



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 ACL1245AFD Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **60-022208**, titled "ACL1245AFD Louver", sheets 1 through 6 of 6, dated 07/16/2011, 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 revises NOA # 16-0627.10 and consists of this page 1 and evidence pages E-1 & E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Helmy A. Makar, P.E., M.S.**



Helmy A. Makar
02/08/2018

NOA No. 17-1025.01
Expiration Date: 11/08/2021
Approval Date: 02/08/2018

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS “Submitted under NOA # 13-0502.06”

1. Drawing No. **60-022208**, titled “ACL1245AFD Louver”, sheets 1 through 6 of 6, dated 07/16/2011, 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 # 11-0207.22”

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 ACL1245AFD Aluminum Louvers”, prepared by National Certified Testing Laboratories, Report No. **210-3711-3**, dated 11/05/2010, signed and sealed by Gerald J. Ferrara, P.E.

C. CALCULATIONS “Submitted under NOA # 11-0207.22”

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

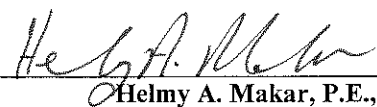
1. Test report on impact test per AMCA 540 of an ACL1245AFD Acoustical louver, prepared by Ruskin Company, Test Report No. **082412D**, dated 08/24/2012, signed and sealed by Daniel J. Rau, P.E.

F. STATEMENTS

1. Statement letter of code conformance to the 5th edition (2014) FBC issued by Ruskin Company, dated 06/14/2016, signed and sealed by Daniel J. Rau, P.E.

“Submitted under NOA # 13-0502.06”

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



Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor

NOA No. 17-1025.01

Expiration Date: 11/08/2021

Approval Date: 02/08/2018

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. *None.*

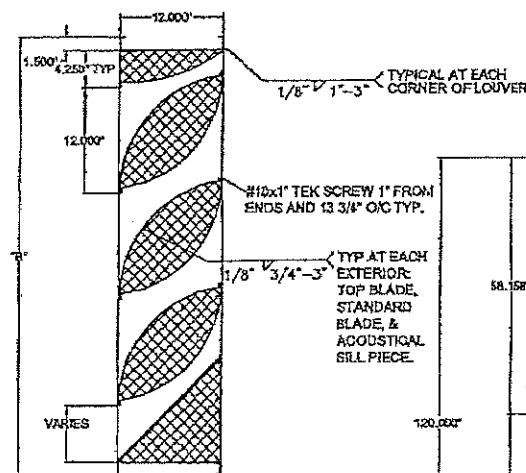
F. STATEMENTS

1. Statement letter of code conformance to the 6th edition (2017) FBC issued by Ruskin Company, dated 10/09/2017, signed and sealed by Daniel J. Rau, P.E.



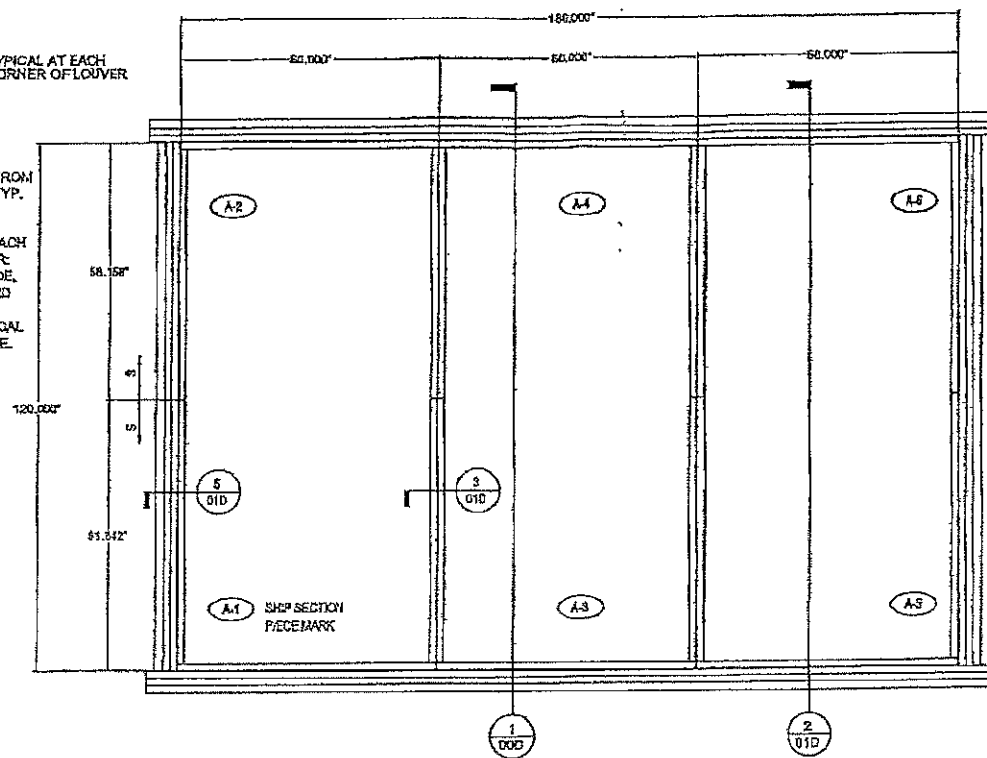
Helmy A. Makar, P.E., M.S.
Product Control Section Supervisor
NOA No. 17-1025.01
Expiration Date: 11/08/2021
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FRAME	
Formed .125" aluminum channel.	X
BLADES	
Formed .081" aluminum exterior w/ .050" perforated aluminum interior surface.	
4" Thick Mineral Wool Blanket 4 # Density	
SCREEN	
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.	X
FINISH	
Mill.	X
Kynar (opt).	
Baked enamel (modified fluoropolymer, 50% Kynar, opt).	
Color anodize (opt).	
Clear anodize (opt).	
ACCESSORIES (opt)	
Flange frame.	
Extended sill.	
Clip angles.	X
Blankoff panel.	

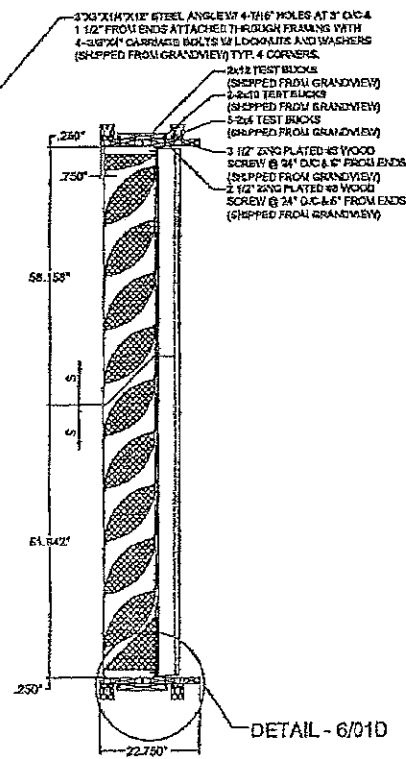


ACL1245AFD

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1625.01
Expiration Date 11/08/2021
By *Heidi A. Walker*
Miami Dade Product Control



FRONT VIEW



DETAIL - 6/010

NOTES:

- 1) THE ACL1245AFD 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.

ASSEMBLY 'A'

N.T.S.

3-ASSEMBLIES REQUIRED WITH 6-SHIP SECTIONS

DRAWING INDEX:

- 60-022208-00D ACL1245AFD TEST LOUVER - SPEC, ASSY AND NOTES Drawing 1 of 6.
- 60-022208-01D ACL1245AFD TEST LOUVER - SECTION AND DETAILS Drawing 2 of 6.
- 60-022208-02D ACL1245AFD TEST LOUVER - SECTION AND DETAILS Drawing 3 of 6.
- 60-022208-03D ACL1245AFD TEST LOUVER - SECTION AND DETAILS Drawing 4 of 6.
- 60-022208-04D ACL1245AFD TEST LOUVER - PART DETAILS Drawing 5 of 6.
- 60-022208-05D ACL1245AFD 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

FOR OFFICE USE ONLY

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 16-0627.10
Expiration Date 09/08/2021
By *Heidi A. Walker*
Miami Dade Product Control

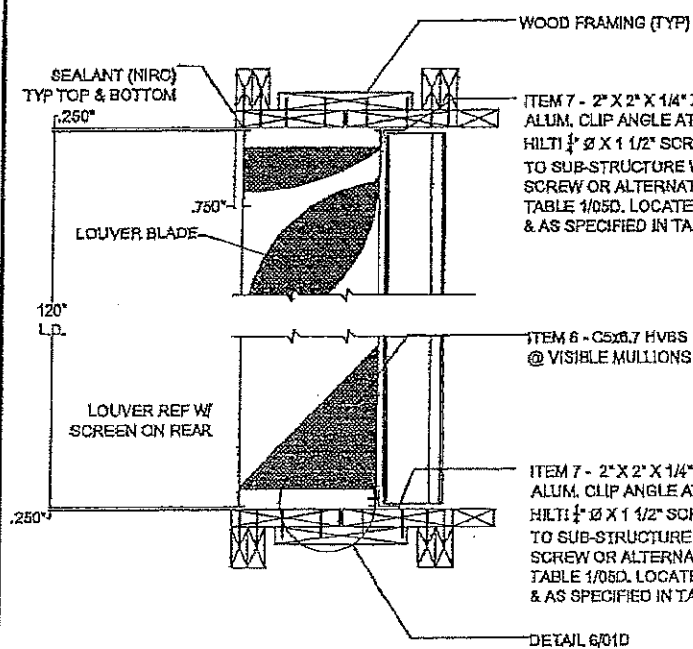
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-0502.06
Expiration Date 09/09/2016
By *Heidi A. Walker*
Miami Dade Product Control

DANIEL J. RAU
LICENSE
NO. 63636
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

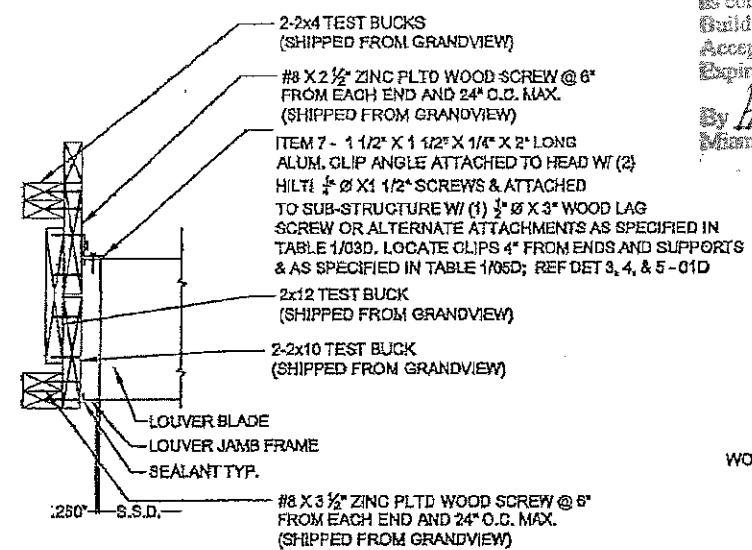
ENGINEER OF RECORD
DANIEL J. RAU
CIVIL ENGINEER
STATE OF FLORIDA #63636

REVISED NOTES, DRAWING INDEX & ENGINEER OF RECORD	DATE	BY	APP'D BY
REVISED BLADE WELDING INFORMATION	10/14/10	VMA	CHKD BY
REVISED BLADE WELDING INFORMATION	07/08/13	RVP	DJR
UNLESS OTHERWISE SPECIFIED			
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: 068R x .008DP			
CTR CENTER	OC OH CENTER		
CL CENTER LINE	OD OH OUTSIDE DIAMETER		
C-C CENTER TO CENTER	OR OUTSIDE RADIUS		
CHAM CHAMFER	OS POINT OF INTERSECTION		
DAT DATUM	R FULL RADIUS		
DET DETAIL	REF REFERENCE		
END END TO END	STA SYMMETRICAL		
EXP EXPOSED	TAN TANGENT		
IR INSIDE DIAMETER	TYP TYPICAL		
IR INSIDE RADIUS			
RUSKIN SWARTWOUT			
3900 DR. GREAVES RD GRANDVIEW, IA 50330 PH: (816) 761-7478 FAX: (816) 763-8182			
AREA	EST. PER.	EST. YR/FT.	
ALLOY & TEMPER	UNSPEC. RADII	UNSPEC. WALL	
DWG. WJM	CHKC	APPV:	
DATE: 07/16/11	DATE:	DATE:	
PART DESC. ACL1245AFD LOUVER SPECS, ASSYS AND NOTES			
SCALE: NTS	ECN: -	DATE:	
DWG No.	Drawing 1 of 6		
60 - 022208 - 00D			

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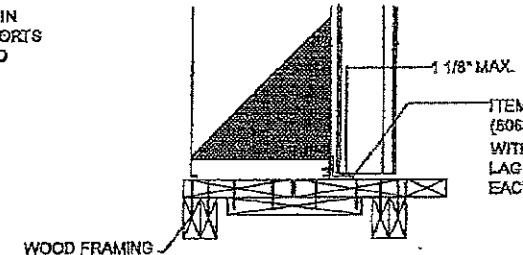


2 LOUVER DETAIL @ HEAD & SILL
00D N.T.S.



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

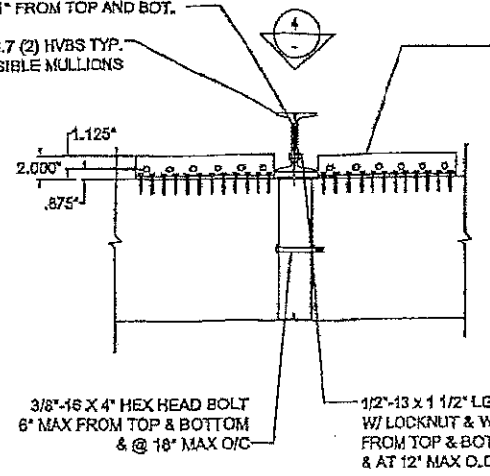
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1025.01
Expiration Date 11/08/2021
By *Heidi A. McInerney*
Miami-Dade Product Control



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

70-022218-008
EXTRUDED TEE
FASTENED TO MULLION
WITH 1/2" Ø TEKS AT 4 3/8" MAX. O/C
AND 1" FROM TOP AND BOT.

C5x6.7 (2) HVBS TYP.
@ VISIBLE MULLIONS



3 MULLION DETAIL
N.T.S.

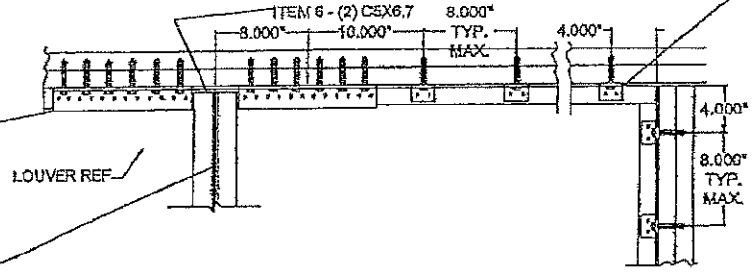
ITEM 8 - 2"x2"x1/4"x12" EXTRUDED ALUM (6063-T6) ANGLE
ATTACHED TO LOUVER WITH (12) - 1/2" Ø X 1 1/2" TEK SCREWS
AND (6) - 1/2" Ø X 3" LAG SCREWS INTO WOOD FRAMING TYP.
AT EACH VISIBLE MULLION

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 16-0627.10
Expiration Date 09/08/2021
By *Heidi A. McInerney*
Miami-Dade Product Control

ITEM 7 - 2" X 2" X 1/4" X 2" LONG
ALUM. CLIP ANGLE ATTACHED TO HEAD W/ (2)
HILTI 1/2" Ø X 1 1/2" SCREWS & ATTACHED
TO SUB-STRUCTURE W/ (1) 1/2" Ø X 3" WOOD LAG
SCREW OR ALTERNATE ATTACHMENTS AS SPECIFIED IN
TABLE 1/05D. LOCATE CLIPS 4" FROM ENDS AND SUPPORTS
& AS SPECIFIED IN TABLE 1/05D; REF DET 3, 4, & 5 - 01D

ITEM 8 - 2"x2"x1/4"x12"
EXTRUDED ALUM (6063-T6)
ANGLE ATTACHED TO LOUVER
WITH 1/2" Ø X 1 1/2" TEK SCREWS
AND 1/2" Ø X 3" LAG SCREWS INTO
WOOD FRAMING TYP. AT EACH
VISIBLE MULLION

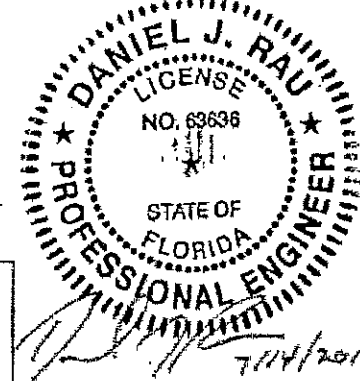
ITEM 5 - 70-022218-008
EXTRUDED TEE
FASTENED TO MULLION
WITH 1/2" Ø TEKS AT 12" O/C
MAX AND 1" FROM TOP AND BOT.



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

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 13-0502.06
Expiration Date 09/08/2016
By *Heidi A. McInerney*
Miami-Dade Product Control

FOR OFFICE USE ONLY



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

REV.	DESCRIPTION	DATE	BY	APP'D BY
1	REVISED ENGINEER OF RECORD	07/08/13	RJP	DJR
2	TOLERANCES UNLESS SPECIFIED OTHERWISE			
3	ALL DIMENSIONS ARE GIVEN IN INCHES.			
4	2) ALL EXPOSED SURFACES MUST BE FREE OF DIRT LINES.			
5	3) ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED.			
6	4) 1" EXTRUDED SPECIFIC ID MARK-.008 x .0000P			

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CTR	CENTER	OC	ON CENTER
C-L	CENTER LINE	OD	OUTSIDE DIAMETER
C-C	CENTER TO CENTER	OR	OUTSIDE RADIUS
CHAM	CHAMFER	PI	POINT OF INTERSECTION
DAT	DATUM	R	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 SWARTWOUT

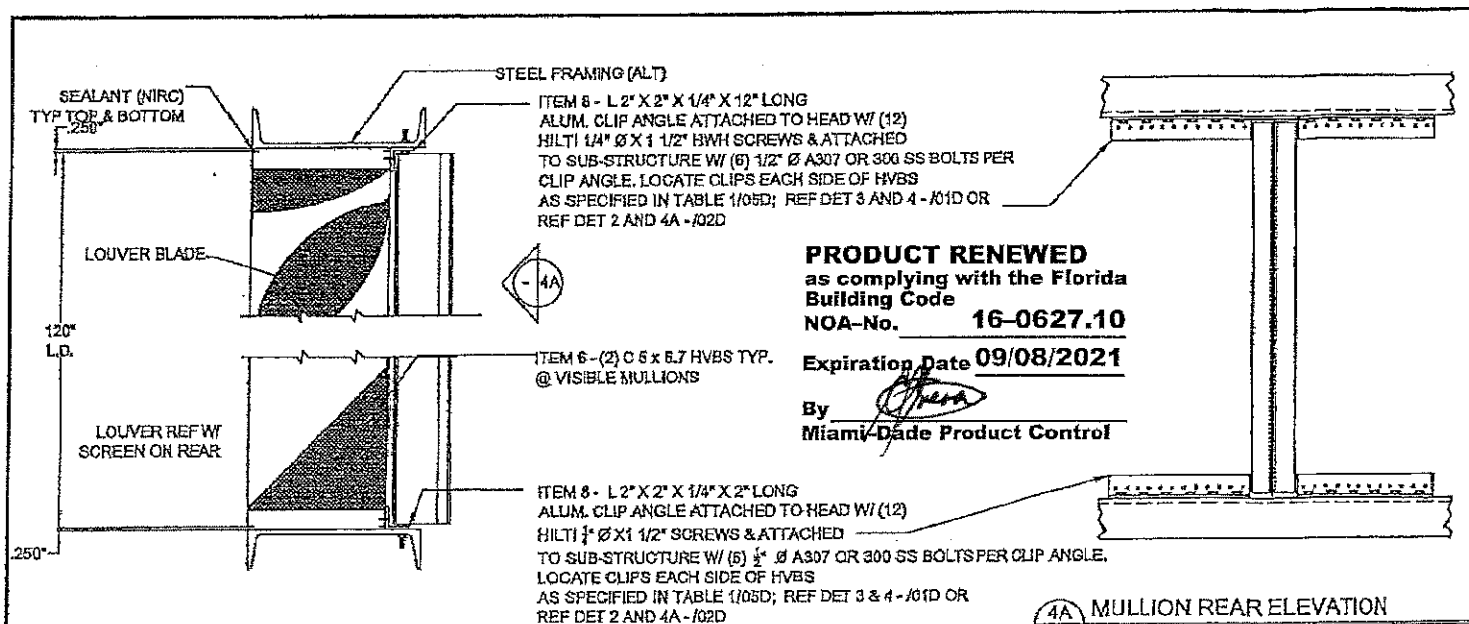
3200 DR. GREAVES RD
GRANDVIEW, MO 64030
PH: (816) 761-2478 FAX: (816) 763-8102

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

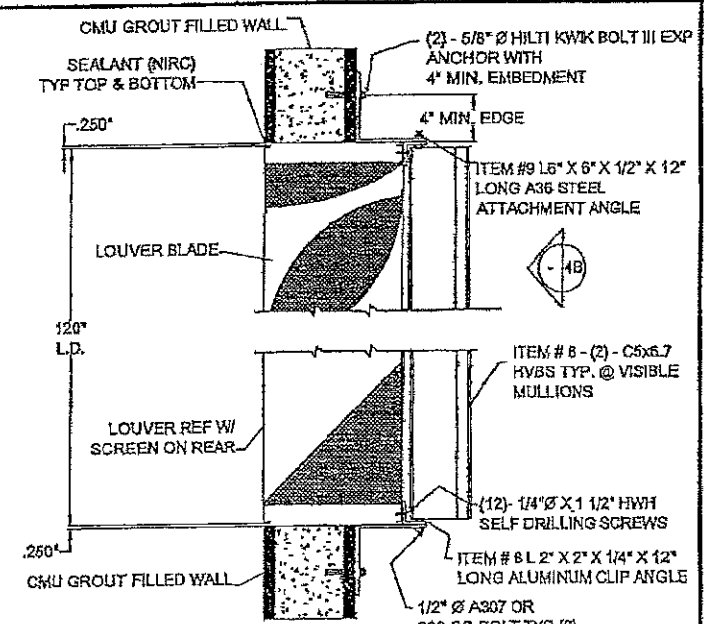
DWN:	WJA	CHK:		APPV:	
DATE:	07/16/10	DATE:		DATE:	

PART DESC. ACL1245AFD LOUVER SECTION AND DETAILS

SCALE:	NTS	ECN:	-	DATE:	
DWG No.	Drawing 2 of 6				
60-022208-01D					



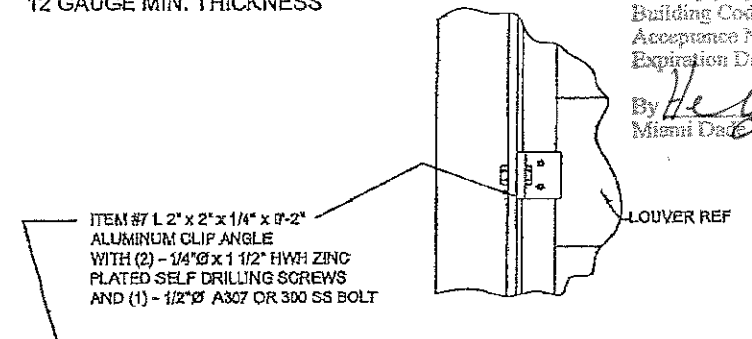
PRODUCT RENEWED
 as complying with the Florida
 Building Code
 NOA-No. **16-0627.10**
 Expiration Date **09/08/2021**
 By *[Signature]*
 Miami-Dade Product Control



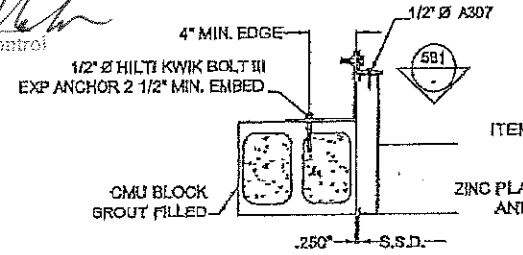
2B
 LOUVER DETAIL @ HEAD & SILL
 N.T.S.
 ALT. STRUCTURE - CMU BLOCK

2
 LOUVER DETAIL @ HEAD & SILL
 N.T.S.
 ALT. STRUCTURE - STEEL FRAME
 12 GAUGE MIN. THICKNESS

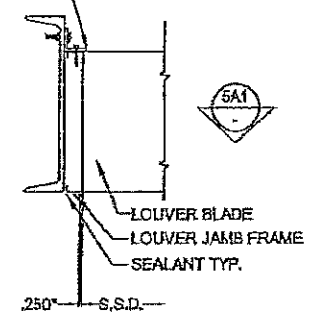
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 Acceptance No. **17-1025.01**
 Expiration Date **11/08/2021**
 By *[Signature]*
 Miami-Dade Product Control



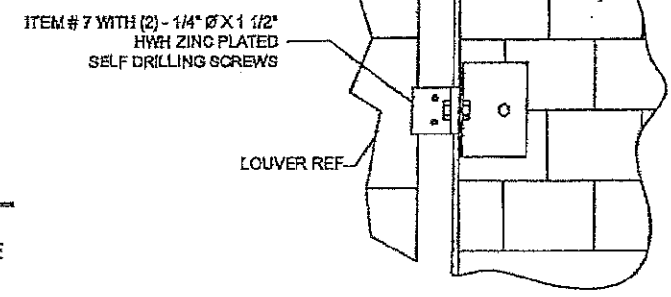
5A1
 LOUVER @ JAMB DETAIL
 N.T.S.
 ALT. STRUCTURE - STEEL FRAME
 12 GAUGE MIN. THICKNESS



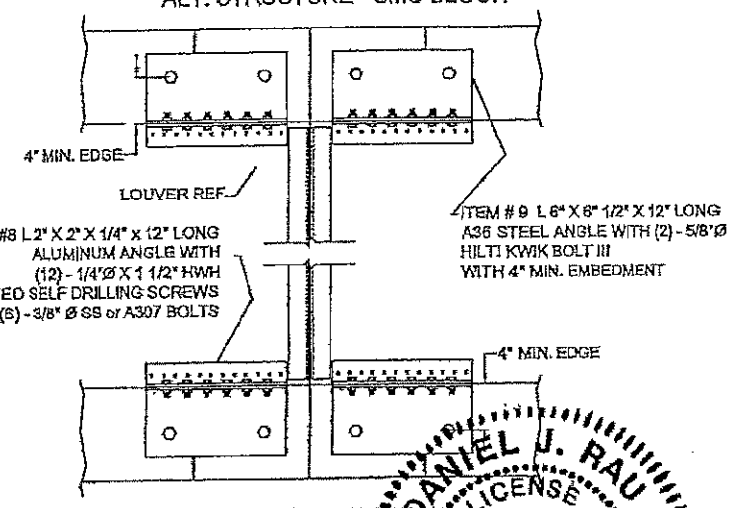
5B1
 LOUVER @ JAMB DETAIL
 N.T.S.
 ALT. STRUCTURE - CMU BLOCK



5
 LOUVER @ JAMB DETAIL
 N.T.S.
 ALT. STRUCTURE - STEEL FRAME
 12 GAUGE MIN. THICKNESS

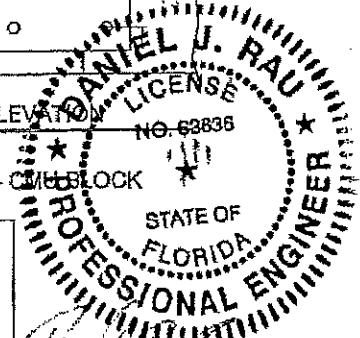


5B1
 LOUVER @ JAMB DETAIL



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

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. **13-0502.06**
 Expiration Date **09/08/2016**
 By *[Signature]*
 Miami-Dade Product Control



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

REV.	DESCRIPTION	DATE	CHK'D BY	APP'D BY
B	REVISED ENGINEER OF RECORD	07/08/13	RJR	DJR

NOTE:
 1) ALL DIMENSIONS ARE GIVEN IN INCHES.
 2) ALL EXPOSED SURFACES MUST BE FREE OF DIRT.
 3) ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED.
 4) * - EXTRUDER SPECIFIC ID MARK, JOB# X. 00000

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RUSKIN SWARTWOUT
 2800 DR. GREAVES RD
 GRANDVIEW, MO 64030
 PH: (816) 751-7476 FAX: (816) 763-8102

AREA	EST. PER.	EST. WTUFT.

ALLOY & TEMPER	UNSPEC. RADII	UNSPEC. WALL

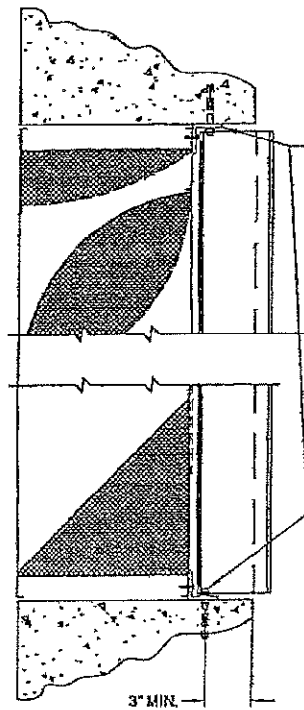
DWG. NO.	CHK.	APPV.
08/16/10		

PART DESC. **ACL1245AFD LOUVER SECTION AND DETAILS**

SCALE: NTS	ECK: -	DATE:

DWG No. **Drawing 3 of 6**
60-022208-02D

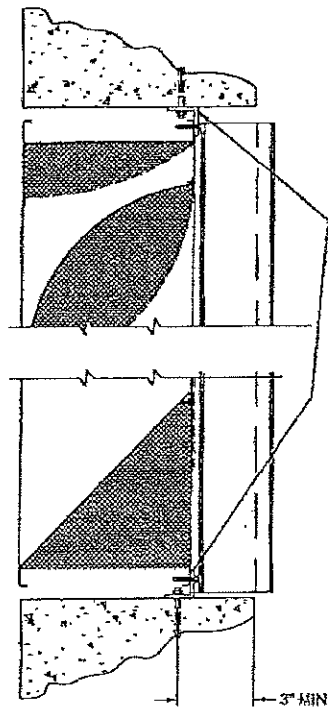
FOR OFFICE USE ONLY



ITEM #8 ALUMINUM L 2" x 2" x 1/4" x 1'-0" WITH (12) - 1/4"Ø x 1 1/2" HWH ZINC PLATED SELF DRILLING SCREWS AND (6) - 1/2"Ø HILTI KWIK BOLT III WITH (2 1/2" MIN. EMBEDMENT)

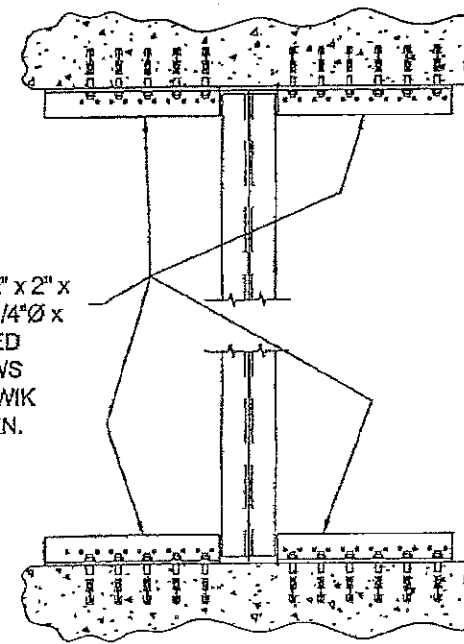
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 17-1025.01
Expiration Date 11/08/2021
By *Healy*
Miami-Dade Product Control

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

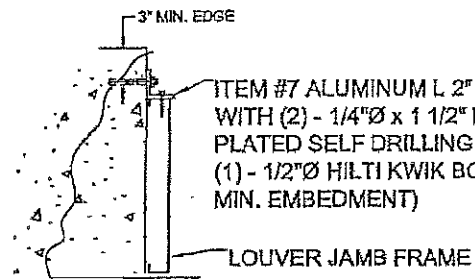


ITEM #8 ALUMINUM L 2" x 2" x 1/4" x 1'-0" WITH (12) - 1/4"Ø x 1 1/2" HWH ZINC PLATED SELF DRILLING SCREWS AND (6) - 1/2"Ø HILTI KWIK BOLT III WITH (2 1/2" MIN. EMBEDMENT)

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

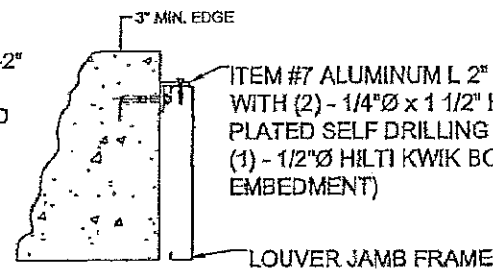


4C
00D N.T.S.
MULLION REAR ELEVATION
ALT. STRUCTURE - CONCRETE SUPPORT



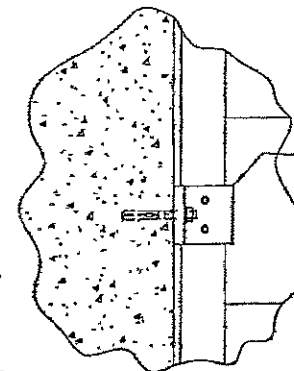
ITEM #7 ALUMINUM L 2" x 2" x 1/4" x 0'-2" WITH (2) - 1/4"Ø x 1 1/2" HWH ZINC PLATED SELF DRILLING SCREWS AND (1) - 1/2"Ø HILTI KWIK BOLT III (2 1/2" MIN. EMBEDMENT)

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



ITEM #7 ALUMINUM L 2" x 2" x 1/4" x 0'-2" WITH (2) - 1/4"Ø x 1 1/2" HWH ZINC PLATED SELF DRILLING SCREWS AND (1) - 1/2"Ø HILTI KWIK BOLT III (2 1/2" MIN. EMBEDMENT)

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



ITEM #7 ALUMINUM L 2" x 2" x 1/4" x 0'-2" WITH (2) - 1/4"Ø x 1 1/2" HWH ZINC PLATED SELF DRILLING SCREWS AND (1) - 1/2"Ø HILTI KWIK BOLT III (2 1/2" MIN. EMBEDMENT)

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

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 16-0627.10
Expiration Date 09/08/2021
By *Healy*
Miami-Dade Product Control

FOR OFFICE USE ONLY
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 13-0502.06
Expiration Date 09/08/2016
By *Healy*
Miami-Dade Product Control

DANIEL J. RAU
LICENSE NO. 83638
STATE OF FLORIDA
PROFESSIONAL ENGINEER
7/14/2013

ENGINEER OF RECORD
DANIEL J. RAU
ENGINEERING DISCIPLINE
CIVIL ENGINEER
STATE OF FLORIDA #63638

REV.	DESCRIPTION	DATE	CHKD BY	APPD BY
B	REVISED ENGINEER OF RECORD AND PART DESCRIPTION	07/08/13	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				

CTR	CENTER	OC	ON CENTER
CL	CENTERLINE	OD	OUTSIDE DIAMETER
C.C	CENTER TO CENTER	OR	OUTSIDE RADIUS
CHAM	CHAMFER	P.I.	POINT OF INTERSECTION
DAT	DATUM	R	RADIUS
DET	DETAIL	REF	REFERENCE
E.E	END TO END	SYA	SYMMETRICAL
EXP	EXPOSED	TAK	TAKENIT
ID	INSIDE DIAMETER	TYP	TYPICAL
IR	INSIDE RADIUS		

RUSKIN SWARTWOUT

3900 DR. GREAVES RD
GRANDVIEW, MO 64030
PH: (816) 761-7476 FAX: (816) 765-6102

AREA	EST. PER	EST. W/DT.
ALLOY & TEMPER	UNSPEC. RADII	UNSPEC. WALL

DWNE	W/M	CHKC	APPV
DATE: 08/17/10	DATE:	DATE:	DATE:

PART DESC.
ACL1245AFD LOUVER SECTION AND DETAILS

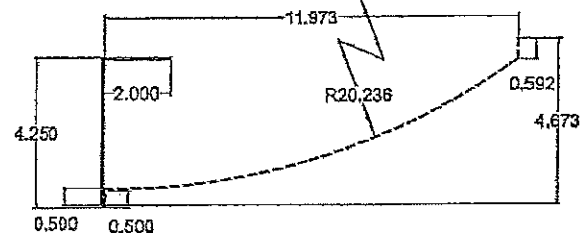
SCALE: NTS	ECR: -	DATE:
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DWG No. Drawing 4 of 8
60 - 022208 -03D

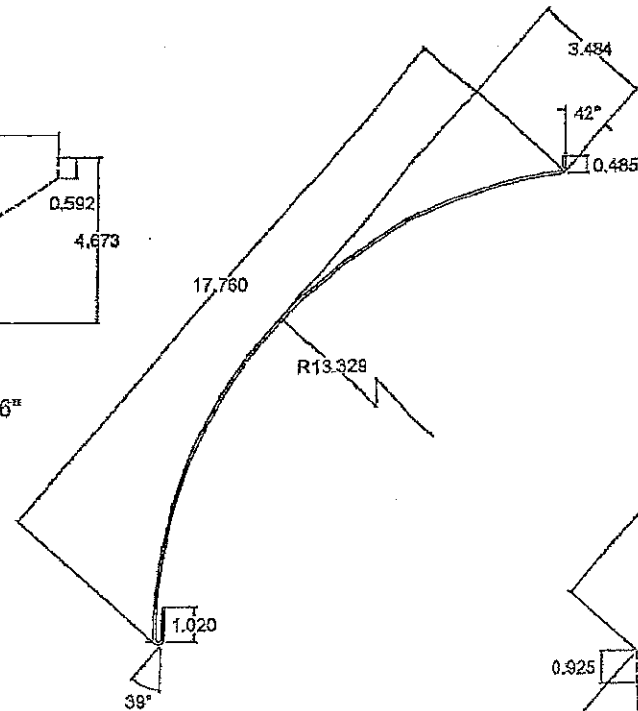
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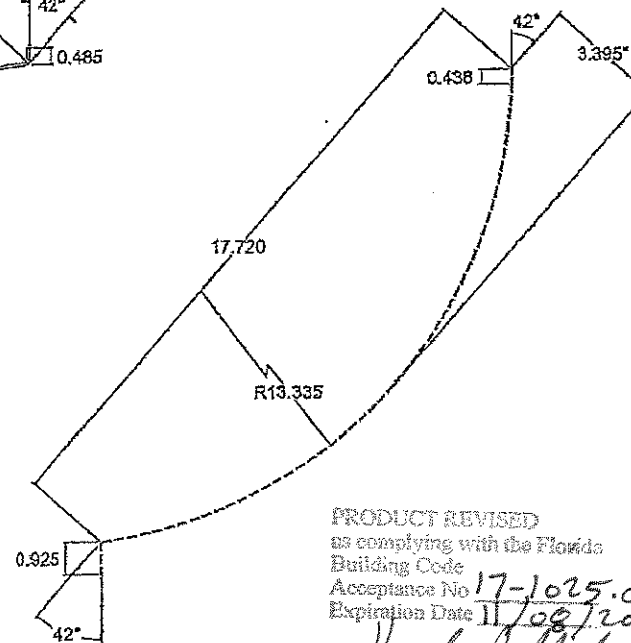
ITEM 1 - HEAD, JAMB AND SILL FRAME
 ALUMINUM FLAT CUT= 15 1/2"
 RUSKIN# 70-020440-00B-4



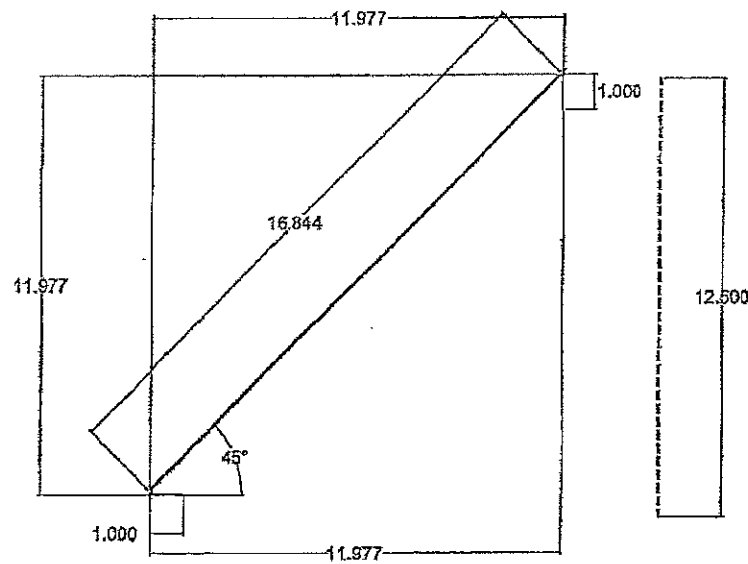
INTERIOR BLADE
 ALUMINUM FLAT CUT= 6 9/16"
 RUSKIN# 70-020514-00B



EXTERIOR BLADE
 ALUMINUM FLAT CUT= 21 1/16"

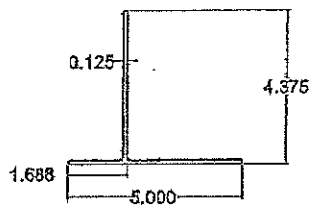


PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 17-1025.01
 Expiration Date 11/08/2021
 By *[Signature]*
 Miami Dade Product Control

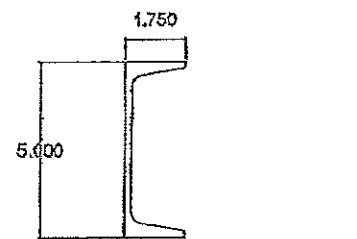


ITEM 3 - TYPICAL BLADE
 RUSKIN# 70-020099-00B

INTERIOR BLADE
 ALUMINUM FLAT CUT= 20 7/16"
 RUSKIN# 70-020098-00B



ITEM 5 - HVBS TEE
 RUSKIN# 70-022218-00B



ITEM 6 - C5x6.7 STEEL CHANNEL
 HOT DIPPED GALVANIZED ASTM A123

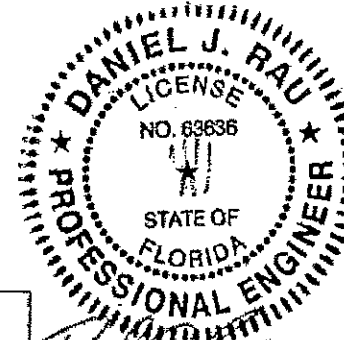
EXTERIOR BLADE
 ALUMINUM FLAT CUT(EXT. BLD.)= 16 7/8"
ITEM 4 - SILL PIECE
 RUSKIN# 70-020446-00B

INTERIOR CLOSURE
 ALUMINUM FLAT CUT= 12 1/2"

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No 16-0627.10
 Expiration Date 09/08/2021
 By *[Signature]*
 Miami Dade Product Control

FOR OFFICE USE ONLY

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 13-0502.06
 Expiration Date 07/08/2016
 By *[Signature]*
 Miami Dade Product Control



PROFESSOR OF RECORD
 DANIEL J. RAU
 ENGINEER'S LICENSE
 CIVIL ENGINEER
 STATE OF FLORIDA #63636

REV.	DESCRIPTION	DATE	RIP	CHK'D BY	DIR	APPRO BY
B	REVISED ENGINEER OF RECORD					

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-J08R x .008D"

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RUSKIN SWARTWOUT

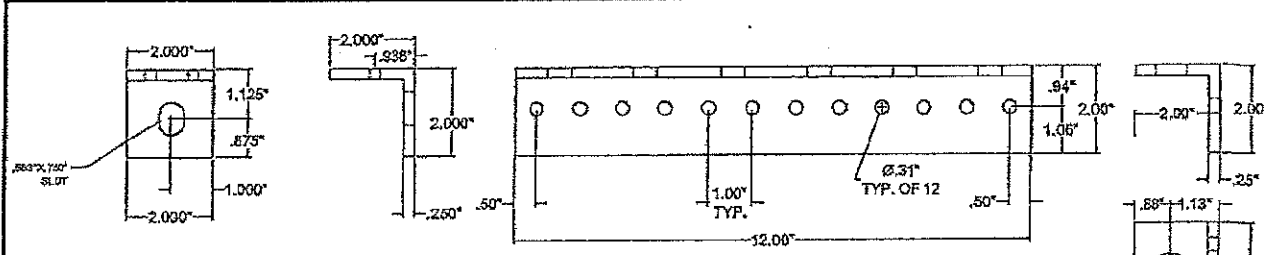
2800 DR. GRIFFIN RD
 GRAHNSV, MO 64030
 PH: (816) 741-7476 FAX: (816) 723-8102

AREA	EST. PER.	EST. VOLUME
ALLOY & TEMPER	UNSPEC. RADII	UNSPEC. WALL

DWN: WJM CHK: APPV: DATE: 08/17/10 DATE: DATE:

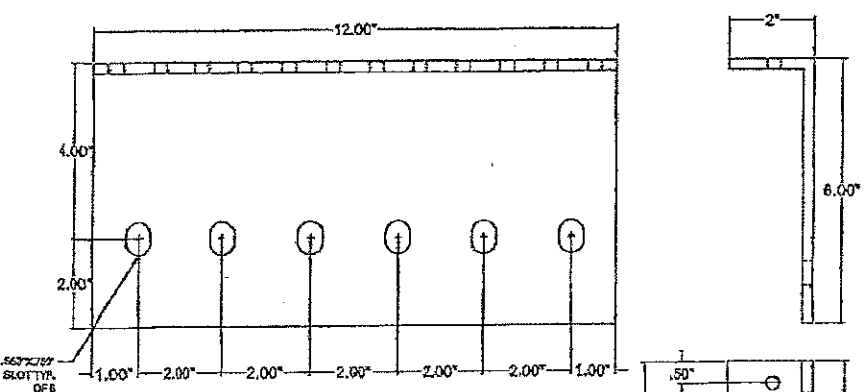
PART DESC.
 ACL1245AFD LOUVER PART DETAILS

SCALE: NTS ECH: DATE:
 DWG No. Drawing 5 of 6
 60 - 022208 - 04D

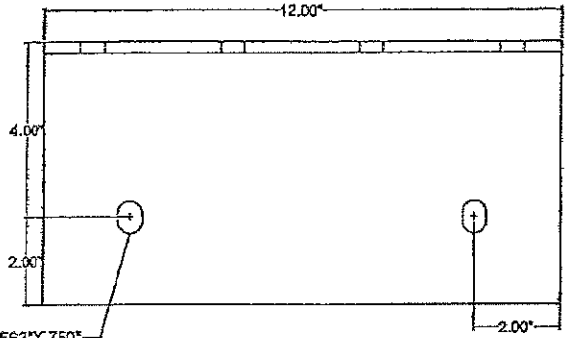


ITEM 7 - CLIP ANGLE

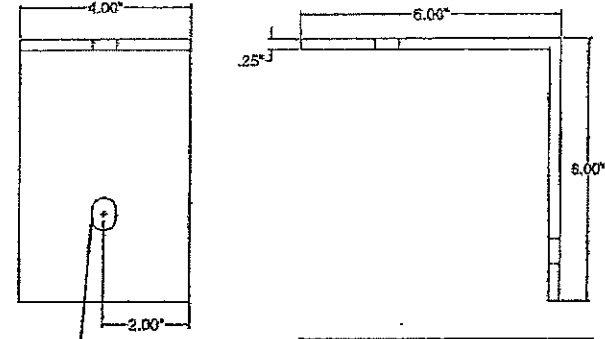
ITEM 8 - 12" CLIP @ HVBS



ITEM 9 - 12" CLIP @ HVBS



ITEM 10 - 12" CLIP @ HVBS



ITEM 11 - 4" CLIP @ HVBS

PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. 16-0627.10
 Expiration Date 09/08/2021
 By *[Signature]*
 Miami-Dade Product Control

TABLE #2: DRAWING CROSS REFERENCE

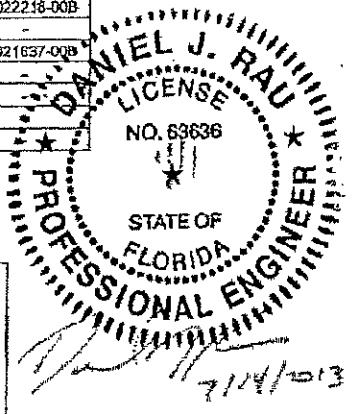
ITEM	DRAWING	MATERIAL	DESCRIPTION	RUSKIN #
1	60-022208-02D	3003-H14 AL	HEAD, JAMB AND SILL FRAMES	70-020442-00B-2
2	60-022208-02D	3003-H14 AL	TOP BLADE	70-020441-00B
3	60-022208-02D	3003-H14 AL	TYPICAL BLADE	70-020443-00B
4	60-022208-02D	3003-H14 AL	SILL PIECE	70-021584-00B
5	60-022208-02D	6063-T6 AL	HVBS TEE	70-022218-00B
6	60-022208-02D	A36 STEEL	CSX6.7	-
7	60-022208-05D	6063-T6 AL	CLIP ANGLE	85-021037-00B
8	60-022208-05D	6063-T6 AL	12" CLIP @ HVBS	-
9	60-022208-05D	6063-T6 AL	12" X 8" X 2" CLIP ANGLE	-
10	60-022208-05D	6063-T6 AL	12" X 6" X 8" CLIP ANGLE	-
11	60-022208-05D	6063-T6 AL	6" X 6" X 4" CLIP ANGLE	-

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 17-1025.01
 Expiration Date 11/08/2021
 By *[Signature]*
 Miami-Dade Product Control

TABLE #1: APPROVED ATTACHMENTS

MIN. SUPPORT MAT'L	TYPE CONNECTION	ANGLE SLOT WIDTH	MAX SPACING	MIN EMBEDMENT	MIN EDGE
(1/2 GA MIN) STEEL	1/2" Ø A307 BOLT	9/16"	8" C-C MAX.	N/A	2 1/2"
(4" MIN) CONCRETE	1/2" Ø RB T2 EXP ANCHOR	9/16"	8" C-C MAX.	2 1/2"	3"
(8" CMU) GROUT FILLED MASONRY	1/2" Ø RB III EXP ANCHOR	9/16"	8" C-C MAX.	2 1/2"	4"
(2) 2 X 4 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



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 Expiration Date 09/08/2016
 By *[Signature]*
 Miami-Dade 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	APP'D BY
B	REVISED ENGINEER OF RECORD UNLESS OTHERWISE SPECIFIED	07/08/13	RJP	DJR

NOTE:
 1) ALL DIMENSIONS ARE GIVEN IN FEET/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 .008DP

3 PLACE XXX.XX
 2 PLACE XX.XX
 ANGLE DIMENSIONS **
 USE W/307 & 608

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

RUSKIN SWARTWOUT

3000 DR. GREENS RD
 GRANVIEW, MO 64036
 PH: (816) 761-7476 FAX: (816) 763-6102

AREA	EST. PER.	EST. W/FT.
ALLOY & TEMPER	UNSPEC. RADII	UNSPEC. WALL
OWN: WJM	CHK: []	APPV: []
DATE: 07/18/10	DATE: []	DATE: []
PART DESG. ACL1245AFD LOUVER PART DETAILS		

SCALE: NTS EGN: - DATE:
 DWG No. **Drawing 6 of 6**
60 - 022208 - 05D