



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)

**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 ACL645D Aluminum Louver

**APPROVAL DOCUMENT** Drawing No. **60-022202-00D**, titled "ACL645D Louver", sheets 1 through 6 of 6, dated 03/30/2011, with revision B dated 03/30/22, prepared by Ruskin Company, signed and sealed by Jeffrey Devon Smith, P.E., on 04/05/2022, 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, 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 # **22-1110.02** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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



*S.2.*  
02/01/2024

NOA No. 23-1116.10  
Expiration Date: April 28, 2027  
Approval Date: February 01, 2024  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **60-022202-00D**, titled "ACL645D Louver", sheets 1 through 6 of 6, dated 03/30/2011, with revision B dated 03/30/22, prepared by Ruskin Company, signed and sealed by Jeffrey Devon Smith, P.E., on 04/05/2022.  
***"Submitted under NOA # 22-1110.02"***

**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 Series ACL645D Aluminum Louvers", prepared by National Certified Testing Laboratories, Report No. **210-3711-1**, dated 11/05/2010, signed and sealed by Gerald J. Ferrara, P.E.  
***"Submitted under NOA # 11-0207.20"***
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 Series ACL645D Aluminum Louvers", prepared by National Certified Testing Laboratories, Report No. **NCTL-210-4244-01**, dated 03/18/2022, signed and sealed by Douglas J. McDougall, P.E.  
***"Submitted under NOA # 22-0407.05"***

**C. CALCULATIONS**

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Ruskin Company, dated 01/07/2011, signed and sealed by William J. Mossie, P.E. ***"Submitted under NOA # 11-0207.20"***
2. Anchor verification calculations and structural analysis, complying with FBC-2020, prepared by Ruskin Company, signed and sealed by Jeffrey Devon Smith, P.E., on 04/05/2022. ***"Submitted under NOA # 22-1110.02"***

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None.



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Sifang Zhao, P.E.  
Product Control Examiner  
NOA No. 23-1116.10  
Expiration Date: April 28, 2027  
Approval Date: February 01, 2023

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS**

1. Statement letter of code conformance to the 5<sup>th</sup> edition (2014) FBC issued by Ruskin Company, dated 06/14/2016, signed and sealed by Daniel J. Rau, P.E. ***“Submitted under NOA # 16-0627.11”***
2. Statement letter of no financial interest, issued by Ruskin Company, dated 07/17/2013, signed and sealed by Daniel J. Rau, P.E. ***“Submitted under NOA # 13-0521.09”***
3. Statement letter of code conformance to the 6<sup>th</sup> edition (2017) FBC issued by Ruskin Company, dated 10/09/2017, signed and sealed by Daniel J. Rau, P.E. ***“Submitted under NOA # 17-1025.04”***
4. Statement letter of code conformance to the 7<sup>th</sup> edition (2020) of the FBC, issued by Ruskin Company, dated 09/28/2021, signed and sealed by Jeffrey D. Smith, P.E. ***“Submitted under NOA # 21-0312.01”***
5. Testing contract letter, issued by National Certified Testing Laboratory, dated 06/07/2021, signed by Christopher Bennett, Division Manager. ***“Submitted under NOA # 21-0312.01”***
6. Statement letter of code conformance to the **8<sup>th</sup> 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 # 22-1110.02** for the 8<sup>th</sup> edition (2023) of the FBC update.



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Sifang Zhao, P.E.  
Product Control Examiner  
NOA No. 23-1116.10  
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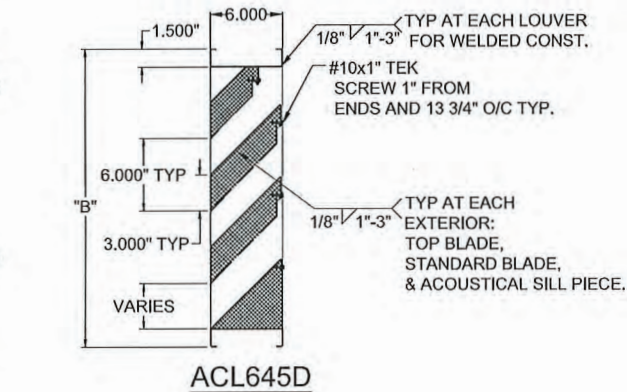
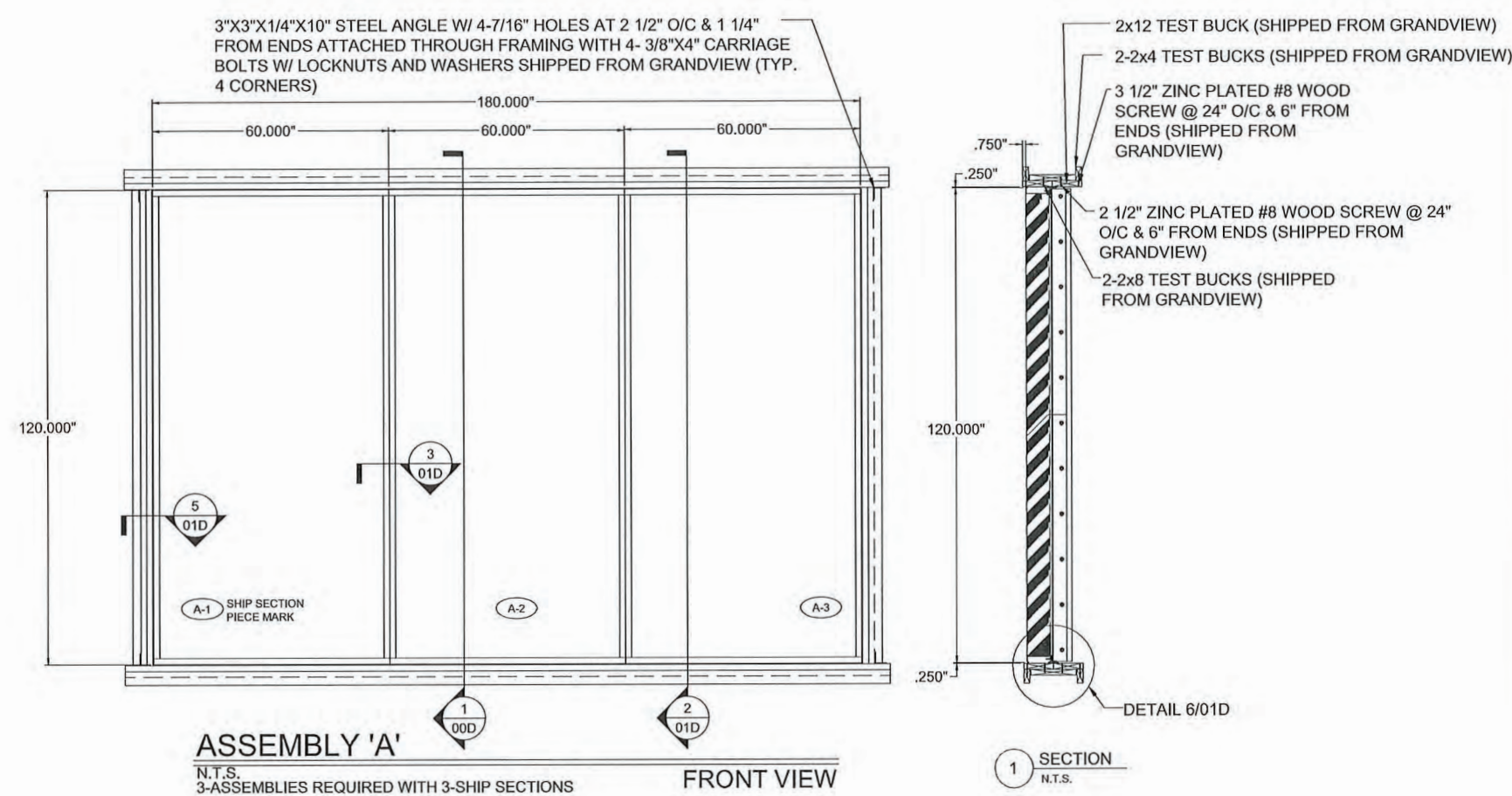


FRAME	
Formed .125" aluminum channel.	<input checked="" type="checkbox"/>
BLADES	
Formed .081" aluminum exterior w/ .050" perforated aluminum interior surface.	<input checked="" type="checkbox"/>
4" Thick Mineral Wool Blanket 4 # Density.	<input checked="" type="checkbox"/>
SCREEN	
1/2" mesh x 19 ga galv bird screen.	<input type="checkbox"/>
5/8" x .040" expanded flattened aluminum bird screen.	<input type="checkbox"/>
1/2" mesh x .063" aluminum bird screen.	<input type="checkbox"/>
18-16 mesh al. insect screen.	<input type="checkbox"/>
No screen.	<input checked="" type="checkbox"/>
FINISH	
Mill.	<input checked="" type="checkbox"/>
Kynar (opt).	<input type="checkbox"/>
Baked enamel (modified fluoropolymer, 50% Kynar, opt).	<input type="checkbox"/>
Color anodize (opt).	<input type="checkbox"/>
Clear anodize (opt).	<input type="checkbox"/>
ACCESSORIES (opt)	
Flange frame.	<input type="checkbox"/>
Extended sill.	<input type="checkbox"/>
Clip angles.	<input checked="" type="checkbox"/>
Blankoff panel.	<input type="checkbox"/>

- NOTES:
- THE ACL645D 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 +/- 150 PSF OR LESS.
  - THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEAD LOADS.
  - LOUVER ANCHORS ARE REVIEWED FOR ATTACHMENT INTO STEEL, CONCRETE, MASONRY OR TIMBER SUBSTRUCTURE. MINIMUM EDGE DISTANCE AND EMBEDMENT REQUIREMENTS ARE SHOWN. RUSKIN DOES NOT DETERMINE THE STRUCTURAL INTEGRITY OF THE SUB-STRUCTURE.
  - MAXIMUM SINGLE SECTION SIZE: 60" WIDE X 120" HIGH.
  - MAXIMUM ASSEMBLED LOUVER SIZE: UNLIMITED WIDE X 120" HIGH. MAX. MULLION SPACING IS 60".
  - 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.
  - 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.
  - ALL CMU BLOCK MUST BE GROUT FILLED. MIN PRISM STRENGTH OF 1500 PSI AT TIME OF INSTALLATION. CMU BLOCKS MUST BE MIN. TYPE 1, GRADE N, LIGHT, MEDIUM, OR NORMAL WEIGHT PER ASTM C90. GROUT AND MORTAR COMPLY WITH FBC.
  - IF BITUMINOUS COMPOUNDS ARE REQUIRED BETWEEN DISSIMILAR METALS OR LOUVERS AND OTHER SURFACES, IT IS THE RESPONSIBILITY OF THE INSTALLATION CONTRACTOR TO SUPPLY AND PROPERLY APPLY IT.

DRAWING INDEX:

60-022202-00D	SHEET 01 ACL645D TEST LOUVER - SPEC, ASS'Y AND NOTES
60-022202-01D	SHEET 02 ACL645D TEST LOUVER - SECTION AND DETAILS
60-022202-02D	SHEET 03 ACL645D TEST LOUVER - SECTION AND DETAILS
60-022202-03D	SHEET 04 ACL645D TEST LOUVER - SECTION AND DETAILS
60-022202-04D	SHEET 05 ACL645D TEST LOUVER - PART DETAILS
60-022202-05D	SHEET 06 ACL645D TEST LOUVER - PART DETAILS



ABBREVIATIONS

B.O.D. =	BLANK-OFF DIMENSION
F.L. =	FRAME LENGTH
H.H.B.S. =	HORZ. HIDDEN BLADE SUPPORT
H.V.B.S. =	HIDDEN VERT. BLADE SUPPORT
L.D. =	LOUVER DIMENSION
L.D.D. =	LOUVER DOOR DIMENSION
N.I.C. =	NOT IN CONTRACT
O.D. =	OVERALL DIMENSION
O.C. =	ON CENTER
OPP. =	OPPOSITE
R.L.D. =	REMOVABLE LOUVER DIMENSION
R.O. =	ROUGH OPENING
SIM. =	SIMILAR
S.D. =	SUB-FRAME DIMENSION
S.S. =	SHIP SECTION
S.S.D. =	SHIP SECTION DIMENSION
U.N.O. =	UNLESS NOTED OTHERWISE

TESTS PERFORMED:

TAS-201 LARGE MISSILE IMPACT

TAS-202 UNIFORM STATIC AIR PRESSURE TEST

TAS-203 CYCLIC WIND PRESSURE TEST

DESIGN PRESSURE RATING 150 PSF

MULLION / MULLION SUPPORT TABLE	
HEIGHT	MULLION SUPPORT
18" - 60"	MULLION W/O SUPPORT
60" - 75"	2" X 6" X 1/8" TUBE
75" - 93"	2" X 8" X 1/8" TUBE
93" - 120"	2" X 8" X 1/4" TUBE

FOR OFFICE USE ONLY

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 23-1116.10  
Expiration Date 04/28/2027

By *[Signature]*  
Miami-Dade Product Control

JEFFREY DEVON SMITH  
LICENSE No. 91182  
STATE OF FLORIDA  
PROFESSIONAL ENGINEER  
4/5/2022

ENGINEER OF RECORD:  
JEFFREY DEVON SMITH

ENGINEERING DISCIPLINE:  
CIVIL - STRUCTURAL

STATE OF FLORIDA 91182

B	REVISED FOR EASE OF INSTALLATION	JDS	JDS	RVT	3/30/22
	REVISED NOTES, DRAWING INDEX & ENGINEER OF RECORD	DJR	DJR	RKP	07/17/13
A	DESCRIPTION	DATE	REV'D BY	CHK'D BY	APP'D BY
REV.	DESCRIPTION	DATE	REV'D BY	CHK'D BY	APP'D BY

NOTE:

- ALL DIMENSIONS ARE GIVEN IN INCHES.
- ALL EXPOSED SURFACES MUST BE FREE OF DIE LINES.
- ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED.
- \*\* EXTRUDER SPECIFIC ID MARK: .008R x .008DP

TOLERANCES UNLESS SPECIFIED OTHERWISE

3 PLACE .XXX +010

2 PLACE .XX +020

ANGLE DIMENSIONS ± 2°

USE W10-07 & 008

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**RUSKIN**

3900 DR. GREAVES RD  
GRANDVIEW, MO 64030  
PH: (816) 761-7476 FAX: (816) 763-8102

AREA	EST. PER.	EST. WT/FT.
-	-	-
ALLOY & TEMPER	UNSPEC. RADII	UNSPEC. WALL
-	-	-

DWN:	WJM	CHK:	APPV:
DATE:	03-30-2011	DATE:	DATE:

PART DESC.

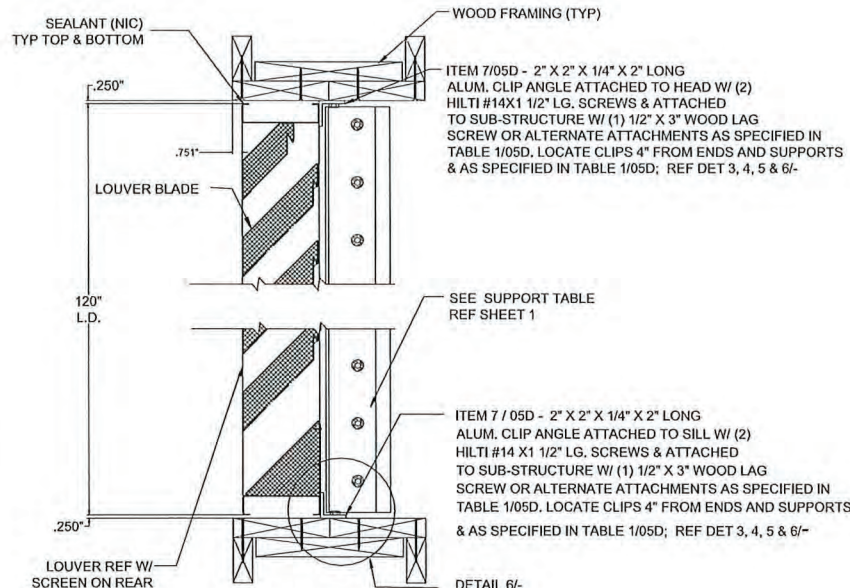
ACL645D LOUVER  
SPECS,  
AND NOTES: DRAWING 1 OF 6

SCALE: NTS	ECN: -	DATE:
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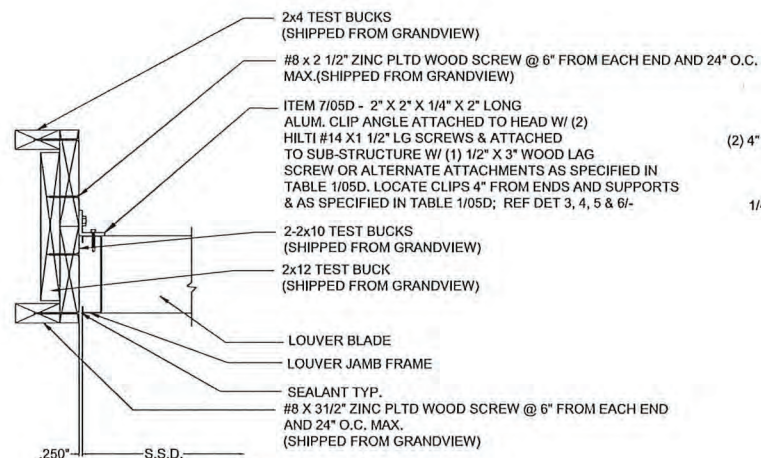
DWG No.

60 - 022202 - 00D

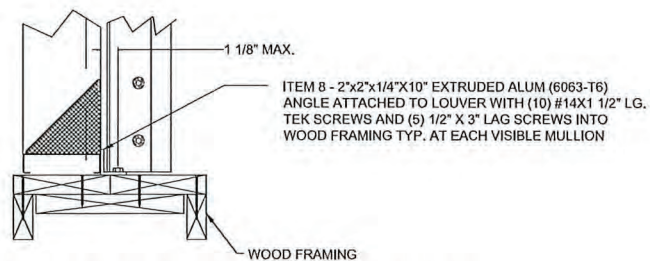




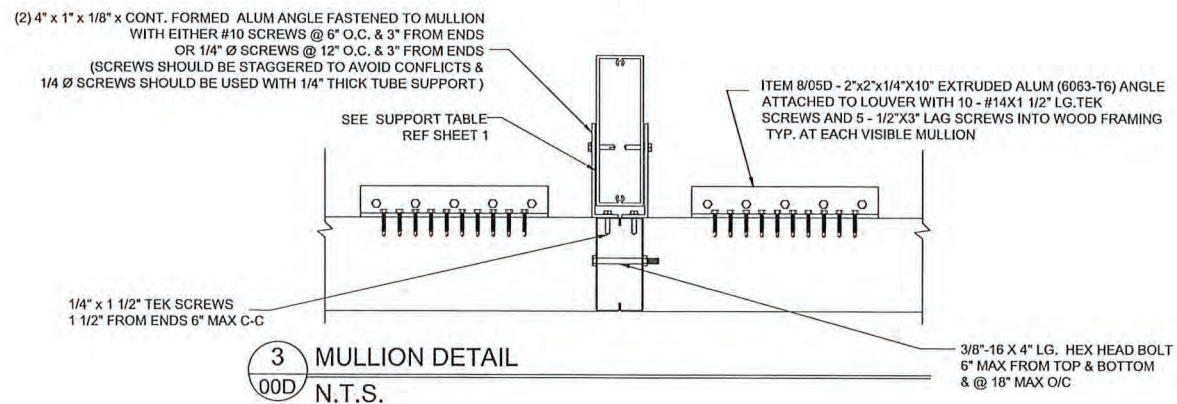
2  
00D LOUVER DETAIL @ HEAD & SILL  
N.T.S.



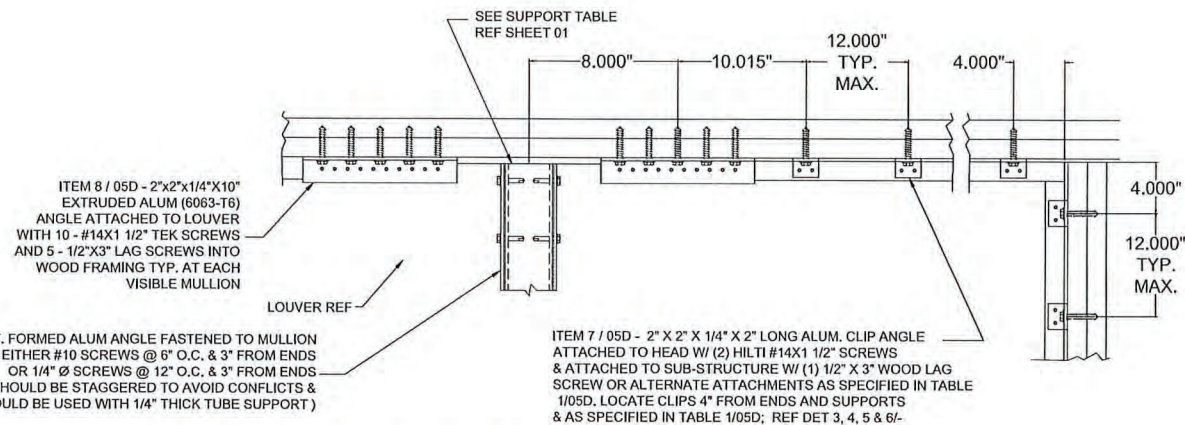
5  
00D LOUVER DETAIL @ JAMB  
N.T.S.



6  
00D SILL DETAIL @ WOOD FRAME (HEAD SIM)  
N.T.S.



4  
00D MULLION REAR ELEVATION & CORNER CONDITION  
N.T.S.



FOR OFFICE USE ONLY

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-1116.10  
Expiration Date 04/28/2027  
By *[Signature]*  
Miami-Dade Product Control



ENGINEER OF RECORD:  
JEFFREY DEVON SMITH  
ENGINEERING DISCIPLINE:  
CIVIL - STRUCTURAL  
STATE OF FLORIDA 91182

CTR	CENTER	OC	ON CENTER
CL	CENTER LINE	OD	OUTSIDE DIAMETER
C-C	CENTER TO CENTER	OR	OUTSIDE RADIUS
CHAM	CHAMFER	PI	POINT OF INTERSECTION
DAT	DATUM	R	FULL RADIUS
DET	DETAIL	REF	REFERENCE
E-E	END TO END	SYM	SYMMETRICAL
EXP	EXPOSED	TAN	TANGENT
ID	INSIDE DIAMETER	TYP	TYPICAL
IR	INSIDE RADIUS		

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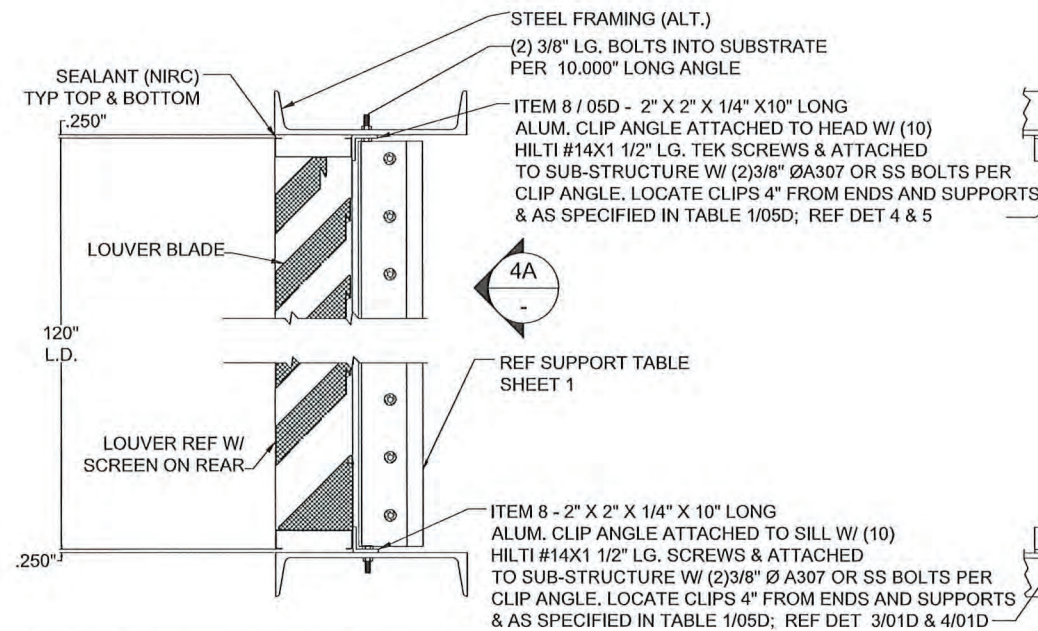
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-	-	-
ALLOY & TEMPER	UNSPEC. RADII	UNSPEC. WALL
-	-	-
DWN: WJM	CHK:	APPV:
DATE: 03/30/2011	DATE:	DATE:
PART DESC.		
ACL645D LOUVER ASSEMBLY, SECTION AND DETAILS: DRAWING 2 of 6		
SCALE: NTS	ECN: -	DATE:

DWG No.  
**60 - 022202 - 01D**

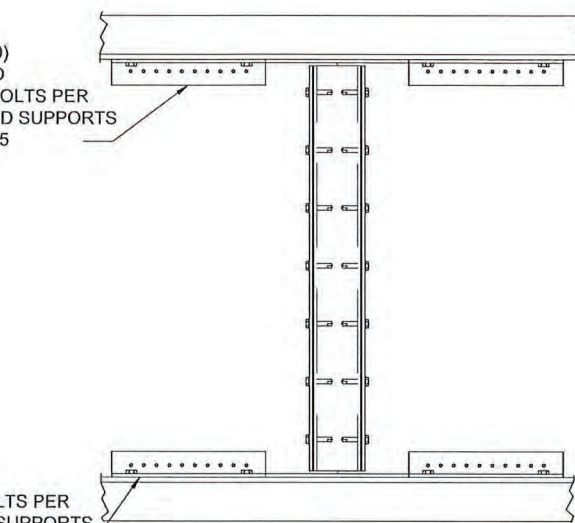
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1) ALL DIMENSIONS ARE GIVEN IN INCHES.  
2) ALL EXPOSED SURFACES MUST BE FREE OF DIE LINES.  
3) ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED.  
4) \*\* EXTRUDER SPECIFIC ID MARK: .008R x .008DP

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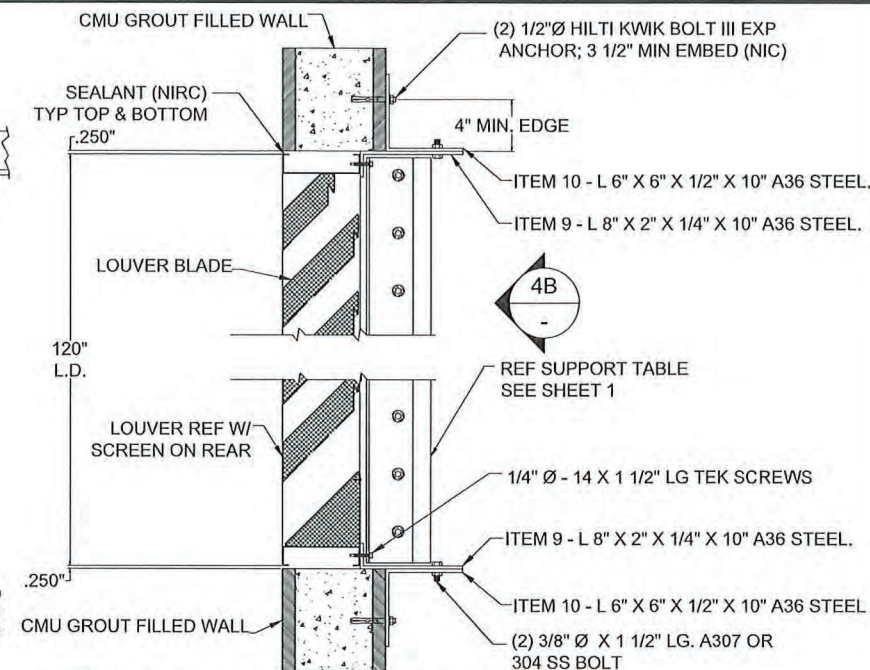




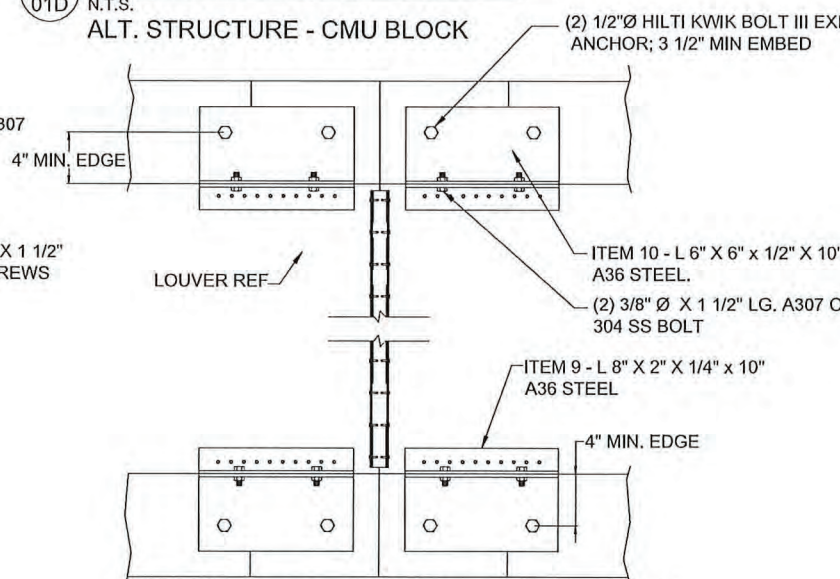
**2A**  
**01D** LOUVER DETAIL @ HEAD & SILL  
N.T.S.  
STRUCTURE - STEEL FRAME  
12 GAUGE MIN. THICKNESS



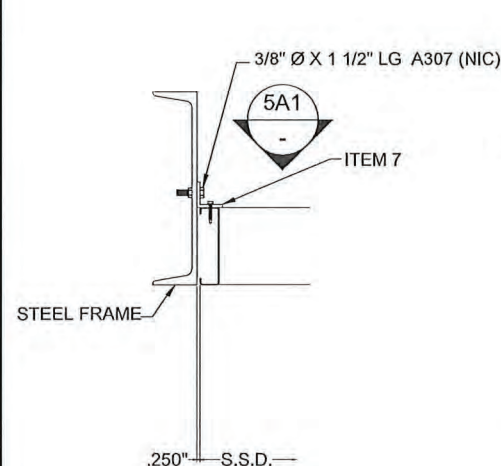
**4A**  
**01D** MULLION REAR ELEVATION  
N.T.S.  
STRUCTURE - STEEL FRAME  
12 GAUGE MIN. THICKNESS



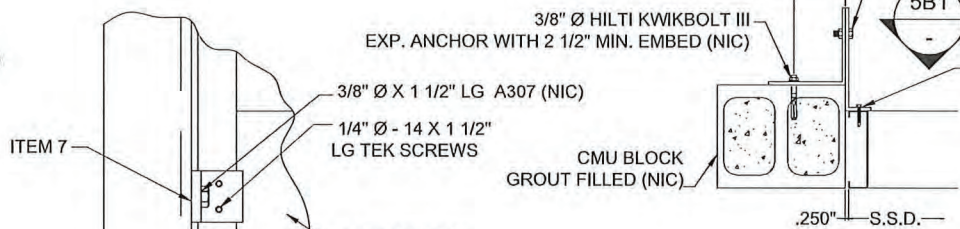
**2B**  
**01D** LOUVER DETAIL @ HEAD & SILL  
N.T.S.  
ALT. STRUCTURE - CMU BLOCK



**4B**  
**00D** MULLION REAR ELEVATION  
N.T.S.  
ALT. STRUCTURE - CMU BLOCK



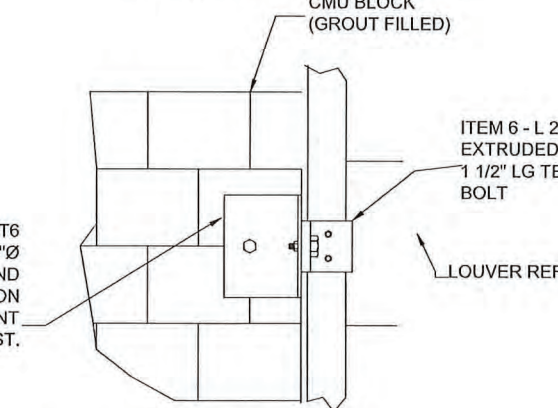
**5A**  
**01D** LOUVER DETAIL @ JAMB  
N.T.S.  
STRUCTURE - STEEL FRAME  
12 GAUGE MIN. THICKNESS



**5B**  
**00D** LOUVER DETAIL @ JAMB  
N.T.S.  
ALT. STRUCTURE - CMU BLOCK

**5A1**  
**01D** LOUVER DETAIL @ JAMB  
N.T.S.  
STRUCTURE - STEEL FRAME  
12 GAUGE MIN. THICKNESS

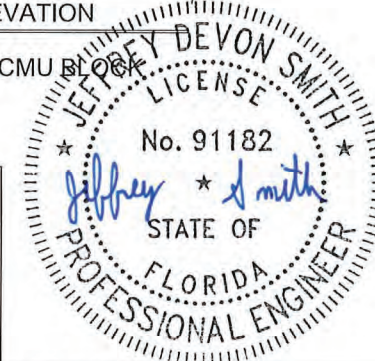
ITEM 11 - L 6 x 6 x 3/8" x 4" LG. 6063-T6  
EXTRUDED ALUMINUM WITH (1) 3/8" Ø  
X 1 1/2" LG. A307 OR 300SS BOLT AND  
(1) 3/8" Ø KWIK BOLT III EXPANSION  
ANCHOR WITH 2 1/2" MIN. EMBEDMENT  
AND 4" MIN. EDGE DIST.



**5B1**  
**01D** LOUVER DETAIL @ JAMB  
N.T.S.  
ALT. STRUCTURE - CMU BLOCK

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**as complying with the Florida**  
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**NOA-No.** 23-1116.10  
**Expiration Date** 04/28/2027  
**By** *[Signature]*  
**Miami-Dade Product Control**



ENGINEER OF RECORD:  
JEFFREY DEVON SMITH  
ENGINEERING DISCIPLINE:  
CIVIL - STRUCTURAL  
STATE OF FLORIDA 91182

REVISED FOR EASE OF INSTALLATION			
B	A	REV.	DESCRIPTION
3/30/22	07/17/23	DATE	DATE
JDS	JDS	RVT	CHK'D BY
JDS	JDS	RKP	APP'D BY
NOTE: 1) ALL DIMENSIONS ARE GIVEN IN INCHES. 2) ALL EXPOSED SURFACES MUST BE FREE OF DIE LINES. 3) ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED. 4) ** EXTRUDER SPECIFIC ID MARK: .008R x .008DP			

CTR	CENTER	OC	ON CENTER
CL	CENTER LINE	OD	OUTSIDE DIAMETER
C-C	CENTER TO CENTER	OR	OUTSIDE RADIUS
CHAM	CHAMFER	PI	POINT OF INTERSECTION
DAT	DATUM	R	FULL RADIUS
DET	DETAIL	REF	REFERENCE
E-E	END TO END	SYM	SYMMETRICAL
EXP	EXPOSED	TAN	TANGENT
ID	INSIDE DIAMETER	TYP	TYPICAL
IR	INSIDE RADIUS		

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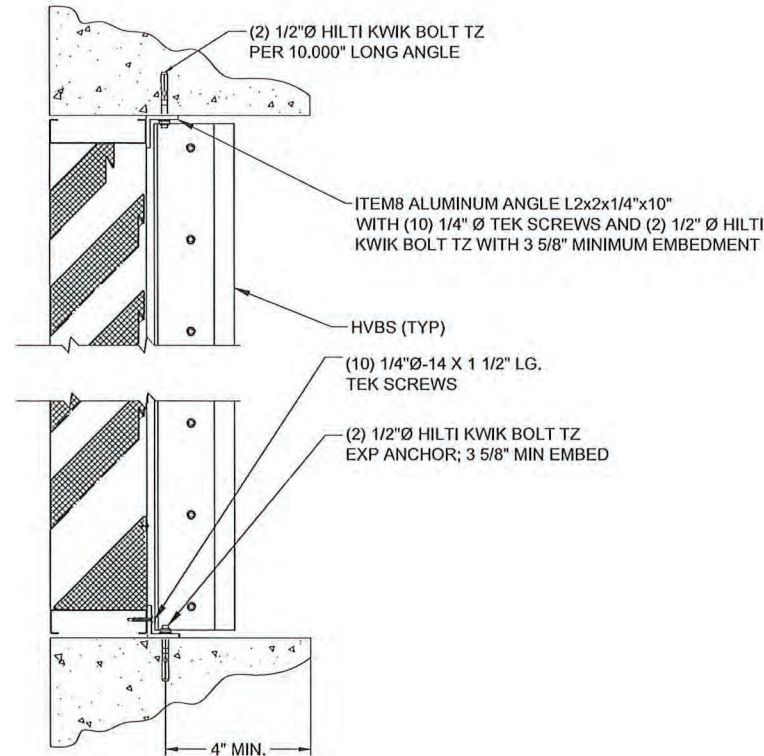
AREA	EST. PER.	EST. WT/FT.
-	-	-
ALLOY & TEMPER	UNSPEC. RADII	UNSPEC. WALL
-	-	-
DWN: WJM	CHK: -	APPV: -
DATE: 03/30/2011	DATE: -	DATE: -

PART DESC.  
ACL645D LOUVER  
SECTION AND DETAILS: DRAWING 3 OF 6

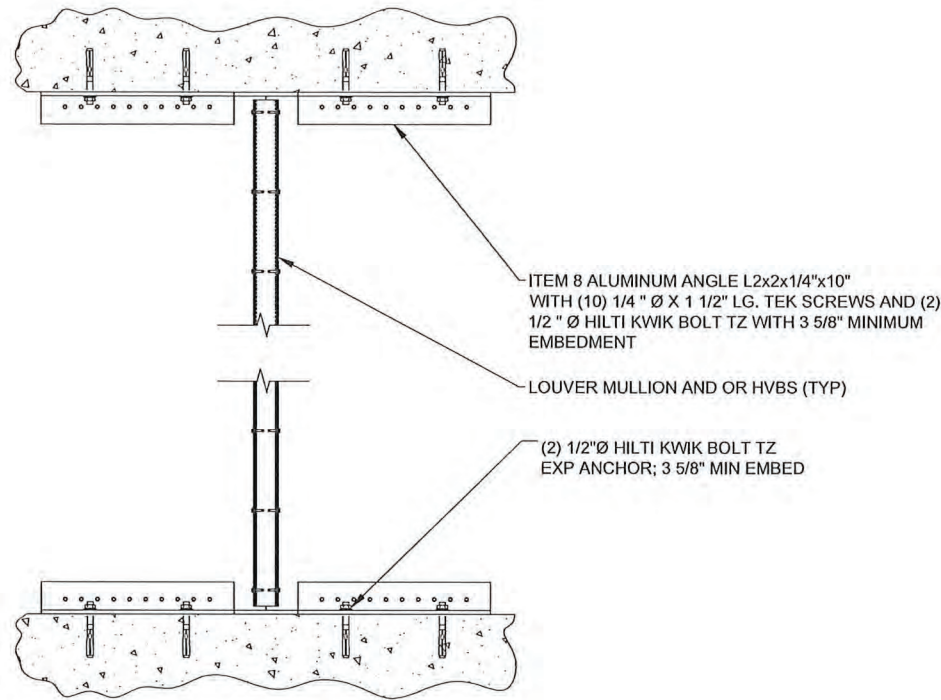
SCALE: NTS	ECN: -	DATE: -
DWG No.	60 - 022202 - 02D	

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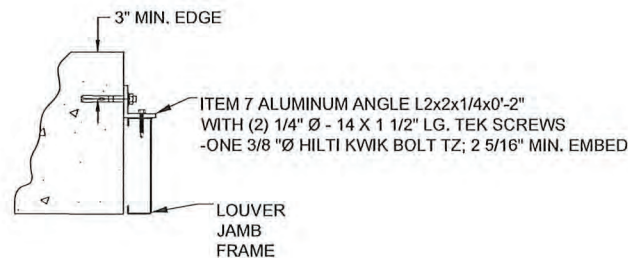




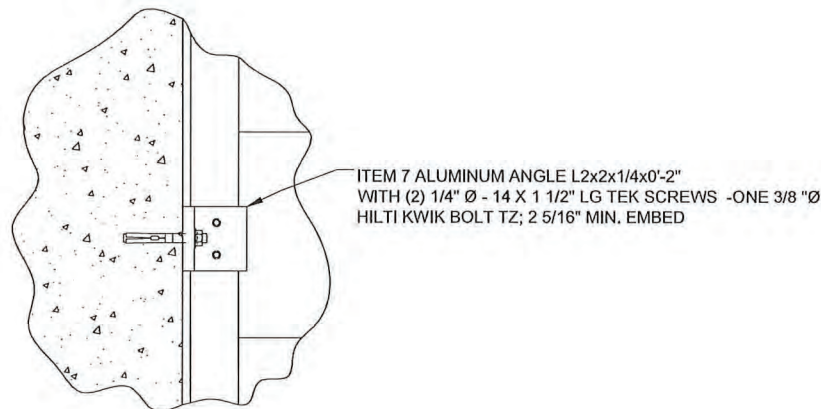
2C LOUVER DETAIL @ HEAD & SILL  
01D N.T.S.  
ALT. STRUCTURE - CONCRETE SUPPORT



4C MULLION REAR ELEVATION  
01D N.T.S.  
ALT. STRUCTURE - CONCRETE SUPPORT



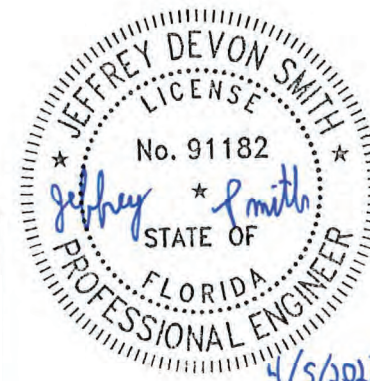
5C LOUVER DETAIL @ JAMB  
01D N.T.S.  
ALT. STRUCTURE - CONCRETE SUPPORT



5C1 LOUVER DETAIL @ JAMB  
01D N.T.S.  
ALT. STRUCTURE - CONCRETE SUPPORT

FOR OFFICE USE ONLY

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-1116.10  
Expiration Date 04/28/2027  
By *[Signature]*  
Miami-Dade Product Control



ENGINEER OF RECORD:  
JEFFREY DEVON SMITH  
ENGINEERING DISCIPLINE:  
CIVIL - STRUCTURAL  
STATE OF FLORIDA 91182

B		REVISED FOR EASE OF INSTALLATION		3/30/22	JDS	JDS
A		REVISED ENGINEER OF RECORD		07/17/13	DJR	DJR
REV.		DESCRIPTION		DATE	CHK'D BY	APP'D BY
TOLERANCES UNLESS SPECIFIED OTHERWISE		NOTE:				
3 PLACE XX ± 0.10		1) ALL DIMENSIONS ARE GIVEN IN INCHES.				
2 PLACE XX ± 0.20		2) ALL EXPOSED SURFACES MUST BE FREE OF DIE LINES.				
ANGLE DIMENSIONS ± 2°		3) ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED.				
USE WQ007 & 008		4) ** EXTRUDER SPECIFIC ID MARK: .008R x .008DP				
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CTR	CENTER	OC	ON CENTER
CL	CENTER LINE	OD	OUTSIDE DIAMETER
C-C	CENTER TO CENTER	OR	OUTSIDE RADIUS
CHAM	CHAMFER	PI	POINT OF INTERSECTION
DAT	DATUM	R	FULL RADIUS
DET	DETAIL	REF	REFERENCE
E-E	END TO END	SYM	SYMMETRICAL
EXP	EXPOSED	TAN	TANGENT
ID	INSIDE DIAMETER	TYP	TYPICAL
IR	INSIDE RADIUS		

# RUSKIN

3900 DR. GREAVES RD  
GRANDVIEW, MO 64030  
PH: (816) 761-7476 FAX: (816) 763-8102

AREA	EST. PER.	EST. WT/FT.
-	-	-
ALLOY & TEMPER	UNSPEC. RADII	UNSPEC. WALL
-	-	-

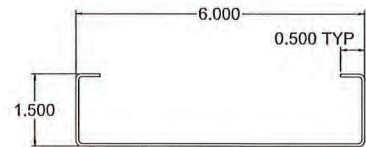
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DATE: 05/05/2011	DATE:	DATE: 1/11/11

PART DESC.

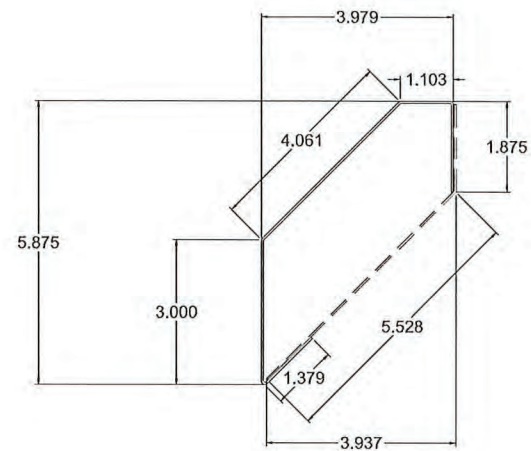
ACL645D LOUVER  
SECTION AND DETAILS  
DRAWING 4 OF 6

SCALE: NTS	ECN: -	DATE:
DWG No.	60 - 022202 - 03D	

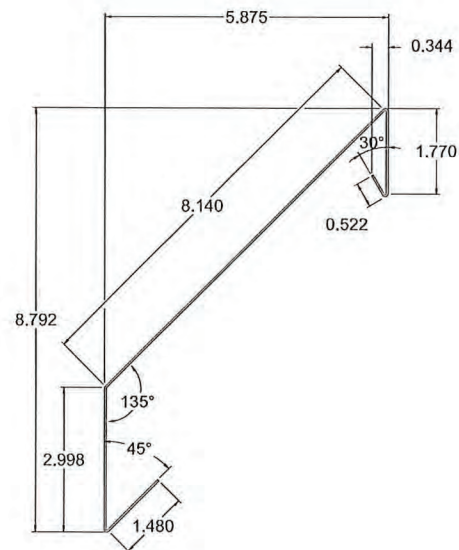




ITEM 1 - HEAD, JAMB AND SILL FRAME  
 RUSKIN# 70-020440-00B-2  
 ALUMINUM FLAT CUT= 9 1/2"

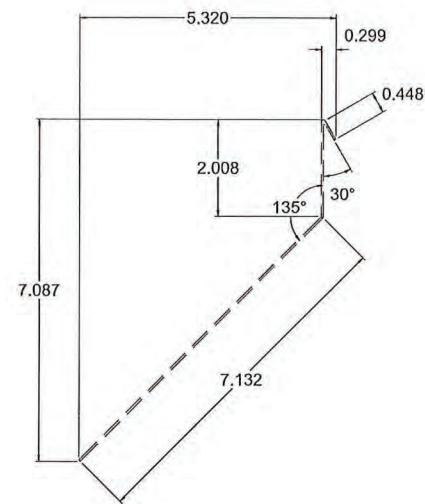


ITEM 2 - TOP BLADE  
 RUSKIN# 70-020441-00B  
 ALUMINUM FLAT CUT(EXT. BLD.)= 11 3/8"  
 ALUMINUM FLAT CUT(INT. BLD.)= 7 5/16"

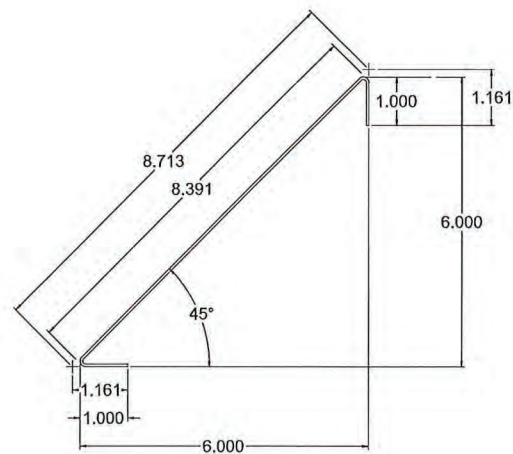


EXTERIOR BLADE  
 ALUMINUM FLAT CUT= 14 13/16"

ITEM 3 - TYPICAL BLADE  
 RUSKIN# 70-020443-00B

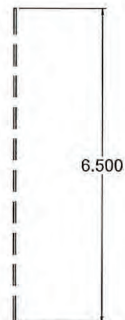


INTERIOR BLADE  
 ALUMINUM FLAT CUT= 9 1/2"

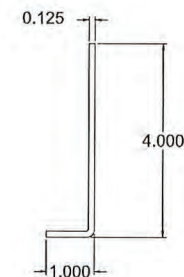


EXTERIOR BLADE  
 ALUMINUM FLAT CUT(EXT. BLD.)= 10 5/16"

ITEM 4 - SILL PIECE  
 RUSKIN# 70-021584-00B



INTERIOR CLOSURE  
 ALUMINUM FLAT CUT= 6 1/2"

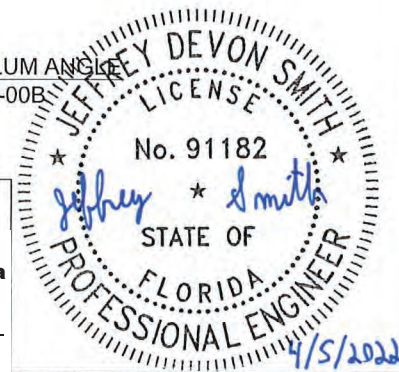


ITEM 5 - CONT. FORMED ALUM ANGLE  
 RUSKIN # 70-024245-00B

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By *[Signature]*  
 Miami-Dade Product Control



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 ENGINEERING DISCIPLINE:  
 CIVIL - STRUCTURAL  
 STATE OF FLORIDA 91182

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A		REVISED ENGINEER OF RECORD		07/17/13	DJR	DJR
REV.	DESCRIPTION	DATE	REV'D BY	CHK'D BY	APP'D BY	
NOTE: 1) ALL DIMENSIONS ARE GIVEN IN INCHES. 2) ALL EXPOSED SURFACES MUST BE FREE OF DIE LINES. 3) ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED. 4) ** EXTRUDER SPECIFIC ID MARK: .008R x .008DP			TOLERANCES UNLESS SPECIFIED OTHERWISE 3 PLACE .XXX ±.010 2 PLACE .XX ±.020 ANGLE DIMENSIONS ±.2° USE WIC-007 & 008			

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ID	INSIDE DIAMETER	TYP	TYPICAL
IR	INSIDE RADIUS		

# RUSKIN

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 GRANDVIEW, MO 64030  
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AREA	EST. PER.	EST. WT/FT.
-	-	-
ALLOY & TEMPER	UNSPEC. RADII	UNSPEC. WALL
-	-	-

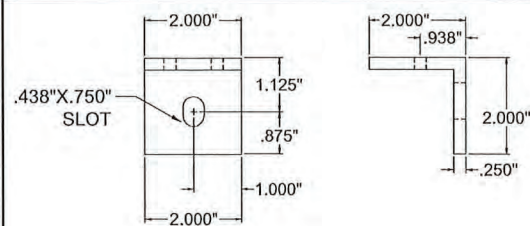
DWN: WJM	CHK:	APPV:
DATE: 04/07/2011	DATE:	DATE:

PART DESC. ACL645D LOUVER  
 PART DETAILS  
 DRAWING 5 OF 6

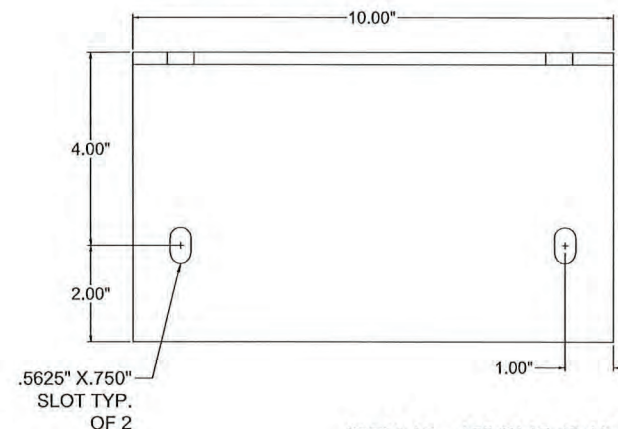
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DWG No. 60 - 022202 - 04D

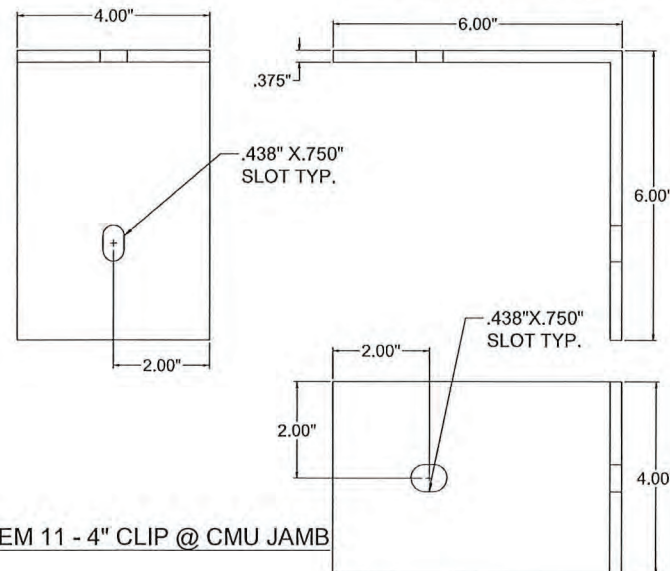




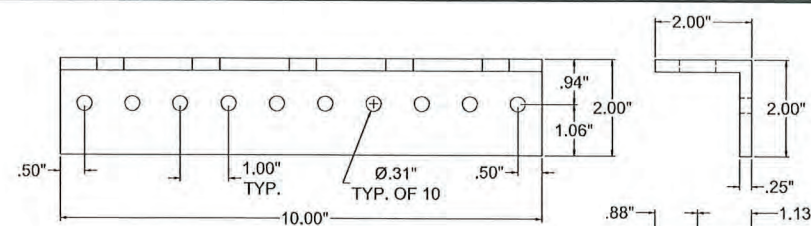
ITEM 7 - CLIP ANGLE



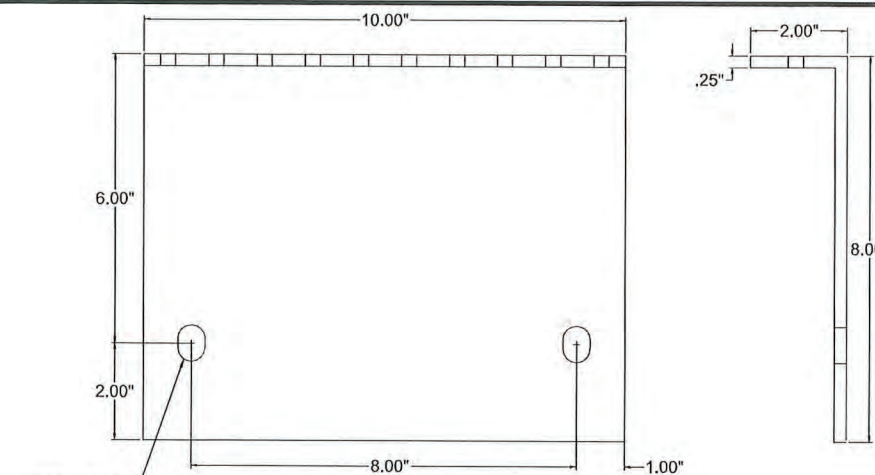
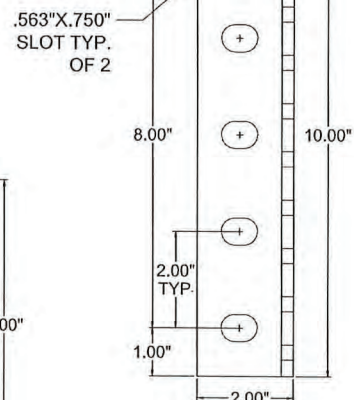
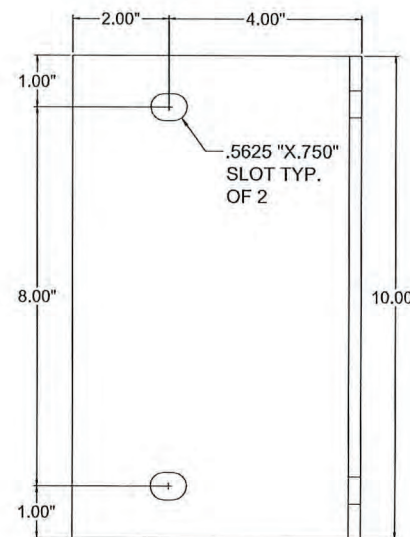
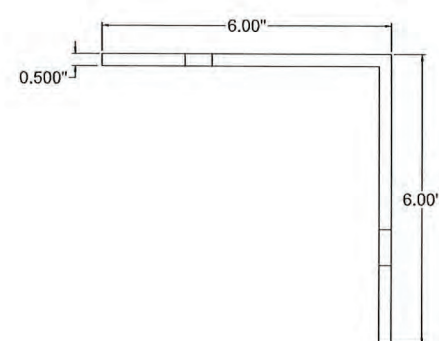
ITEM 10 - 10\"/>



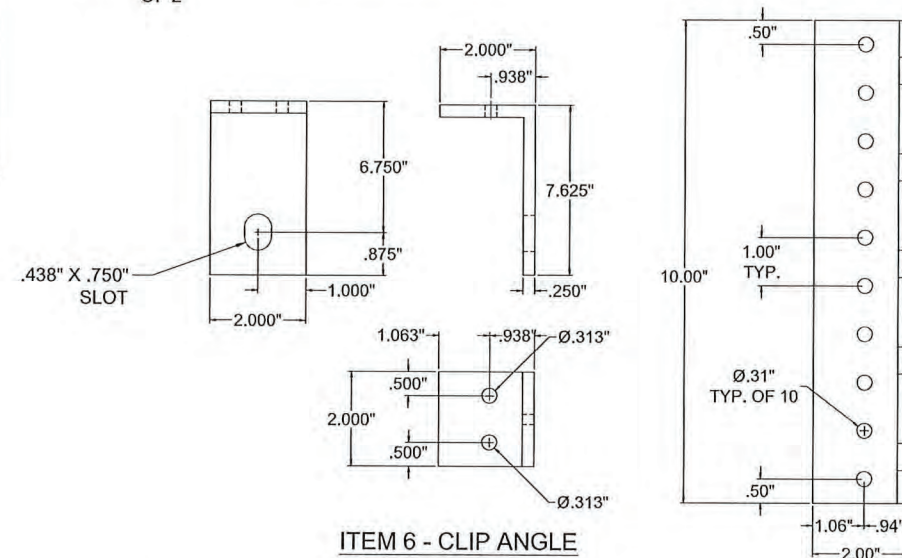
ITEM 11 - 4\"/>



ITEM 8 - 10\"/>



ITEM 9 - CLIP ANGLE



ITEM 6 - CLIP ANGLE

TABLE #2: DRAWING CROSS REFERENCE

ITEM	DRAWING	MATERIAL	DESCRIPTION	RUSKIN #
1	60-022202-00D	3003-H14 AL	HEAD, JAMB AND SILL FRAMES	70-020442-00B
2	60-022202-00D	3003-H14 AL	TOP BLADE	70-020441-00B
3	60-022202-00D	3003-H14 AL	TYPICAL BLADE	70-020443-00B
4	60-022202-00D	3003-H14 AL	SILL PIECE	70-021584-00B
5	60-022202-00D	6063-T6 AL	4" x 2" x 1/8" CONT ALUM ANGLE	A1141
6	60-022202-00D	6063-T6 AL	2" x 7 5/8" X 2" LG. CLIP ANGLE	-
7	60-022202-00D	6063-T6 AL	2" X 2" X 1/4" X 2" CLIP ANGLE	85-022012-00B
8	60-022202-00D	6063-T6 AL	2" X 2" X 1/4" X 10" LONG CLIP ANGLE	-
9	60-022202-00D	A36 STEEL	2" X 8" X 10" LG. CLIP ANGLE	-
10	60-022202-00D	A36 STEEL	6" X 6" X 10" LG. CLIP ANGLE	-
11	60-022202-00D	6063-T6 AL	6" X 6" X 4" LG. CLIP ANGLE	-

TABLE #1: APPROVED ATTACHMENTS @ JAMBS

MIN. SUPPORT MAT'L	TYPE CONNECTION	ANGLE SLOT WIDTH	MAX SPACING	MIN EMBEDMENT	MIN EDGE
(12 GA MIN) STEEL	3/8" Ø A307 BOLT	9/16"	12" C-C MAX.	N/A	2 1/2"
(4" MIN) CONCRETE	3/8"Ø KB TZ EXP ANCHOR	9/16"	12" C-C MAX.	2 5/16"	3"
(8" CMU) GROUT FILLED MASONRY	3/8"Ø KB III EXP ANCHOR	9/16"	12" C-C MAX.	2 1/2"	4"
(2) 2 X - WOOD	1/2"Ø X 3 LAG SCREW	9/16"	12" C-C MAX.	3"	2 1/2"

NOTE: ALL FASTENERS MUST BE INSTALLED PER THE MANUFACTURER'S FLORIDA / DADE COUNTY APPROVED INSTALLATION INSTRUCTIONS

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Miami-Dade Product Control



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JEFFREY DEVON SMITH  
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REV.	DESCRIPTION	DATE	CHK'D BY	APP'D BY
1	DESCRIPTION	DATE	CHK'D BY	APP'D BY

NOTE:  
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3) ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED.  
4) \*\* EXTRUDER SPECIFIC ID MARK: .008R x .008DP

TOLERANCES UNLESS SPECIFIED OTHERWISE  
3 PLACE .XXX ±.010  
2 PLACE .XX ±.005  
ANGLE DIMENSIONS ±2°  
USE WQ-007 & 008

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AREA	EST. PER.	EST. WT/FT.
-	-	-
ALLOY & TEMPER	UNSPEC. RADII	UNSPEC. WALL
-	-	-
DWN: WJM	CHK: -	APPV: -
DATE: 04/07/2011	DATE: -	DATE: -
PART DESC.		
ACL645D LOUVER PART DETAILS DRAWING 6 OF 6		
SCALE: NTS	ECN: -	DATE: -
DWG No.		
60 - 022202 - 05D		