



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 ELC6375DXD Aluminum Louver with Damper

APPROVAL DOCUMENT: Drawing No. **60-022114-00B**, titled "ELC6375DXD - Combination Louver" sheets 1 through 16 of 16, dated 11/15/2008, with revision **E** dated 10/24/2018, prepared by Ruskin Company, signed and sealed by Melissa M. Massar, 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, 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 **revises** NOA # **18-1106.03** 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.**



NOA-No. 20-0909.06
Expiration Date: February 11, 2024
Approval Date: November 19, 2020
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA'S

A. DRAWINGS “Submitted under NOA # 15-0930.12”

1. Drawing No. **60-022114**, titled “ELC6375DXD - Combination Louver”, sheets 1 through 9 of 9, dated 11/15/2008, with revision **C** dated 09/18/2015, prepared by Ruskin Company, signed and sealed by Chelsea GQ Welch, P.E.

B. TESTS “Submitted under NOA # 12-0913.13”

1. Test report on High Velocity Wind Driven Rain Resistance per AMCA 550 of a Model ELC6375DXD Extruded Combination Louver, prepared by PRI Construction Materials Technologies, LLC, Test Report No. **RCV-016-02-01**, dated 09/07/2012, signed and sealed by Duc T. Nguyen, P.E.

“Submitted under NOA # 08-1211.05”

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 Model ELC6375DXD Combination Louvers, prepared by National Certified Testing Laboratories, Test Report No. **210-3550-1**, dated 10/27/2008, signed and sealed by Gerard J. Ferrara, P.E.

C. CALCULATIONS “Submitted under NOA # 15-0930.12”

1. Wind load review prepared by Ruskin Company, dated 09/08/2015, signed and sealed by Chelsea GQ Welch, P.E.

“Submitted under NOA # 14-0211.15”

2. Wind load bending and anchoring calculations, dated 01/23/2014, prepared by Ruskin Company, signed and sealed by Edward P. Hutson, Jr., P.E.

“Submitted under NOA # 08-1211.05”

3. Wind load bending and anchoring calculations, dated 11/14/2008, pages 1 to 23 of 23, prepared by Ruskin Company, 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

1. None.

F. STATEMENTS “Submitted under NOA # 16-1110.05”

1. Distributor agreement dated 09/22/2016.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA-No. 20-0909.06

Expiration Date: February 11, 2024
Approval Date: November 19, 2020

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (Continued)

“Submitted under NOA # 15-0930.12”

2. Statement letter of code conformance to the 5th edition (2014) FBC issued by Ruskin Company, dated 09/22/2015, signed and sealed by Chelsea GQ Welch, P.E.

“Submitted under NOA # 14-0211.15”

3. Statement letter of code conformance to 2010 FBC, issued by Ruskin Company, dated 01/23/2014, signed and sealed by Edward P. Hutson, Jr., P.E.
4. No financial interest letter issued by Ruskin Company, dated 01/23/2014, signed and sealed by Edward P. Hutson, Jr., P.E.

2. EVIDENCE SUBMITTED UNDER NOA # 17-1214.17

A. DRAWINGS

1. Drawing No. **60-022114-00B**, titled “ELC6375DXD - Combination Louver”, sheets 1 through 9 of 9, dated 11/15/2008, with revision **D** dated 10/24/2017, prepared by Ruskin Company, signed and sealed by Theodore Berman, P.E. of Ted Berman and Associates, LLC.

B. TESTS

1. None.

C. CALCULATIONS

1. Wind load review prepared by Ruskin Company, dated 10/13/2017, signed and sealed by Theodore Berman, 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 6th edition (2017) FBC, prepared by Ted Berman and Associates, LLC, dated 10/31/2017, signed and sealed by Theodore Berman, P.E.
2. Statement letter of no financial interest, prepared by Ted Berman and Associates, LLC, dated 10/31/2017, signed and sealed by Theodore Berman, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA-No. 20-0909.06

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Ruskin Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED UNDER NOA # 18-1106.03

A. DRAWINGS

1. Drawing No. **60-022114-00B**, titled “ELC6375DXD - Combination Louver”, sheets 1 through 16 of 16, dated 11/15/2008, with revision **E** dated 10/24/2018, prepared by Ruskin Company, signed and sealed by Melissa M. Massar, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Wind load review prepared by Ruskin Company, dated 10/29/2018, 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

1. Statement letter of code conformance to 6th edition (2017) FBC, prepared by Ruskin Company, dated 10/29/2018, signed and sealed by Melissa M. Massar, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA-No. 20-0909.06

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Ruskin Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **60-022114-00B**, titled “ELC6375DXD - Combination Louver”, sheets 1 through 16 of 16, dated 11/15/2008, with revision **E** dated 10/24/2018, prepared by Ruskin Company, 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 7th edition (2020) FBC issued by Ruskin Company, 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 Ruskin Company, dated 08/25/2020, signed and sealed by Melissa M. Massar, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA-No. 20-0909.06

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PARTS LIST FOR STANDARD CONSTRUCTION			
ITEM	DESCRIPTION	MATERIAL	ALLOY
1	HEAD FRAME	.125" THK EXTRUDED ALUM.	6063-T6
2	SILL FRAME	.125" THK EXTRUDED ALUM.	6063-T6
3	JAMB FRAME	.125" THK EXTRUDED ALUM.	6063-T6
4	FIXED BLADE	.080" THK EXTRUDED ALUM.	6063-T6
5	ADJUSTABLE BLADE	.070" THK EXTRUDED ALUM.	6063-T6
6	HIDDEN MULLION	.125" THK EXTRUDED ALUM.	6063-T6
7	BLADE BRACE	.080" THK EXTRUDED ALUM.	6063-T6
8	MULLION SUPPORT CHANNEL	.125" THK EXTRUDED ALUM.	6063-T6
9	MULLION SUPPORT	.125" THK EXTRUDED ALUM.	6063-T6
10	TOP BLADE STOP	.063" THK EXTRUDED ALUM.	6063-T6
11	BOTTOM BLADE STOP	.080" THK EXTRUDED ALUM.	6063-T6
12	BLADE STOP SEAL	.1875" X .50" - PARAFOAM 400	-
13	JAMB SEAL	.010" THK FORMED ALUM.	-
14	BLADE SEAL	SANTOPRENE 50 SHORE D	-
15	HAND QUADRANT PLATE	12 GA GALV STEEL	-
16	HAND QUADRANT ARM	10 GA GALV STEEL G60	-
17	TIE-BAR	1/2X12GA GALV	-
18	BEARING	.5" DIA SS	-
19	E SIDE LINKAGE CRANKARM ASSY	PLATED STEEL	-
20	F SIDE LINKAGE CRANKARM ASSY	PLATED STEEL	-
21	IDLER DRIVE AXLE	7/16" HEX STEEL ZINC PLATED	-
22	RETAINING RING: TRUARC E-50	ZINC YELLOW DICHROMATE PLATED	-
23	RETAINING RING: TRUARC E-25	ZINC YELLOW DICHROMATE PLATED	-
24	BLT CARR 1/4-20X1.00	ZINC COATED	-
25	WING NUT 1/4"-20	ZINC COATED	-
26	SCREW 8-18 X 3/4" LG HWH "AB" W/SEAL WASHER	410SS/ZINC COATED	-
27	SCREW 12-14 x 1" LG HWH "SDS"	410SS/ZINC COATED	-
28	SCREW 10-16 X 3/4" HWH "SDS"	410SS	-

MULTI SECTION CONNECTION PARTS			
ITEM	DESCRIPTION	MATERIAL	ALLOY
29	1/4-20 X 2.75" LG BOLT W/ WASHER & LOCKNUT	ZINC PLATED ASTM A307 GRADE A	-

INSTALLATION PARTS			
ITEM	DESCRIPTION	MATERIAL	ALLOY
30	FORMED CLIP ANGLE 2" LG.	0.25" THK FORMED ALUM.	3003-H14
31	FORMED CLIP ANGLE 4" LG.	0.25" THK FORMED ALUM.	3003-H14
32	ALTERNATE ATTACHMENT ANGLE 2" LG.	0.25" THK EXTRUDED ALUM.	6063-T6
33	ALTERNATE ATTACHMENT ANGLE 4" LG.	0.25" THK EXTRUDED ALUM.	6063-T6
34	ALTERNATE FORMED CLIP ANGLE 2" LG.	0.25" THK FORMED ALUM.	3003-H14
35	ALTERNATE FORMED CLIP ANGLE 4" LG.	0.25" THK FORMED ALUM.	3003-H14
36	#10-16X1 1/2" LG "HWH" TYPE "SDS"	410SS	-
37	STANDARD CLIP ANGLE INSTALLATION SUBSTRATE FASTENER(REF TABLE 1/11)	VARIES	-
38	DOUBLE CLIP ANGLE INSTALLATION SUBSTRATE FASTENER(REF TABLE 2/11)	VARIES	-
39	3/8-16X1 1/2" BOLT W/NUT	ZINC PLATED ASTM A307 GRADE A	-

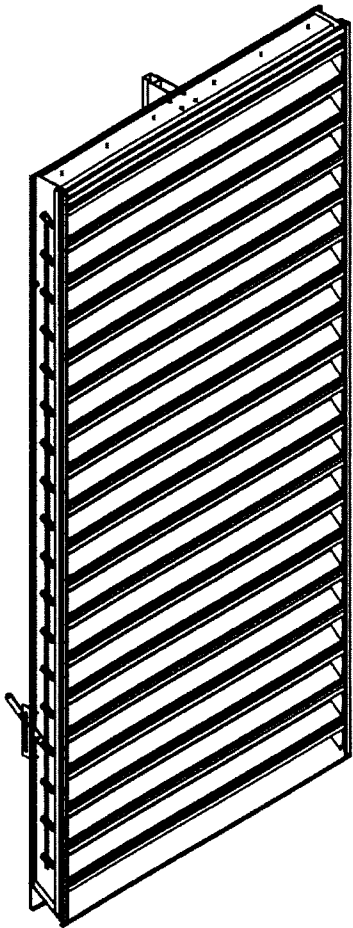
UNIVERSAL SLEEVE PARTS			
ITEM	DESCRIPTION	MATERIAL	ALLOY
40	FRONT FLANGE UNIVERSAL SLEEVE	MIN. .125" THK FORMED ALUM.	5005-H34 OR 3003-H14
41	HEAD FRAME W/ INTEGRAL FLANGE	.125" THK EXTRUDED ALUM.	6063-T6
42	SILL FRAME W/ INTEGRAL FLANGE	.125" THK EXTRUDED ALUM.	6063-T6
43	JAMB FRAME W/ INTEGRAL FLANGE	.125" THK EXTRUDED ALUM.	6063-T6
44	CONT. RETAINING ANGLE	.250" THK EXTRUDED ALUM.	6063-T6
45	1/4-14 "HWH" TYPE "SDS"	410SS	-

ABBREVIATIONS:

CONT. - CONTINUOUS
C-C - CENTER TO CENTER
D - SUBSTRATE DEPTH
DIM. - DIMENSION
FLG. - FLANGE
HDG - HOT DIPPED GALVANIZED
H.V.B.S. - HIDDEN VERTICLE 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
R.O. - ROUGH OPENING
REF. -REFERENCE
S.S. - SHIP SECTION
S.S.D. - SHIP SECTION DIMENSION
S.D.S. - SELF DRILLING SCREW
SIM. - SIMILAR
STL - STEEL
SUB. - SUBSTRATE
TYP. - TYPICAL
U.N.O. - UNLESS NOTED OTHERWISE

DRAWING INDEX:

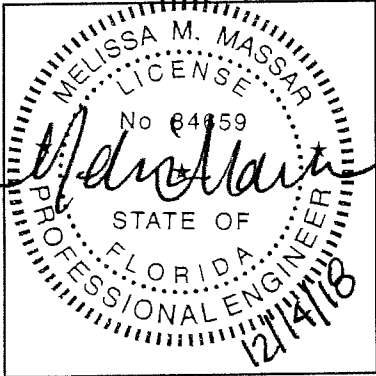
SHEET 01 - NOTES, PARTS LIST & DRAWING INDEX
SHEET 02 - SINGLE SECTION & THEIR SECTION VIEWS
SHEET 03 - BASIC LOUVER CONNECTION DETAILS
SHEET 04 - ASSEMBLY 'A' & SECTION VIEWS
SHEET 05 - ASSEMBLY 'B' & SECTION VIEWS
SHEET 06 - STANDARD & ALTERNATE INSTALLATION DETAILS
SHEET 07 - ALTERNATE INSTALLATION DETAILS
SHEET 08 - ASSEMBLY 'C' UNIVERSAL SLEEVE
SHEET 09 - ASSEMBLY 'D' UNIVERSAL SLEEVE
SHEET 10 - UNIVERSAL SLEEVE ATTACHMENT DETAILS
SHEET 11 - SUBSTRATE FASTENER TABLES
SHEET 12 - PARTS (ITEMS 1 THRU 8)
SHEET 13 - PARTS (ITEMS 9 THRU 18)
SHEET 14 - PARTS (ITEMS 19 THRU 23)
SHEET 15 - PARTS (ITEMS 30 THRU 35)
SHEET 16 - PARTS (ITEMS 40 THRU 44)



NOTES:

1. THE ELC6375DXD HAS BEEN TESTED IN ACCORDANCE WITH & QUALIFIED TO FLORIDA PROTOCOLS **TAS-201, 202, & 203** FOR LARGE MISSILE IMPACT, UNIFORM PRESSURE, CYCLIC WIND PRESSURE & **AMCA 550** FOR HIGH VELOCITY WIND DRIVEN RAIN.
2. QUALIFICATION 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/WATER PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES.
3. THIS LOUVER SYSTEM IS APPROVED FOR APPLICATIONS WITH DESIGN PRESSURES OF +/- **110 PSF** OR LESS.THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEAD LOADS.
4. RUSKIN DOES NOT DETERMINE THE STRUCTURAL INTEGRITY OF THE STRUCTURE. SUBSTRATE REQUIREMENTS GIVEN IN **TABLES 01 & 02** ON **SHEET 11** ARE AS NEEDED FOR ANCHORAGE ONLY.
5. MAXIMUM SINGLE SECTION SIZE IS **55" WIDE X 120" HIGH**. UNLIMITED WIDTH CAN BE ACCOMPLISHED BY PLACING SINGLE SECTIONS SIDE BY SIDE.
6. SECTIONS OR ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDING A SUITABLE STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER.
7. ALL WELDED ATTACHMENTS REQUIRE MIN. FILLER METAL OF 4043 ALUMINUM ALLOY WITH MIN. TENSILE STRENGTH OF 24 KSI.
8. PART NUMBERS WITH A SQUARE ARE **SHIPPED LOOSE**.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0909.06
Expiration Date 02/11/2024
By [Signature]
Miami-Dade Product Control

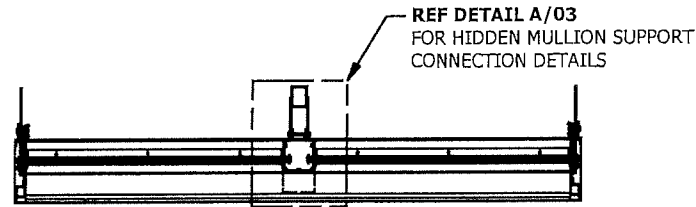


PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 18-1106.03
Expiration Date 02/11/2024
By [Signature]
Miami-Dade Product Control

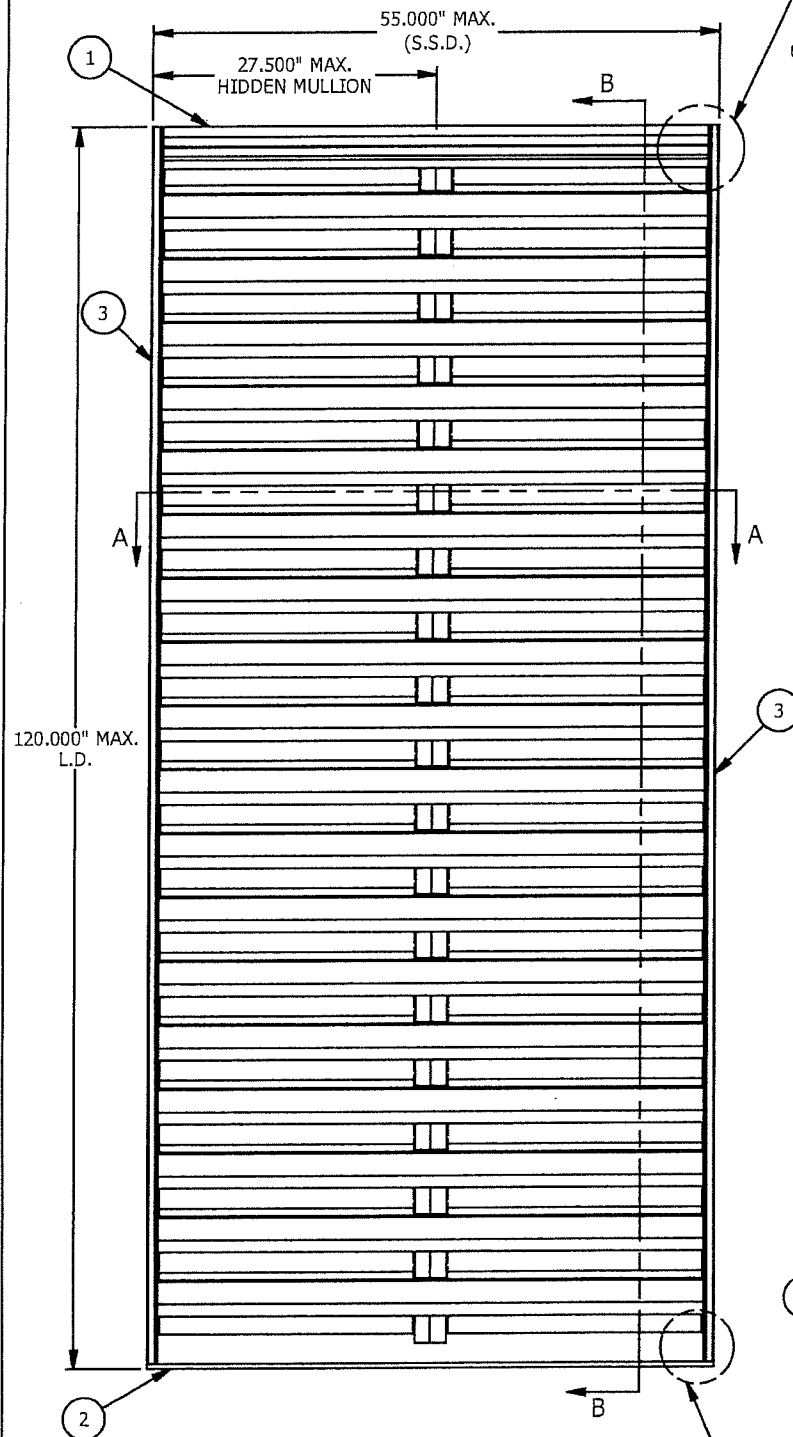
MELISSA M. MASSAR, P.E.
NO. 84659

Tolerances
Unless Stated Otherwise
Use WIQ-007, WIQ-008
Fractions ±1/16
Two Decimals ±0.020
Three Decimals ±0.010
Angle Dimensions ±2°

E	REV'D ENGINEER OF RECORD, UPDATED INFO.					NS	MMM	MMM		10/24/18
REV	DESCRIPTION					BY	CHK	APVD	ECN	DATE
AUTHOR		ENK	8/15/2008		RUSKIN Air & Sound Control 3900 Doctor Greaves Road, Grandview, MO 64030					
CHECKED		DJR	11/15/2008							
APPROVED		DJR	11/15/2008							
MATERIAL EXTRUDED ALUMINUM					PRODUCT ELC6375DXD - EXTRUDED COMBINATION LOUVER					
					TITLE NOTES, PARTS LIST & DRAWING INDEX					
					SIZE B			DWG NO 60-022114-00B		
ECN			SCALE N.T.S.			INVENTOR		SHEET 1 OF 16		



SECTION A-A

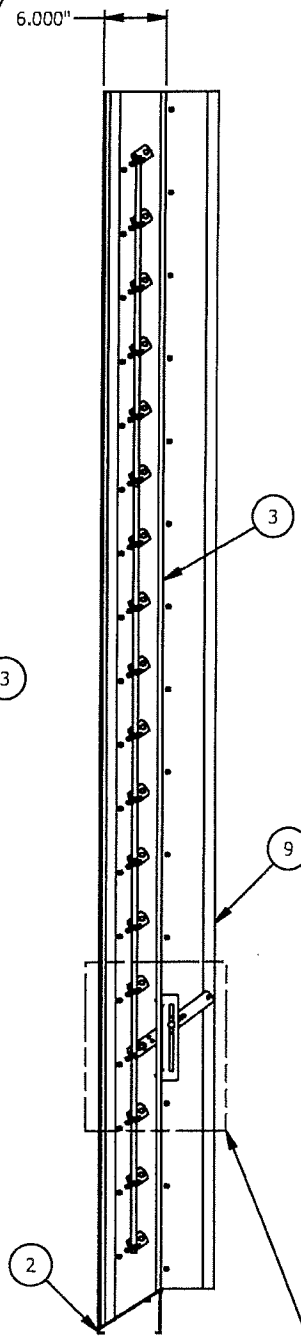


SINGLE SECTION VIEWS

N.T.S.
LOUVER HEIGHT > 75.75"

REF DETAIL B/03
FOR HEAD CONNECTION
DETAILS

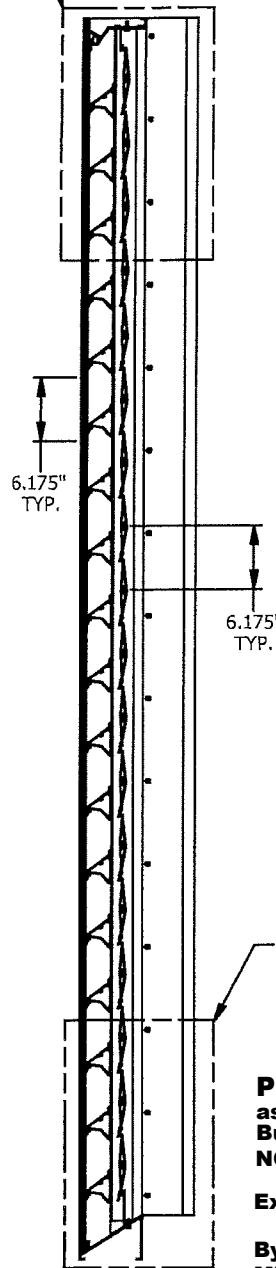
REF DETAIL F/03
FOR HEAD WELDMENT
& SEALANT DETAILS



SIDE VIEW

REF DETAIL E/03
FOR SILL WELDMENT
& SEALANT DETAILS

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **18-1106.03**
Expiration Date **02/11/2024**
By *[Signature]*
Miami-Dade Product Control

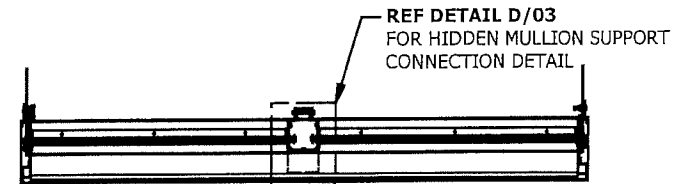


SECTION B-B

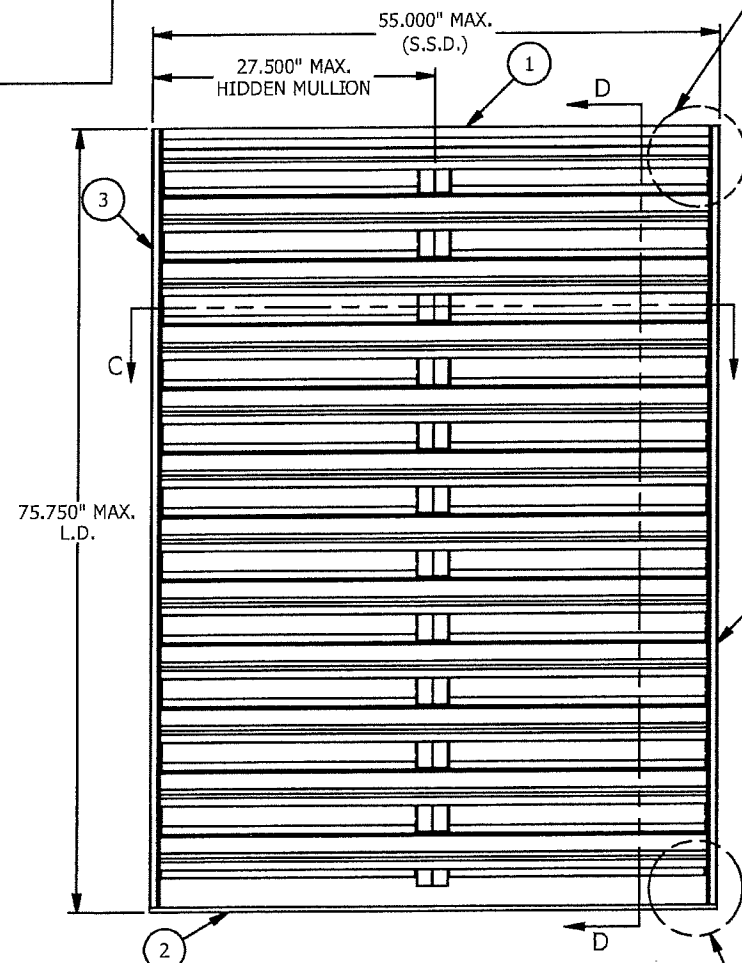
REFER DETAIL G/03
FOR QUAD ARM-JAMB CONNECTION DETAIL

REF DETAIL C/03
FOR SILL CONNECTION
DETAILS

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **20-0909.06**
Expiration Date **02/11/2024**
By *[Signature]*
Miami-Dade Product Control



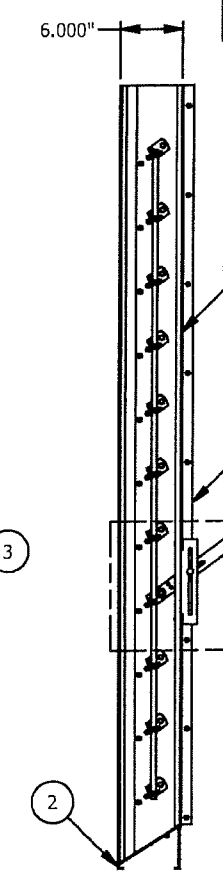
SECTION C-C



SINGLE SECTION VIEWS

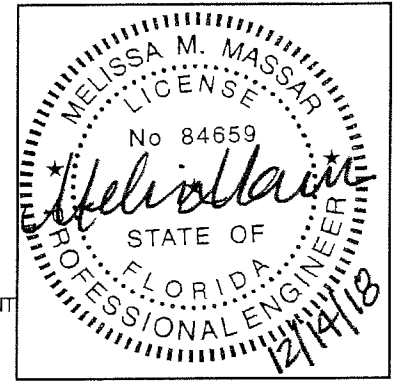
N.T.S.
LOUVER HEIGHT ≤ 75.75"

REF DETAIL F/03
FOR HEAD WELDMENT
& SEALANT DETAILS



SIDE VIEW

REF DETAIL E/03
FOR SILL WELDMENT
& SEALANT DETAILS

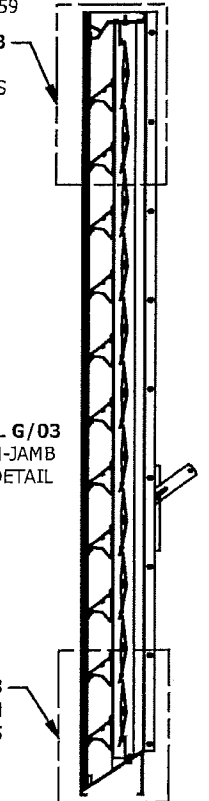


MELISSA M. MASSAR, P.E.
NO. 84659

REF DETAIL B/03
FOR HEAD CONNECTION
DETAILS

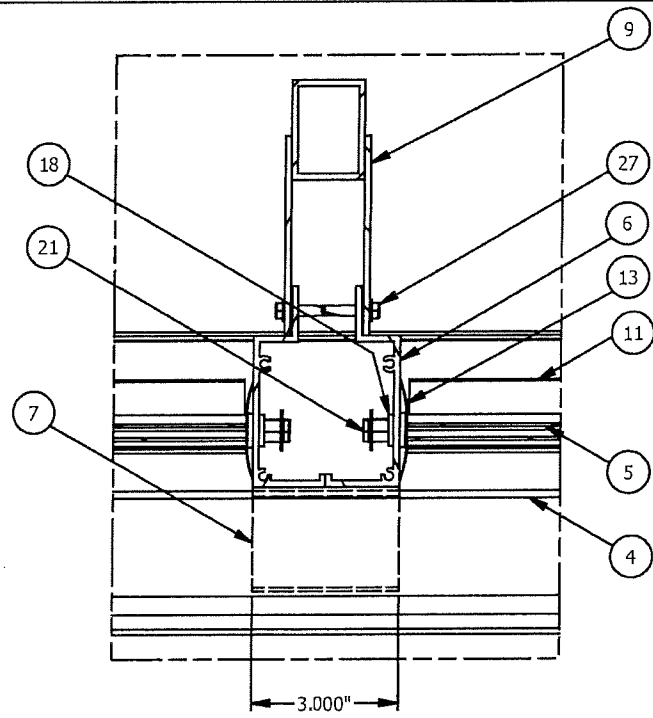
REFER DETAIL G/03
FOR QUAD ARM-JAMB
CONNECTION DETAIL

REF DETAIL C/03
FOR SILL CONNECTION
DETAILS

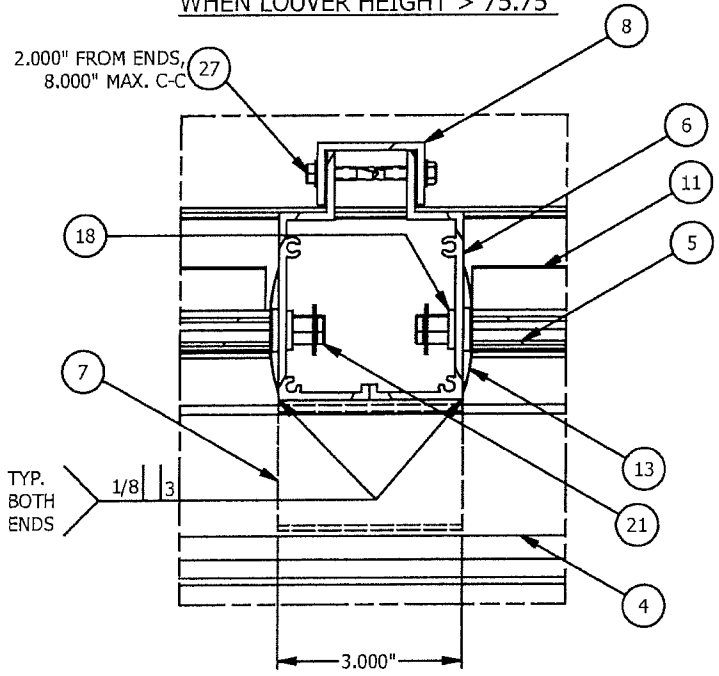


SECTION D-D

E	REV'D ENGINEER OF RECORD, UPDATED INFO.					NS	MMM	MMM		10/24/18
REV	DESCRIPTION					BY	CHK	APVD	ECN	DATE
AUTHOR	ENK	8/15/2008	RUSKIN Air & Sound Control 3900 Doctor Greaves Road, Grandview, MO 64030							
CHECKED	DJR	11/15/2008								
APPROVED	DJR	11/15/2008								
MATERIAL EXTRUDED ALUMINUM			PRODUCT ELC6375DXD - EXTRUDED COMBINATION LOUVER							
			TITLE ASSEMBLY 'A', ASSEMBLY 'B' & SECTION VIEWS							
			SIZE B	DWG NO 60-022114-00B					REV E	
ECN			SCALE N.T.S.	INVENTOR		SHEET 2 OF 16				

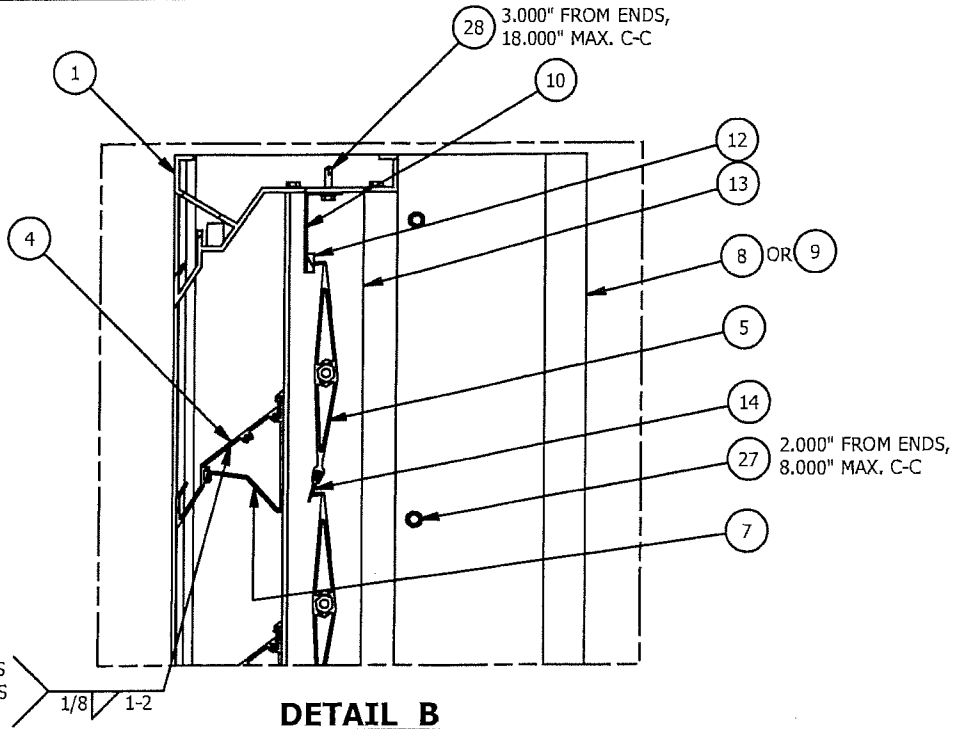


DETAIL A
HIDDEN MULLION SUPPORT CONNECTION DETAIL
WHEN LOUVER HEIGHT > 75.75"

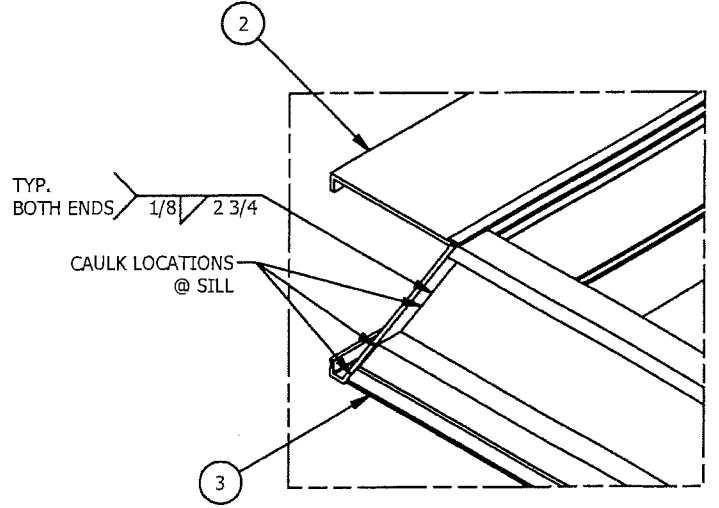


DETAIL D
HIDDEN MULLION SUPPORT CONNECTION DETAIL
WHEN LOUVER HEIGHT ≤ 75.75"

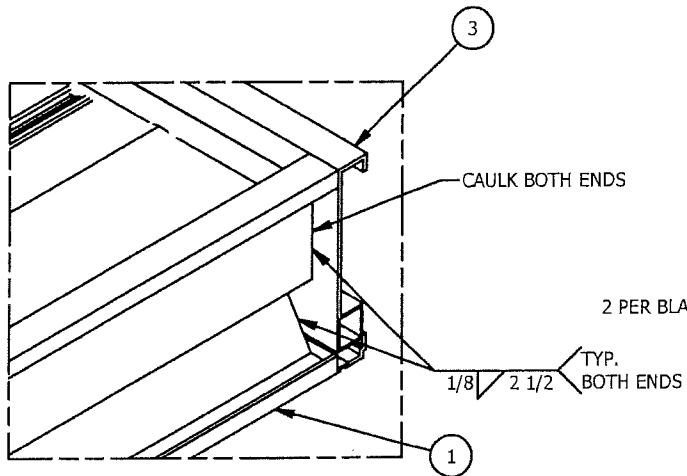
PRODUCT REVISED
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Building Code
NOA-No. 20-0909.06
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By *[Signature]*
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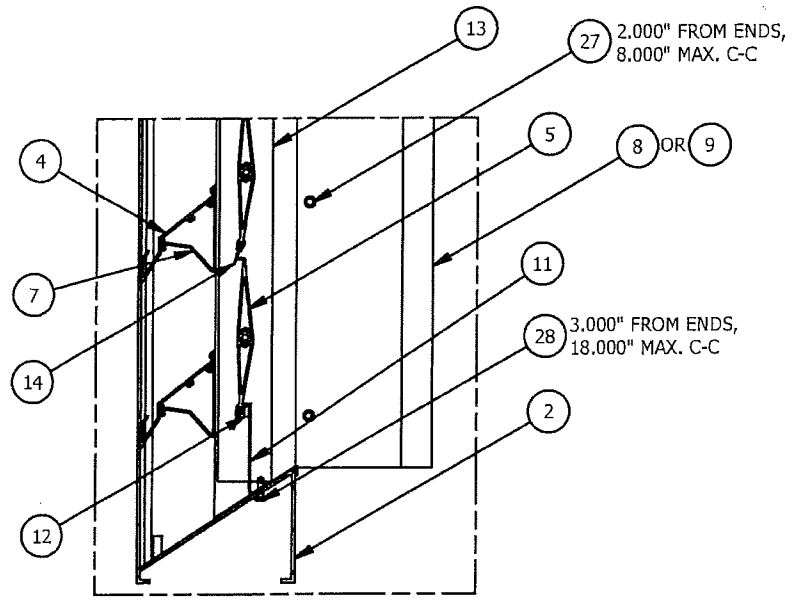
DETAIL B
HEAD CONNECTION DETAIL



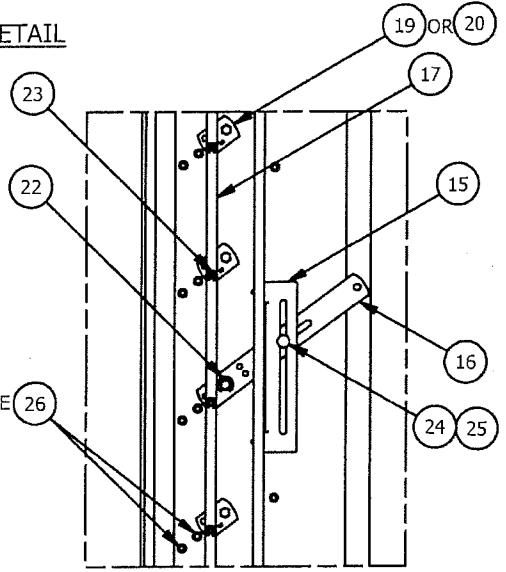
DETAIL E
SILL WELDMENT & SEALANT DETAILS



DETAIL F
HEAD WELDMENT & SEALANT DETAILS

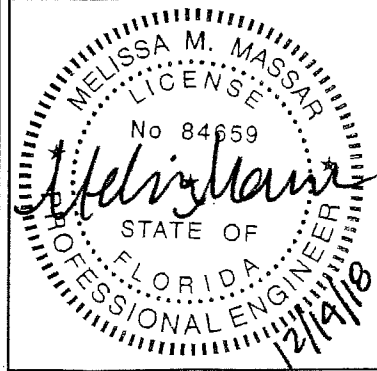


DETAIL C
SILL CONNECTION DETAIL



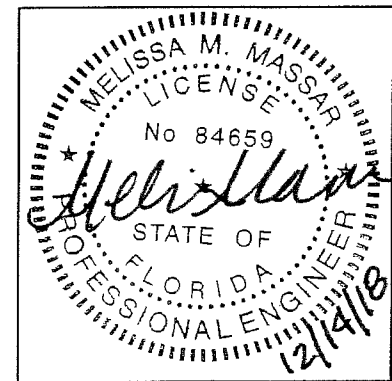
DETAIL G
QUAD ARM-JAMB CONNECTION DETAIL

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 18-1106.03
Expiration Date 02/11/2024
By *[Signature]*
Miami-Dade Product Control



MELISSA M. MASSAR, P.E.
NO. 84659

E	REV'D ENGINEER OF RECORD, UPDATED INFO.	NS	MMM	MMM		10/24/18
REV	DESCRIPTION	BY	CHK	APVD	ECN	DATE
AUTHOR	ENK	8/15/2008	RUSKIN Air & Sound Control 3900 Doctor Greaves Road, Grandview, MO 64030 PRODUCT ELC6375DXD - EXTRUDED COMBINATION LOUVER TITLE BASIC LOUVER CONNECTION DETAILS			
CHECKED	DJR	11/15/2008				
APPROVED	DJR	11/15/2008				
MATERIAL EXTRUDED ALUMINUM		PRODUCT ELC6375DXD - EXTRUDED COMBINATION LOUVER		TITLE BASIC LOUVER CONNECTION DETAILS		
ECN		SIZE B	DWG NO 60-022114-00B		REV E	
		SCALE N.T.S.	INVENTOR		SHEET 3 OF 16	

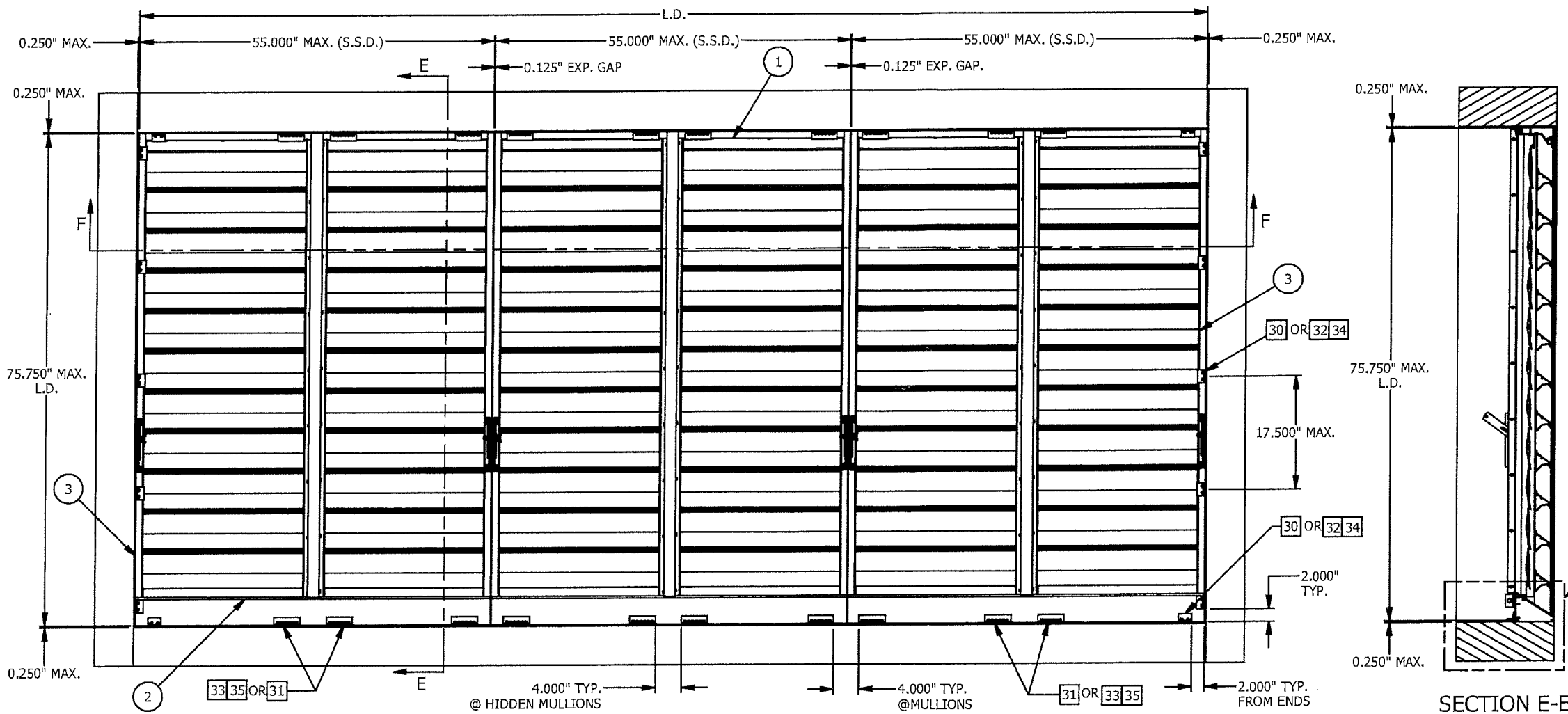


MELISSA M. MASSAR, P.E.
NO. 84659

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Building Code
NOA-No. **18-1106.03**
Expiration Date **02/11/2024**
By *[Signature]*
Miami-Dade Product Control

REF DETAIL H/06
FOR STANDARD HEAD/SILL
INSTALLATION DETAIL
REF DETAIL L/06 & M/06
FOR ALTERNATE HEAD/SILL INSTALLATION DETAILS

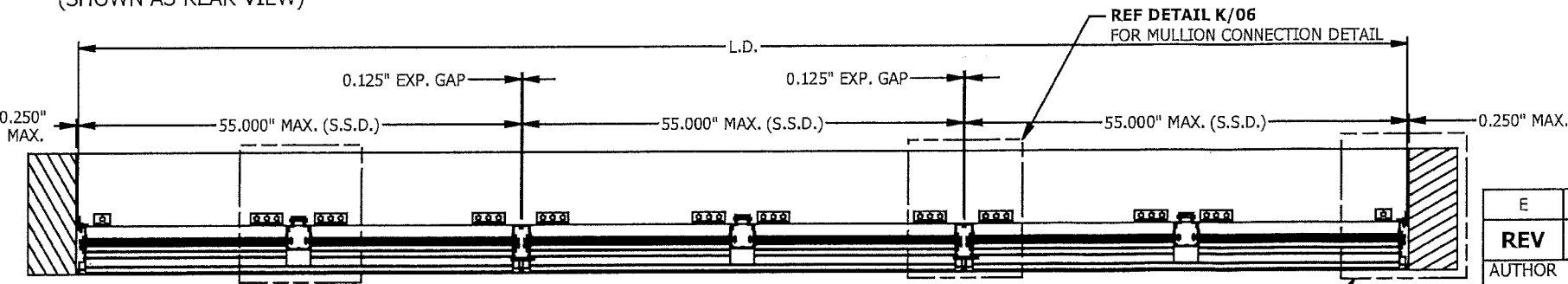
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **20-0909.06**
Expiration Date **02/11/2024**
By *[Signature]*
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SECTION E-E

ASSEMBLY 'A' & SECTION VIEWS

N.T.S.
MAX. SHIP SECTION : **55" W X 75.75" H** (REF SHEET 2 FOR SINGLE SECTION CONSTRUCTION)
(SHOWN AS REAR VIEW)



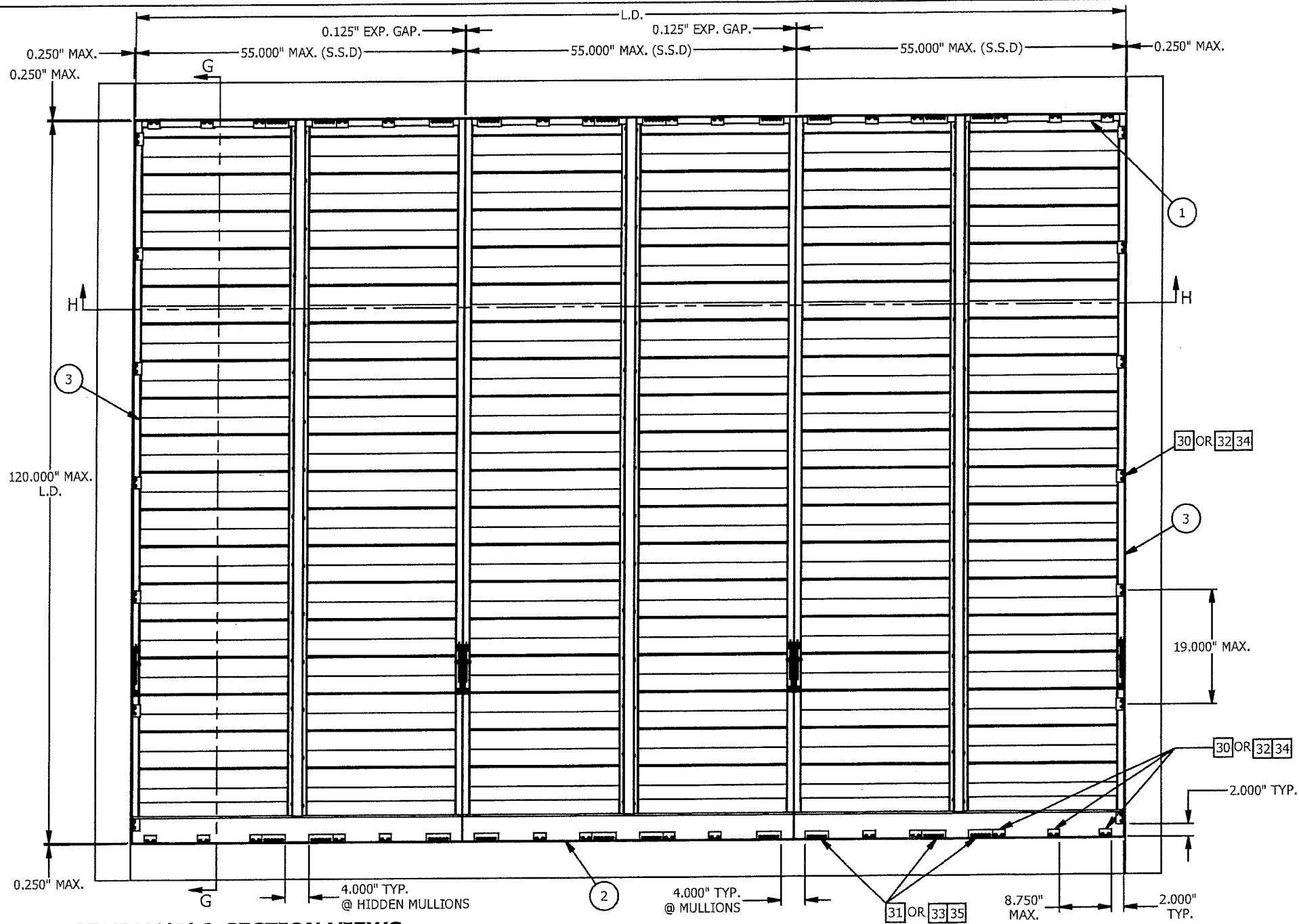
SECTION F-F

REF DETAIL D/03
FOR HIDDEN MULLION
SUPPORT CONNECTION DETAIL

REF DETAIL K/06
FOR MULLION CONNECTION DETAIL

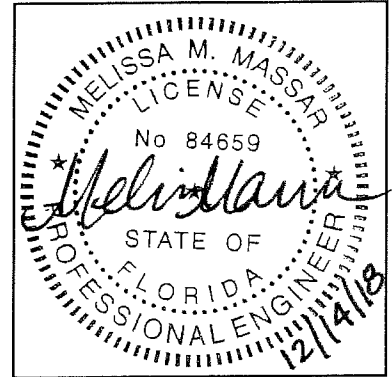
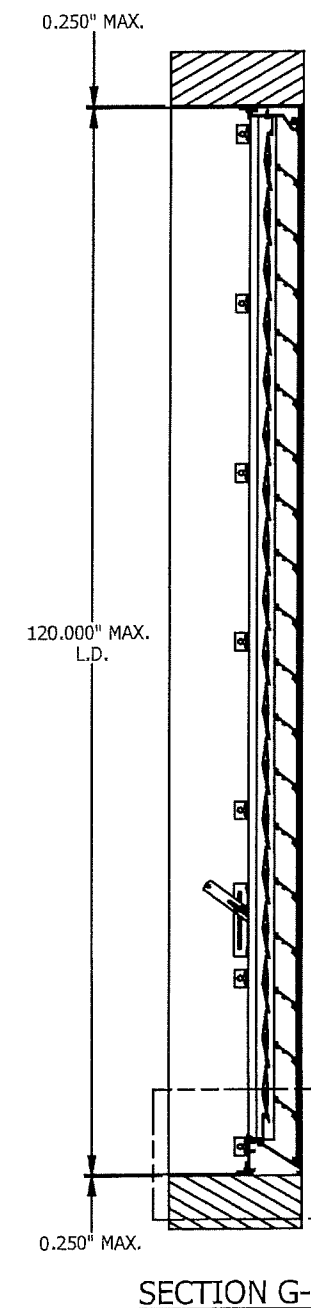
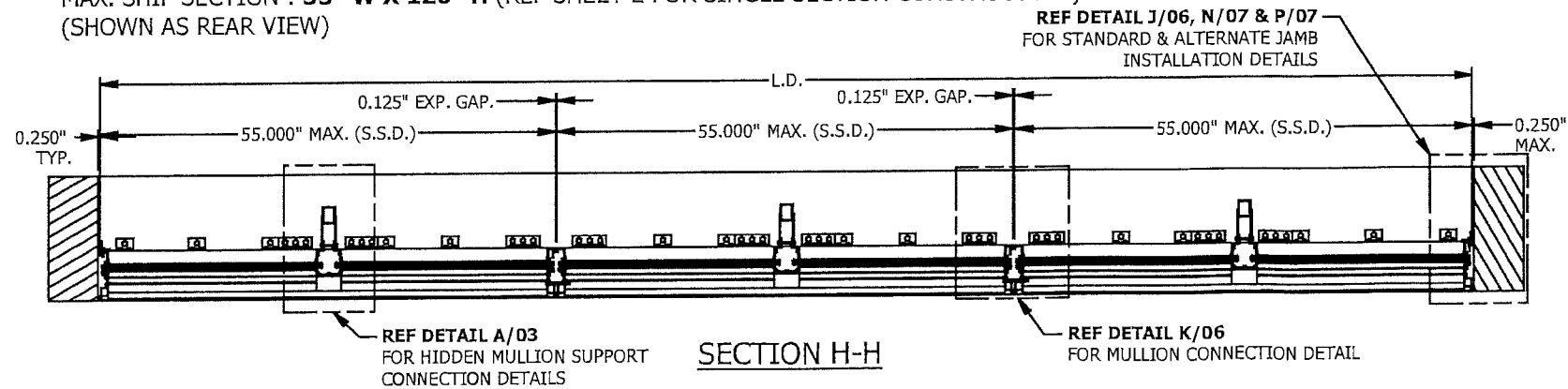
REF DETAIL J/06, N/07 & P/07
FOR STANDARD & ALTERNATE JAMB
INSTALLATION DETAILS

E	REV'D ENGINEER OF RECORD, UPDATED INFO.				NS	MMM	MMM		10/24/18
REV	DESCRIPTION				BY	CHK	APVD	ECN	DATE
AUTHOR		ENK	8/15/2008	RUSKIN Air & Sound Control 3900 Doctor Greaves Road, Grandview, MO 64030					
CHECKED		DJR	11/15/2008						
APPROVED		DJR	11/15/2008						
MATERIAL EXTRUDED ALUMINUM				PRODUCT ELC6375DXD - EXTRUDED COMBINATION LOUVER					
				TITLE ASSEMBLY 'A' & SECTION VIEWS					
				SIZE B		DWG NO 60-022114-00B			REV E
ECN			SCALE N.T.S.		INVENTOR		SHEET 4 OF 16		



ASSEMBLY 'B' & SECTION VIEWS

N.T.S.
 MAX. SHIP SECTION : 55" W X 120" H (REF SHEET 2 FOR SINGLE SECTION CONSTRUCTION)
 (SHOWN AS REAR VIEW)



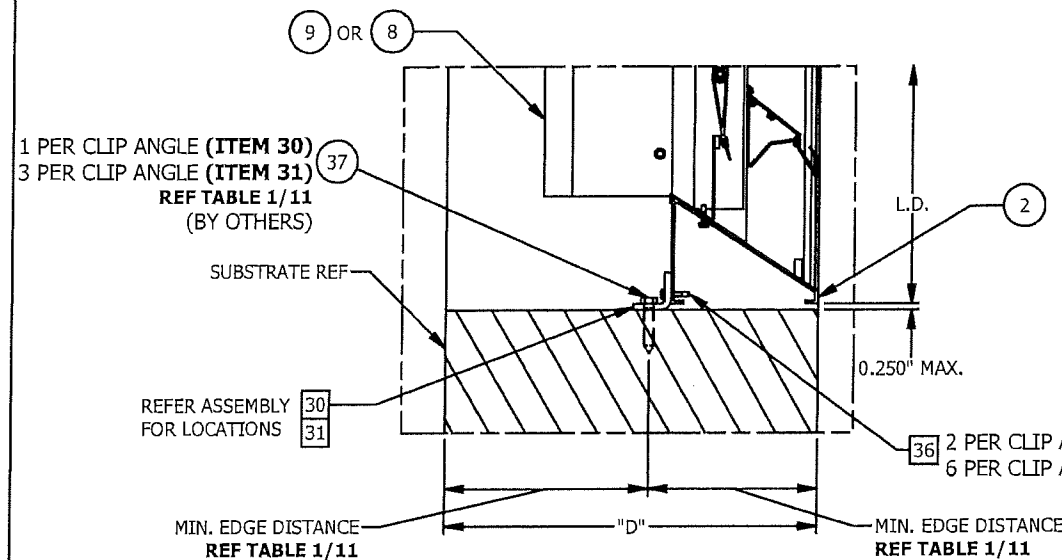
MELISSA M. MASSAR, P.E.
 NO. 84659

PRODUCT REVISED
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 Expiration Date **02/11/2024**
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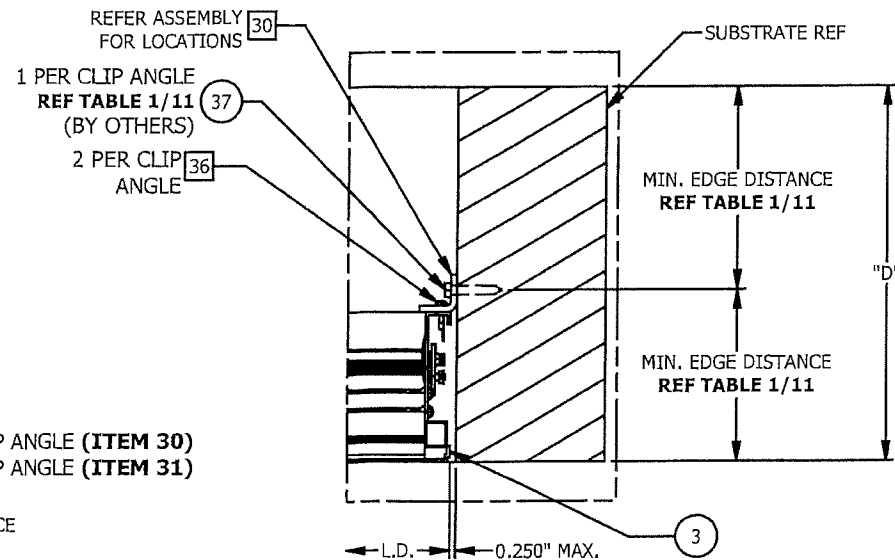
PRODUCT REVISED
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 NOA-No. **20-0909.06**
 Expiration Date **02/11/2024**
 By *[Signature]*
 Miami-Dade Product Control

REF DETAIL H/06
 FOR STANDARD HEAD/SILL
 INSTALLATION DETAIL
 REF DETAIL L/06 & M/06
 FOR ALTERNATE HEAD/SILL
 INSTALLATION DETAIL

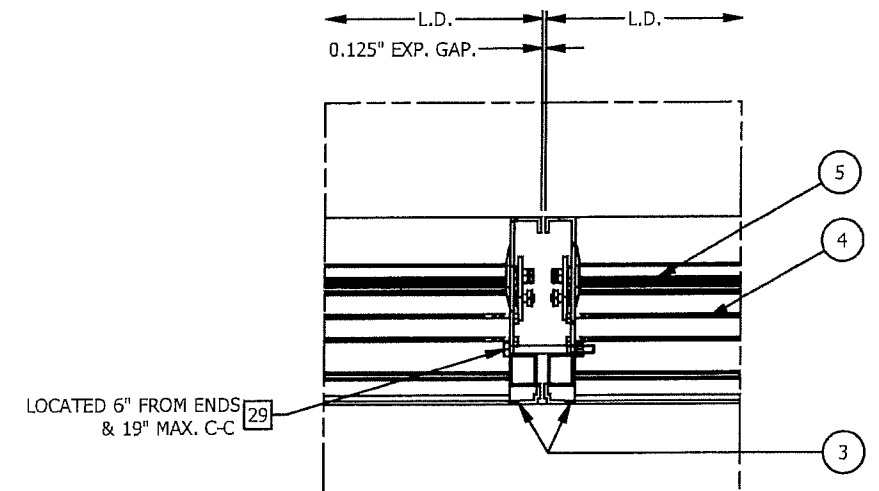
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REV	DESCRIPTION				BY	CHK	APVD	ECN	DATE
AUTHOR	ENK	8/15/2008	RUSKIN Air & Sound Control 3900 Doctor Greaves Road, Grandview, MO 64030						
CHECKED	DJR	11/15/2008							
APPROVED	DJR	11/15/2008							
MATERIAL EXTRUDED ALUMINUM			PRODUCT ELC6375DXD - EXTRUDED COMBINATION LOUVER						
			TITLE ASSEMBLY 'B' & SECTION VIEWS						
			SIZE B		DWG NO 60-022114-00B			REV E	
ECN			SCALE N.T.S.		INVENTOR		SHEET 5 OF 16		



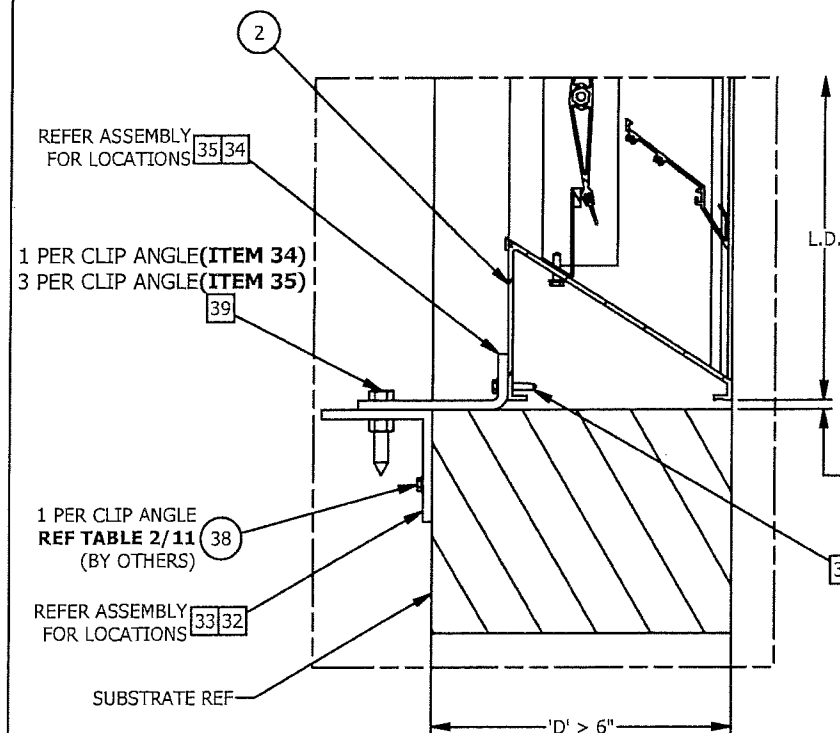
DETAIL H
STANDARD INSTALLATION DETAIL @ HEAD/SILL



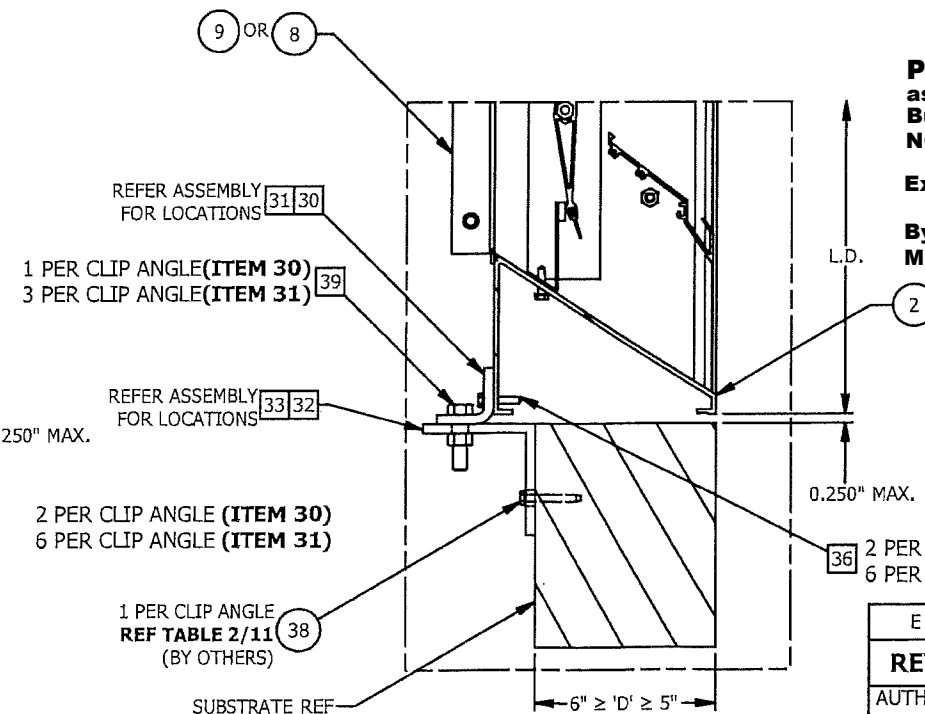
DETAIL J
STANDARD INSTALLATION DETAIL @ JAMB



DETAIL K
MULLION CONNECTION DETAIL
(CLIP ANGLES NOT SHOWN FOR CLARITY)



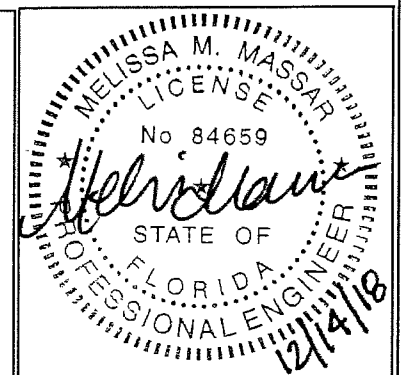
DETAIL L
ALTERNATE INSTALLATION DETAIL @ HEAD/SILL
USED WHEN MIN. EDGE DISTANCE PER TABLE 1/11
CANNOT BE MET



DETAIL M
ALTERNATE INSTALLATION DETAIL @ HEAD/SILL
USED WHEN MIN. EDGE DISTANCE PER TABLE 1/11
CANNOT BE MET

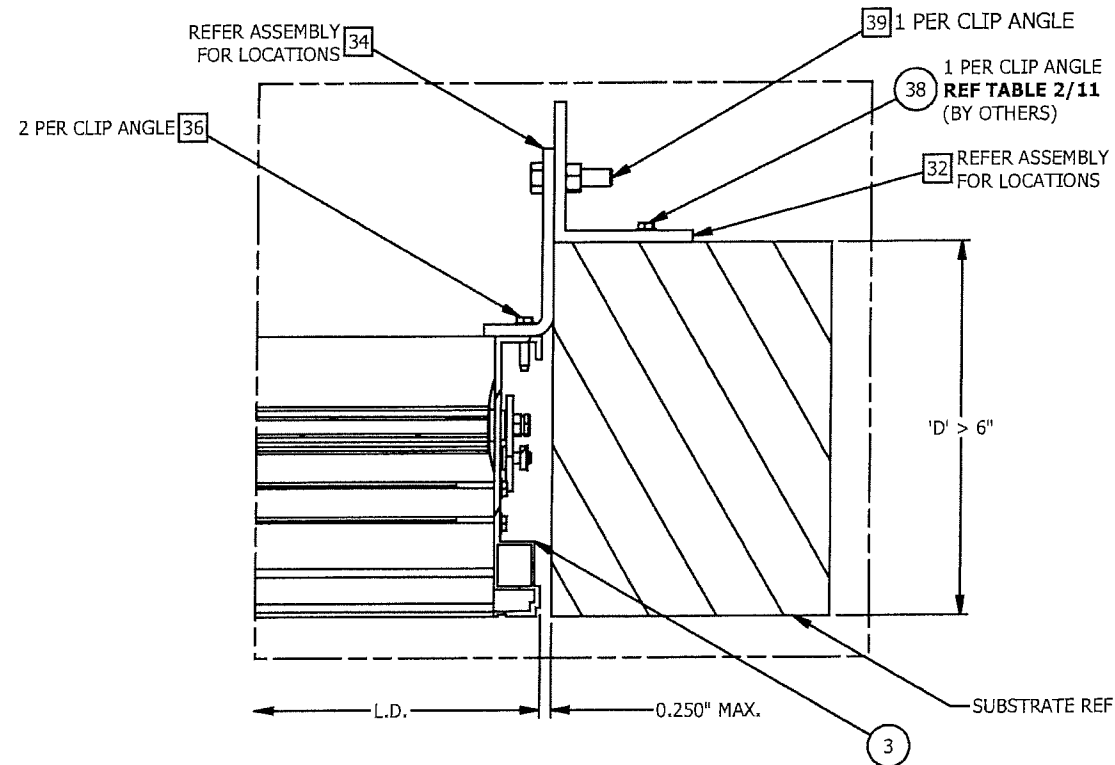
PRODUCT REVISED
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Building Code
NOA-No. 20-0909.06
Expiration Date 02/11/2024
By *[Signature]*
Miami-Dade Product Control

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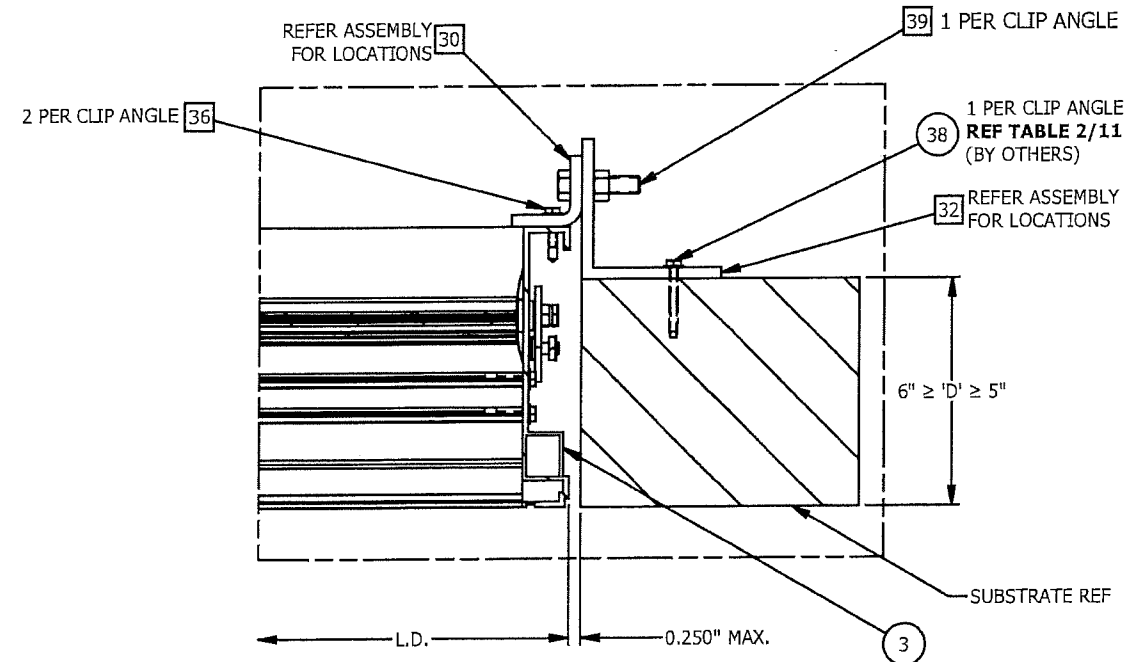


MELISSA M. MASSAR, P.E.
NO. 84659

E	REV'D ENGINEER OF RECORD, UPDATED INFO.				NS	MMM	MMM	10/24/18		
REV	DESCRIPTION				BY	CHK	APVD	ECN	DATE	
AUTHOR		ENK	8/15/2008	RUSKIN Air & Sound Control 3900 Doctor Greaves Road, Grandview, MO 64030						
CHECKED		DJR	11/15/2008							
APPROVED		DJR	11/15/2008							
MATERIAL EXTRUDED ALUMINUM				PRODUCT ELC6375DXD - EXTRUDED COMBINATION LOUVER						
				TITLE STANDARD & ALTERNATE INSTALLATION DETAILS						
				SIZE B		DWG NO 60-022114-00B				REV E
ECN			SCALE N.T.S.	INVENTOR		SHEET 6 OF 16				



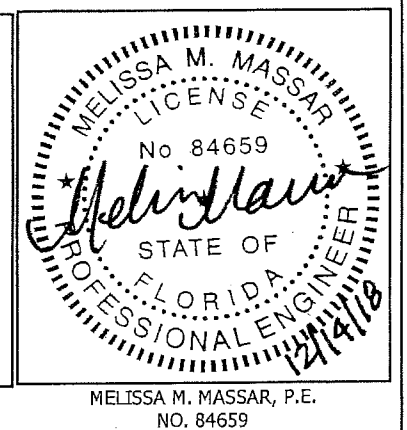
DETAIL N
 ALTERNATE INSTALLATION DETAIL @ JAMB
 USED WHEN MIN. EDGE DISTANCE PER TABLE 1/11
 CANNOT BE MET



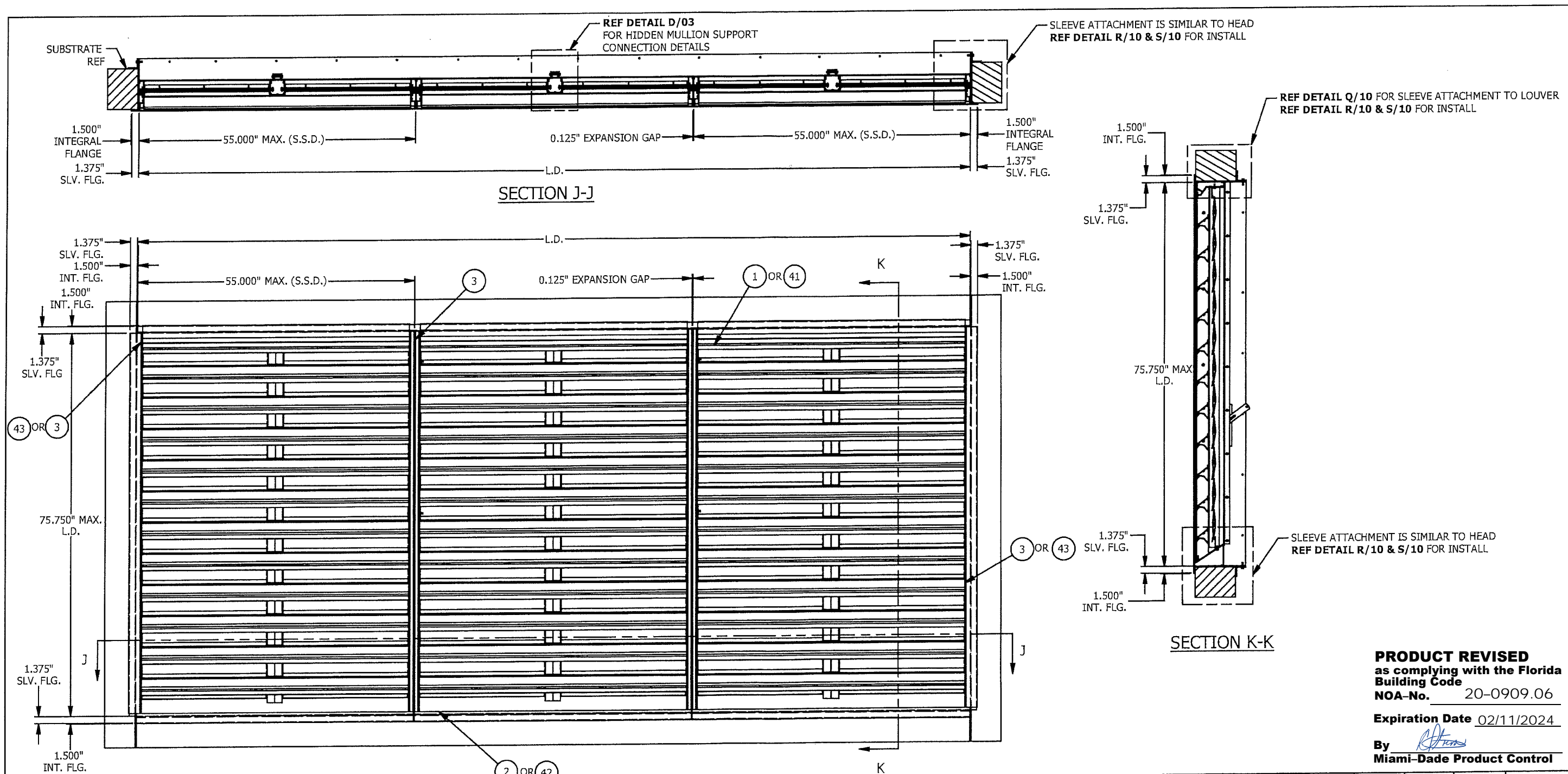
DETAIL P
 ALTERNATE INSTALLATION DETAIL @ JAMB
 USED WHEN MIN. EDGE DISTANCE PER TABLE 1/11
 CANNOT BE MET

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E	REV'D ENGINEER OF RECORD, UPDATED INFO.					NS	MMM	MMM		10/24/18
REV	DESCRIPTION					BY	CHK	APVD	ECN	DATE
AUTHOR		ENK	8/15/2008	RUSKIN Air & Sound Control 3900 Doctor Greaves Road, Grandview, MO 64030						
CHECKED		DJR	11/15/2008							
APPROVED		DJR	11/15/2008							
MATERIAL EXTRUDED ALUMINUM				PRODUCT ELC6375DXD - EXTRUDED COMBINATION LOUVER						
				TITLE ALTERNATE INSTALLATION DETAILS						
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ECN			SCALE N.T.S.		INVENTOR		SHEET 7 OF 16			



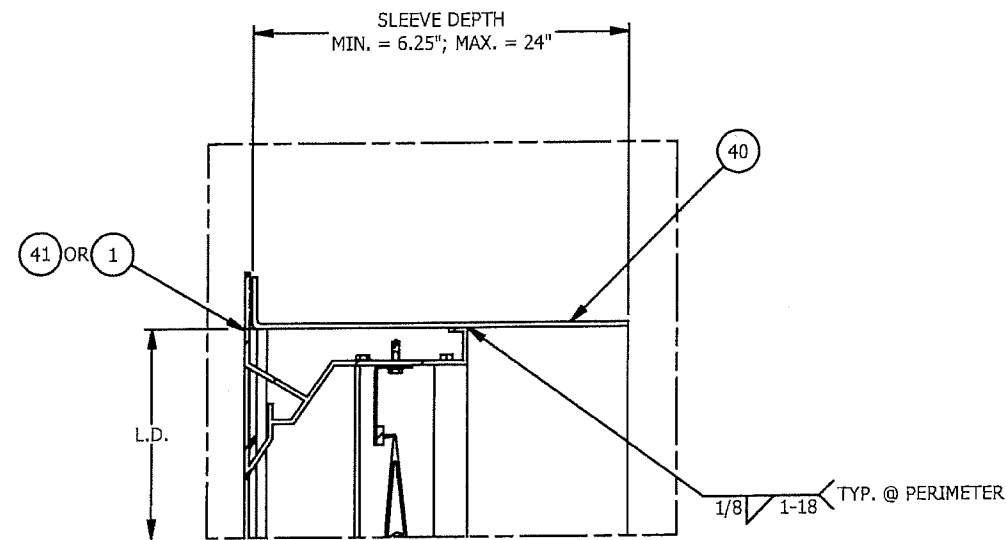
ASSEMBLY 'C' - UNIVERSAL SLEEVE
N.T.S.
MAX. SHIP SECTION : **55" W X 75.75" H**
(REF SHEET 2 FOR SINGLE SECTION CONSTRUCTION)

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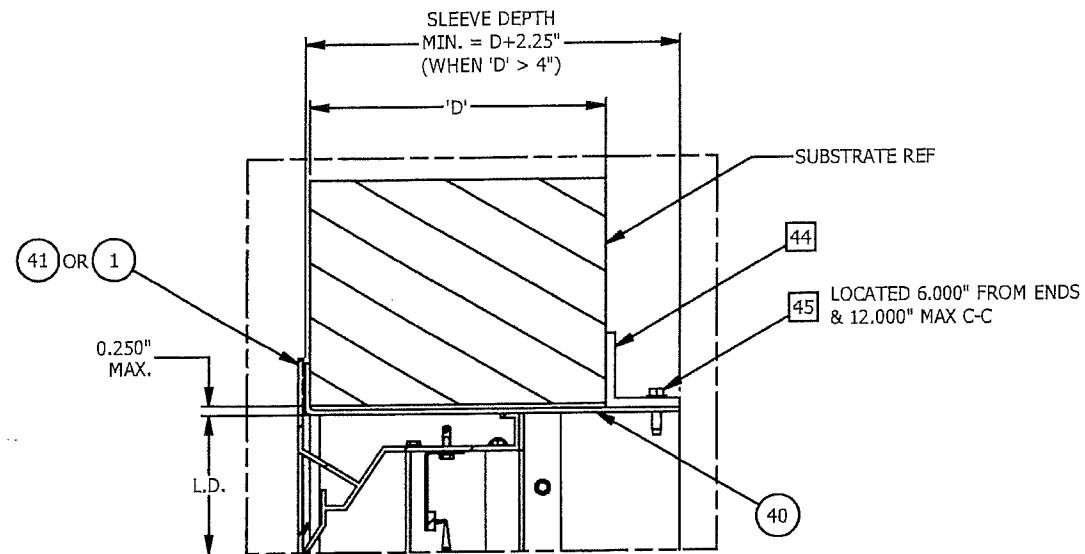


MELISSA M. MASSAR, P.E.
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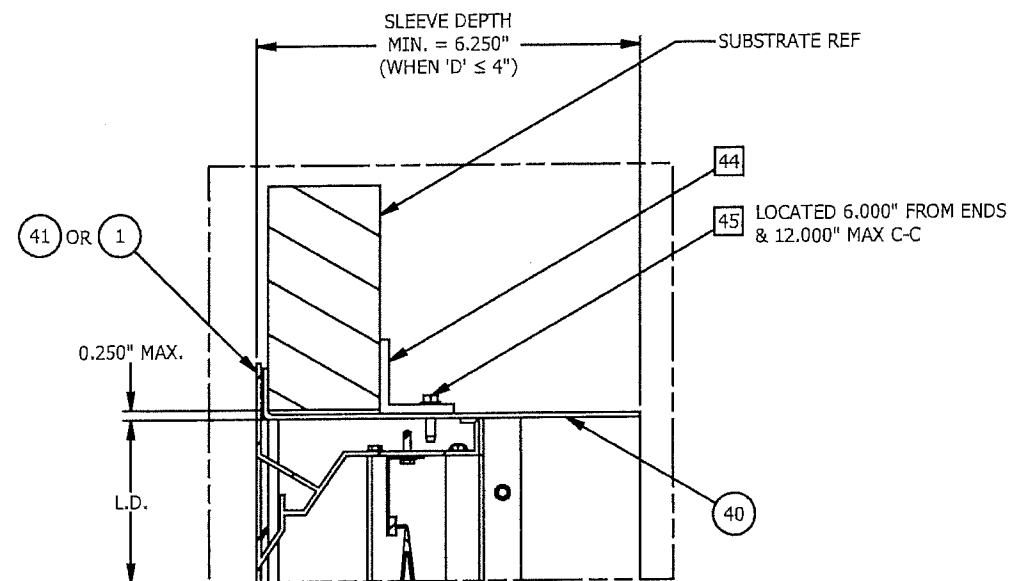
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REV	DESCRIPTION					BY	CHK	APVD	ECN	DATE
AUTHOR		ENK	8/15/2008		RUSKIN Air & Sound Control 3900 Doctor Greaves Road, Grandview, MO 64030					
CHECKED		DJR	11/15/2008							
APPROVED		DJR	11/15/2008							
MATERIAL EXTRUDED ALUMINUM					PRODUCT ELC6375DXD - EXTRUDED COMBINATION LOUVER					
					TITLE ASSEMBLY 'C' & SECTION VIEWS - UNIVERSAL SLEEVE					
					SIZE B				DWG NO 60-022114-00B	
ECN				SCALE N.T.S.		INVENTOR		SHEET 8 OF 16		



DETAIL Q
UNIVERSAL SLEEVE WELDING DETAIL
(TYP. AT PERIMETER)



DETAIL R
UNIVERSAL SLEEVE CONNECTION DETAIL
(TYP. AT PERIMETER)



DETAIL S
UNIVERSAL SLEEVE CONNECTION DETAIL
(TYP. AT PERIMETER)



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E	REV'D ENGINEER OF RECORD, UPDATED INFO.				NS	MMM	MMM	10/24/18	
REV	DESCRIPTION				BY	CHK	APVD	ECN	DATE
AUTHOR	ENK	8/15/2008	RUSKIN Air & Sound Control 3900 Doctor Greaves Road, Grandview, MO 64030						
CHECKED	DJR	11/15/2008							
APPROVED	DJR	11/15/2008							
MATERIAL EXTRUDED ALUMINUM			PRODUCT ELC6375DXD - EXTRUDED COMBINATION LOUVER						
			TITLE UNIVERSAL SLEEVE ATTACHMENT DETAILS						
			SIZE B		DWG NO 60-022114-00B				REV E
ECN		SCALE N.T.S.	INVENTOR		SHEET 10 OF 16				

TABLE 01 - STANDARD CLIP ANGLE INSTALLATION SUBSTRATE FASTENER (ITEM 37) (BY OTHERS)				
SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	FASTENER TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE
WOOD	3" THICK, 0.42 SPECIFIC GRAVITY	3/8" DIA. BOLT W/NUT, MIN. A307 GRADE A	3 THREADS BEYOND NUT	2"
		3/8" DIA. LAG SCREW, 2" LONG, MIN. A307 GRADE A	1 3/4"	2"
STEEL	16 GA, 45 KSI TENSILE STRENGTH, 33 KSI YIELD STRENGTH	3/8" DIA. BOLT W/NUT, MIN. A307 GRADE A	3 THREADS BEYOND NUT	3/4"
		3/8" SELF TAPPING SCREW, CARBON STEEL	3 THREADS BEYOND SUBSTRATE	3/4"
CONCRETE	2500 PSI COMP. STRENGTH, UNCRACKED	1/4" DIA. HILTI KWIK BOLT 3, CARBON STEEL, W/WASHER	1 1/2"	3"

TABLE 02 - DOUBLE CLIP ANGLE INSTALLATION SUBSTRATE FASTENER (ITEM 38) (BY OTHERS)				
SUBSTRATE TYPE	MIN. SUBSTRATE REQUIREMENTS	FASTENER TYPE	MIN. EMBEDMENT	MIN. WALL DEPTH
CONCRETE	2500 PSI COMP. STRENGTH, UNCRACKED	3/8" DIA. DEWALT SCREW-BOLT + SCREW ANCHOR, CARBON STEEL	3 1/4"	5"
GROUT FILLED CMU	ASTM C-90 BLOCK, 1500 PSI GROUT COMP. STRENGTH	3/8" DIA. DEWALT SCREW-BOLT + SCREW ANCHOR, CARBON STEEL	3 1/4"	6" NOM. (5.625" ACT.)

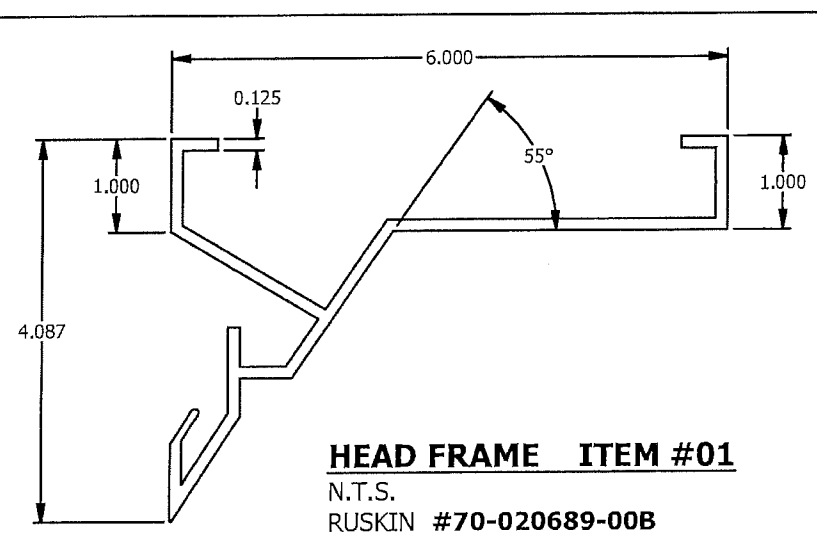


MELISSA M. MASSAR, P.E.
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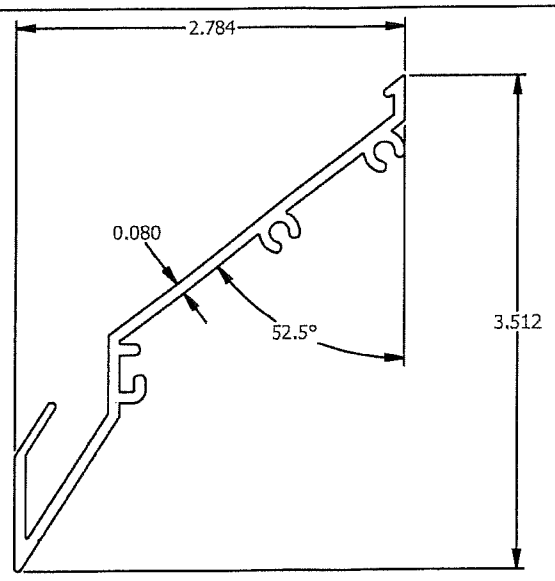
PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. **18-1106.03**
Expiration Date **02/11/2024**
By
Miami-Dade Product Control

PRODUCT REVISED
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Expiration Date **02/11/2024**
By
Miami-Dade Product Control

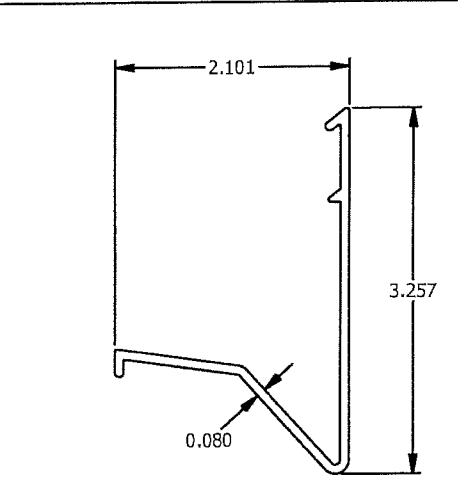
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REV	DESCRIPTION				BY	CHK	APVD	ECN	DATE
AUTHOR	ENK	8/15/2008	RUSKIN Air & Sound Control 3900 Doctor Greaves Road, Grandview, MO 64030						
CHECKED	DJR	11/15/2008							
APPROVED	DJR	11/15/2008							
MATERIAL EXTRUDED ALUMINUM			PRODUCT ELC6375DXD - EXTRUDED COMBINATION LOUVER						
			TITLE SUBSTRATE FASTENER TABLES						
			SIZE B		DWG NO	60-022114-00B		REV E	
ECN			SCALE N.T.S.		INVENTOR	SHEET 11 OF 16			



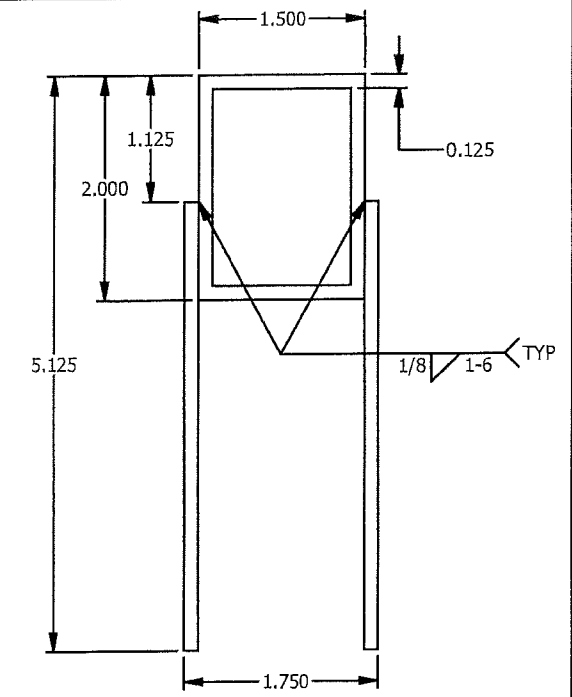
HEAD FRAME ITEM #01
N.T.S.
RUSKIN #70-020689-00B



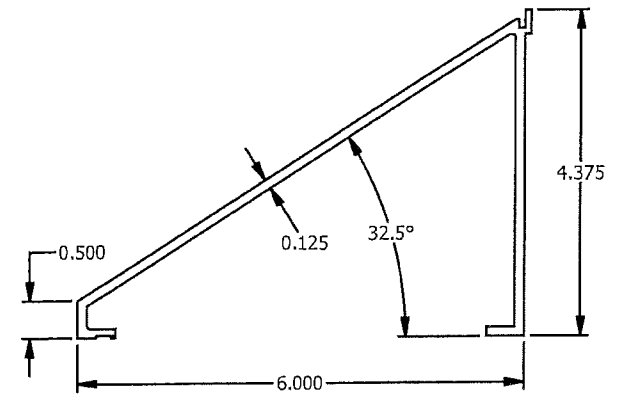
DRAINABLE FIXED BLADE ITEM #04
N.T.S.
RUSKIN #70-021718-00B



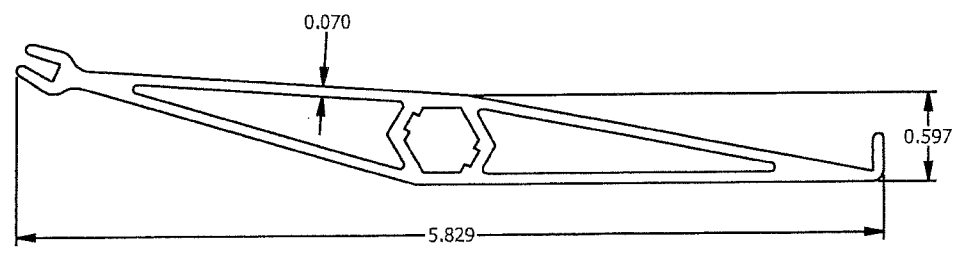
BLADE BRACE ITEM #07
N.T.S.
RUSKIN #70-021719-00B



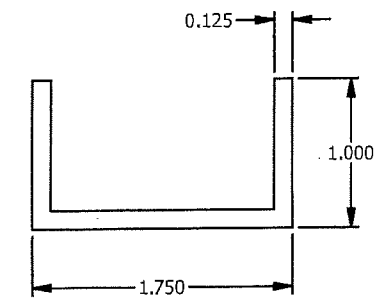
MULLION SUPPORT ITEM #09
N.T.S.



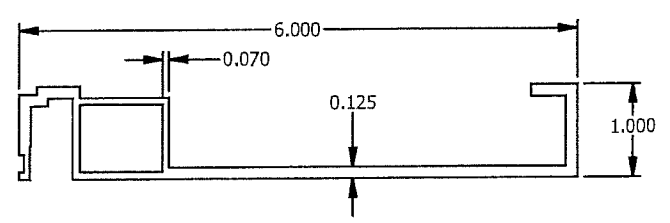
SILL FRAME ITEM #02
N.T.S.
RUSKIN #70-021130-00B



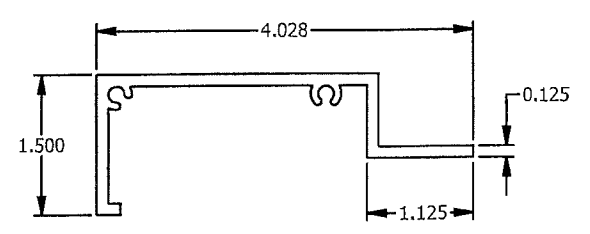
ADJUSTABLE BLADE ITEM #05
N.T.S.
RUSKIN #70-021027-00B



MULLION SUPPORT CHANNEL ITEM #08
N.T.S.
RUSKIN #70-021797-00B



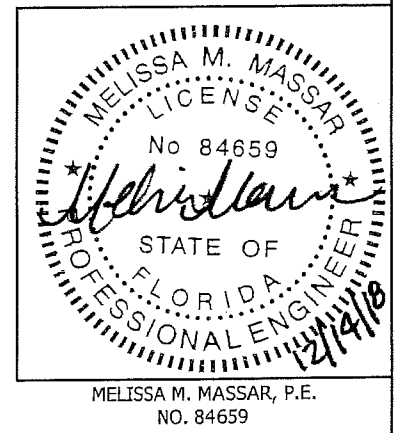
JAMB FRAME ITEM #03
N.T.S.
RUSKIN #70-020691-00B



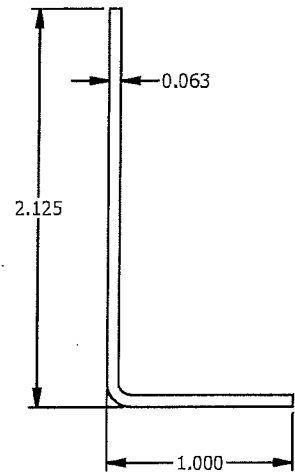
HIDDEN MULLION ITEM #06
N.T.S.
RUSKIN #70-021791-00B

PRODUCT REVISED
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Building Code
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By *[Signature]*
Miami-Dade Product Control

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Miami-Dade Product Control

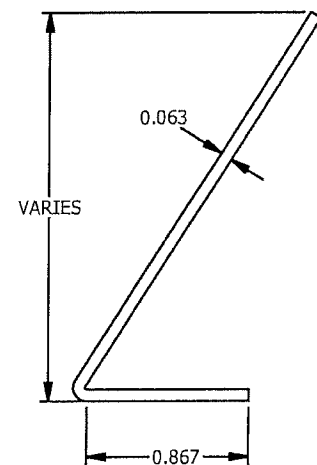


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REV	DESCRIPTION				BY	CHK	APVD	ECN	DATE
AUTHOR		ENK	8/15/2008	RUSKIN Air & Sound Control 3900 Doctor Greaves Road, Grandview, MO 64030					
CHECKED		DJR	11/15/2008						
APPROVED		DJR	11/15/2008						
MATERIAL EXTRUDED ALUMINUM				PRODUCT ELC6375DXD - EXTRUDED COMBINATION LOUVER					
				TITLE ELC6375DXD - PARTS					
				SIZE B		DWG NO 60-022114-00B			REV E
ECN			SCALE N.T.S.		INVENTOR		SHEET 12 OF 16		



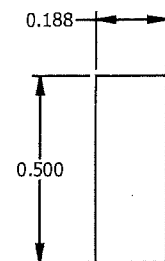
TOP BLADE STOP ITEM #10

N.T.S.
RUSKIN #70-007611-00B



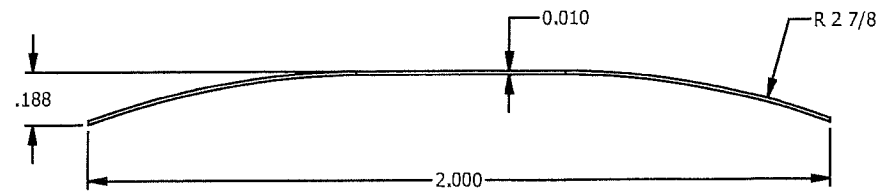
BOTTOM BLADE STOP ITEM #11

N.T.S.
RUSKIN #70-022225-00B



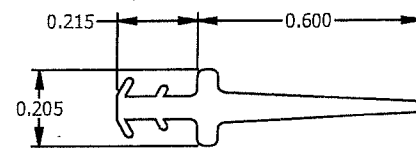
BLADE STOP SEAL ITEM #12

N.T.S.
RUSKIN #88-020135-00B



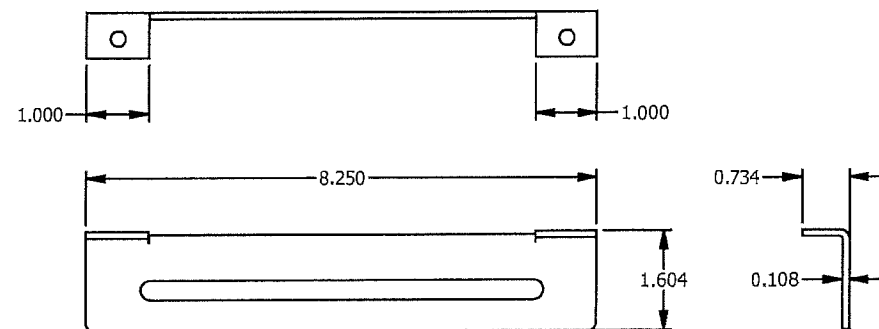
JAMB SEAL ITEM #13

N.T.S.
RUSKIN #80-020258-00B



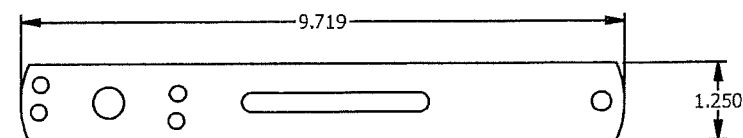
BLADE SEAL ITEM #14

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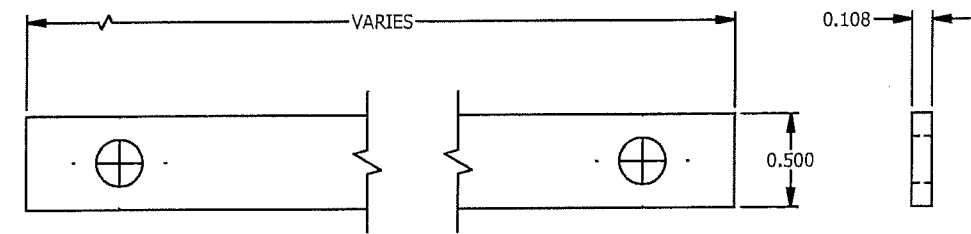
HAND QUADRANT PLATE ITEM #15

N.T.S.
RUSKIN #73-003023-01B



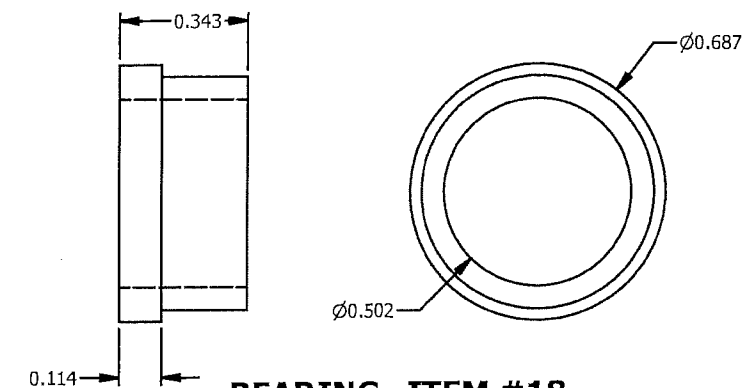
HAND QUADRANT ARM ITEM #16

N.T.S.
RUSKIN #73-003021-01B



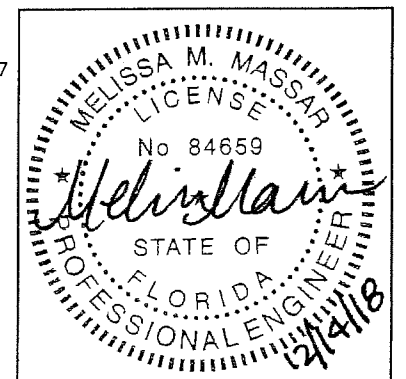
TIE-BAR ITEM #17

N.T.S.



BEARING ITEM #18

N.T.S.
RUSKIN# 79-002082-03B



MELISSA M. MASSAR, P.E.
NO. 84659

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **18-1106.03**
Expiration Date **02/11/2024**

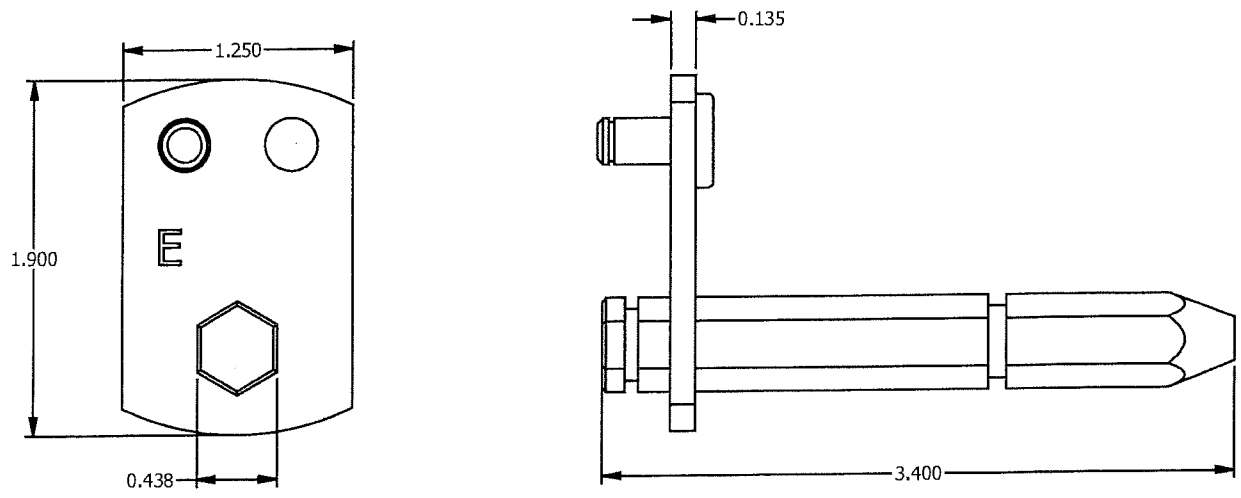
By *[Signature]*
Miami-Dade Product Control

PRODUCT REVISED
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Building Code
NOA-No. 20-0909.06

Expiration Date 02/11/2024

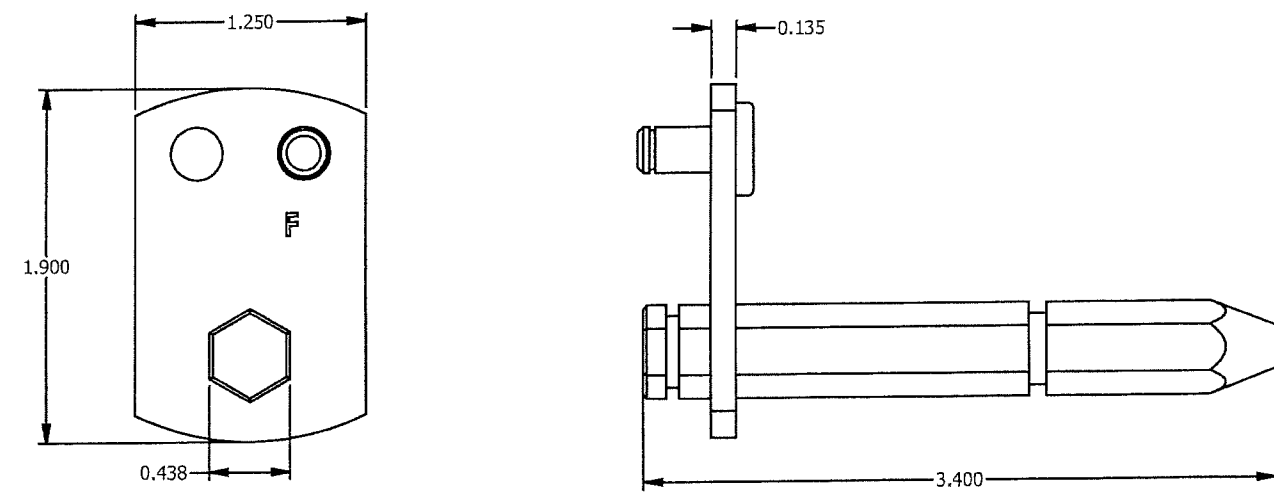
By *[Signature]*
Miami-Dade Product Control

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AUTHOR		ENK	8/15/2008	RUSKIN Air & Sound Control 3900 Doctor Greaves Road, Grandview, MO 64030						
CHECKED		DJR	11/15/2008							
APPROVED		DJR	11/15/2008							
MATERIAL EXTRUDED ALUMINUM				PRODUCT ELC6375DXD - EXTRUDED COMBINATION LOUVER						
				TITLE ELC6375DXD - PARTS						
				SIZE B		DWG NO 60-022114-00B				REV E
ECN			SCALE N.T.S.		INVENTOR		SHEET 13 OF 16			



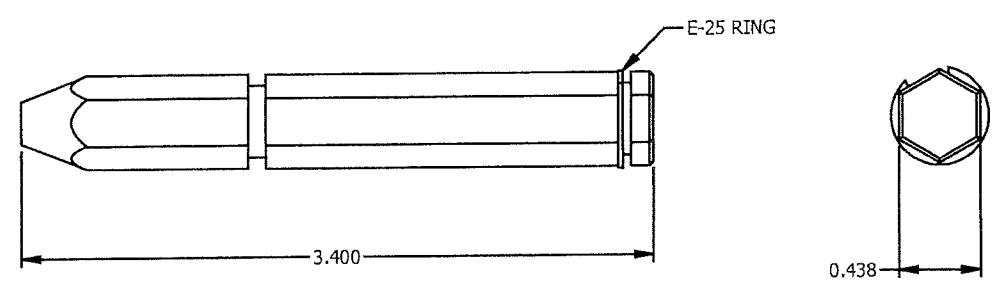
E-SIDE LINKAGE CRANK ARM ASSEMBLY ITEM #19

N.T.S.
RUSKIN# 77-000854-01B



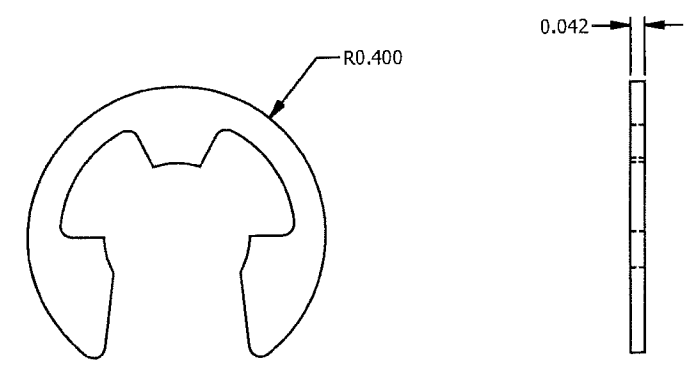
F-SIDE LINKAGE CRANK ARM ASSEMBLY ITEM #20

N.T.S.
RUSKIN# 77-002008-01B



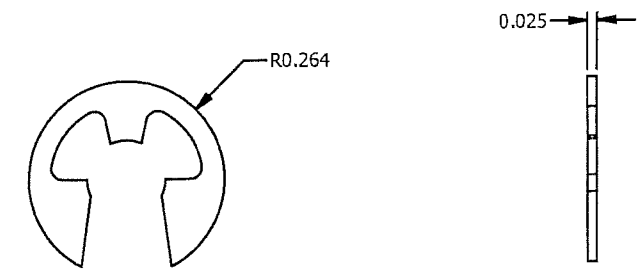
IDLER DRIVE AXLE ITEM #21

N.T.S.
RUSKIN# 77-007686-00A



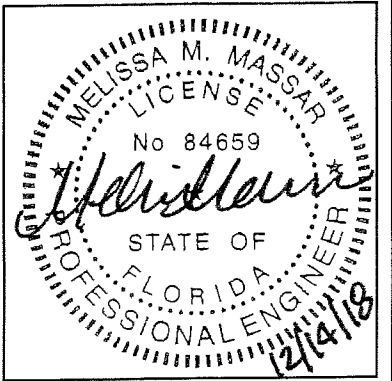
RETAINING RING: TRUARC E-50 ITEM #22

N.T.S.
RUSKIN# 88-020103-01B



RETAINING RING: TRUARC E-25 ITEM #23

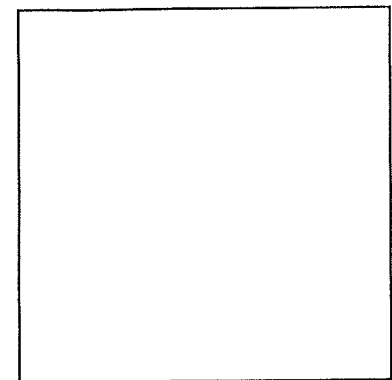
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MELISSA M. MASSAR, P.E.
NO. 84659

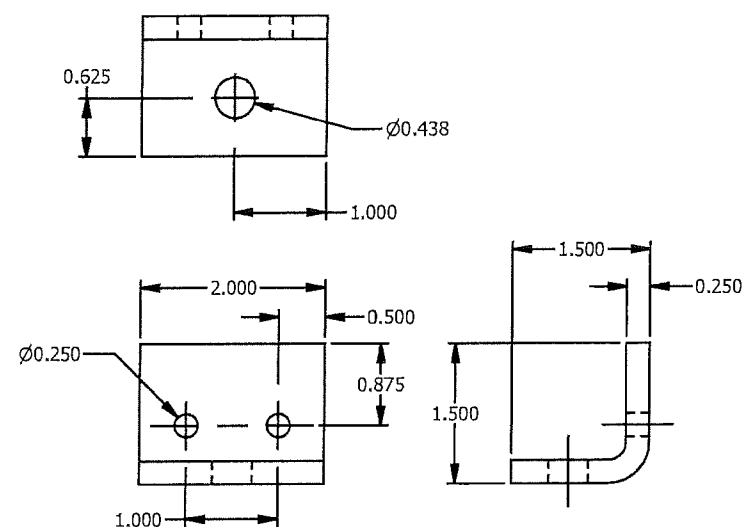
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 18-1106.03
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MELISSA M. MASSAR, P.E.
NO. 84659

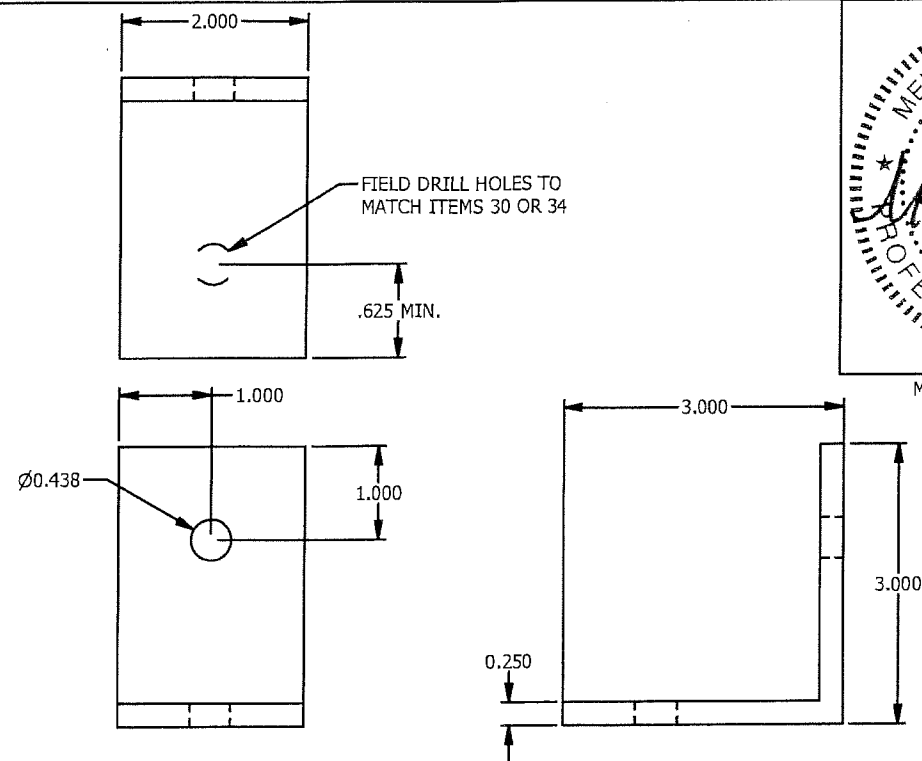
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AUTHOR	ENK	8/15/2008	RUSKIN Air & Sound Control 3900 Doctor Greaves Road, Grandview, MO 64030							
CHECKED	DJR	11/15/2008								
APPROVED	DJR	11/15/2008								
MATERIAL EXTRUDED ALUMINUM			PRODUCT ELC6375DXD - EXTRUDED COMBINATION LOUVER							
			TITLE ELC6375DXD - PARTS							
			SIZE B		DWG NO 60-022114-00B				REV E	
ECN			SCALE N.T.S.			INVENTOR		SHEET 14 OF 16		



FORMED CLIP ANGLE, 2" LG ITEM #30

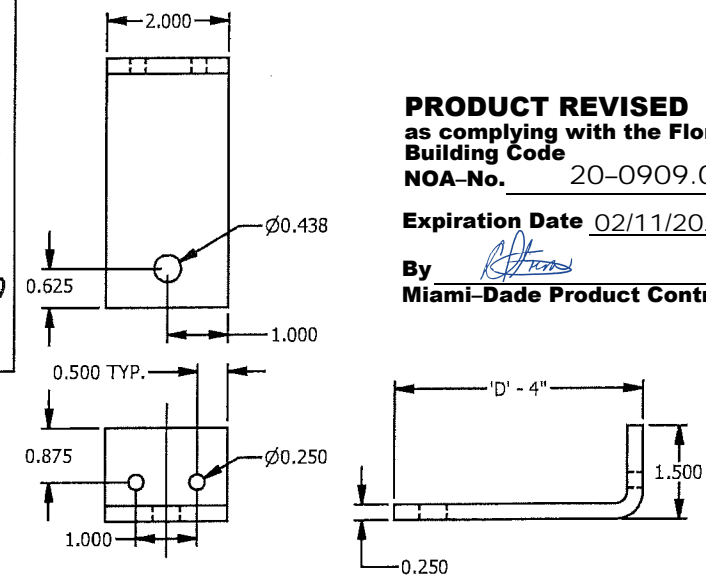
N.T.S.

RUSKIN# 85-021593-00B



ALTERNATE ATTACHMENT ANGLE, 2" LG ITEM #32

N.T.S.



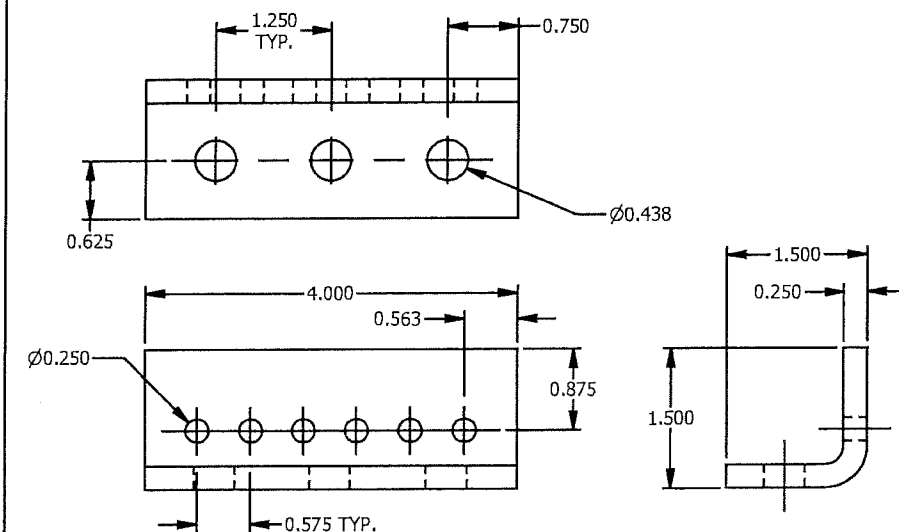
ALTERNATE FORMED CLIP ANGLE, 2" LG ITEM #34

N.T.S.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 20-0909.06

Expiration Date 02/11/2024

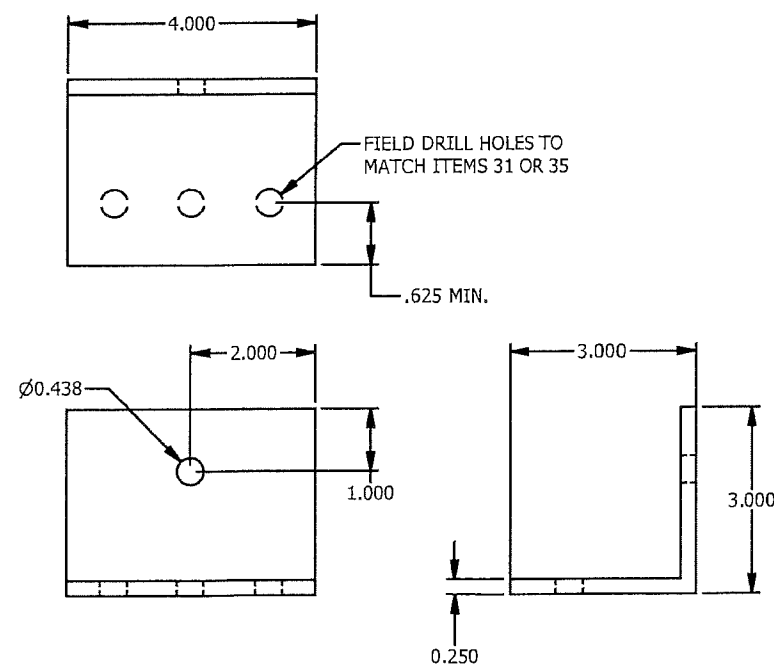
By *[Signature]*
Miami-Dade Product Control



FORMED CLIP ANGLE, 4" LG ITEM #31

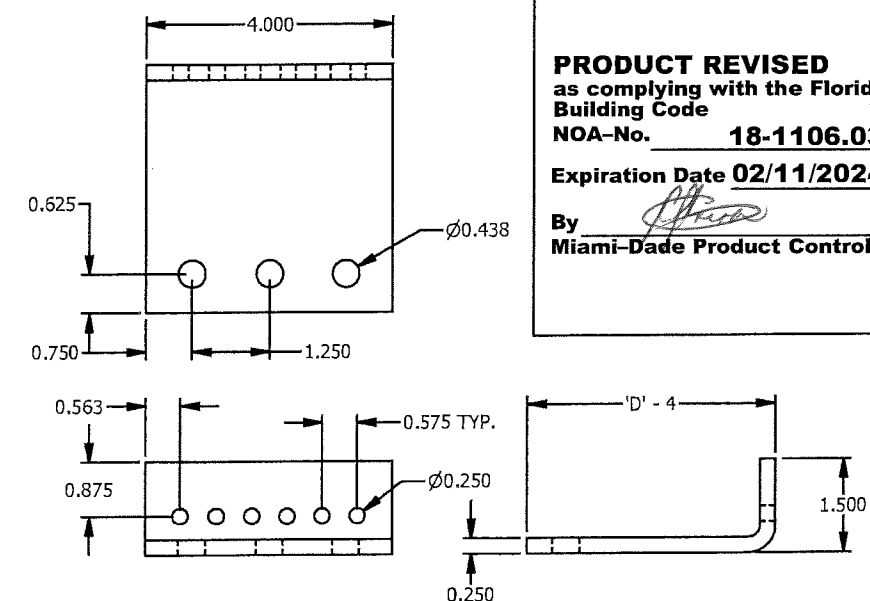
N.T.S.

RUSKIN# 85-021594-00B



ALTERNATE ATTACHMENT ANGLE, 4" LG ITEM #33

N.T.S.



ALTERNATE FORMED CLIP ANGLE, 4" LG ITEM #35

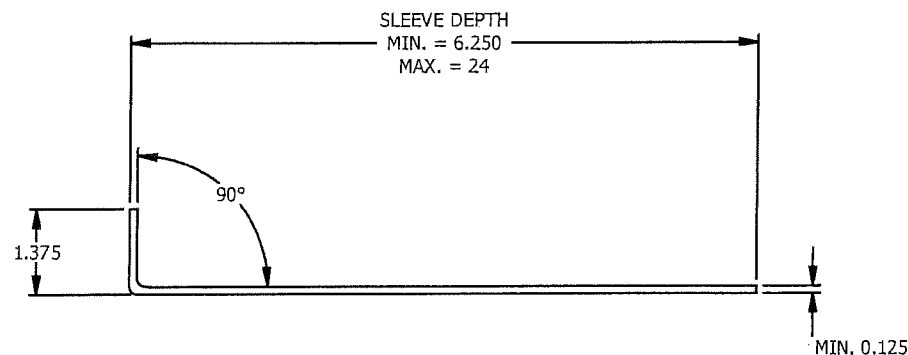
N.T.S.

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as complying with the Florida
Building Code
NOA-No. 18-1106.03

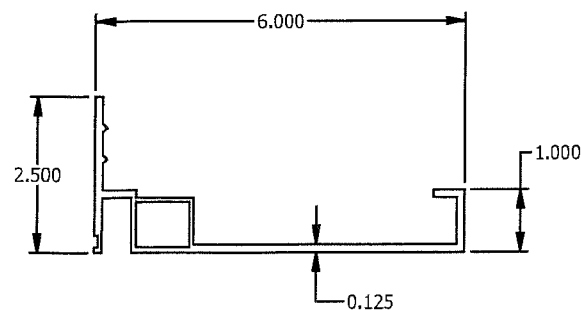
Expiration Date 02/11/2024

By *[Signature]*
Miami-Dade Product Control

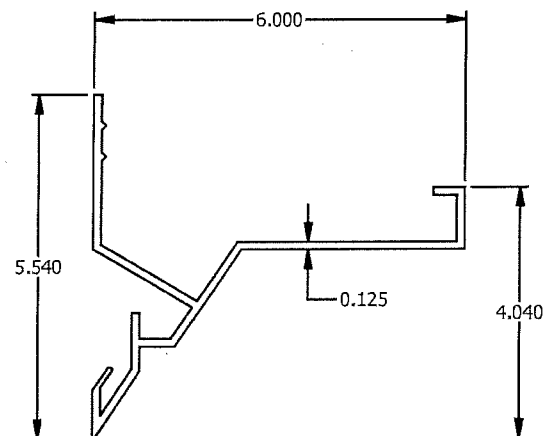
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REV	DESCRIPTION		BY	CHK	APVD	ECN	DATE
AUTHOR	ENK	8/15/2008	RUSKIN Air & Sound Control 3900 Doctor Greaves Road, Grandview, MO 64030				
CHECKED	DJR	11/15/2008					
APPROVED	DJR	11/15/2008					
MATERIAL EXTRUDED ALUMINUM			PRODUCT ELC6375DXD - EXTRUDED COMBINATION LOUVER				
			TITLE ELC6375DXD - PARTS				
			SIZE B		DWG NO 60-022114-00B		REV E
ECN			SCALE N.T.S.		INVENTOR		SHEET 15 OF 16



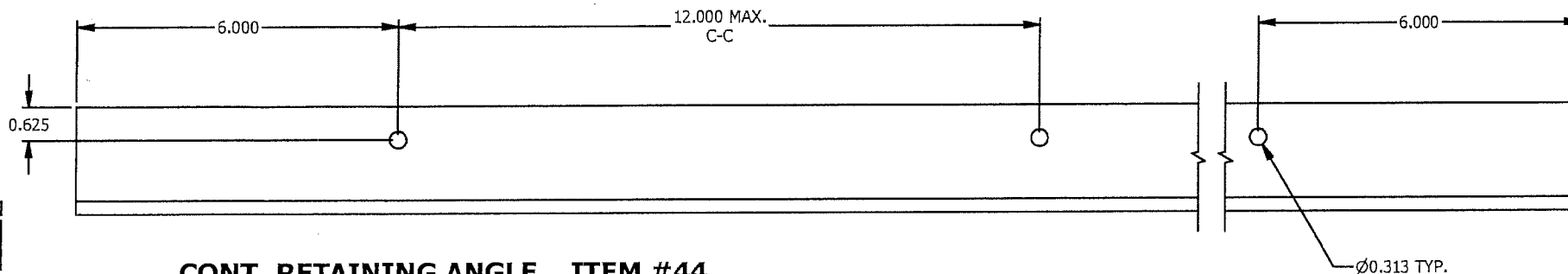
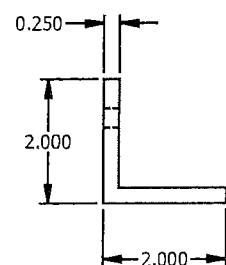
FRONT FLANGE UNIVERSAL SLEEVE ITEM #40
N.T.S.



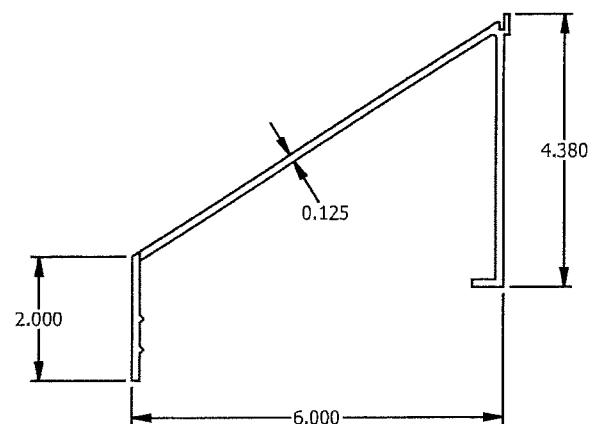
JAMB FRAME W/ INTEGRAL FLANGE ITEM #43
N.T.S.
RUSKIN #70-020840-00B



HEAD FRAME W/ INTEGRAL FLANGE ITEM #41
N.T.S.
RUSKIN #70-020838-00B

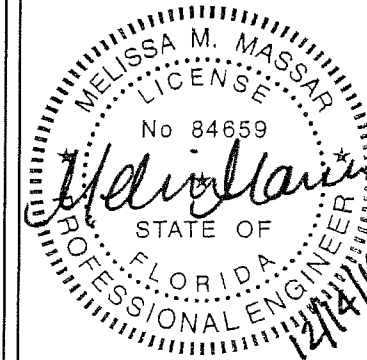


CONT. RETAINING ANGLE ITEM #44
N.T.S.



SILL FRAME W/ INTEGRAL FLANGE ITEM #42
N.T.S.
RUSKIN #70-021129-00B

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **18-1106.03**
Expiration Date **02/11/2024**
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MELISSA M. MASSAR, P.E.
NO. 84659

PRODUCT REVISED
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Building Code
NOA-No. **20-0909.06**
Expiration Date **02/11/2024**
By *[Signature]*
Miami-Dade Product Control

E	REV'D ENGINEER OF RECORD, UPDATED INFO.		NS	MMM	MMM		10/24/18
REV	DESCRIPTION		BY	CHK	APVD	ECN	DATE
AUTHOR	ENK	8/15/2008	RUSKIN Air & Sound Control 3900 Doctor Greaves Road, Grandview, MO 64030				
CHECKED	DJR	11/15/2008					
APPROVED	DJR	11/15/2008					
MATERIAL EXTRUDED ALUMINUM			PRODUCT ELC6375DXD - EXTRUDED COMBINATION LOUVER				
			TITLE ELC6375DXD - PARTS				
			SIZE B		DWG NO 60-022114-00B		REV E
ECN		SCALE N.T.S.	INVENTOR		SHEET 16 OF 16		