



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 ACL1245D Aluminum Louver**

**APPROVAL DOCUMENT:** Drawing No. **60-022207**, titled "ACL1245D Louver", Sheets 1 through 6 of 6, dated 05/20/2011, with revision B dated 07/09/2013, prepared by Ruskin Company, signed and sealed by Daniel J. Rau, P.E., bearing the Miami-Dade County Product Control renewal 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 **renews** NOA # **13-0502.05** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

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



*[Handwritten Signature]*  
08/31/2016

NOA No. 16-0627.09  
Expiration Date: August 4, 2021  
Approval Date: September 8, 2016  
Page 1

Ruskin Company

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS “Submitted under NOA # 13-0502.05”**

1. Drawing No. **60-022207**, titled “ACL1245D Louver”, sheets 1 through 6 of 6, dated 05/20/2011, with revision B dated 07/09/2013, prepared by Ruskin Company, signed and sealed by Daniel J. Rau, P.E.

**B. TESTS “Submitted under NOA # 11-0207.21”**

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 ACL1245D Aluminum Louvers”, prepared by National Certified Testing Laboratories, Report No. **210-3711-2**, dated 11/05/2010, signed and sealed by Gerald J. Ferrara, P.E.

**C. CALCULATIONS “Submitted under NOA # 11-0207.21”**

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Ruskin Company, dated 01/11/2011, signed and sealed by William J. Mossie, P.E.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Test report on impact test per AMCA 540 of an ACL1245D Acoustical louver, prepared by Ruskin Company, Test Report No. **082412C**, dated 08/24/2012, signed and sealed by Daniel J. Rau, P.E.

**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 # 13-0502.05”*

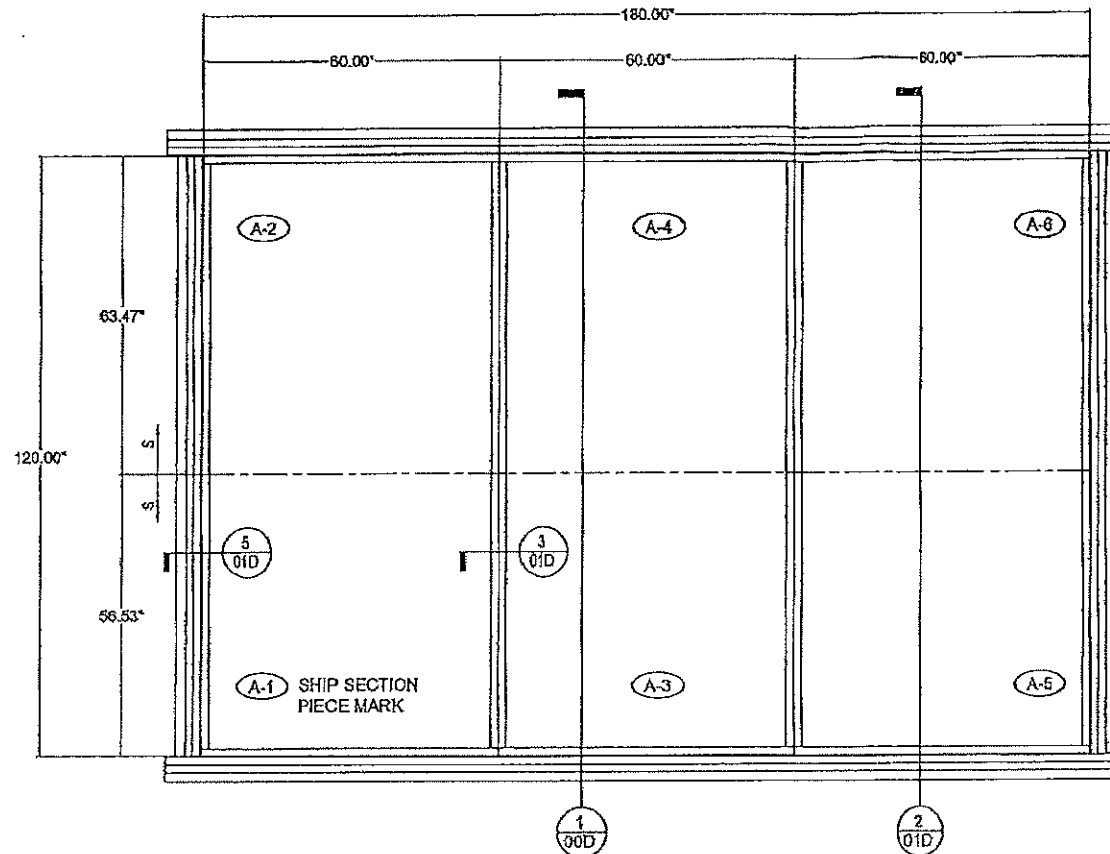
2. Statement letter of no financial interest, issued by Ruskin Company, dated 07/12/2013, signed and sealed by Daniel J. Rau, P.E.



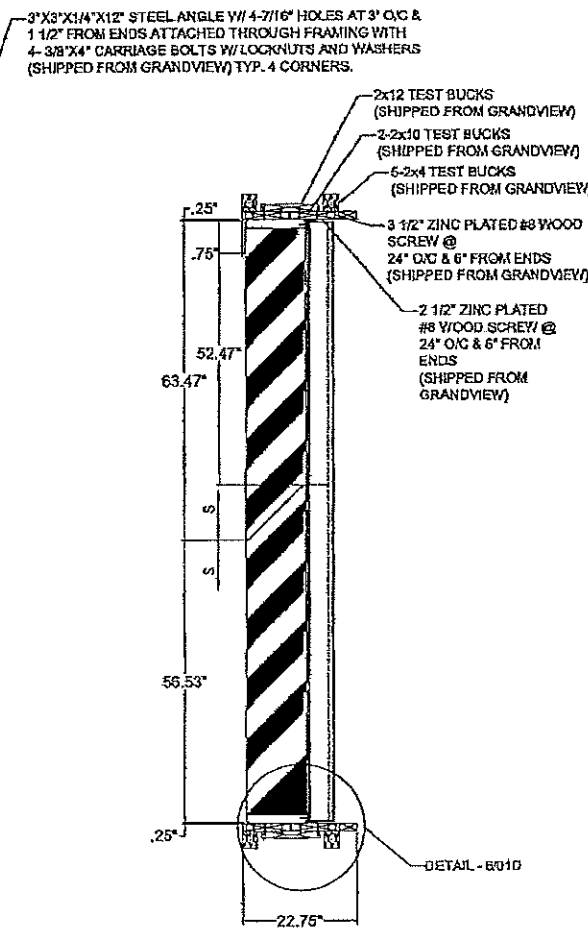
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Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 16-0627.09  
Expiration Date: August 4, 2021  
Approval Date: September 8, 2016

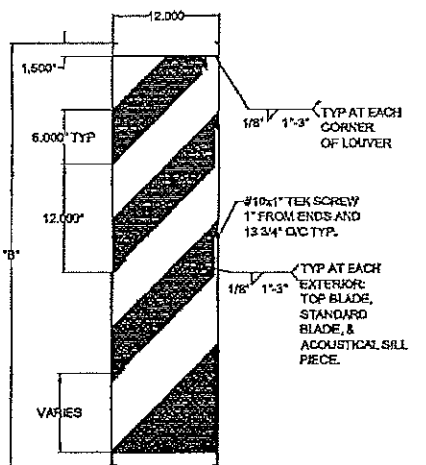
<b>FRAME</b>
Formed .125" aluminum channel.
<b>BLADES</b>
Formed .081" aluminum exterior w/ .050" perforated aluminum interior surface.
4" Thick Mineral Wool Blanket 4 # Density
<b>SCREEN</b>
1/2" mesh x 19 ga galv bird screen.
5/8" x .040" expanded flattened aluminum bird screen.
1/2" mesh x .063" aluminum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



**ASSEMBLY 'A'**  
N.T.S.  
3-ASSEMBLIES REQUIRED WITH 6-SHIP SECTIONS  
**FRONT VIEW**



**SECTION 1**  
N.T.S.



**ACL1245D**

**NOTES:**

- 1) THE ACL1245D HAS BEEN TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT, UNIFORM PRESSURE AND CYCLIC WIND PRESSURE.
- 2) THIS LOUVER SYSTEM IS APPROVED FOR APPLICATIONS WITH DESIGN PRESSURES OF +/- 150 PSF OR LESS.
- 3) THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEAD LOADS.
- 4) 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.
- 5) MAXIMUM SINGLE SECTION SIZE: 60" WIDE X 120" HIGH.
- 7) MAXIMUM ASSEMBLED LOUVER SIZE: UNLIMITED WIDE X 120" HIGH. MAX. MULLION SPACING IS 60".
- 8) 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.
- 9) 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.

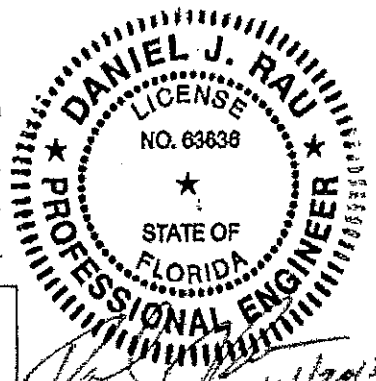
**DRAWING INDEX:**

- 60-022207-00D ACL1245D TEST LOUVER - SPEC, ASSY AND NOTES  
Drawing 1 of 6.
- 60-022207-01D ACL1245D TEST LOUVER - SECTION AND DETAILS  
Drawing 2 of 6.
- 60-022207-02D ACL1245D TEST LOUVER - SECTION AND DETAILS  
Drawing 3 of 6.
- 60-022207-03D ACL1245D TEST LOUVER - SECTION AND DETAILS  
Drawing 4 of 6.
- 60-022207-04D ACL1245D TEST LOUVER - PART DETAILS  
Drawing 5 of 6.
- 60-022207-05D ACL1245D TEST LOUVER - PART DETAILS  
Drawing 6 of 6.

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

**PRODUCT RENEWED**  
as complying with the Florida Building Code  
NOA-No. 16-0627.09  
Expiration Date 08/04/2021  
By *[Signature]*  
Miami-Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No 13-0502.05  
Expiration Date 08/04/2016  
By *[Signature]*  
Miami-Dade Product Control



ENGINEER OF RECORD  
**DANIEL J. RAU**  
ENGINEER (REGISTERED)  
CIVIL ENGINEER  
STATE OF FLORIDA #63636

REV.	DESCRIPTION	DATE	CHK'D BY	APP'D BY
6	REVISED NOTES, DRAWING INDEX & ENGINEER OF RECORD	07/08/13	RKP	DAIR
5	REVISED BLADE WELDING INFORMATION	10/14/10	VMA	DAIR
NOTE: 1) ALL DIMENSIONS ARE GIVEN IN INCHES. 2) ALL EXPOSED SURFACES MUST BE FREE OF DIE LINES. 3) ALL ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED. 4) " " EXTRUDER SPECIFIC ID MARK: .008R x .003DP				
THIS INFORMATION DISCLOSED HEREIN WAS ORIGINATED BY AND IS THE PROPERTY OF RUSKIN INDUSTRIES, AND EXCEPT FOR USES EXPRESSLY GRANTED TO THE UNITED STATES GOVERNMENT, RUSKIN INDUSTRIES RESERVES ALL PATENT, PROPRIETARY, DESIGN, USE, SALE, MANUFACTURING AND REPRODUCTION RIGHTS THEREIN. THIS DOES NOT APPLY TO ANY VENDOR PARTS.				

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

**RUSKIN SWARTWOUT**

3900 DR. GREAVES RD  
GRANDVIEW, MO 64030  
PH: (816) 763-7476 FAX: (816) 763-6102

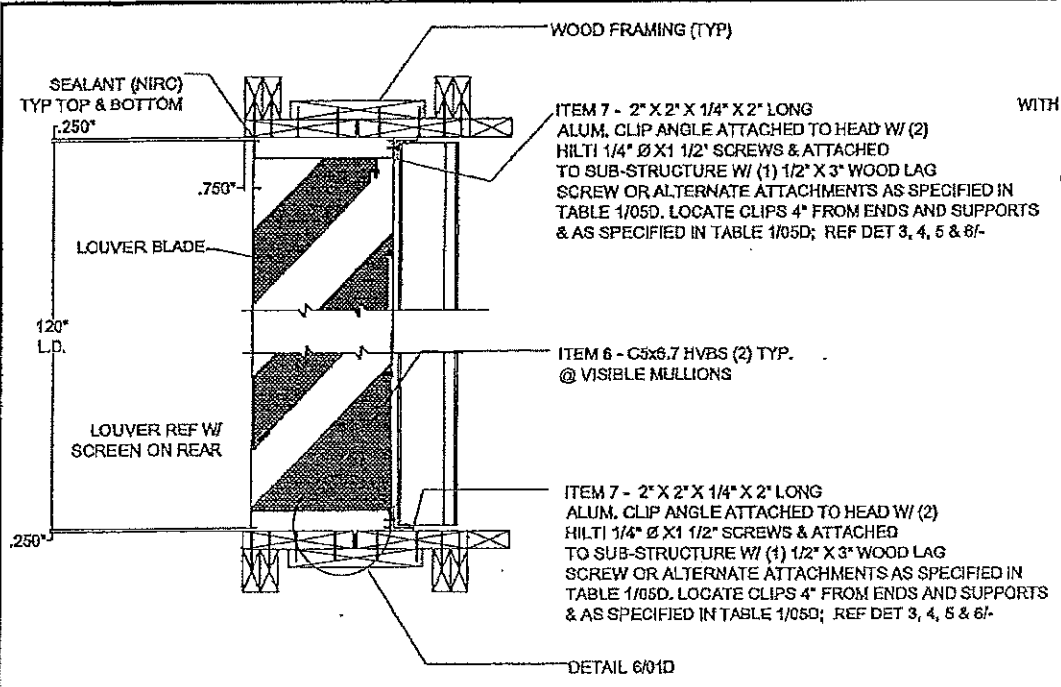
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ALLOY & TEMPER	UNSPEC. RADII	UNSPEC. WALL	
DWY:	WJM	CHK:	APPV:
DATE:	05/20/2011	DATE:	DATE:

PART DESC.  
ACL1245D LOUVER  
SPECS, ASSYS  
AND NOTES

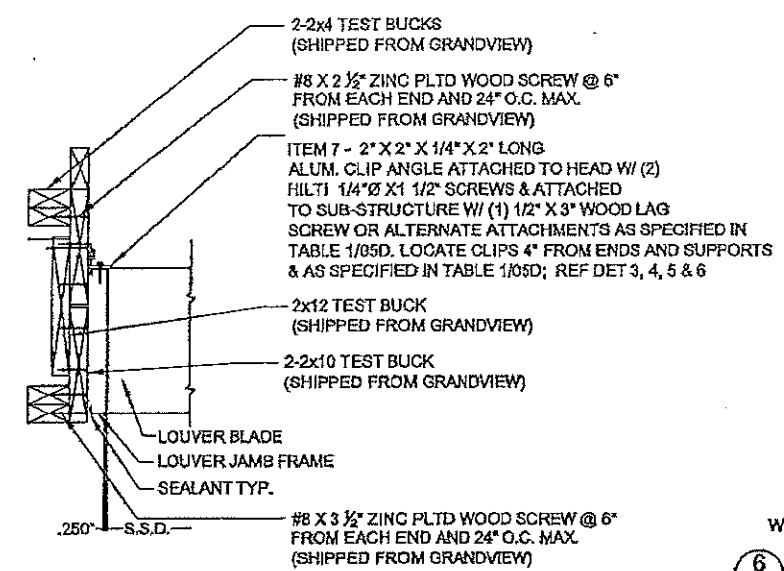
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ECN: -  
DATE:

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Drawing 1 of 6

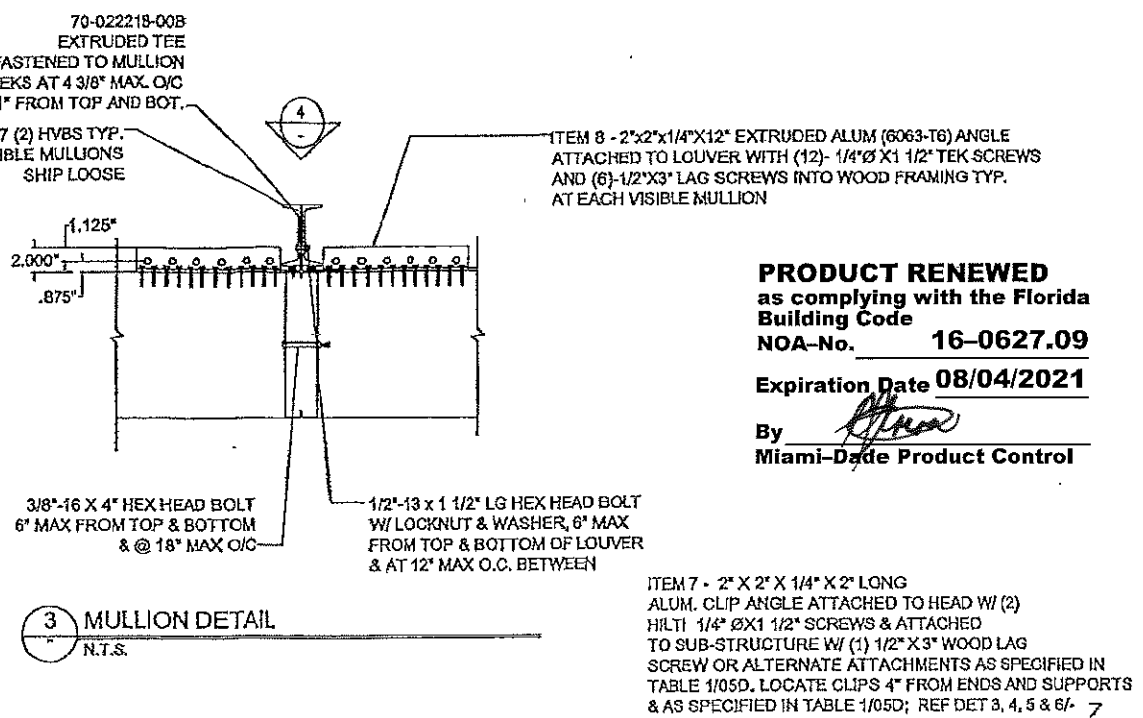
FOR OFFICE USE ONLY



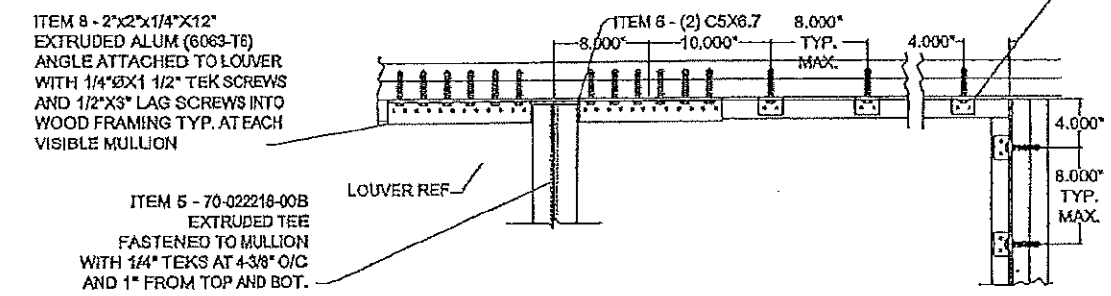
2 LOUVER DETAIL @ HEAD & SILL  
00D N.T.S.



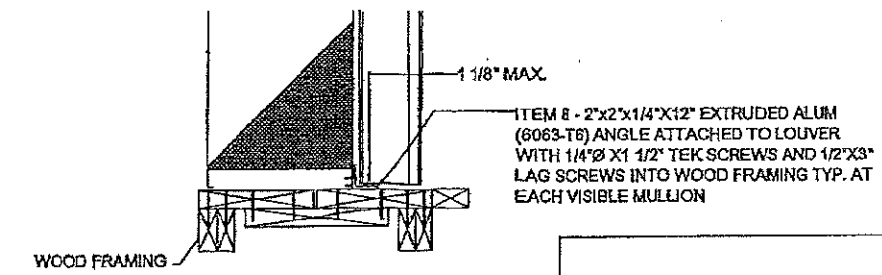
5 LOUVER @ JAMB DETAIL  
00D N.T.S.



3 MULLION DETAIL  
N.T.S.

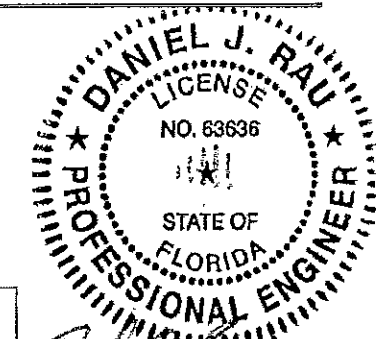


4 MULLION REAR ELEVATION & CORNER CONDITION  
00D N.T.S.



6 SILL DETAIL @ WOOD FRAME (HEAD SIM)  
01D N.T.S.

**PRODUCT RENEWED**  
as complying with the Florida Building Code  
NOA-No. **16-0627.09**  
Expiration Date **08/04/2021**  
By *[Signature]*  
Miami-Dade Product Control



FOR OFFICE USE ONLY  
PRODUCT REVISED  
as complying with the Florida Building Code  
Acceptance No **13-0502.05**  
Expiration Date **08/04/2016**  
By *[Signature]*  
Miami-Dade Product Control

ENGINEER OF RECORD:  
**DANIEL J. RAU**  
ENGINEERING DISCIPLINE:  
**CIVIL ENGINEER**  
STATE OF FLORIDA #63636

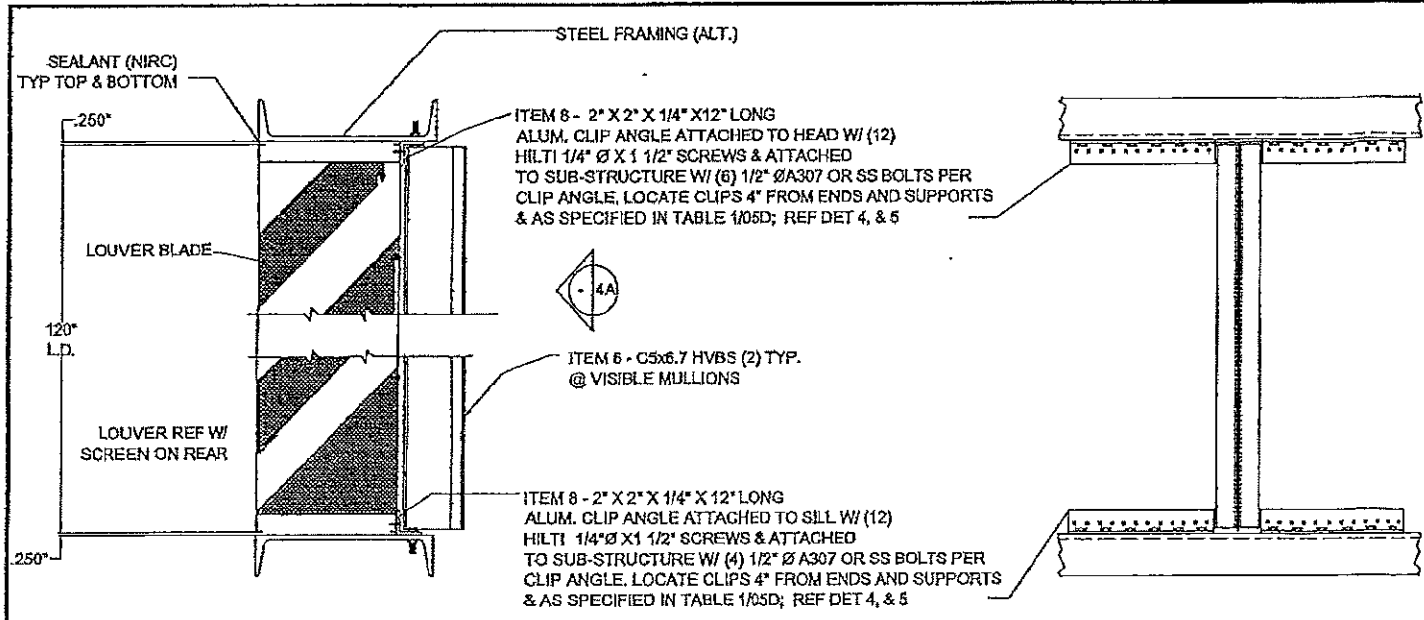
REV.	DESCRIPTION	DATE	CHKD BY	APPD BY
8	REVISED ENGINEER OF RECORD TOLERANCES UNLESS SPECIFIED OTHERWISE	07/09/13	RKP	DJR
	1) ALL DIMENSIONS ARE GIVEN IN INCHES.			
	2) ALL EXPOSED SURFACES MUST BE FREE OF DIE LINES.			
	3) ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED.			
	4) * EXTRUDER 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
CHAF	CHAFFER	PI	POINT OF INTERSECTION
DAT	DATUM	R	RADIUS
DET	DETAIL	REF	REFERENCE
E-E	END TO END	SYM	SYMMETRICAL
EXP	EXPOSED	TAN	TANGENT
I.D.	INSIDE DIAMETER	TYP	TYPICAL
R	RADIUS		

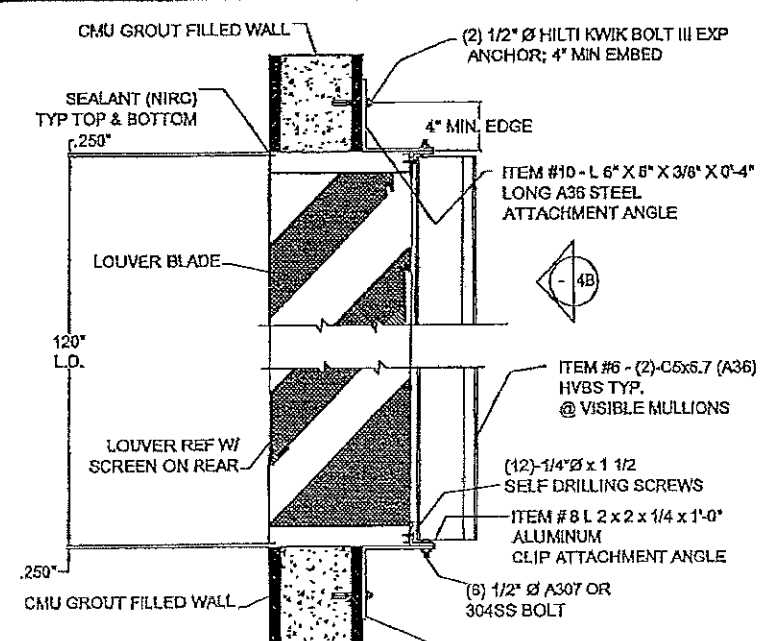
**RUSKIN SWARTWOUT**  
3900 DR. GREAVES RD  
GRANDVIEW, MO 64030  
PH: (816) 761-7476 FAX: (816) 763-5102

AREA	EST. PER	EST. WT/FT.
ALLOY & TEMPER	UNSPEC. RADII	UNSPEC. WALL
DWT: WHI	CHK:	APPV:
DATE: 05/20/2011	DATE:	DATE:
PART DESC.		
ACL1245D LOUVER SECTION AND DETAILS		
SCALE: NTS	FONT: -	DATE:
DWG No.	Drawing 2 of 6	
<b>60 - 022207 - 01D</b>		

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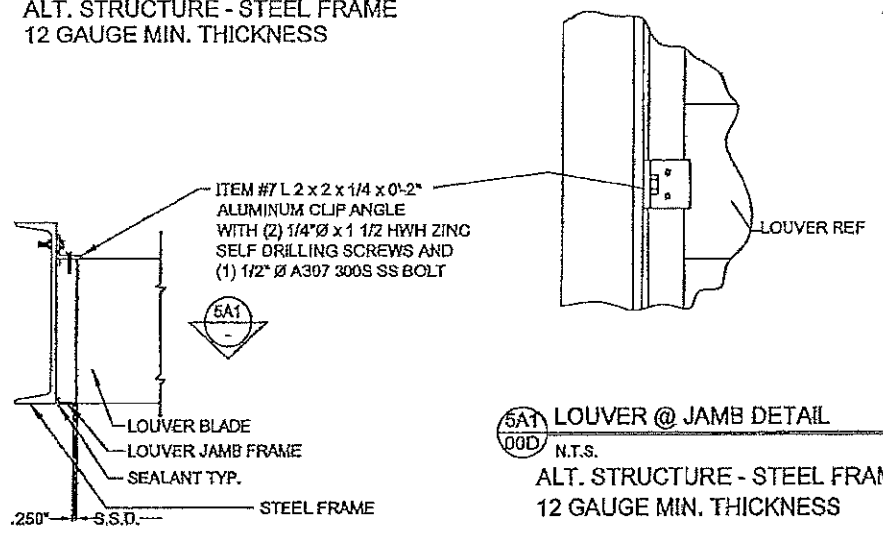


2  
00D N.T.S.  
ALT. STRUCTURE - STEEL FRAME  
12 GAUGE MIN. THICKNESS

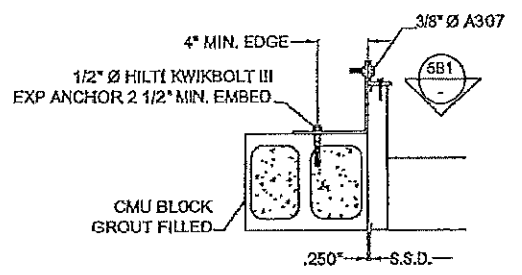


2B  
00D N.T.S.  
ALT. STRUCTURE - CMU BLOCK

4A  
00D N.T.S.  
ALT. STRUCTURE - STEEL FRAME  
12 GAUGE MIN. THICKNESS

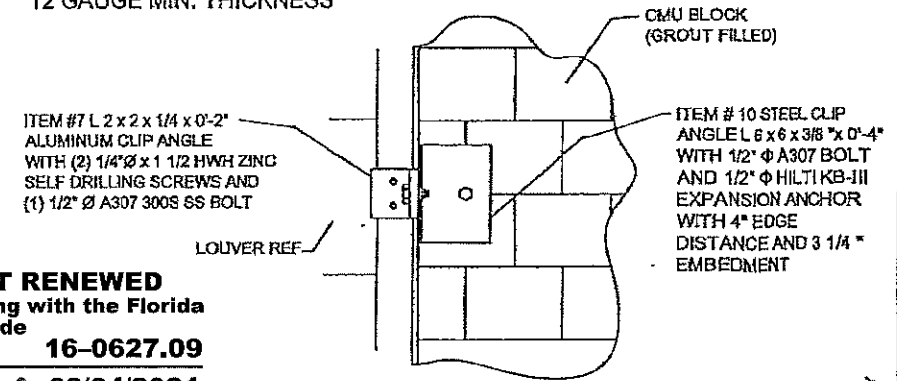


5A1  
00D N.T.S.  
ALT. STRUCTURE - STEEL FRAME  
12 GAUGE MIN. THICKNESS



5B  
00D N.T.S.  
ALT. STRUCTURE - CMU BLOCK

5  
00D N.T.S.  
ALT. STRUCTURE - STEEL FRAME  
12 GAUGE MIN. THICKNESS

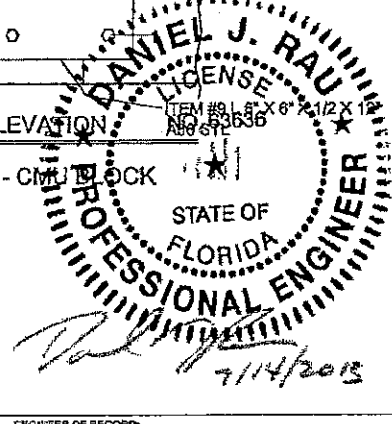


5B1  
00D N.T.S.  
ALT. STRUCTURE - CMU BLOCK

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. **16-0627.09**  
Expiration Date **08/04/2021**  
By *[Signature]*  
Miami-Bade Product Control

PRODUCT RENEWED  
as complying with the Florida  
Building Code  
Acceptance No. **13-0502.05**  
Expiration Date **08/04/2016**  
By *[Signature]*  
Miami-Bade Product Control

FOR OFFICE USE ONLY



ENGINEER OF RECORD:  
**DANIEL J. RAU**  
ENGINEERING DISCIPLINE:  
**CIVIL ENGINEER**  
STATE OF FLORIDA #63636

REV.	DESCRIPTION	DATE	CHKD BY	APPD BY
B	REVISED ENGINEER OF RECORD	07/09/13	RJP	DJR

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) \* EXTRUDED SPECIFIC ID MARK .005R x .008DP

TOLERANCES UNLESS SPECIFIED OTHERWISE:  
3 PLACE XXX.XX/0  
2 PLACE XX.X/00  
ANGLE DIMENSIONS ±2°  
USE W14x47 & 04

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

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3970 DRL GREAVES RD  
GRANDVIEW, MD 21030  
TEL: (816) 781-7476 FAX: (816) 783-8102

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

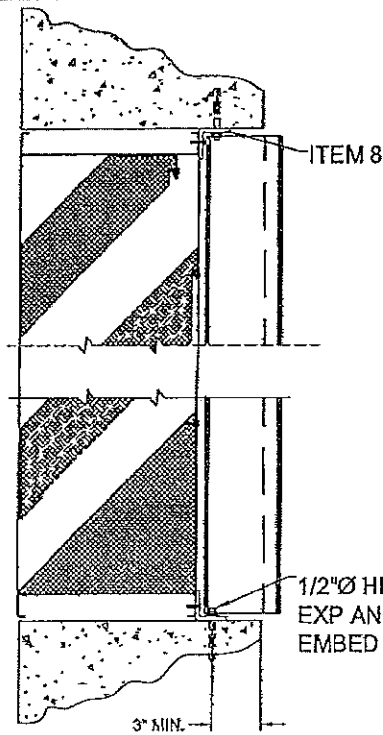
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DATE: 04/18/2011	DATE: [ ]	DATE: [ ]

PART DESC.  
**ACL1245D LOUVER SECTION AND DETAILS**

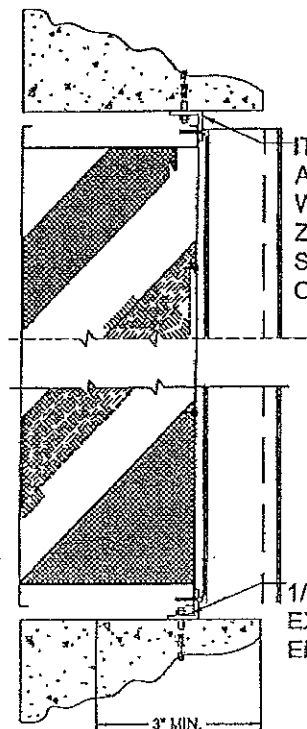
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DWG No. **60 - 022207 - 02D**  
Drawing 3 of 6

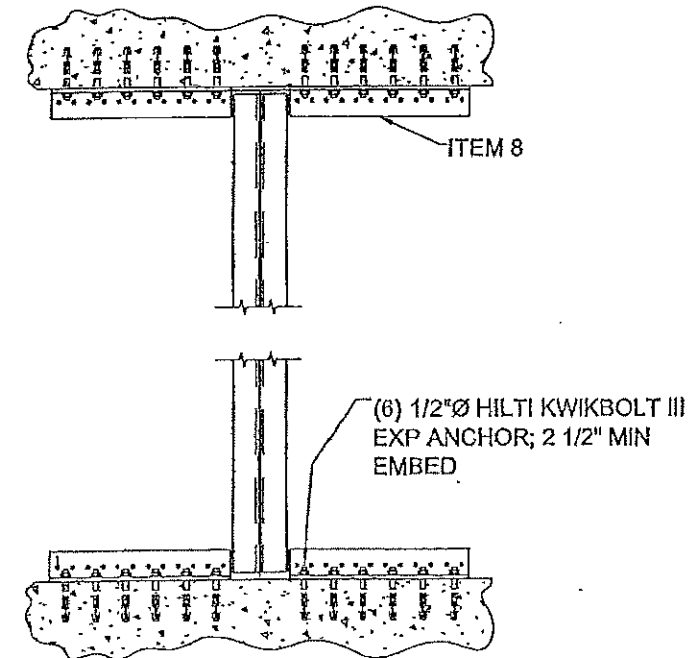
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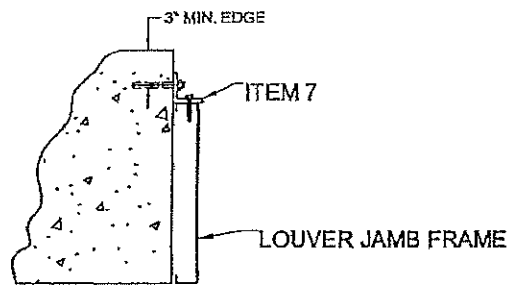
2C  
00D  
LOUVER DETAIL @ HEAD & SILL  
N.T.S.  
ALT. STRUCTURE - CONCRETE SUPPORT



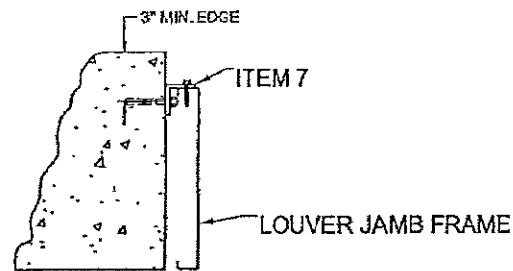
2C-ALT  
00D  
LOUVER DETAIL @ HEAD & SILL  
N.T.S.  
ALT. STRUCTURE - CONCRETE SUPPORT



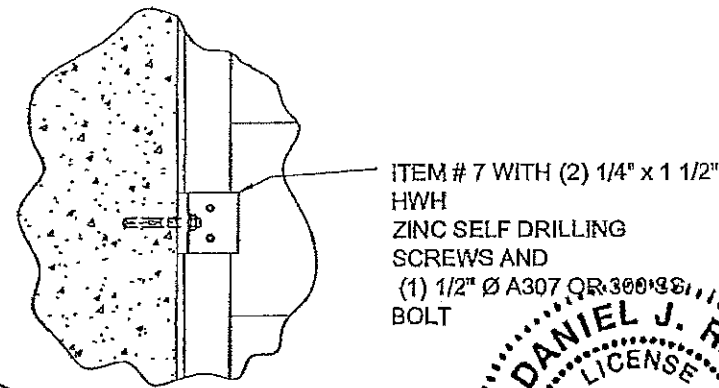
4C  
00D  
MULLION REAR ELEVATION  
N.T.S.  
ALT. STRUCTURE - CONCRETE SUPPORT



5C  
00D  
LOUVER @ JAMB DETAIL  
N.T.S.  
ALT. STRUCTURE - CONCRETE SUPPORT



5C-ALT  
00D  
LOUVER @ JAMB DETAIL  
N.T.S.  
ALT. STRUCTURE - CONCRETE SUPPORT



5C1  
00D  
LOUVER @ JAMB DETAIL  
N.T.S.  
ALT. STRUCTURE - CONCRETE SUPPORT

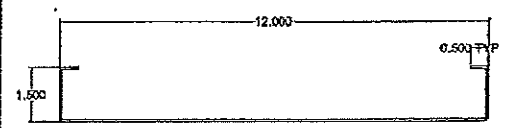
**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. **16-0627.09**  
Expiration Date **08/04/2021**  
By *[Signature]*  
Miami-Dade Product Control

FOR OFFICE USE ONLY  
PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. **13-0502.05**  
Expiration Date **08/04/2016**  
By *[Signature]*  
Miami-Dade Product Control

**DANIEL J. RAU**  
LICENSE  
NO. 63636  
STATE OF  
FLORIDA  
PROFESSIONAL ENGINEER  
7/14/2013

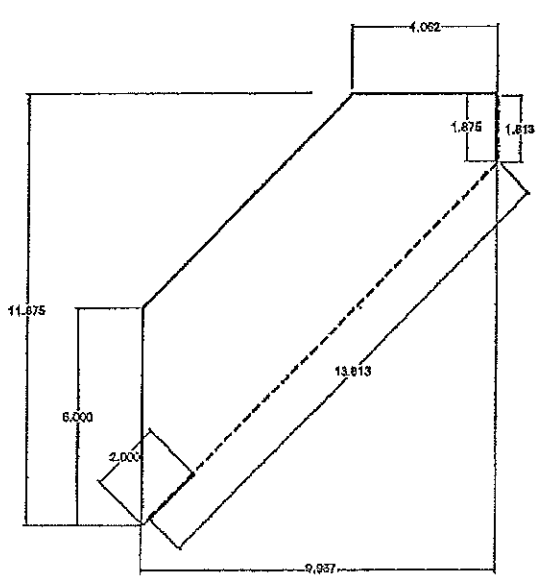
ENGINEER OF RECORD:  
**DANIEL J. RAU**  
ENGINEERING DISCIPLINE:  
**CIVIL ENGINEER**  
STATE OF FLORIDA #63636

REV.	DESCRIPTION	DATE	CHKD BY	APPD BY
B	REVISED ENGINEER OF RECORD	07/09/13	RKP	DJR
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				
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CTR	CENTER	OC	ON CENTER	
CL	CENTERLINE	OD	OUTSIDE DIAMETER	
CC	CENTER TO CENTER	OR	OUTSIDE RADIUS	
CSAM	CHARACTER	PT	POINT OF INTERSECTION	
DAT	DATUM	R	FULL RADIUS	
DET	DETAIL	REF	REFERENCE	
E-E	END TO END	SYN	SYMMETRICAL	
EXP	EXPOSED	TAR	TARGET	
ID	INSIDE DIAMETER	TYP	TYPICAL	
IR	INSIDE RADIUS			
<b>RUSKIN SWARTWOUT</b>				
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: WDA	CHK:	APPV:		
DATE: 05/05/2011	DATE:	DATE:		
PART DESC. AGL1245D LOUVER SECTION AND DETAILS				
SCALE: NTS	ECN: -	DATE:		
DWG No.	Drawing 4 of 6			
<b>60 - 022207 - 03D</b>				

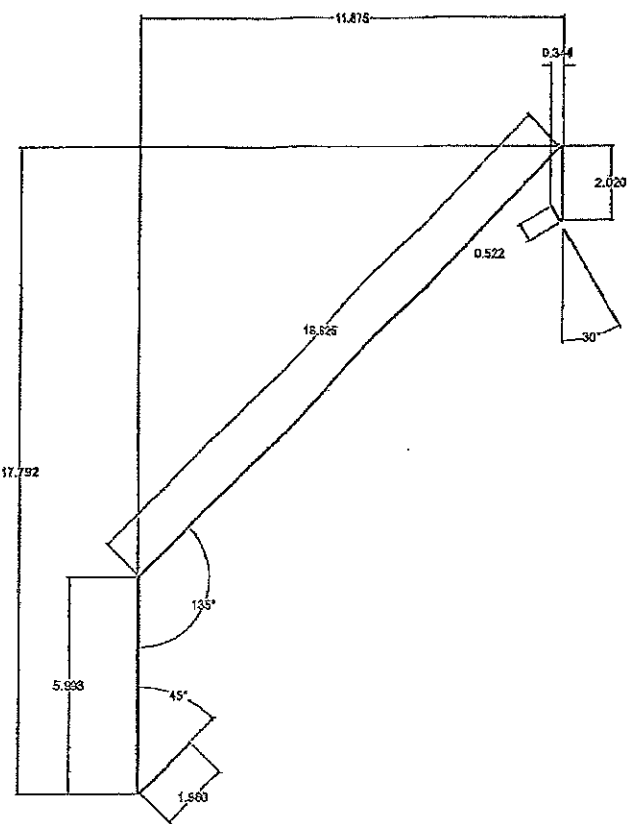


**ITEM 1 - HEAD, JAMB AND SILL FRAME**

RUSKIN# 70-020440-008-4  
ALUMINUM FLAT CUT= 15 1/2"

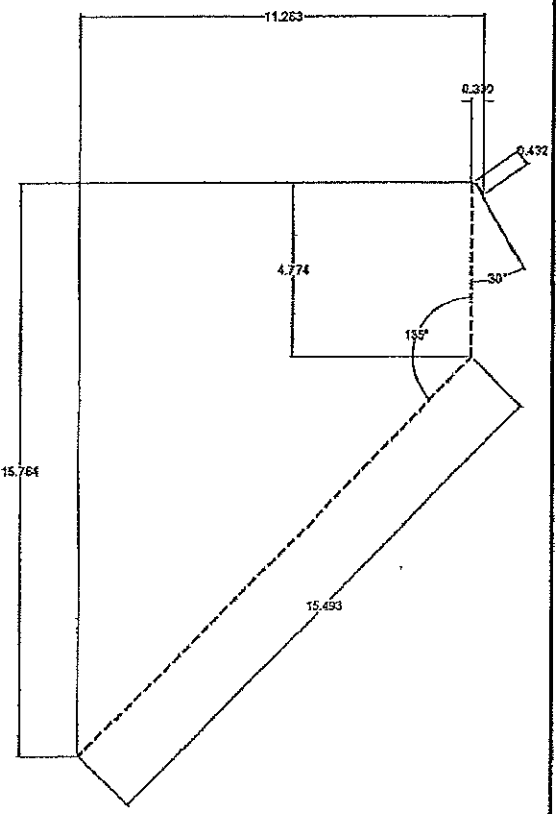


**ITEM 2 - TOP BLADE**  
RUSKIN# 70-020441-008  
ALUMINUM FLAT CUT(EXT. BLD.)= 22"  
ALUMINUM FLAT CUT(INT. BLD.)= 19 5/8"

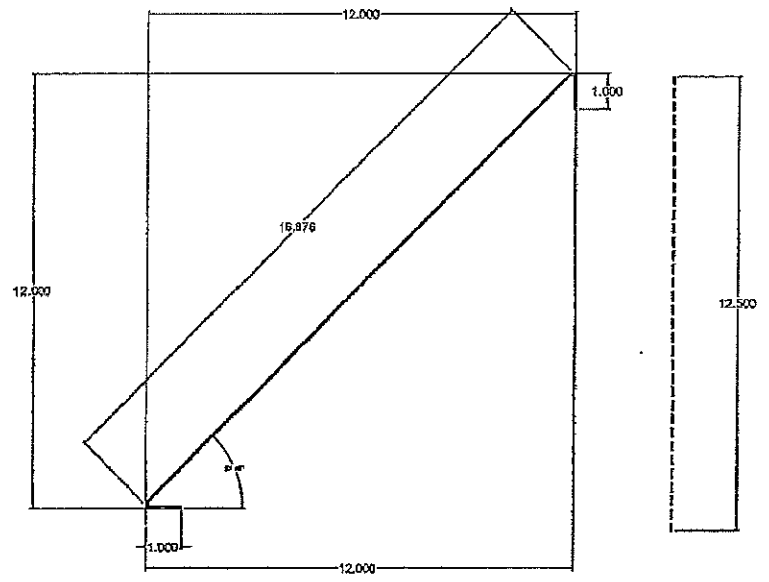


**EXTERIOR BLADE**  
ALUMINUM FLAT CUT= 27 1/16"

**ITEM 3 - TYPICAL BLADE**  
RUSKIN# 70-020445-008



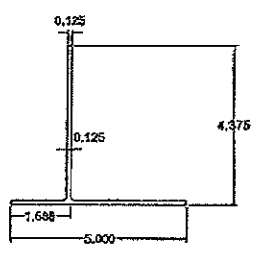
**INTERIOR BLADE**  
ALUMINUM FLAT CUT= 20 5/8"



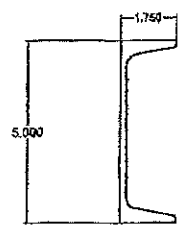
**EXTERIOR BLADE**  
ALUMINUM FLAT CUT(EXT. BLD.)= 18 7/8"

**INTERIOR CLOSURE**  
ALUMINUM FLAT CUT= 12 1/2"

**ITEM 4 - SILL PIECE**  
RUSKIN# 70-020446-008



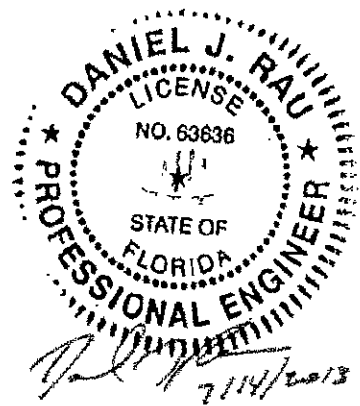
**ITEM 5 - HVBS TEE**  
RUSKIN# 70-022218-008



**ITEM 6 - C5x6.7 STEEL CHANNEL**  
HOT DIPPED GALVANIZED A571/A123

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 16-0627.09  
Expiration Date 08/04/2021  
By [Signature]  
Miami-Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 13-0502.05  
Expiration Date 08/04/2016  
By [Signature]  
Miami-Dade Product Control



ENGINEER OF RECORD:  
**DANIEL J. RAU**  
ENGINEERING DISCIPLINE:  
**CIVIL ENGINEER**  
STATE OF FLORIDA #63636

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

**RUSKIN**  
**SWARTWOUT**  
3900 DR. GREAVES RD  
GRANDVIEW, MO 64030  
TEL: (816) 761-7476 FAX: (816) 761-8102

AREA	EST. PER.	EST. WT/FT.	
-	-	-	
ALLOY & TEMPER	UNSPEC. RADII	UNSPEC. WALL	
-	-	-	
DWR:	WJM	CHK:	APPV:
DATE:	05/05/2011	DATE:	DATE:

PART DESC.  
**ACL1245D LOUVER  
PART DETAILS**

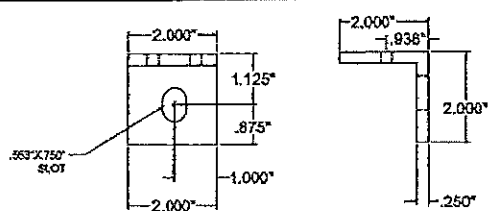
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ECL: -  
DATE:  
DWG No. **60-022207-04D**  
Drawing 5 of 6

REV.	DESCRIPTION	DATE	CHKD BY	APPD BY
B	REVISED ENGINEER OF RECORD TOLERANCES UNLESS SPECIFIED OTHERWISE	07/09/13	RJP	DJR

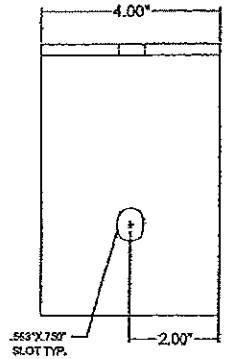
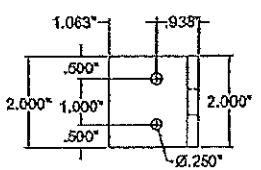
NOTE:  
1) ALL DIMENSIONS ARE GIVEN IN INCHES.  
2) ALL EXPOSED SURFACES MUST BE FREE OF DIE LINES.  
3) ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED.  
4) \*\* EXTRUDER SPECIFIC ID MARK: 008R x 008DP

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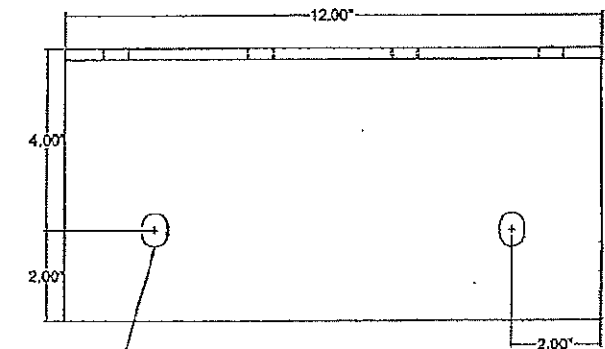
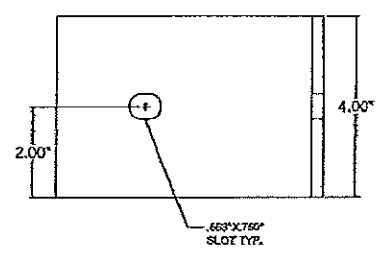
FOR OFFICE USE ONLY



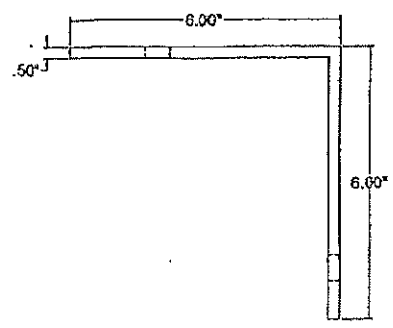
ITEM 7 - CLIP ANGLE



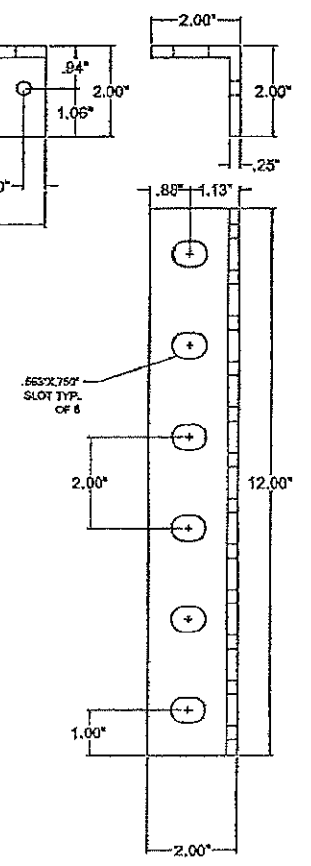
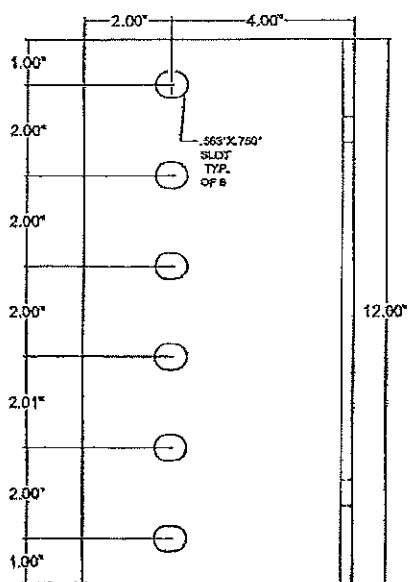
ITEM 10 - 4" CLIP @ HVBS



ITEM 9 - 12" CLIP @ HVBS



ITEM 8 - 12" CLIP @ HVBS



**PRODUCT RENEWED**  
as complying with the Florida Building Code  
NOA-No. **16-0627.09**

Expiration Date **08/04/2021**

By *[Signature]*  
**Miami-Dade Product Control**

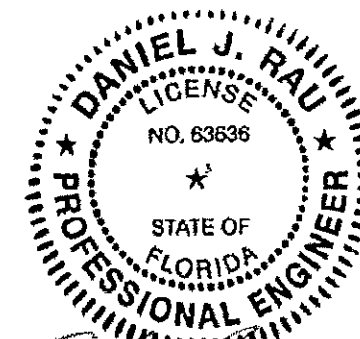


TABLE #2: DRAWING CROSS REFERENCE

ITEM	DRAWING	MATERIAL	DESCRIPTION	RUSKIN #
1	60-022207-02D	3003-H14 AL	HEAD, JAMB AND SILL FRAMES	70-020442-00B-2
2	60-022207-02D	3003-H14 AL	TOP BLADE	70-020441-00B
3	60-022207-02D	3003-H14 AL	TYPICAL BLADE	70-020443-00B
4	60-022207-02D	3003-H14 AL	SILL PIECE	70-021584-00B
5	60-022207-02D	6063-T6 AL	HVBS TEE	70-022218-00B
6	60-022207-02D	A36 STEEL	C5X6.7	-
7	60-022207-05D	6063-T6 AL	CLIP ANGLE	85-021637-00B
8	60-022207-05D	6063-T6 AL	12" CLIP @ HVBS	-
9	60-022207-05D	A36 STEEL	6" x 6" x 1/2" CLIP ANGLE	-
10	60-022207-05D	A36 STEEL	6" X 6" X 3/8" CLIP ANGLE	-

TABLE #1: APPROVED ATTACHMENTS

MIN. SUPPORT MAT'L	TYPE CONNECTION	ANGLE SLOT WIDTH	MAX SPACING	MIN EMBEDMENT	MIN EDGE
(12 GA MIN) STEEL	1/2" Ø A307 OR 300 SS Bolts	9/16"	8" C-C MAX	N/A	2 1/2"
(4" MIN) CONCRETE	1/2" Ø KB - IZ	9/16"	8" C-C MAX	2"	3"
(8" CMU) GROUT FILLED MASONRY	1/2" Ø KB - III	9/16"	8" C-C MAX	2 1/2"	4"
(2 - 2 X) WOOD	1/2" Ø X 3 LAG SCREW	9/16"	8" C-C MAX	3"	2 1/2"

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

FOR OFFICE USE ONLY

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No **13-0502-05**  
Expiration Date **08/04/2021**

By *[Signature]*  
**Miami-Dade Product Control**

ENGINEER OF RECORD:  
**DANIEL J. RAU**  
ENGINEERING DISCIPLINE:  
**CIVIL ENGINEER**  
STATE OF FLORIDA #63636

REV.	DESCRIPTION	DATE	REV'D BY	CHK'D BY	APP'D BY
B	REVISED ENGINEER OF RECORD	07/09/13			

NOTE:  
1) ALL DIMENSIONS ARE GIVEN IN INCHES.  
2) ALL EXPOSED SURFACES MUST BE FREE OF DIE LINES.  
3) ALL ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED.  
4) " " EXTRUDER SPECIFIC ID MARK: 009R X .008DP

UNLESS SPECIFIED OTHERWISE:  
3) PLACE .XXX ±.010  
2) PLACE .XX ±.020  
ANGLE DIMENSIONS ±.2"  
USE WIC-007 & 008

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CTR	CENTER	OC	ON CENTER
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DAT	DATUM	R	FULL RADIUS
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E-E	END TO END	SYM	SYMMETRICAL
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AREA	EST. PER.	EST. WT/FT.
-	-	-

ALLOY & TEMP	UNSPEC. RADII	UNSPEC. WALL
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DWR:	WJM	CHK:	APPV:
DATE: 05/05/2011	DATE:	DATE:	DATE:

PART DESC. **AGL1245D LOUVER PART DETAILS**

SCALE: NTS ECN: - DATE:  
DWG No. **Drawing 6 of 6**  
**60 - 022207 - 05D**