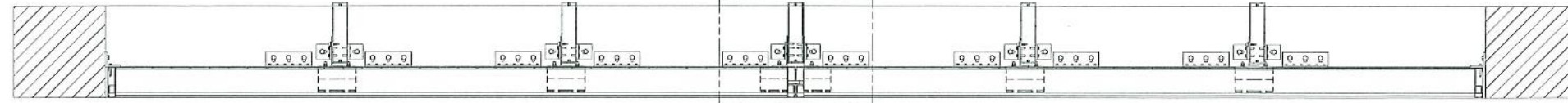
Tolerances  
Unless Stated Otherwise  
Use WIG-007



1300 Enterprise Road,  
Geneva, AL 36340  
PROPRIETARY AND  
CONFIDENTIAL



REF DETAIL 7/05 (FOR STANDARD INSTALL)  
REF DETAIL 11/06 (FOR ALTERNATE INSTALL - REVERSED)  
REF DETAIL 15/07 (FOR ALTERNATE INSTALL - CMU)  
REF DETAIL 19/08 (FOR ALTERNATE INSTALL - 6" CMU)

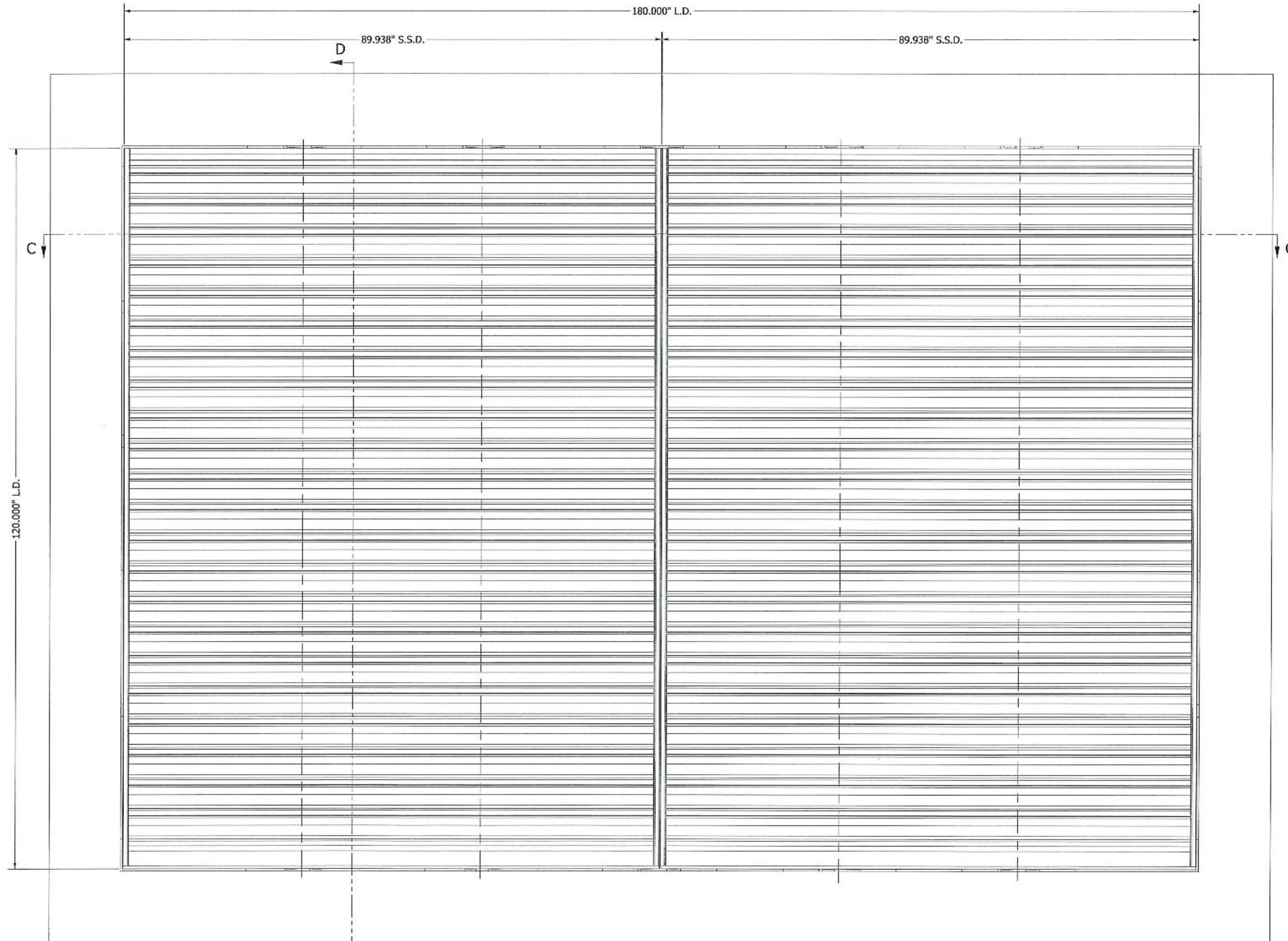


SECTION C-C

180.000" L.D.

89.938" S.S.D.

89.938" S.S.D.



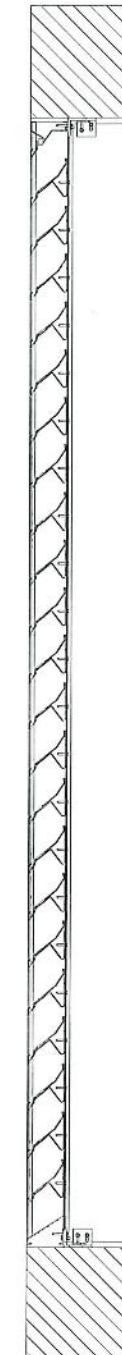
120.000" L.D.

C

C

D

**MULTI-SECTION ASSEMBLY - CHANNEL FRAME LOUVER**  
UNLIMITED WIDE X 120" H (180" W X 120" H SHOWN FOR CLARITY)



SECTION D-D

Tolerances  
Unless Stated Otherwise  
Use WIG-007

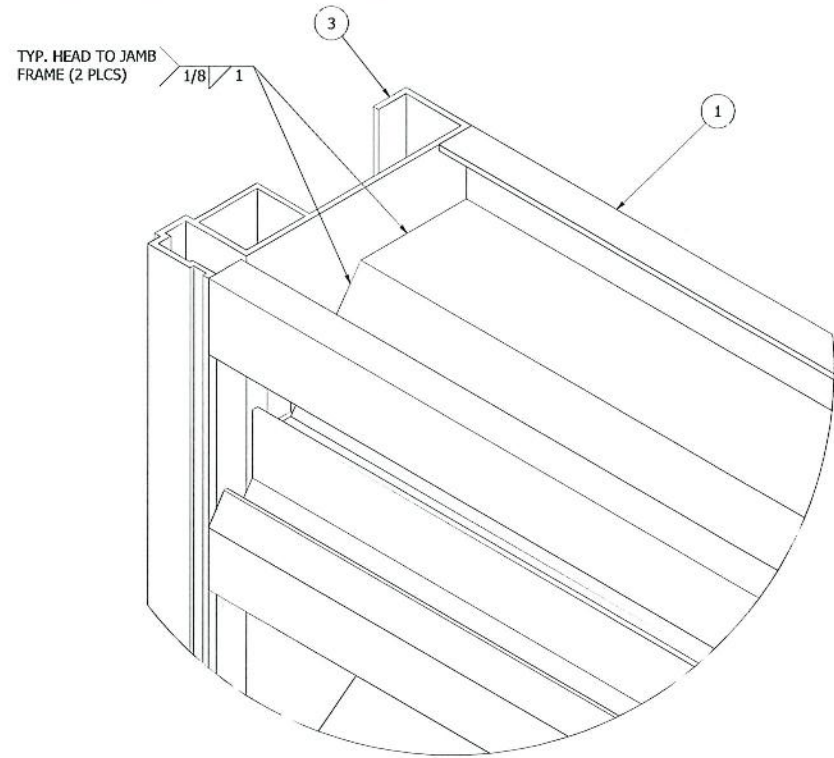


JEFFREY DEVON SMITH, P.E.  
NO. 91182

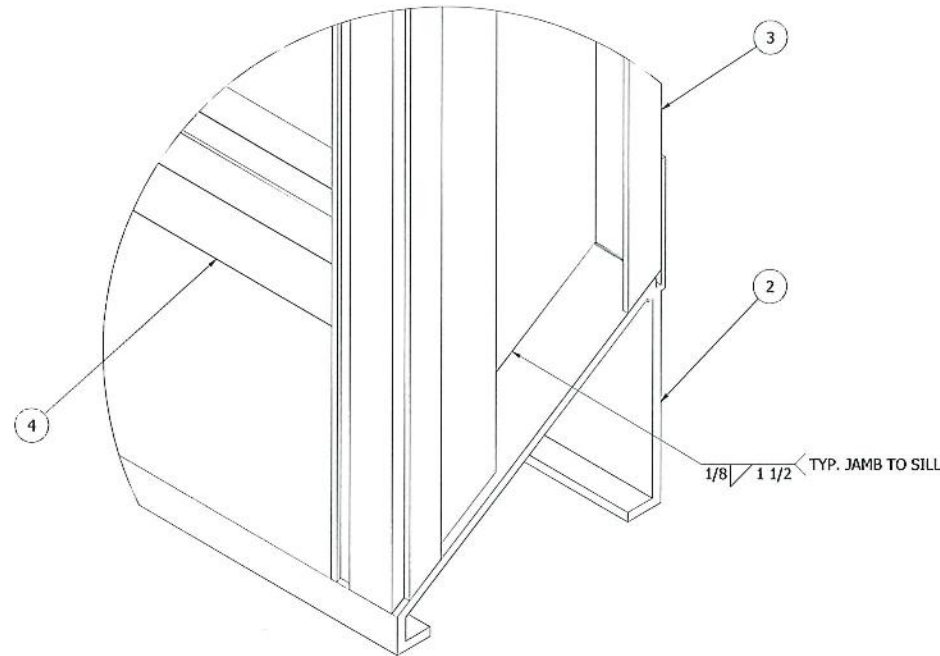
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 24-0605.05  
Expiration Date 01/03/2028  
By *[Signature]*  
Miami-Dade Product Control

B	COMPLETE REVISION	NS	JDS	JDS		1/25/24
A	COMPLETE REVISION	CJD	SDL	MMM		3/7/18
REV	DESCRIPTION	BY	CHK	APVD	ECN	DATE
AUTHOR	VMA	11/3/2008				
CHECKED	DJR	11/11/2008				
APPROVED	DJR	11/11/2008				
APPROVED						
MATERIAL	EXTRUDED ALUMINUM					
PRODUCT	4375DC LOUVER					
TITLE	MULTI-SECTION (CF) ASSEMBLY					
SIZE	D	DWG NO	60-022136-00D			REV B
SCALE	NONE	INVENTOR				SHEET 3 OF 14

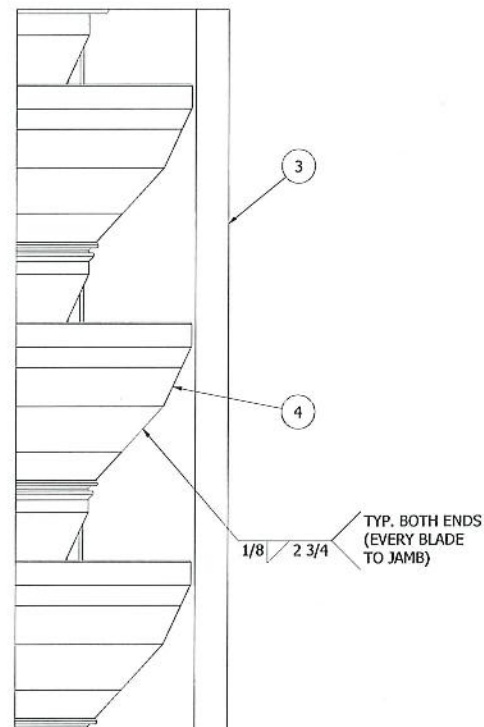




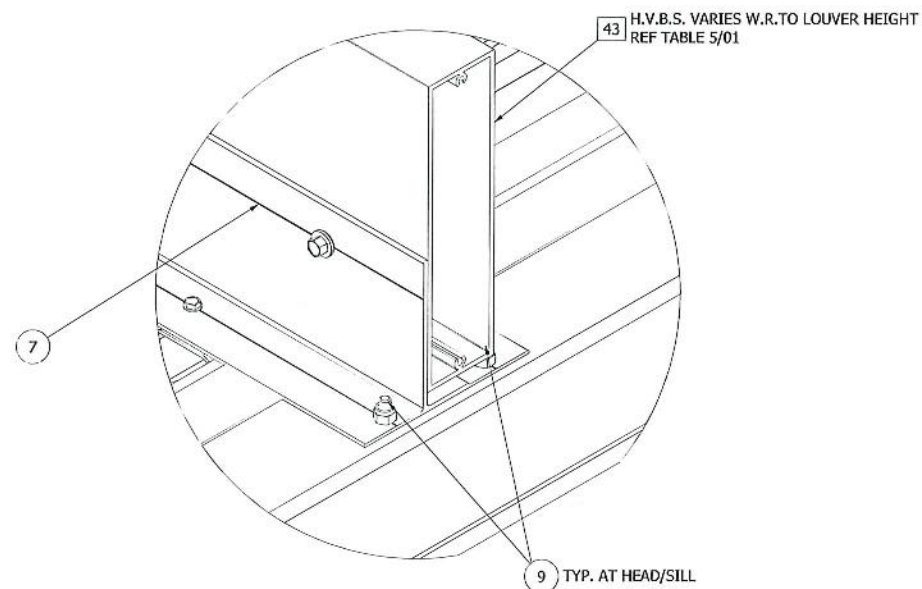
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-  
HEAD FRAME CONNECTION DETAIL



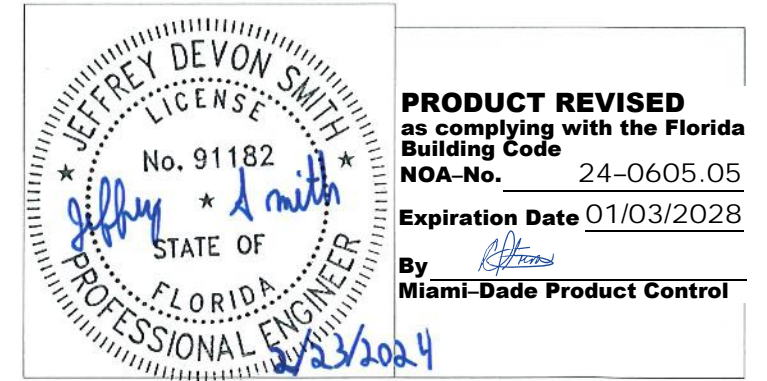
2  
-  
SILL FRAME CONNECTION DETAIL



3  
-  
BLADE ATTACHMENT DETAIL

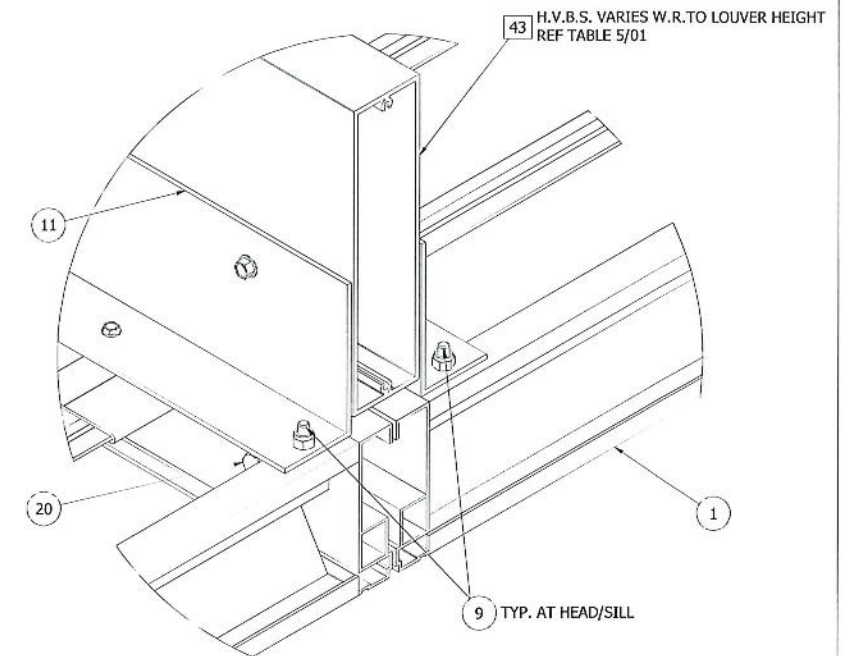


4  
-  
H.V.B.S. ATTACHMENT DETAIL



JEFFREY SMITH, P.E.  
NO. 91182

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NOA-No. 24-0605.05  
Expiration Date 01/03/2028  
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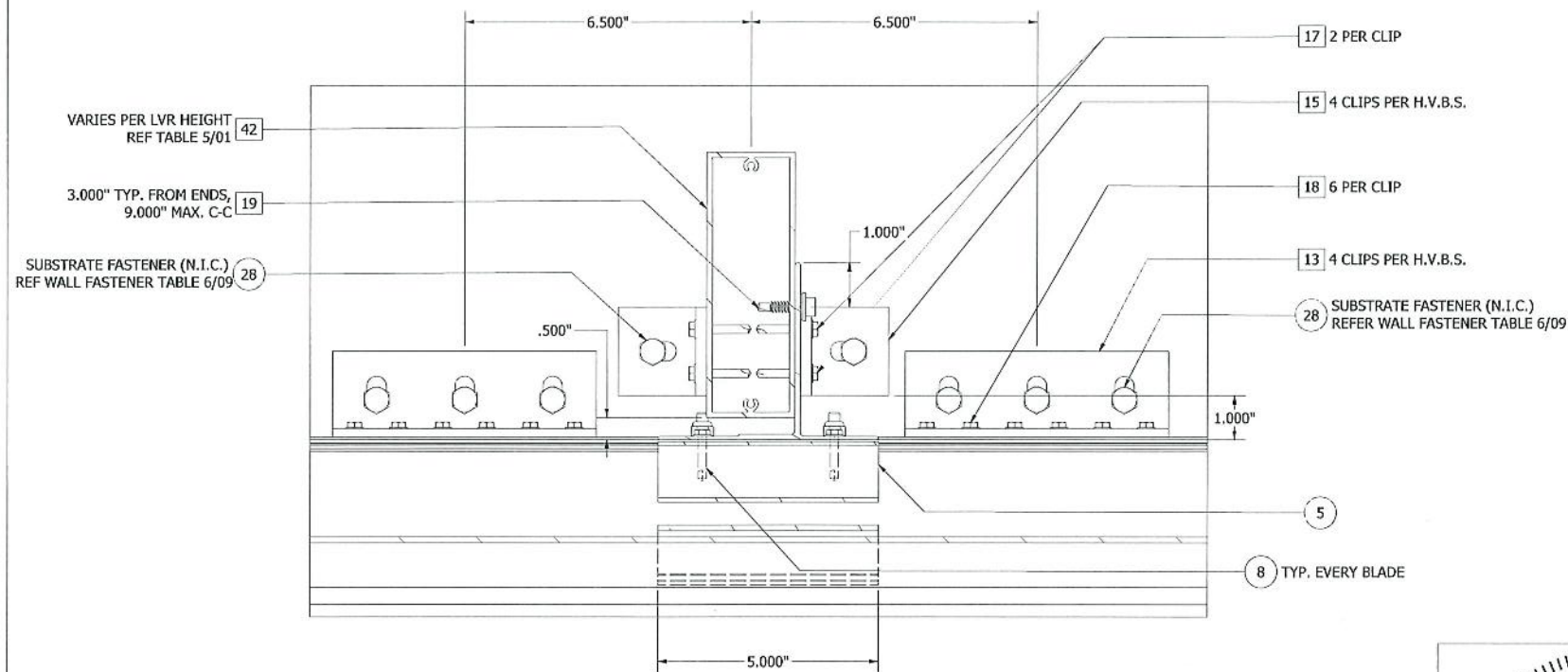


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MULLION SUPPORT ATTACHMENT DETAIL

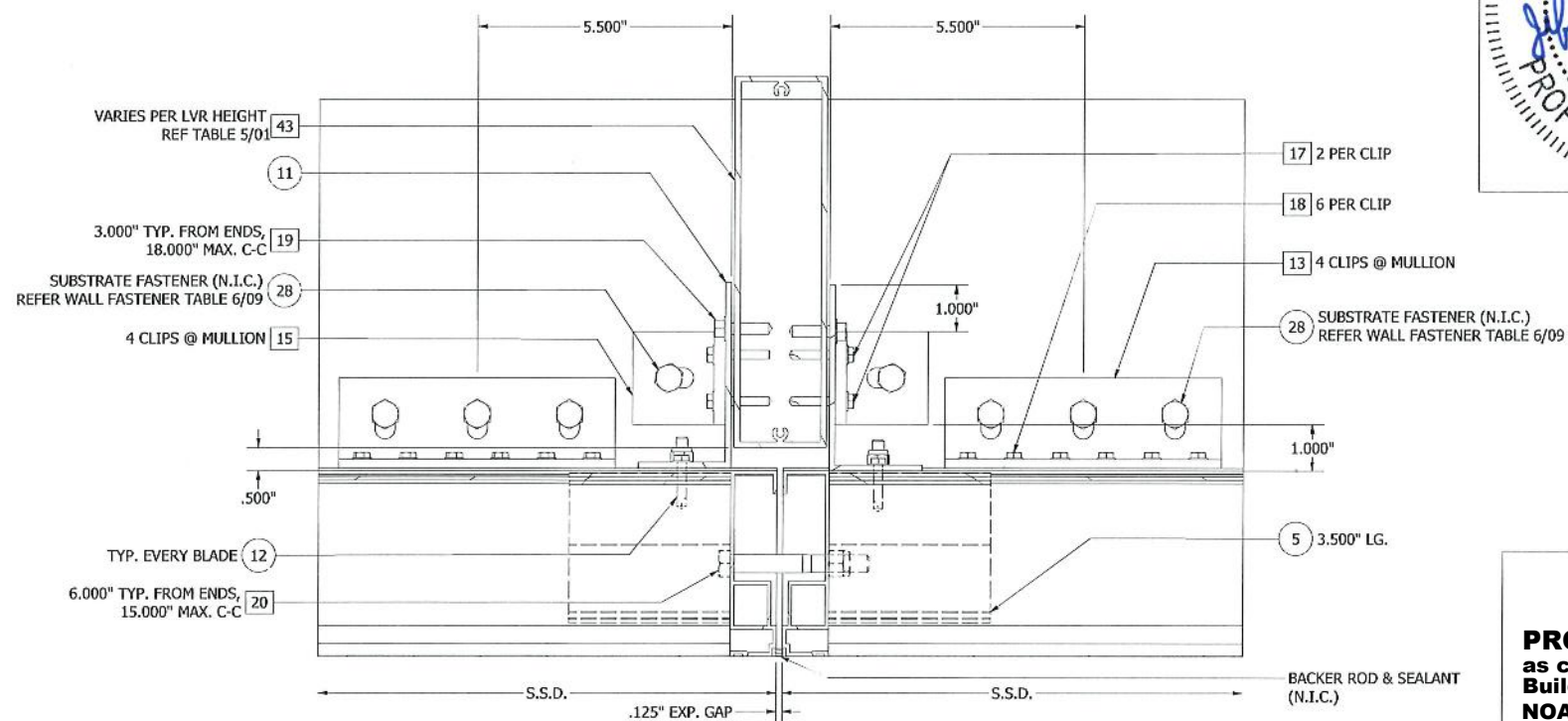
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A	COMPLETE REVISION		CJD	SDL	MMM	3/7/18		
REV	DESCRIPTION		BY	CHK	APVD	ECN	DATE	
AUTHOR	VMA	11/3/2008	<div><p>1300 Enterprise Road, Geneva, AL 36340 PROPRIETARY AND CONFIDENTIAL</p></div>					
CHECKED	DJR	11/11/2008						
APPROVED	DJR	11/11/2008						
APPROVED								
MATERIAL	EXTRUDED ALUMINUM		PRODUCT	437SDC LOUVER				
			TITLE	STANDARD LOUVER BUILD DETAILS				
			SIZE	D	DWG NO	60-022136-00D	REV	B
ECN			SCALE	NONE		INVENTOR	SHEET 4 OF 14	

Tolerances  
Unless Stated Otherwise  
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**6**  
**02** H.V.B.S. ATTACHMENT DETAIL @ HEAD/SILL  
(WOOD/METAL/CONCRETE)

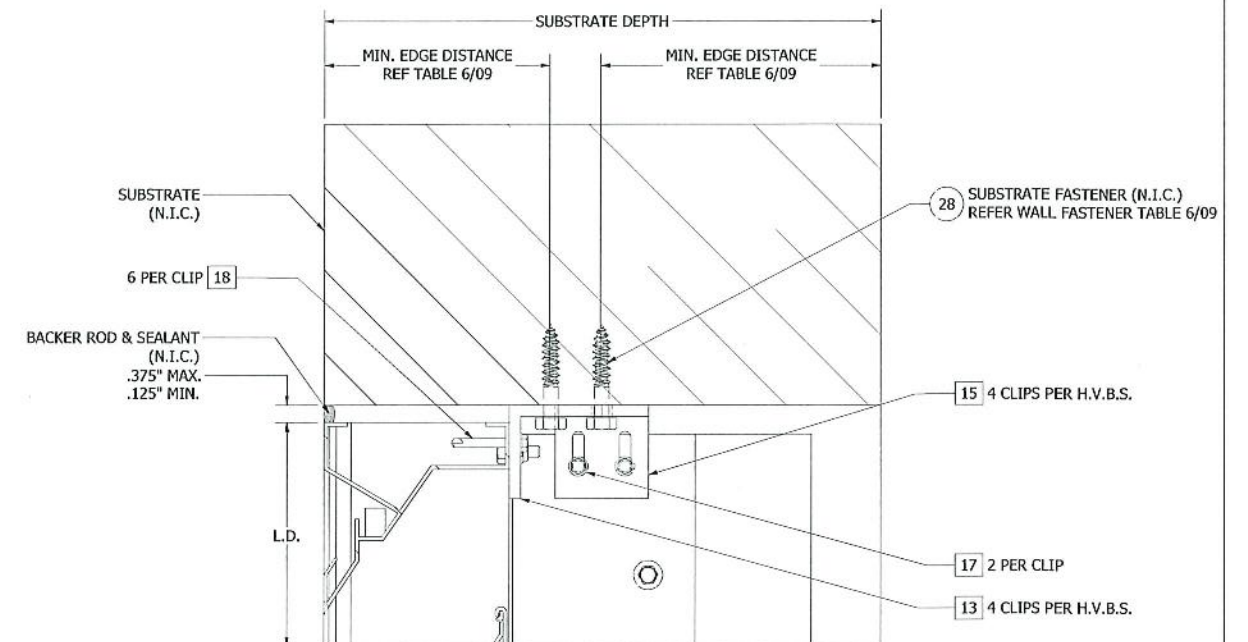


**7**  
**03** MULLION ATTACHMENT DETAIL @ HEAD/SILL  
(WOOD/METAL/CONCRETE)

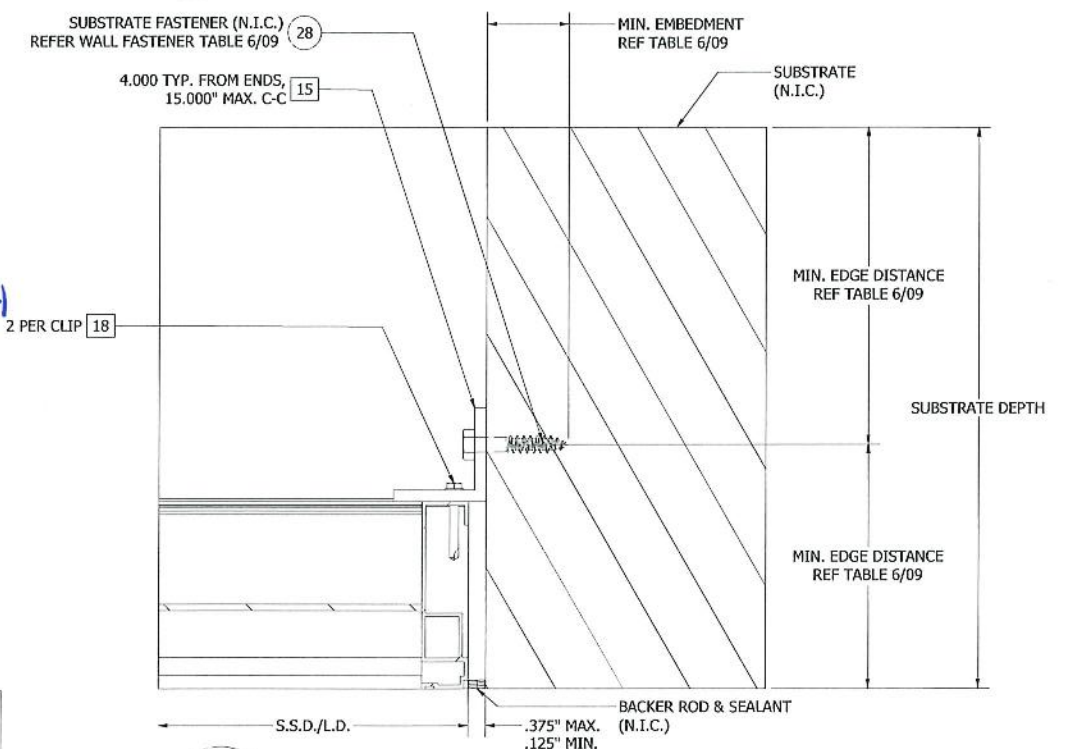


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NO. 91182

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Expiration Date 01/03/2028  
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**8**  
**02** H.V.B.S. ATTACHMENT DETAIL @ HEAD/SILL  
(WOOD/METAL/CONCRETE)

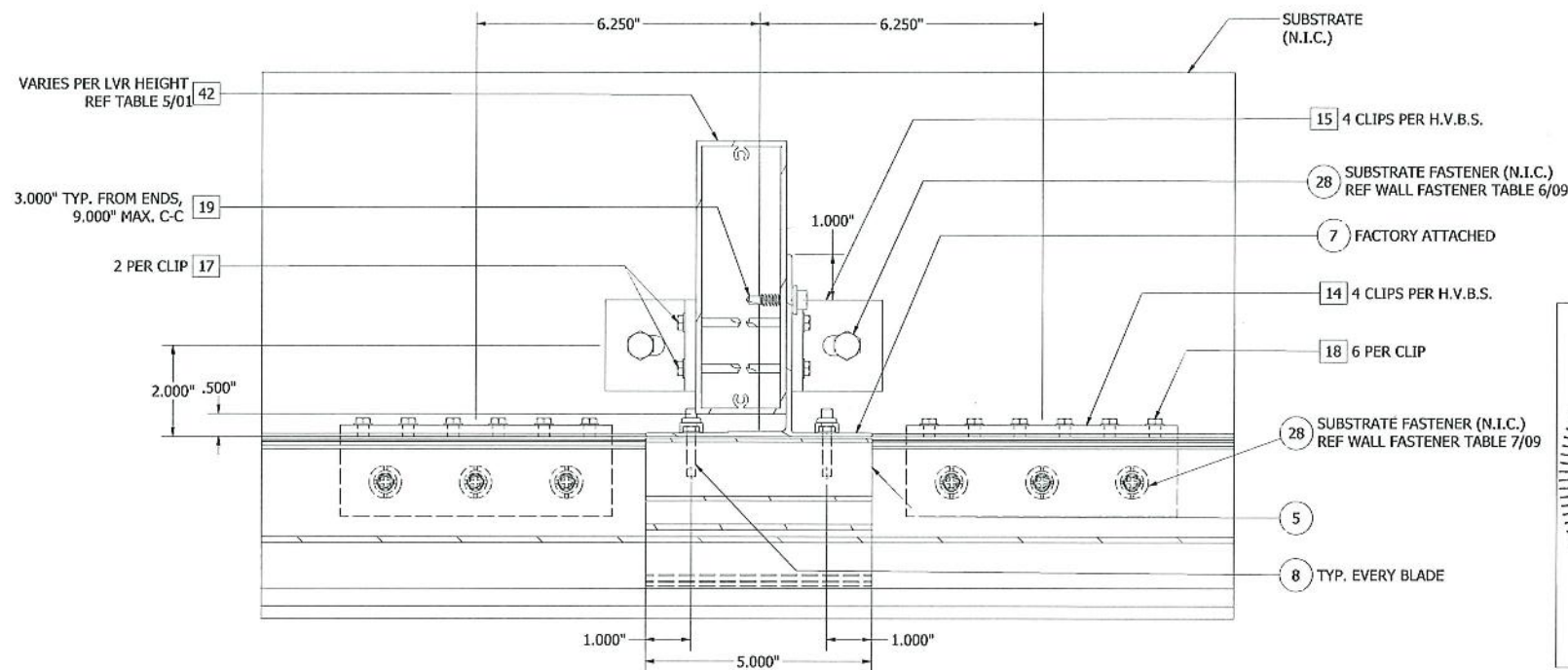


**9**  
**02** JAMB ATTACHMENT DETAIL  
(WOOD/METAL/CONCRETE/10" & 12" CMU)

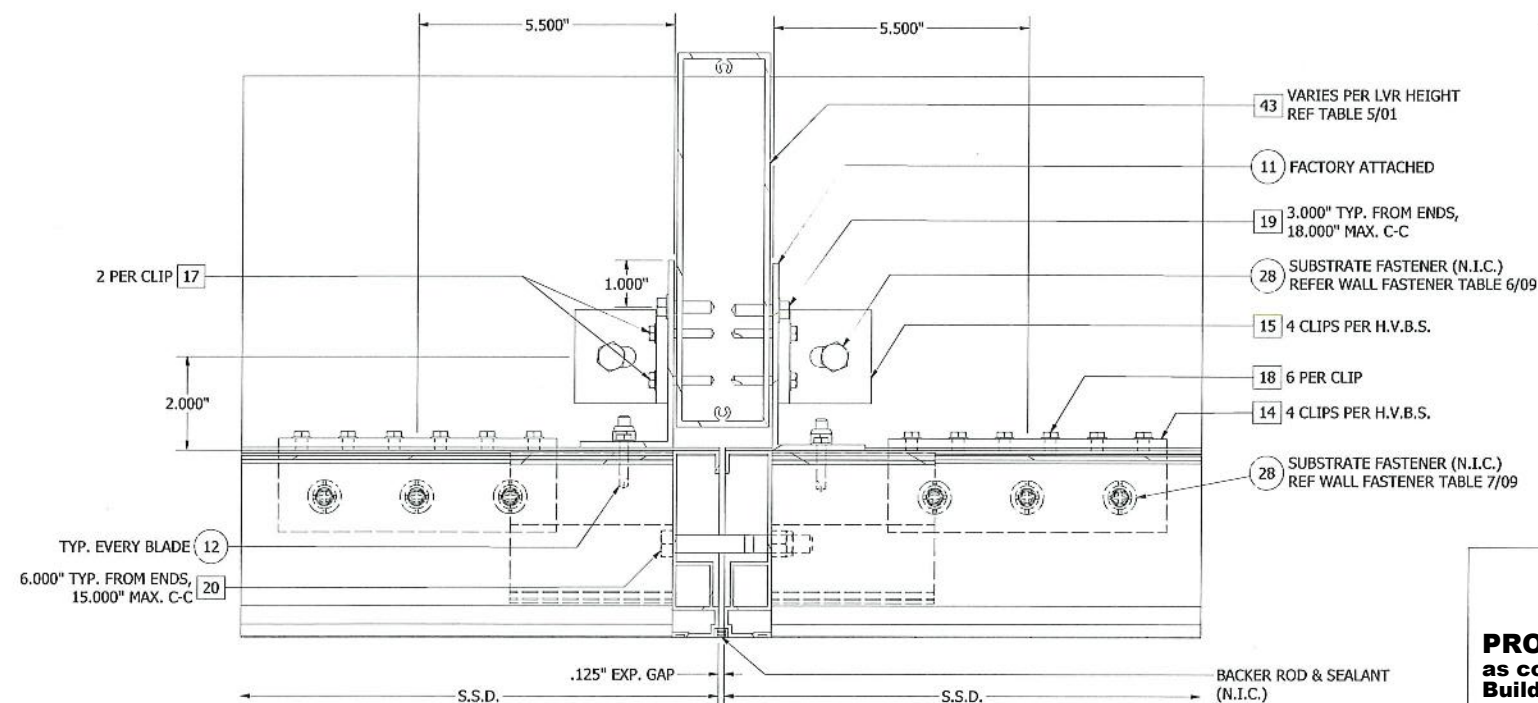
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A	COMPLETE REVISION	CJD	SDL	MMM	3/7/18
REV	DESCRIPTION	BY	CHK	APVD	ECN
AUTHOR	VMA	11/3/2008			
CHECKED	DJR	11/11/2008			
APPROVED	DJR	11/11/2008			
MATERIAL	EXTRUDED ALUMINUM				
PRODUCT	4375DC LOUVER				
TITLE	STANDARD INSTALLATION DETAILS				
SIZE	D	DWG NO	60-022136-00D	REV	B
ECN		SCALE	NONE	INVENTOR	SHEET 5 OF 14

Tolerances  
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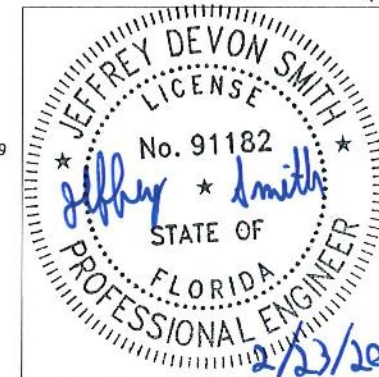




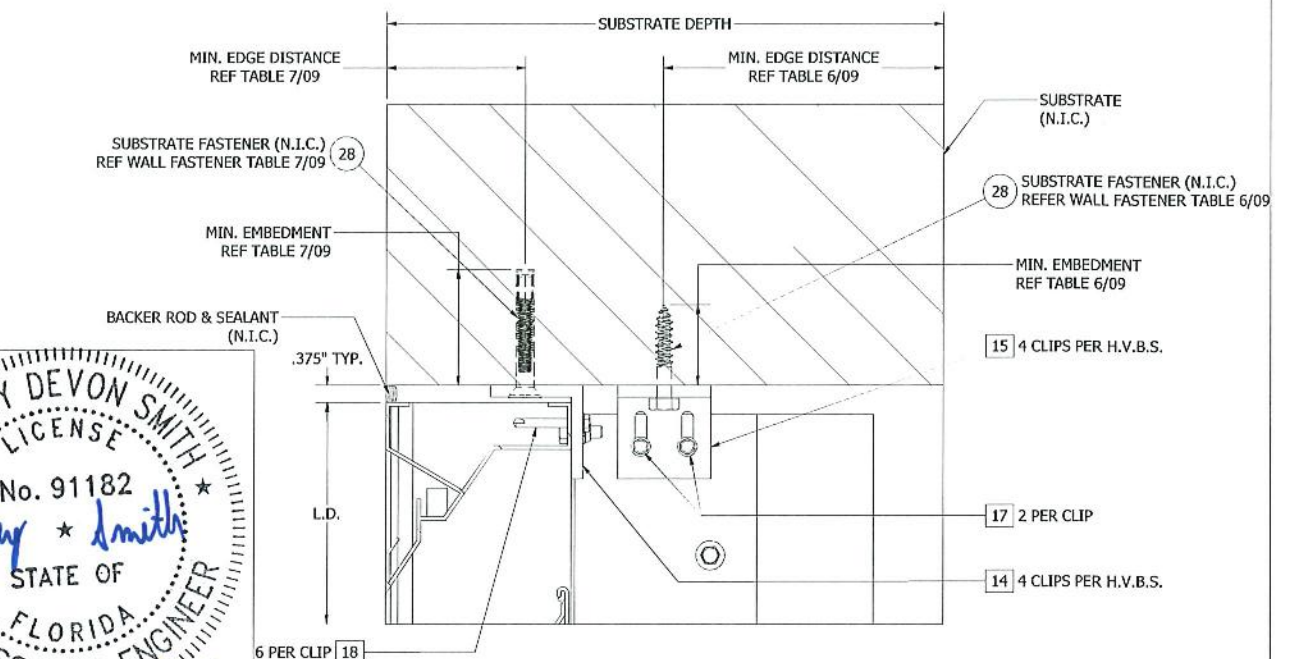
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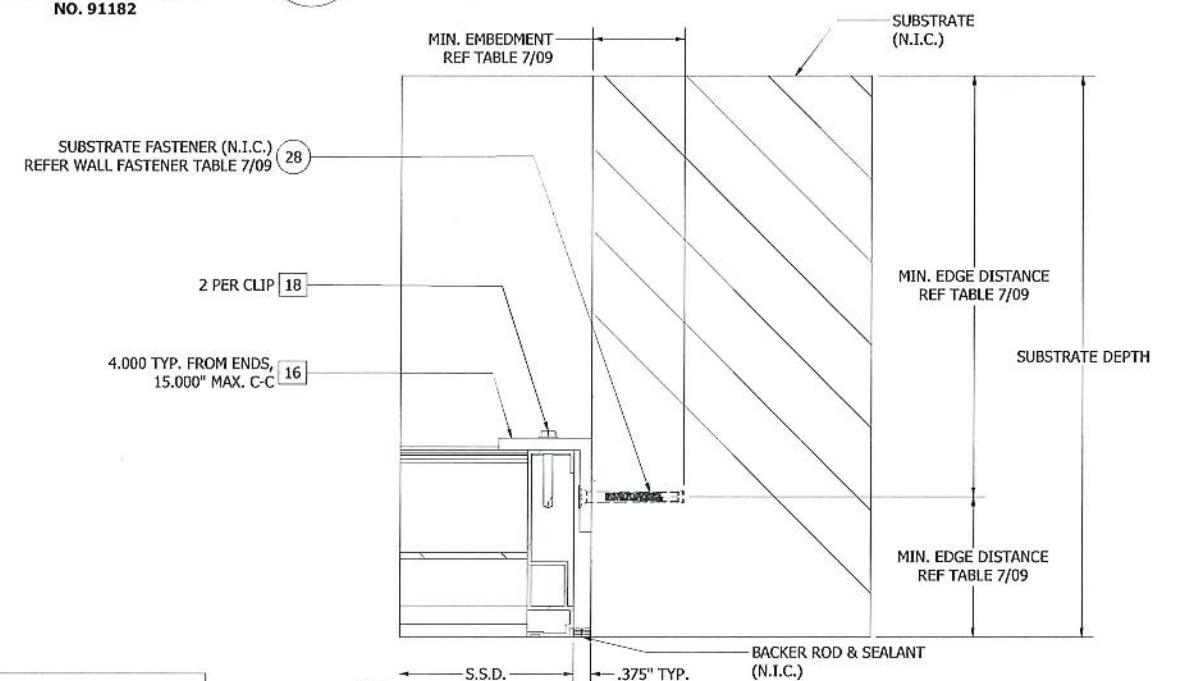
**11  
03** ALTERNATE MULLION ATTACHMENT DETAIL @ HEAD/SILL  
(WOOD/METAL/CONCRETE)



JEFFREY DEVON SMITH, P.E.  
NO. 91182



**12  
02** ALTERNATE H.V.B.S. ATTACHMENT DETAIL @ HEAD/SILL  
(WOOD/METAL/CONCRETE)



**13  
02** ALTERNATE JAMB ATTACHMENT DETAIL  
(WOOD/METAL/CONCRETE/10\"/>

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NOA-No. 24-0605.05

Expiration Date 01/03/2028

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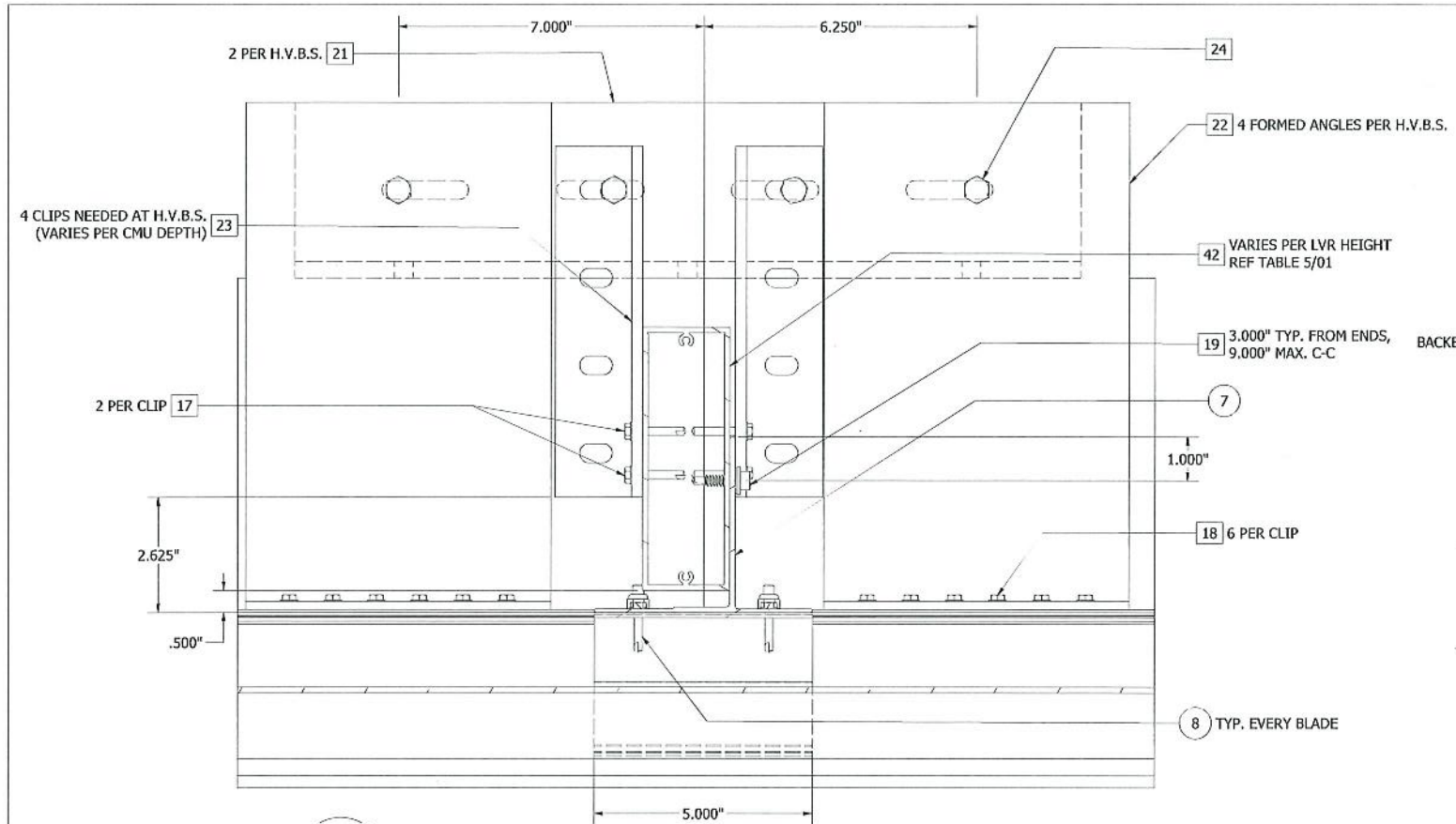
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A	COMPLETE REVISION	CJD	SDL	MMM	3/7/18
REV	DESCRIPTION	BY	CHK	APVD	ECN
AUTHOR	VMA	11/3/2008			
CHECKED	DJR	11/11/2008			
APPROVED	DJR	11/11/2008			
MATERIAL	EXTRUDED ALUMINUM				
SIZE	D	DWG NO	60-022136-00D	REV	B
SCALE	NONE	INVENTOR		SHEET	6 OF 14

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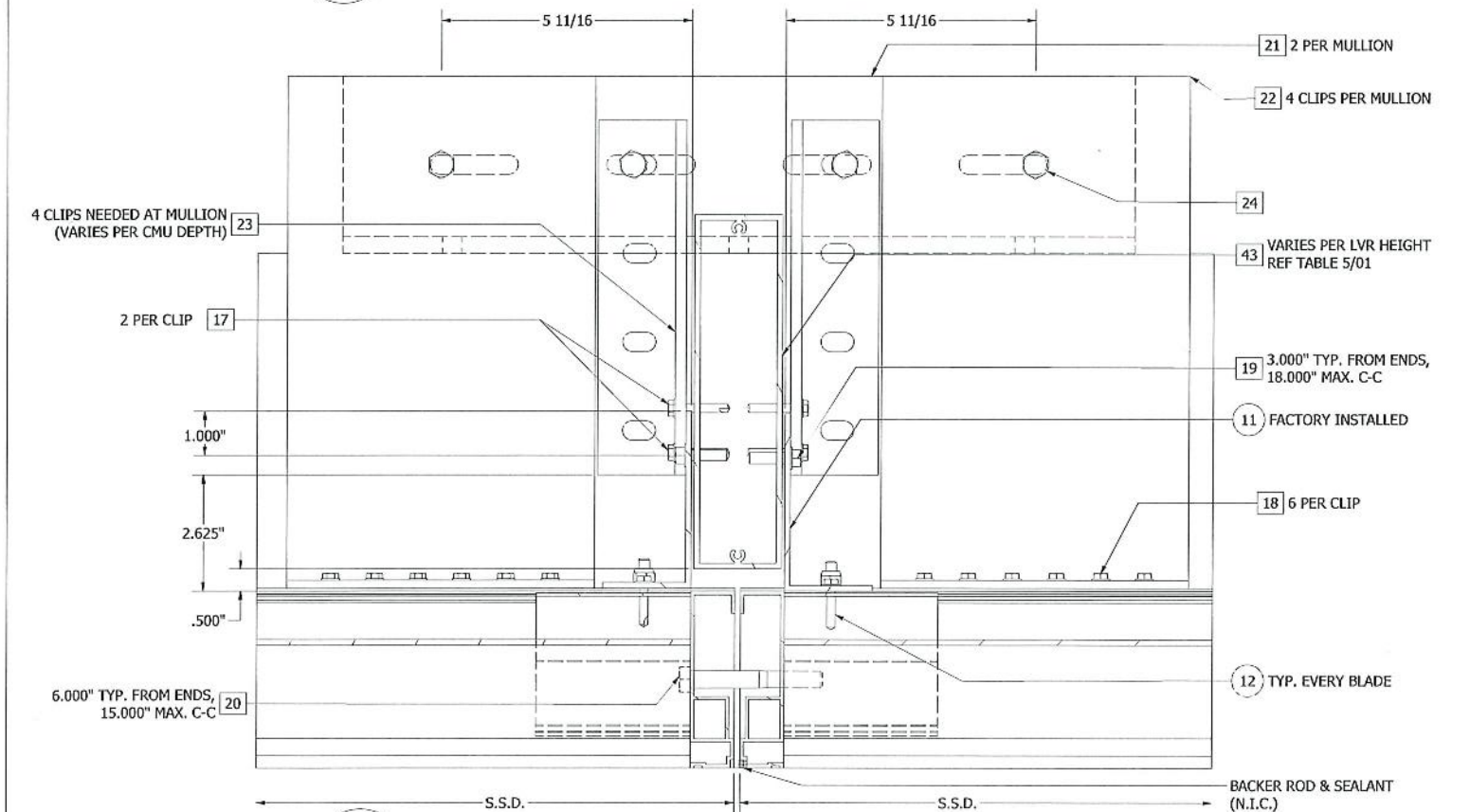
PRODUCT 4375DC LOUVER

TITLE ALTERNATE INSTALLATION DETAILS - REVERSED

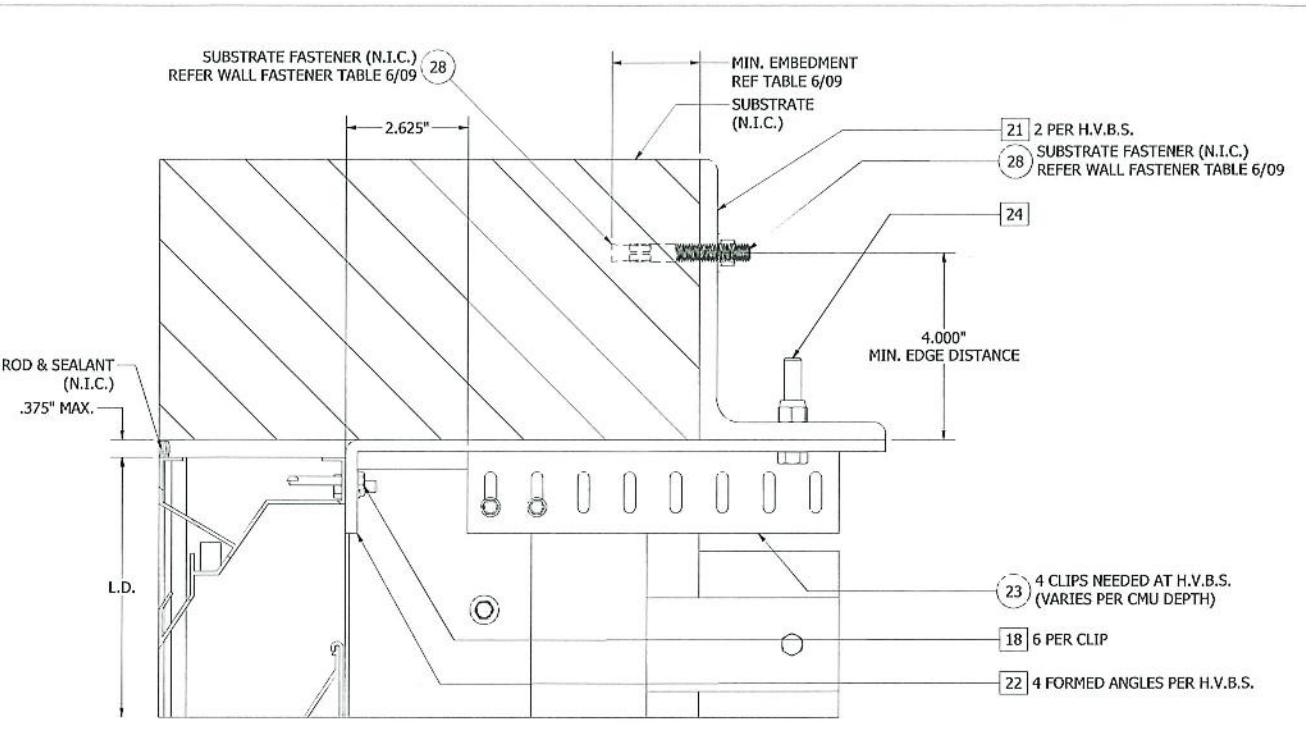




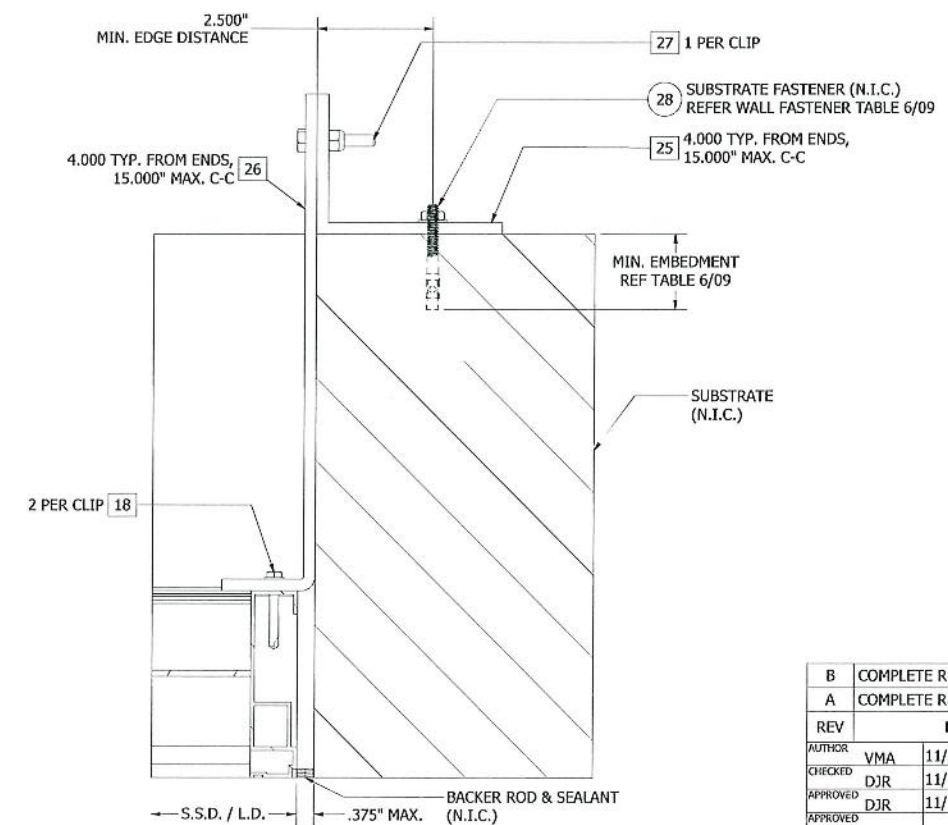
**14**  
**02** ALTERNATE H.V.B.S. ATTACHMENT DETAIL @ HEAD/SILL  
(> 6" CMU)



**15**  
**03** ALTERNATE MULLION ATTACHMENT DETAIL @ HEAD/SILL  
(> 6" CMU)



**16**  
**02** ALTERNATE H.V.B.S. ATTACHMENT DETAIL @ HEAD/SILL  
(> 6" CMU)



**17**  
**02** ALTERNATE JAMB ATTACHMENT DETAIL  
(CMU SUBSTRATE - 8" CMU OR SMALLER)



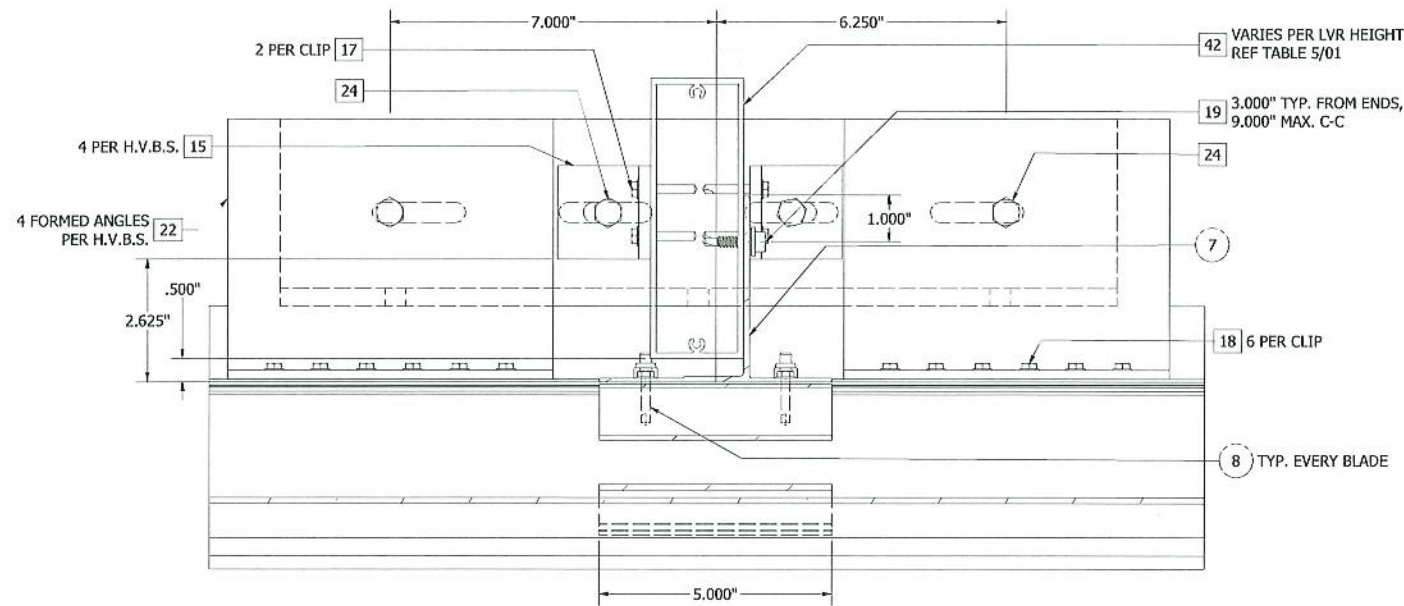
JEFFREY DEVON SMITH, P.E.  
NO. 91182

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Expiration Date 01/03/2028  
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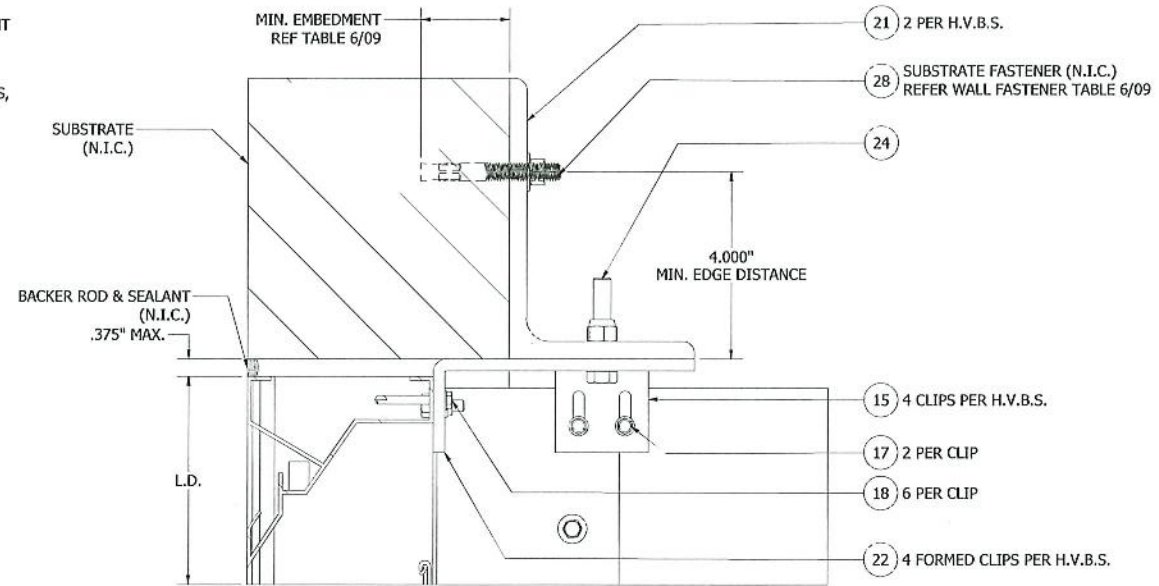
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A	COMPLETE REVISION		CJD	SDL	MMM	3/7/18	
REV	DESCRIPTION		BY	CHK	APVD	ECN	DATE
AUTHOR	VMA	11/3/2008				1300 Enterprise Road, Geneva, AL 36340 PROPRIETARY AND CONFIDENTIAL	
CHECKED	DJR	11/11/2008					
APPROVED	DJR	11/11/2008					
APPROVED							
MATERIAL		PRODUCT	4375DC LOUVER				
EXTRUDED ALUMINUM		TITLE	ALTERNATE INSTALLATION DETAILS (>6" CMU)				
ECN		SIZE	DWG NO	60-022136-00D			REV
		D				B	
		SCALE	NONE		INVENTOR	SHEET 7 of 14	

Tolerances  
Unless Stated Otherwise  
Use WIG-007

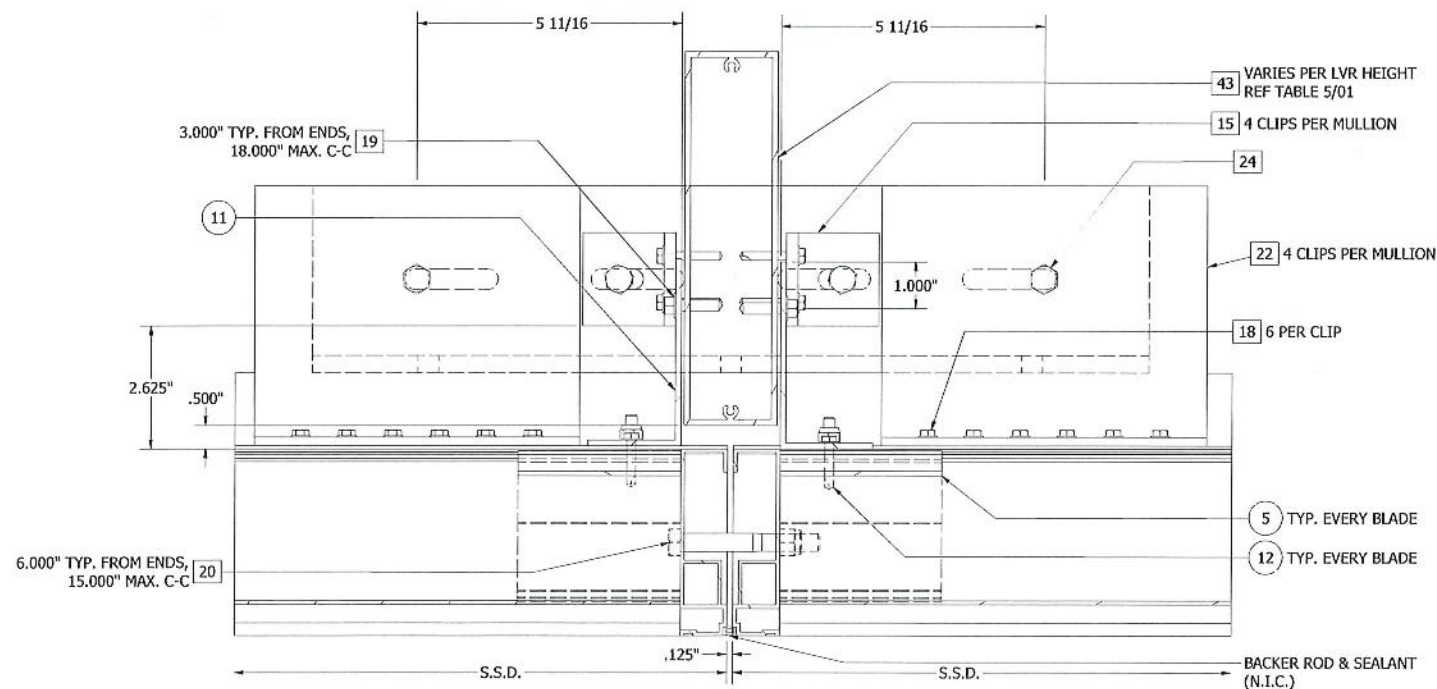




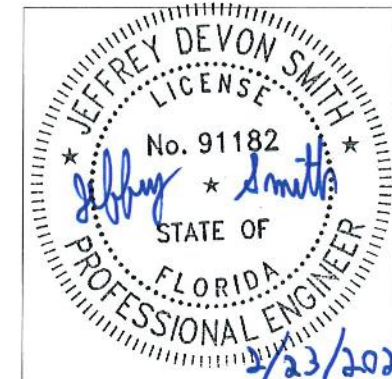
18  
02 ALTERNATE H.V.B.S. ATTACHMENT DETAIL @ HEAD/SILL  
(6" CMU)



20  
02 ALTERNATE H.V.B.S. ATTACHMENT DETAIL @ HEAD/SILL  
(6" CMU)



19  
03 ALTERNATE MULLION ATTACHMENT DETAIL @ HEAD/SILL  
(6" CMU)



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NO. 91182

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B	COMPLETE REVISION	NS	JDS	JDS		1/25/24
A	COMPLETE REVISION	CJD	SDL	MMM		3/7/18
REV	DESCRIPTION	BY	CHK	APVD	ECN	DATE
AUTHOR	VMA	11/3/2008				
CHECKED	DJR	11/11/2008				
APPROVED	DJR	11/11/2008				
PRODUCT		4375DC LOUVER				
MATERIAL		EXTRUDED ALUMINUM				
TITLE		ALTERNATE INSTALLATION DETAILS - 6" CMU				
SIZE		D		DWG NO 60-022136-00D		
ECN		SCALE		NONE		
		INVENTOR		SHEET 8 OF 14		

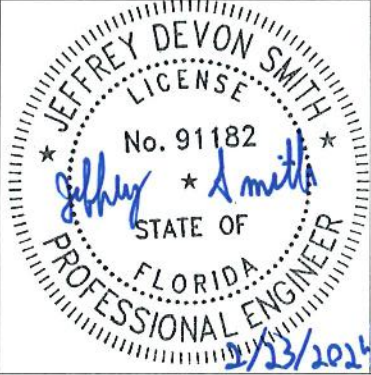
Tolerances  
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TABLE 06 - 4375DC - WALL FASTENER TABLE (N.I.C.)						
SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	LOCATION	FASTENER TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE	FASTENER QTY
WOOD	SPECIFIC GRAVITY = 0.4	HVBS/MULLION SUPPORT	3/8" Ø A307 STEEL/STAINLESS STEEL BOLT, WASHER & LOCKNUT	3 THREADS BEYOND NUT	2 1/2"	1 PER 6" LG. ANGLE
			3/8" Ø X 2" LONG LAG SCREW, A307 STEEL/STAINLESS STEEL	1 3/4"	2 1/2"	3 PER 6" LG. ANGLE
		JAMBS	1/4" Ø A307 STEEL/STAINLESS STEEL BOLT, WASHER & LOCKNUT	3 THREADS BEYOND NUT	2 1/2"	1 PER 2" LG. ANGLE
			3/8" Ø X 2" LONG LAG SCREW, A307 STEEL	1 3/4"	2 1/2"	1 PER 2" LG. ANGLE
STEEL & ALUMINUM	STEEL - MIN. 14 GA ALUMINUM - MIN. 1/8" THICK	HVBS/MULLION SUPPORT	3/8" Ø A307 STEEL/STAINLESS STEEL BOLT, WASHER & LOCKNUT	3 THREADS BEYOND NUT	3/4"	1 PER 6" LG. ANGLE
			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
		JAMBS	1/4" Ø X 2 1/4" SS HILTI KWIK CON +	1 3/4"	2 1/2"	1 PER 2" LG. ANGLE
GROUT FILLED CMU	ASTM C-90 BLOCK, 1500 PSI GROUT COMP. STRENGTH	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)
		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 +	1"	2 1/2"	2 PER ANGLE (ITEM 25)



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NOA-No. 24-0605.05  
Expiration Date 01/03/2028

By   
Miami-Dade Product Control

JEFFREY SMITH, P.E.  
NO. 91182

TABLE 07 - 4375DC - COUNTERSUNK FASTENER TABLE (N.I.C.)						
SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	FASTENER TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE	FASTENER QTY. PER 6" LG. ANGLE	FASTENER QTY. PER 2" LG. ANGLE
STEEL	14GA, 45 KSI TENSILE STRENGTH, 33 KSI YIELD STRENGTH	1/4-20 BOLT, A307 STEEL/STAINLESS STEEL GRADE A	3 THREADS BEYOND NUT	1/2"	3	1
	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			
ALUMINUM	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	1
	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			
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.

B	COMPLETE REVISION	NS	JDS	JDS		1/25/24
A	COMPLETE REVISION	CJD	SDL	MMM		3/7/18
REV	DESCRIPTION	BY	CHK	APVD	ECN	DATE
AUTHOR	VMA	11/3/2008				
CHECKED	DJR	11/11/2008				
APPROVED	DJR	11/11/2008				
APPROVED						
MATERIAL	EXTRUDED ALUMINUM					
ECN						
SCALE	NONE					
INVENTOR						
SHEET	9	OF	14			

Tolerances  
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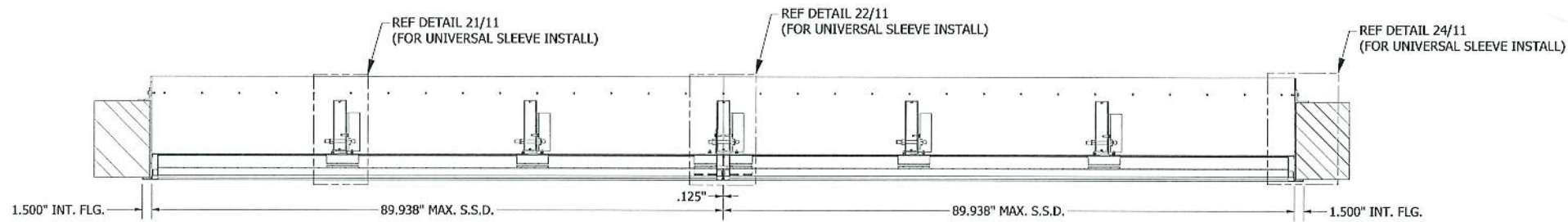
1300 Enterprise Road,  
Geneva, AL 36340  
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PRODUCT 4375DC LOUVER

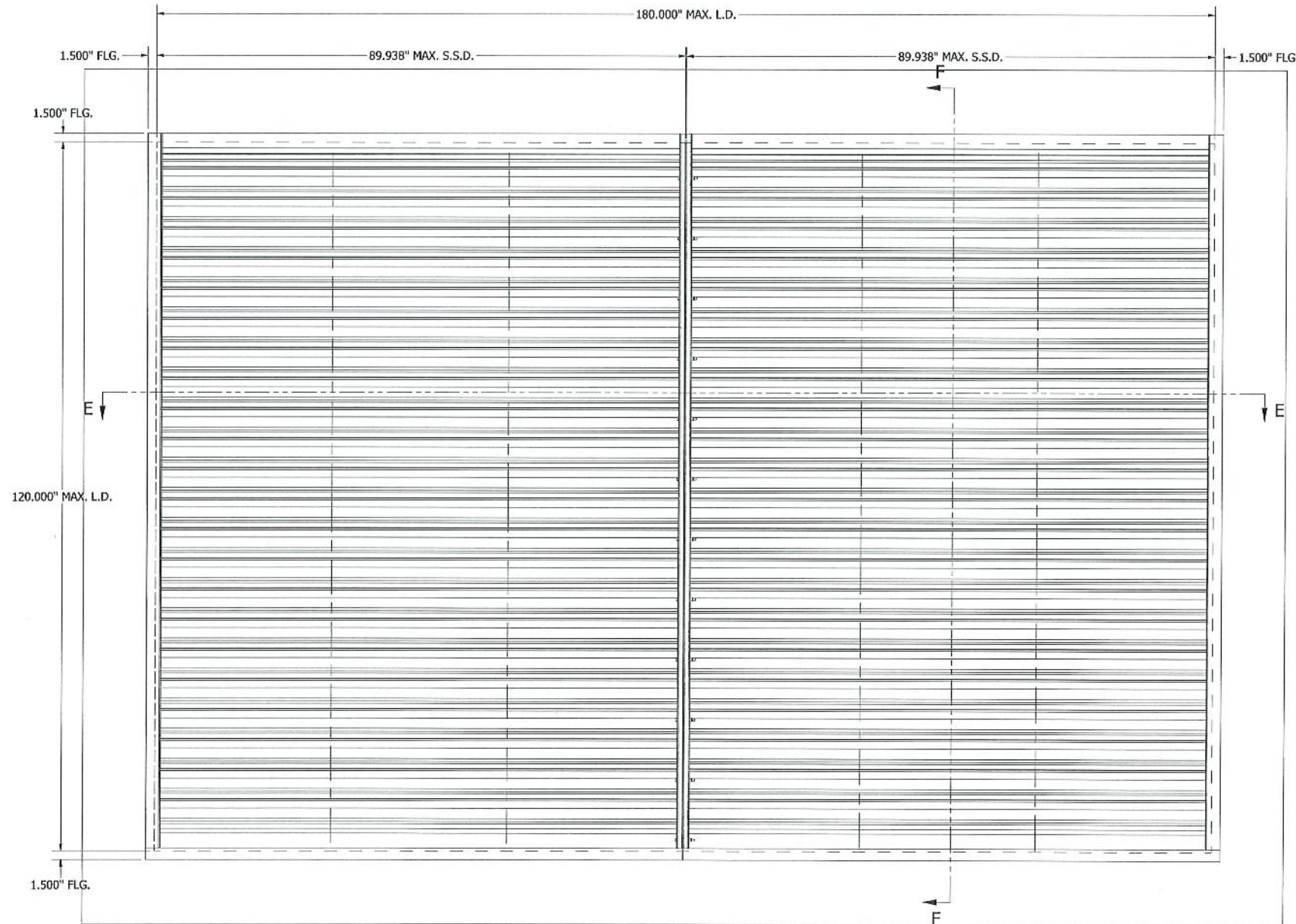
TITLE WALL FASTENER TABLE

SIZE D DWG NO 60-022136-00D REV B

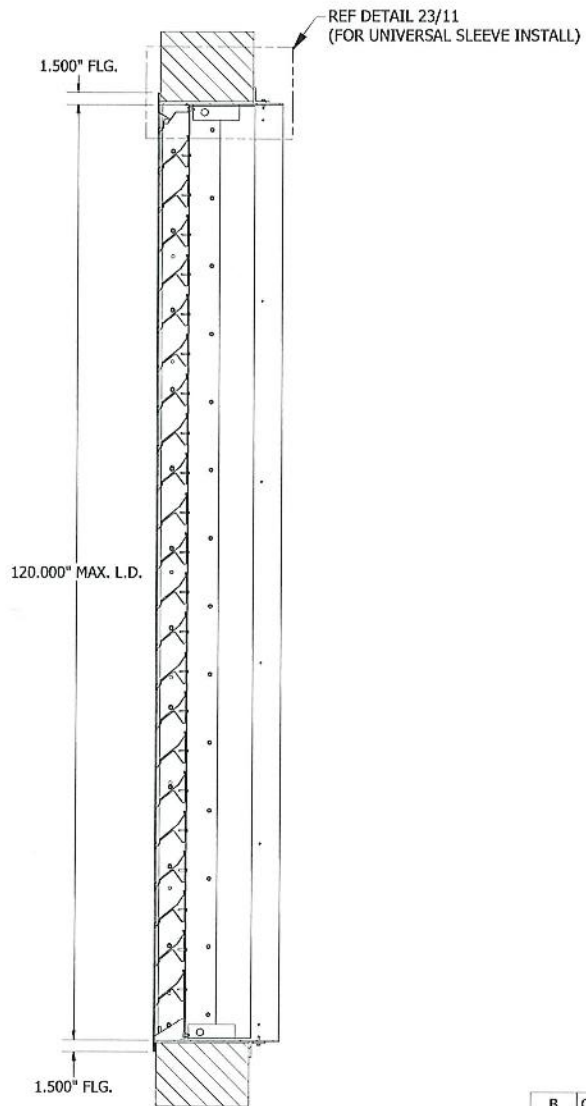




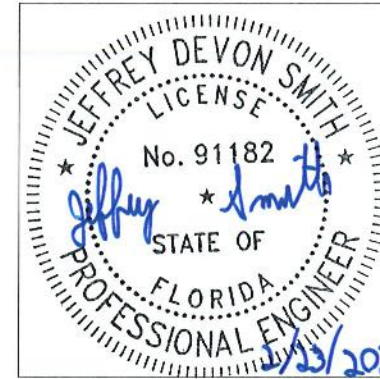
SECTION E-E



MULTI-SECTION ASSEMBLY - UNIVERSAL SLEEVE  
180" W X 120" H



SECTION F-F



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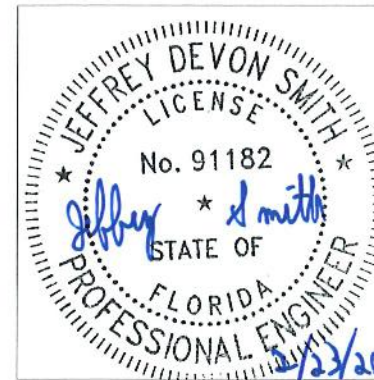
Expiration Date 01/03/2028

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Tolerances  
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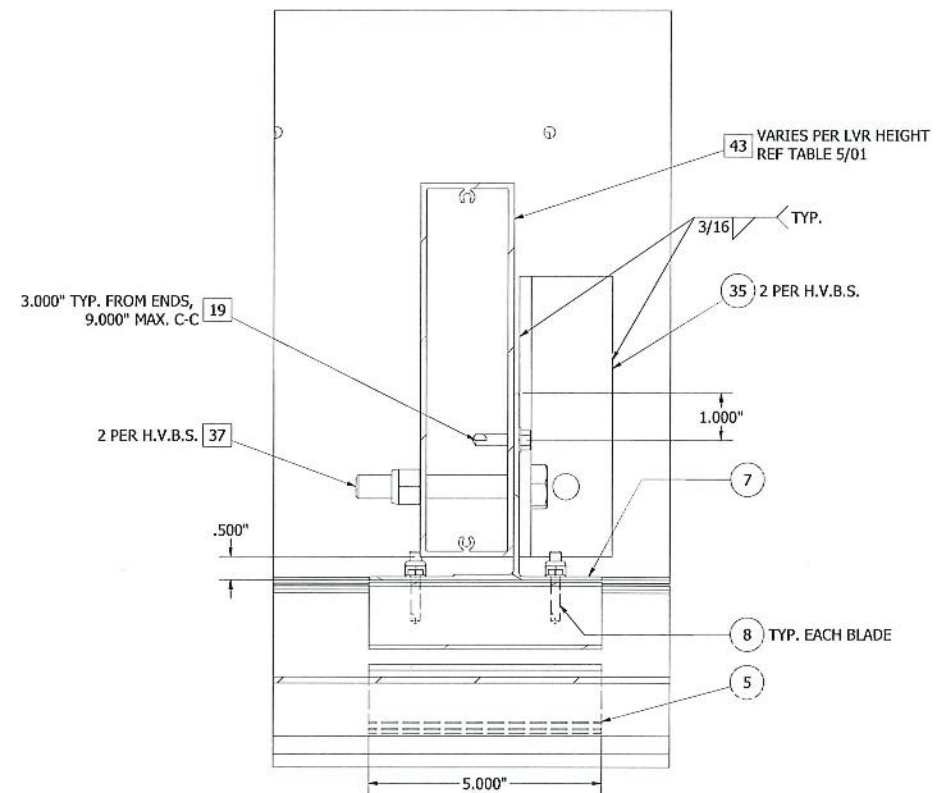
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A	COMPLETE REVISION	CJD	SDL	MMM		3/7/18
REV	DESCRIPTION	BY	CHK	APVD	ECN	DATE
AUTHOR	VMA	11/3/2008				
CHECKED	DJR	11/11/2008				
APPROVED	DJR	11/11/2008				
APPROVED						
MATERIAL	EXTRUDED ALUMINUM	PRODUCT 4375DC LOUVER				
TITLE	UNIVERSAL SLEEVE ASSEMBLY					
SIZE	D	DWG NO	60-022136-00D		REV	B
ECN		SCALE	NONE	INVENTOR	SHEET 10 of 14	

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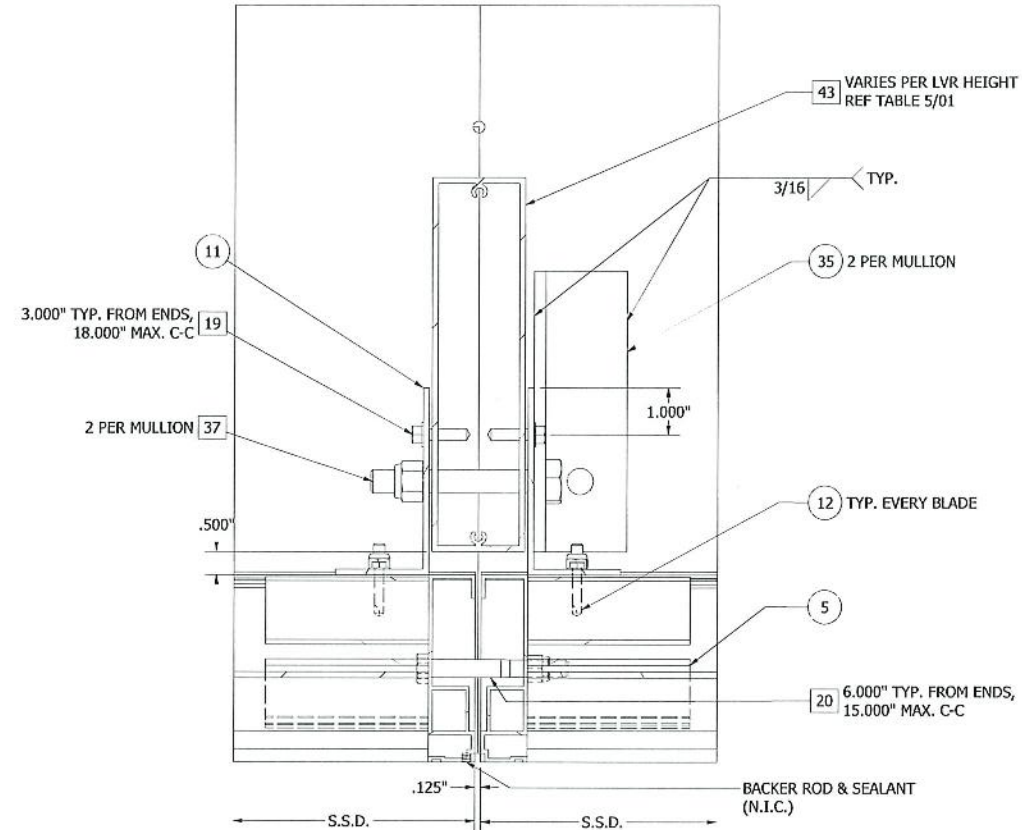


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Building Code  
NOA-No. 24-0605.05  
Expiration Date 01/03/2028  
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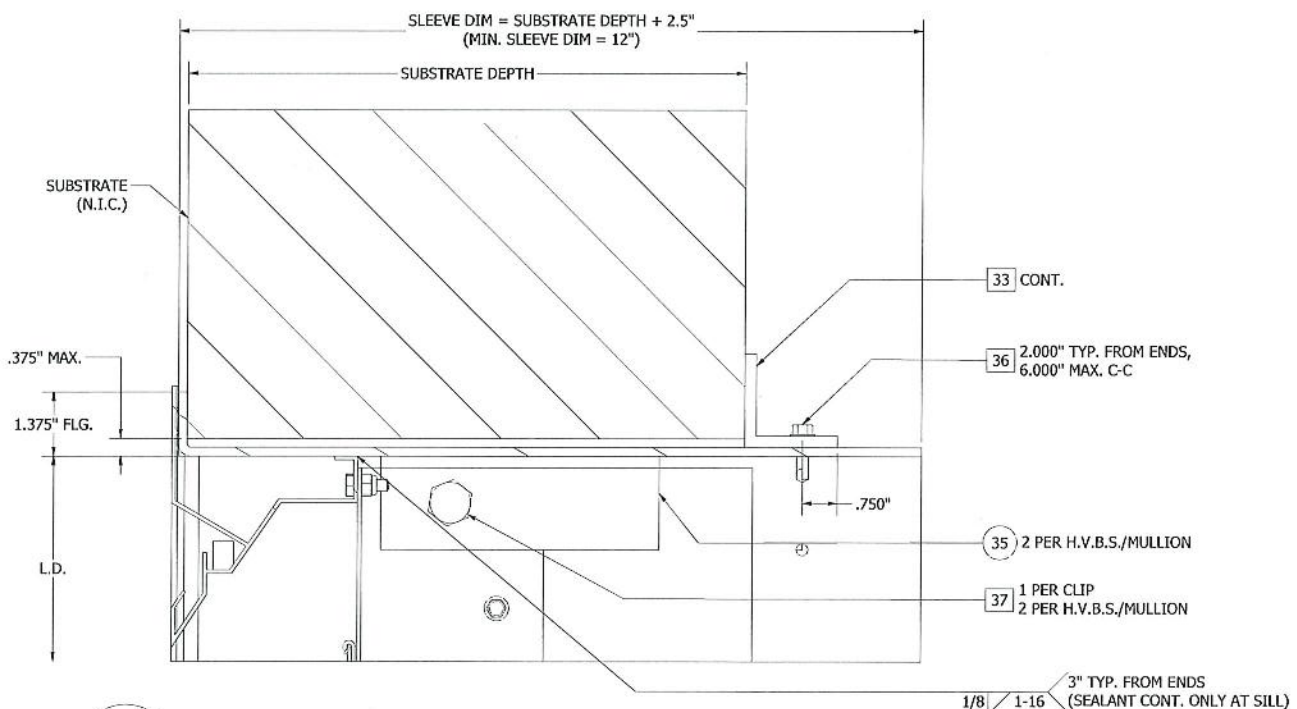
JEFFREY SMITH, P.E.  
NO. 91182



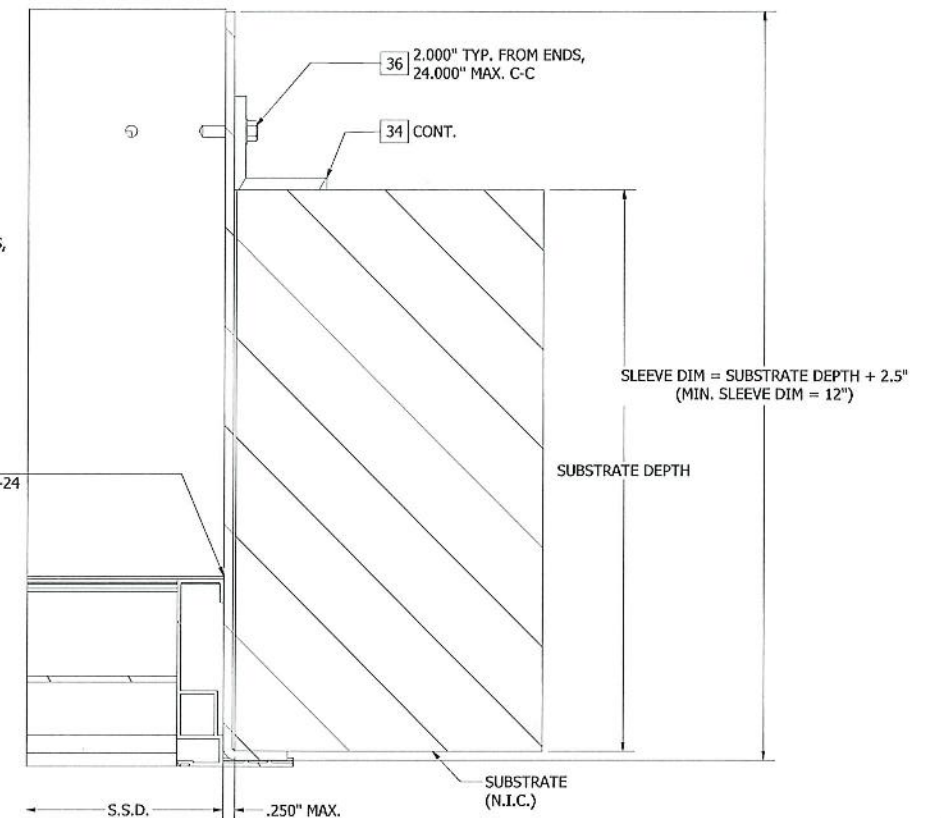
21  
10 ALTERNATE H.V.B.S. ATTACHMENT DETAIL @ HEAD/SILL  
(UNIVERSAL SLEEVE INSTALL)



22  
10 ALTERNATE MULLION ATTACHMENT DETAIL @ HEAD/SILL  
(UNIVERSAL SLEEVE INSTALL)



23  
10 ALTERNATE H.V.B.S. ATTACHMENT DETAIL @ HEAD/SILL  
(UNIVERSAL SLEEVE INSTALL)



24  
10 ALTERNATE JAMB ATTACHMENT DETAIL  
(UNIVERSAL SLEEVE INSTALL)

B	COMPLETE REVISION		NS	JDS	JDS	1/25/24	
A	COMPLETE REVISION		CJD	SDL	MMM	3/7/18	
REV	DESCRIPTION		BY	CHK	APVD	ECN	DATE
AUTHOR	VMA	11/3/2008	 1300 Enterprise Road, Geneva, AL 36340 PROPRIETARY AND CONFIDENTIAL				
CHECKED	DJR	11/11/2008					
APPROVED	DJR	11/11/2008					
APPROVED							
MATERIAL	EXTRUDED ALUMINUM		PRODUCT		4375DC LOUVER		
			TITLE		UNIVERSAL SLEEVE INSTALLATION DETAILS		
			SIZE D		DWG NO		REV B
					60-022136-00D		
ECN			SCALE		INVENTOR		SHEET 11 OF 14
			NONE				

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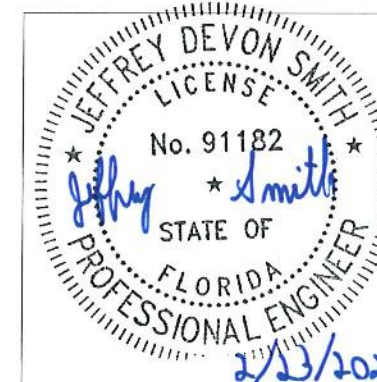
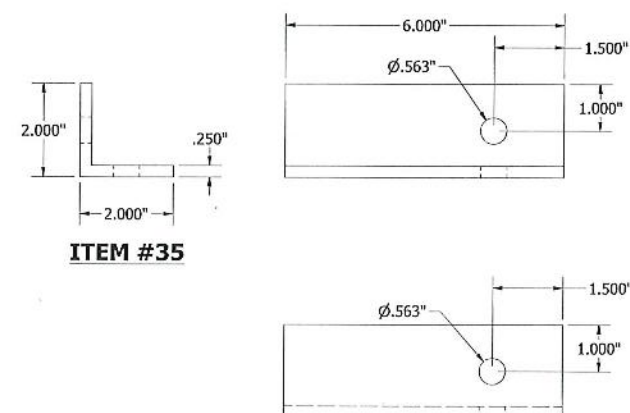
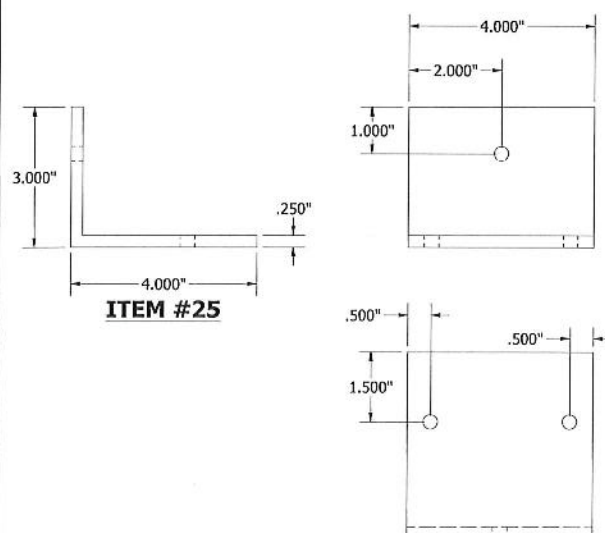
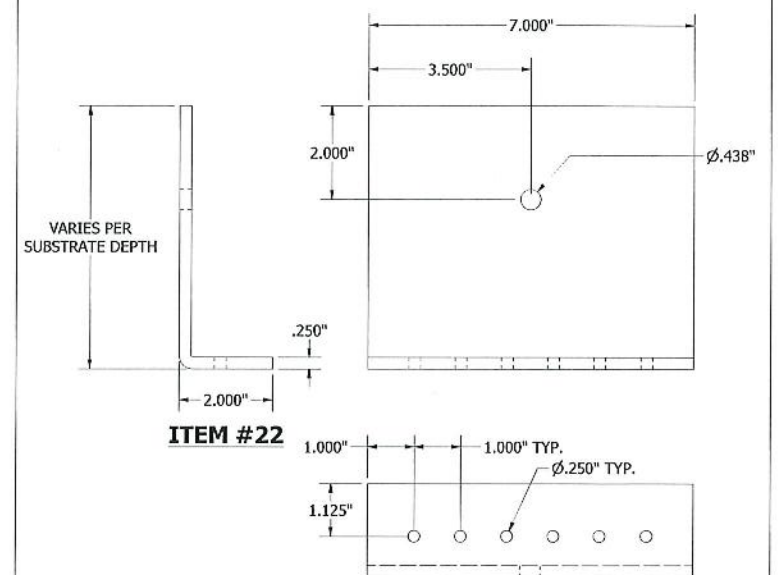
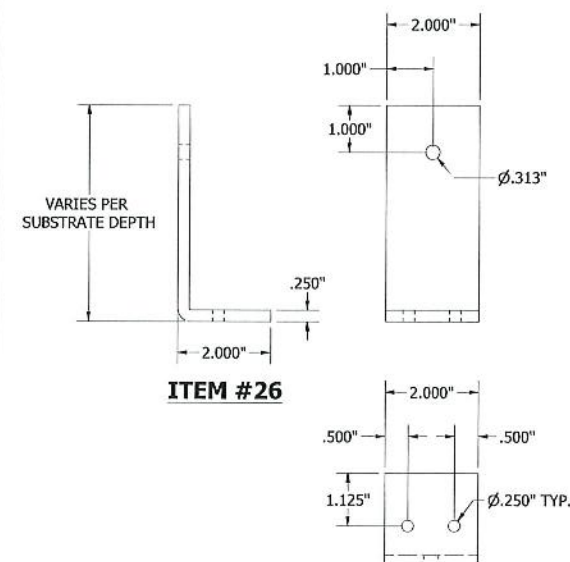
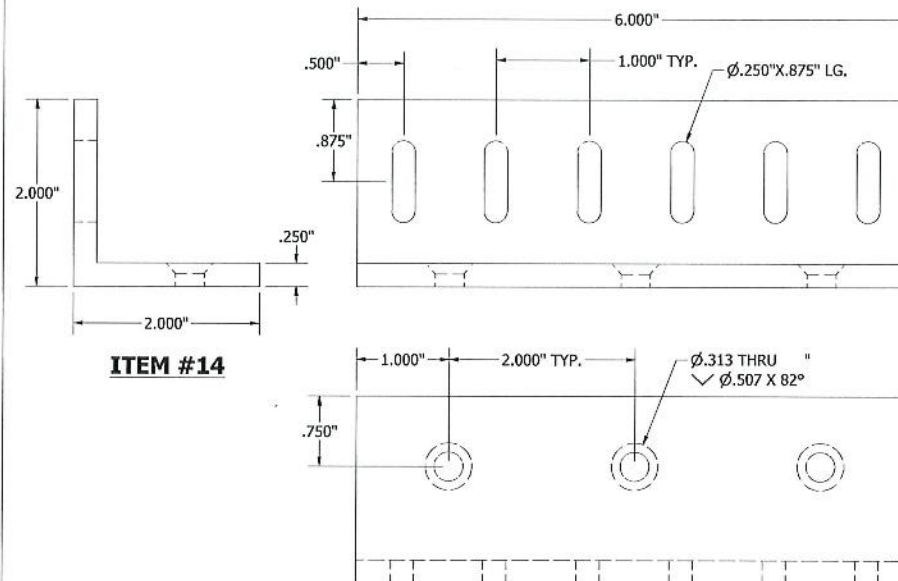
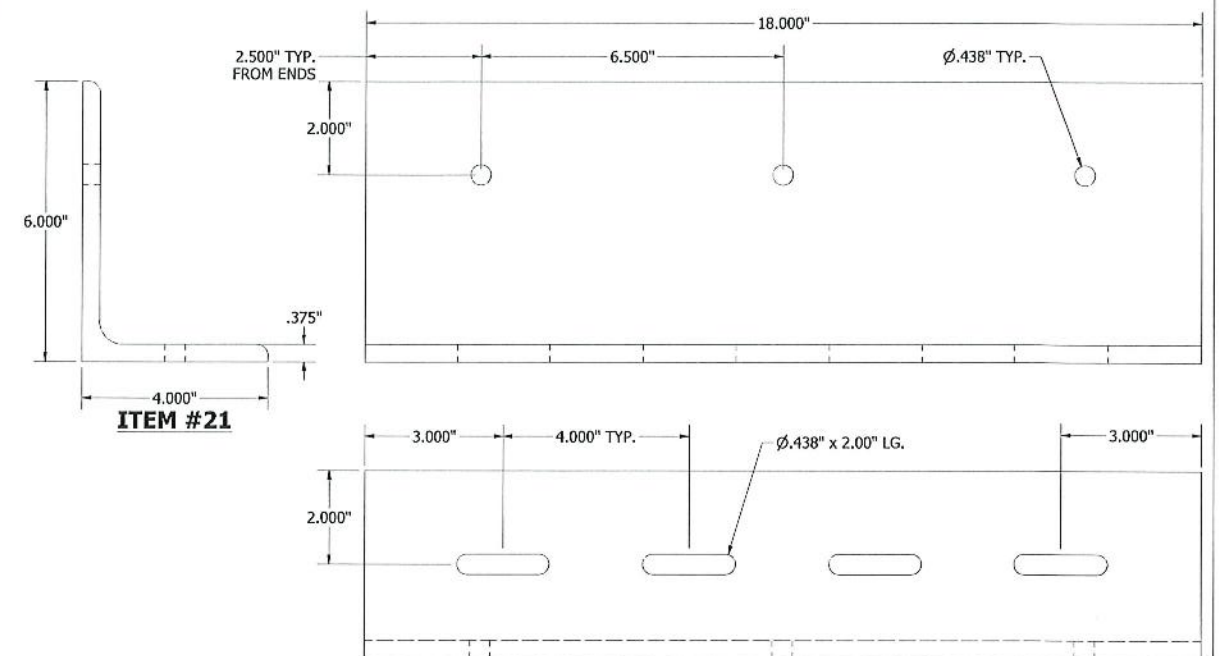
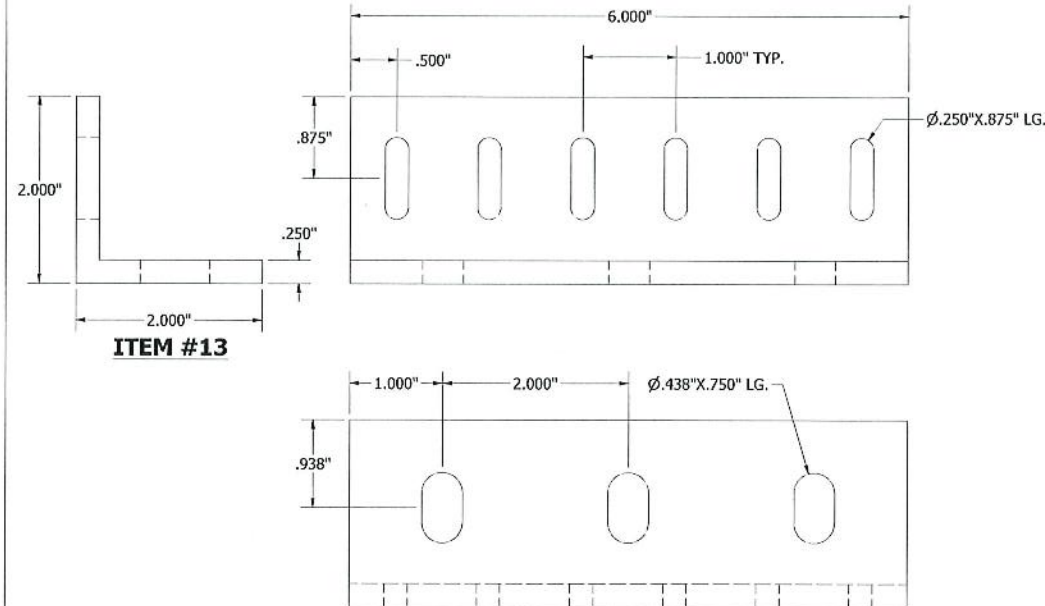
1300 Enterprise Road,  
Geneva, AL 36340  
PROPRIETARY AND  
CONFIDENTIAL



**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 24-0605.05  
Expiration Date 01/03/2028  
By *[Signature]*  
Miami-Dade Product Control

Tolerances  
Unless Stated Otherwise  
Use WIG-007

B	COMPLETE REVISION	NS	JDS	JDS	1/25/24	
A	COMPLETE REVISION	CJD	SDL	MMM	3/7/18	
REV	DESCRIPTION	BY	CHK	APVD	ECN	DATE
AUTHOR	VMA	11/3/2008				1300 Enterprise Road, Geneva, AL 36340 PROPRIETARY AND CONFIDENTIAL
CHECKED	DJR	11/11/2008				
APPROVED	DJR	11/11/2008				
APPROVED						
MATERIAL	EXTRUDED ALUMINUM		TITLE			LOUVER ASSEMBLY PART PROFILES
SIZE	D		DWG NO	60-022136-00D		REV B
ECN		SCALE	NONE	INVENTOR	SHEET 12 of 14	



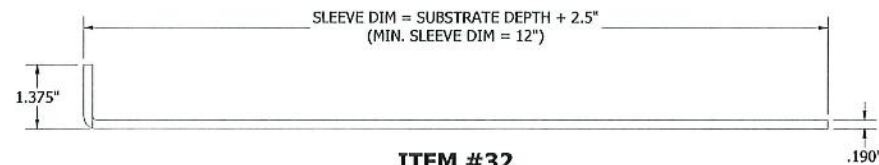
By   
Miami-Dade Product Control

**JEFFREY SMITH, P.E.**  
**NO. 91182**

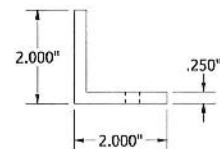
**Tolerances**  
Unless Stated Otherwise  
Use WIQ-007

B	COMPLETE REVISION	NS	JDS	JDS		1/25/24
A	COMPLETE REVISION	CJD	SDL	MMM		3/7/18
REV	DESCRIPTION	BY	CHK	APVD	ECN	DATE
AUTHOR	VMA	11/3/2008	 1300 Enterprise Road, Geneva, AL 36340 PROPRIETARY AND CONFIDENTIAL			
CHECKED	DJR	11/11/2008				
APPROVED	DJR	11/11/2008				
APPROVED						
MATERIAL		PRODUCT		4375DC LOUVER		
EXTRUDED ALUMINUM		TITLE		INSTALLATION PART PROFILES		
		SIZE D	DWG NO			REV B
		NONE			60-022134-00D	
ECN			SCALE	INVENTOR		SHEET 13 OF 14

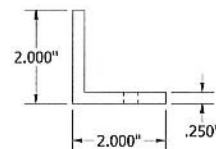




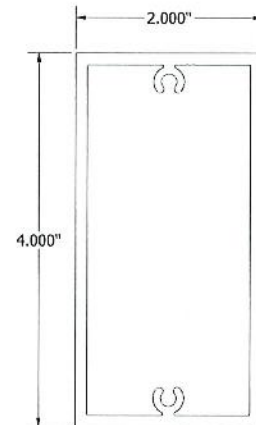
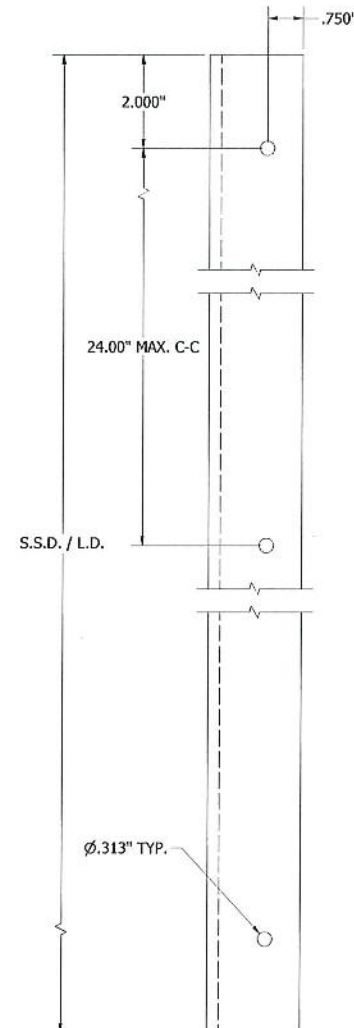
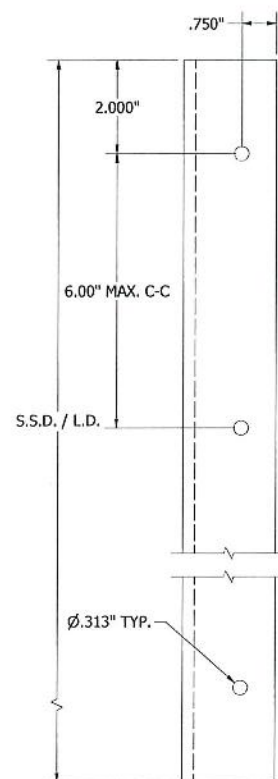
**ITEM #32**  
UNIVERSAL SLEEVE



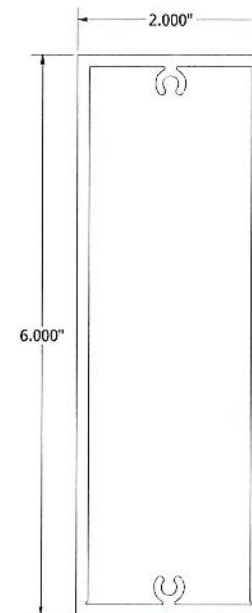
**ITEM #33**



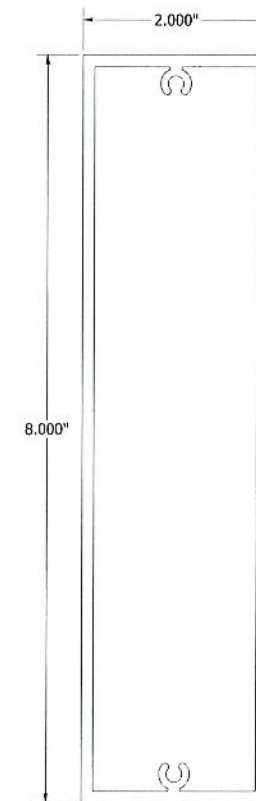
**ITEM #34**



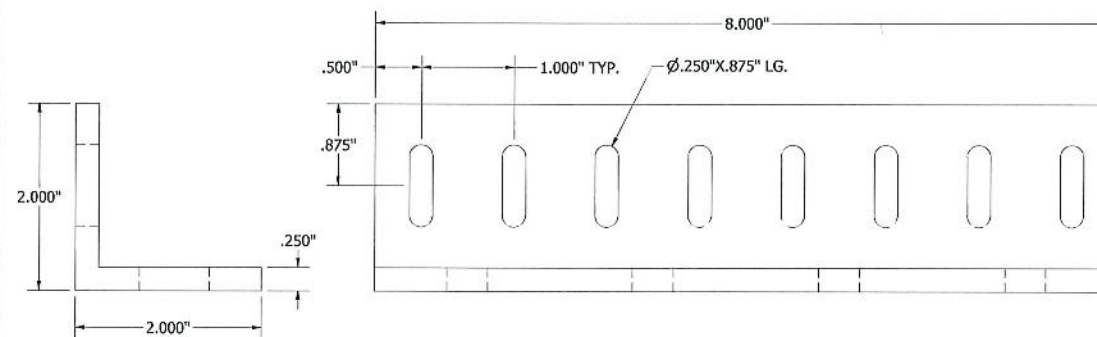
**ITEM #41**



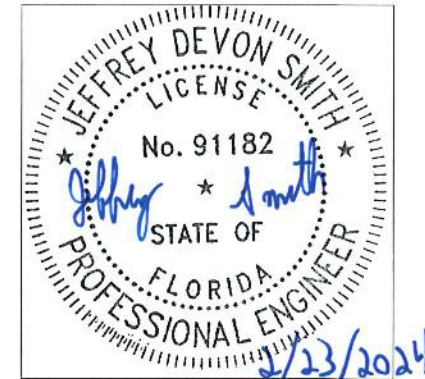
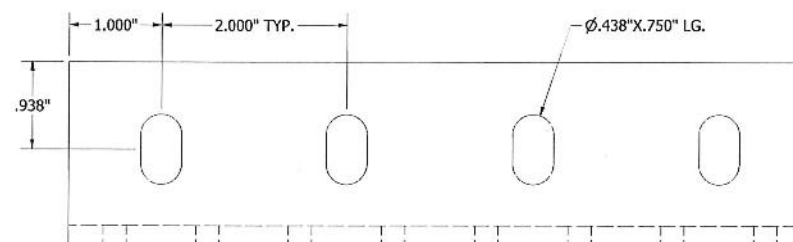
**ITEM #42**



**ITEM #43**



**ITEM #23**



JEFFREY DEVON SMITH, P.E.  
NO. 91182

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

NOA-No. 24-0605.05

Expiration Date 01/03/2028

By *[Signature]*  
Miami-Dade Product Control

B	COMPLETE REVISION	NS	JDS	JDS	1/25/24		
A	COMPLETE REVISION	CJD	SDL	MMM	3/7/18		
REV	DESCRIPTION	BY	CHK	APVD	ECN	DATE	
AUTHOR	VMA	11/3/2008	 1300 Enterprise Road, Geneva, AL 36340 PROPRIETARY AND CONFIDENTIAL				
CHECKED	DJR	11/11/2008					
APPROVED	DJR	11/11/2008					
APPROVED							
MATERIAL	EXTRUDED ALUMINUM	PRODUCT	4375DC LOUVER				
		TITLE	INSTALLATION PART PROFILES				
SIZE	D	DWG NO	60-022136-00D			REV	B
SCALE	NONE	INVENTOR	SHEET 14 of 14				

Tolerances  
Unless Stated Otherwise  
Use YIQ-007