



**MIAMI-DADE COUNTY**  
**BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)**  
**BOARD AND CODE ADMINISTRATION DIVISION**

**MIAMI-DADE COUNTY**  
**PRODUCT CONTROL SECTION**  
 11805 SW 26 Street, Room 208  
 Miami, Florida 33175-2474  
 T (786) 315-2590 F (786) 315-2599

**NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov/building](http://www.miamidade.gov/building)

**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 BNC - 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. BNC 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. **60-022208-00D to 05D**, titled "ACL1245AFD Louver" Sheets 1 through 6 of 6, dated 07/16/11, prepared by Ruskin Company, signed and sealed by William J. Mossie, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval 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, city, state 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 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.**



*Carlos M. Utrera*  
 08/30/11

NOA No. 11-0207.22  
 Expiration Date: September 08, 2016  
 Approval Date: September 08, 2011  
 Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **60-022208-00D to 05D**, titled "ACL1245AFD Louver" Sheets 1 through 6 of 6, dated 07/16/11, prepared by Ruskin Company, signed and sealed by William J. Mossie, P.E.

**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 ACL1245AFD Aluminum Louvers", prepared by National Certified Testing Laboratories, Report No. **210-3711-3**, dated 11/05/10, signed and sealed by Gerald J. Ferrara, P.E.

**C. CALCULATIONS**

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

**D. QUALITY ASSURANCE**

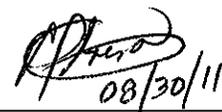
1. Miami-Dade Building and Neighborhood Compliance Department (BNC)

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

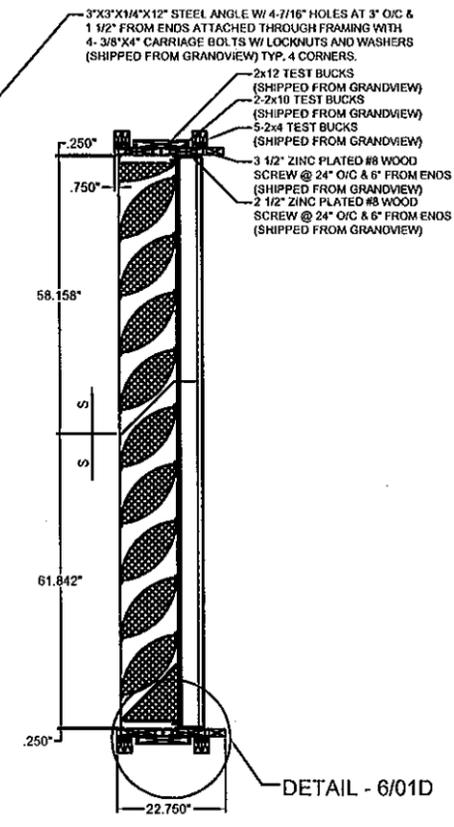
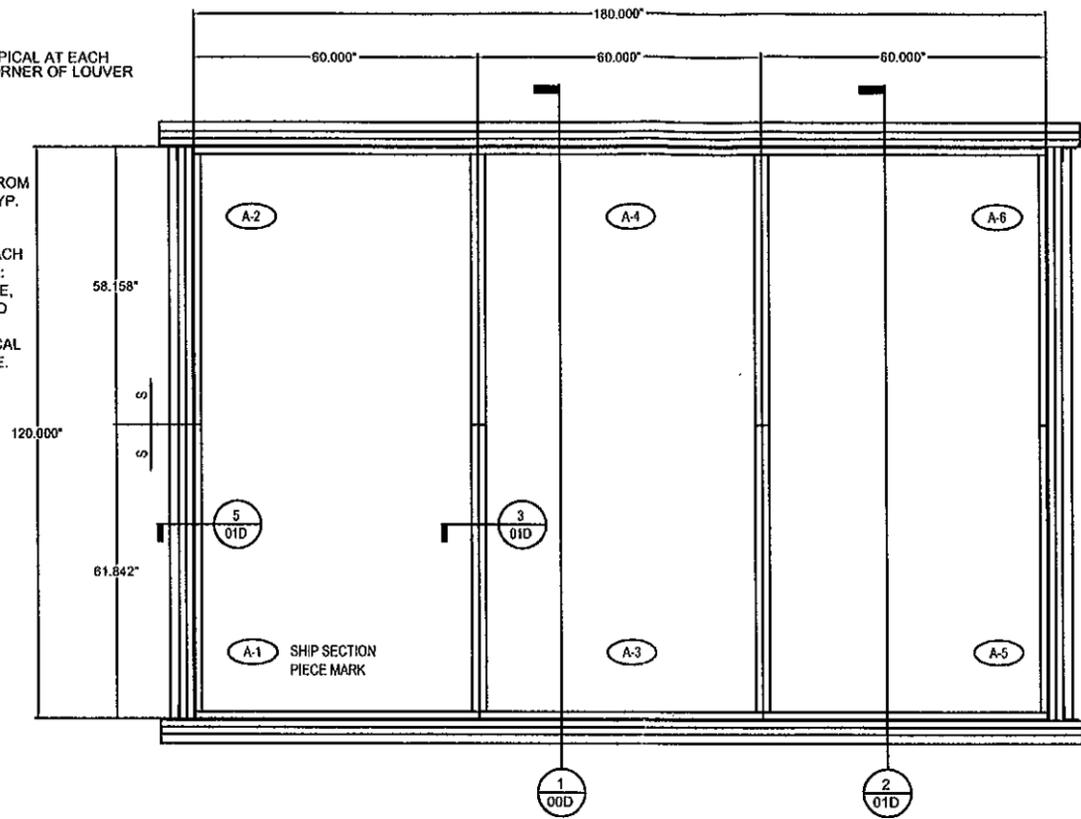
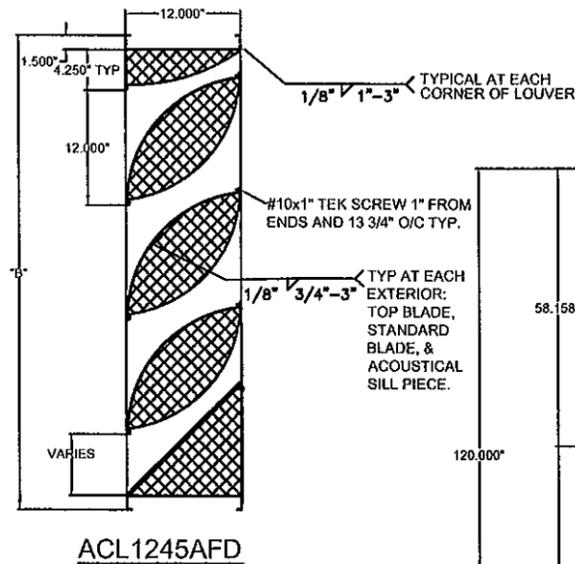
1. Statement letter of code compliance with 2007 FBC, issued by Ruskin Company, dated 01/27/11, signed and sealed by William J. Mossie, P.E.
2. Statement letter of no financial interest, issued by Ruskin Company, dated 01/27/11, signed and sealed by William J. Mossie, P.E.



Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 11-0207.22

Expiration Date: September 08, 2016  
Approval Date: September 08, 2011

FRAME
Formed .125" aluminum channel.
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.
FINISH
Mill.
Kynar (opt).
Baked enamel (modified fluoropolymer, 50% Kynar, opt).
Color anodize (opt).
Clear anodize (opt).
ACCESSORIES (opt)
Flange frame.
Extended sill.
Clip angles.
Blankoff panel.



**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) TAS -100 (A) WIND DRIVEN RAIN TEST WAS NOT PERFORMED.

**ASSEMBLY 'A'**

N.T.S.

3-ASSEMBLIES REQUIRED WITH 6-SHIP SECTIONS

**DRAWING INDEX:**

- 60-022208-00D ACL1245AFD TEST LOUVER, SPEC, ASS'Y & 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 - ALTERNATE ATTACHMENT 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.

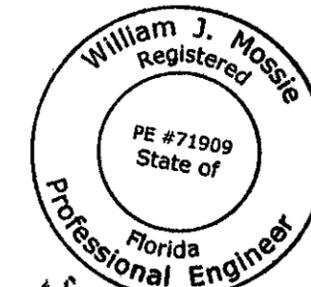
**TESTS PERFORMED:**  
TAS-201 LARGE MISSILE IMPACT  
TAS-202 UNIFORM STATIC AIR PRESSURE TEST  
TAS-203 CYCLIC WIND PRESSURE TEST  
DESIGN PRESSURE RATING 150 PSF

FRONT VIEW

SECTION 1 N.T.S.

FOR OFFICE USE ONLY

Approved as complying with the Florida Building Code  
Date 07/08/2011  
NOAH 11-02201.22  
Miami Dade Product Control  
By *[Signature]*



ENGINEER OF RECORD: WILLIAM J. MOSSIE  
ENGINEERING DISCIPLINE: CIVIL ENGINEER  
STATE OF FLORIDA #71909

REV.	A	REVISD BLADE WELDING INFORMATION	DESCRIPTION	DATE	10/14/10	VMA	REVD BY	CHKD BY	APPD 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 W/C-017 & 008									

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 SWARTWOUT**

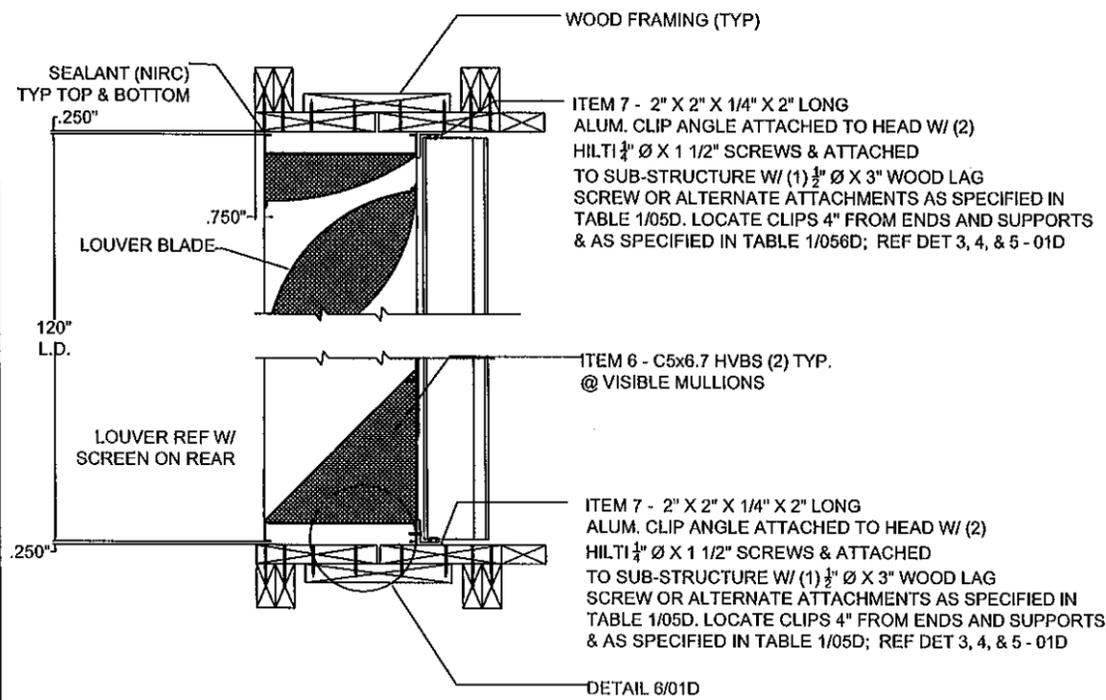
3900 DR. GREAVES RD  
GRANDVIEW, MO 64030  
PH: (816) 781-7478 FAX: (816) 763-8102

AREA	EST. PER.	EST. WT/FT.
ALLOY & TEMPER	UNSPEC. RADII	UNSPEC. WALL
DWN: WJM	CHK:	APPV:
DATE: 07/16/11	DATE:	DATE:

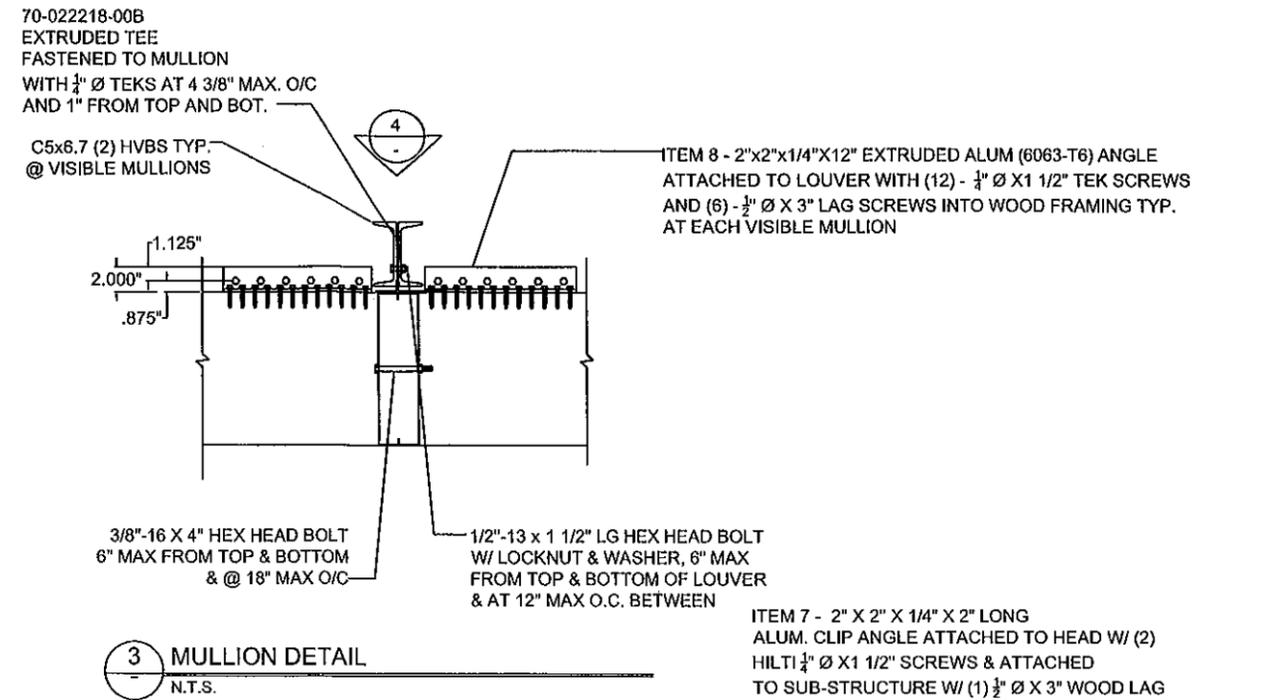
PART DESC.  
ACL1245AFD LOUVER  
SPECS, ASS'YS  
AND NOTES

SCALE: NTS ECN: - DATE:  
DWG No. Drawing 1 of 6  
**60 - 022208 - 00D**

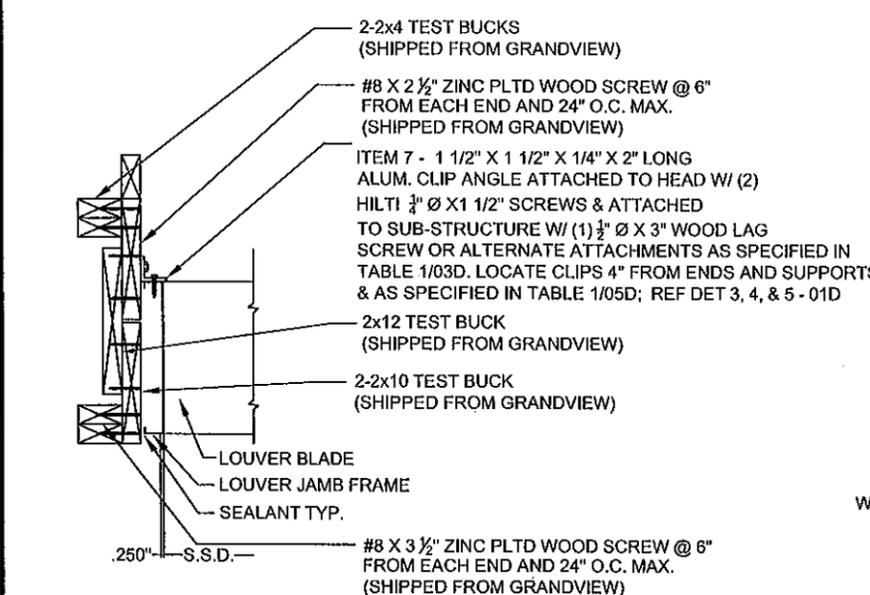
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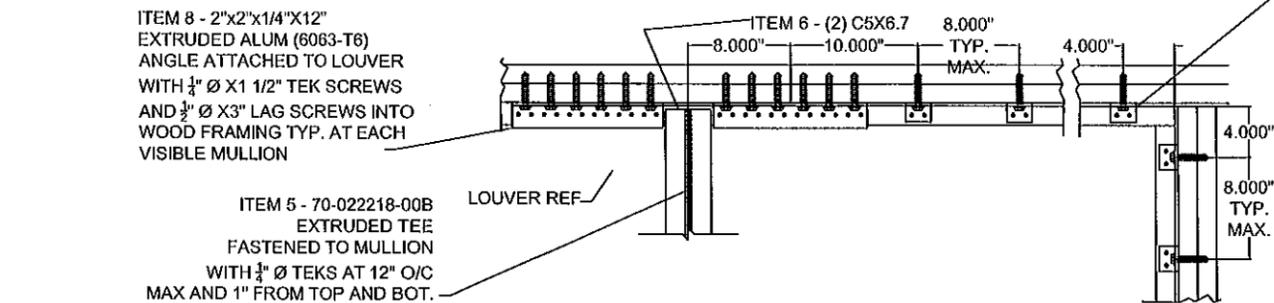
2 LOUVER DETAIL @ HEAD & SILL  
00D N.T.S.



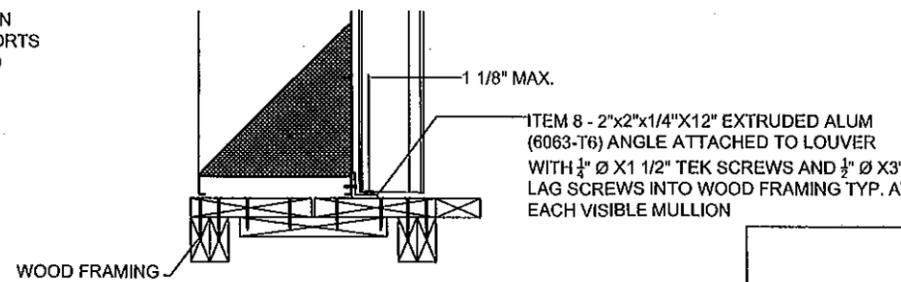
3 MULLION DETAIL  
N.T.S.



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



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



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

REV.	DESCRIPTION	DATE	CHKD BY	APPD 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

3 PLACE .XX ±.010  
 2 PLACE .XX ±.020  
 ANGLE DIMENSIONS ± 2'  
 USE WIC-007 & 008

CTR	CENTER LINE	OC	ON CENTER
CL	CENTER TO CENTER	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 SWARTWOUT**  
 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: 07/16/10	DATE:	DATE:

PART DESC. ACL1245AFD LOUVER SECTION AND DETAILS

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

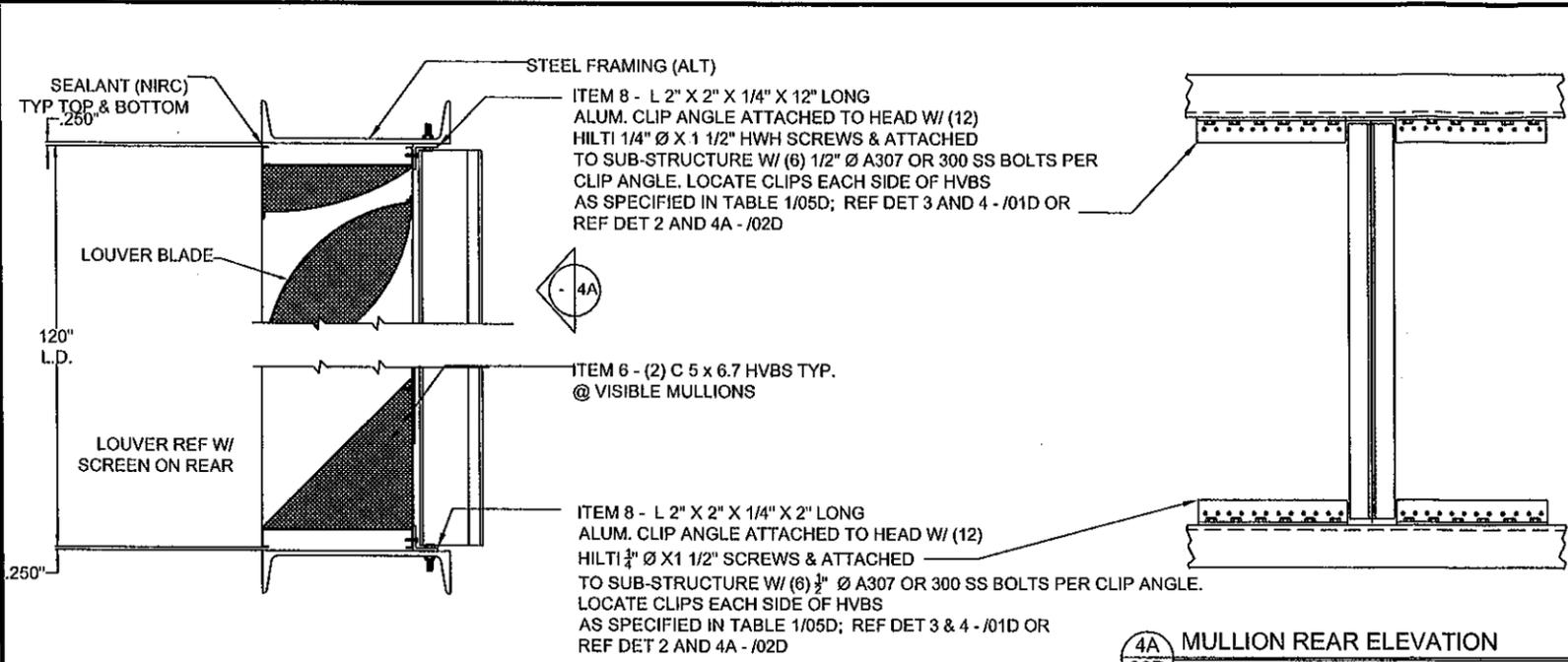
FOR OFFICE USE ONLY

Approved as complying with the Florida Building Code  
 Date: 09/08/2011  
 NOAH 11-02207-22  
 Miami Dade Product Control  
 By: *[Signature]*

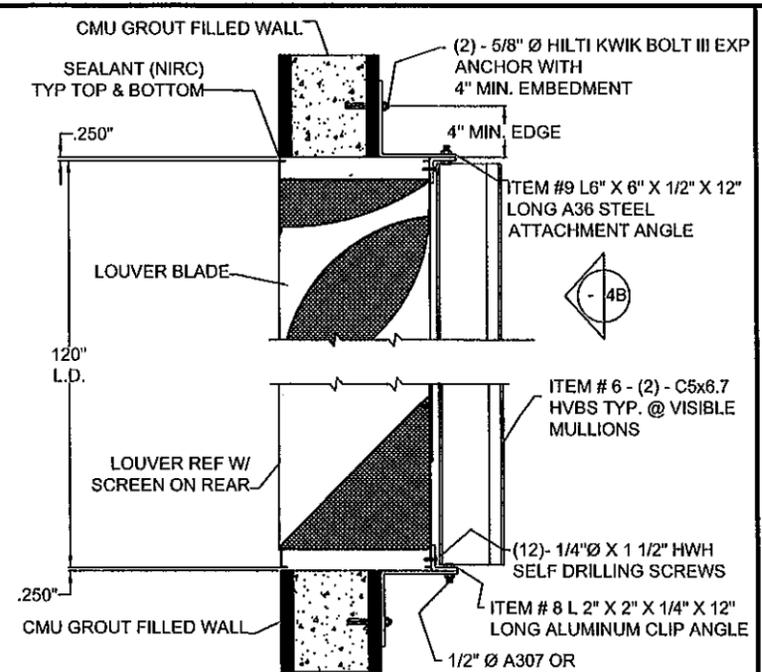
Professional Engineer  
 William J. Mossie  
 Registered  
 PE #71909  
 State of Florida  
 09/19/11

ENGINEER OF RECORD: WILLIAM J. MOSSIE  
 ENGINEERING DISCIPLINE: CIVIL ENGINEER  
 STATE OF FLORIDA #71909

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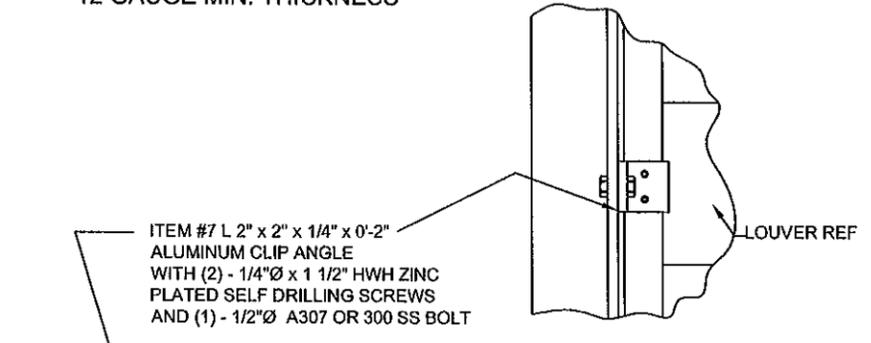


**4A**  
MULLION REAR ELEVATION  
N.T.S.  
ALT. STRUCTURE - STEEL FRAME  
12 GAUGE MIN. THICKNESS

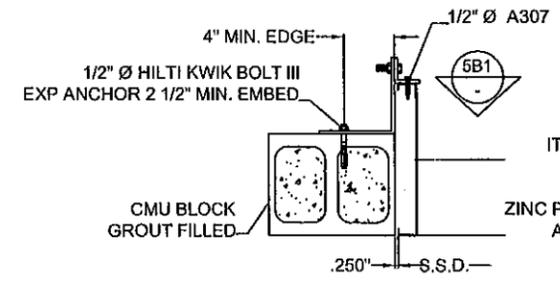


**4B**  
MULLION REAR ELEVATION  
N.T.S.  
ALT. STRUCTURE - CMU BLOCK

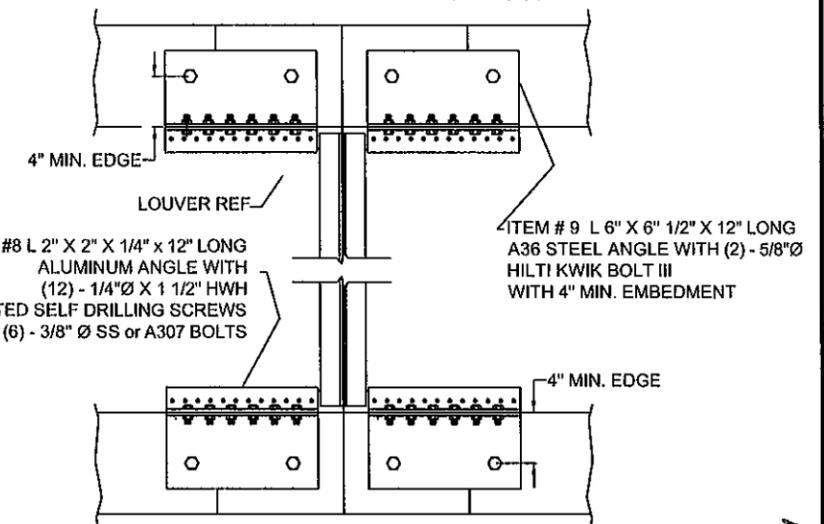
**2**  
LOUVER DETAIL @ HEAD & SILL  
N.T.S.  
ALT. STRUCTURE - STEEL FRAME  
12 GAUGE MIN. THICKNESS



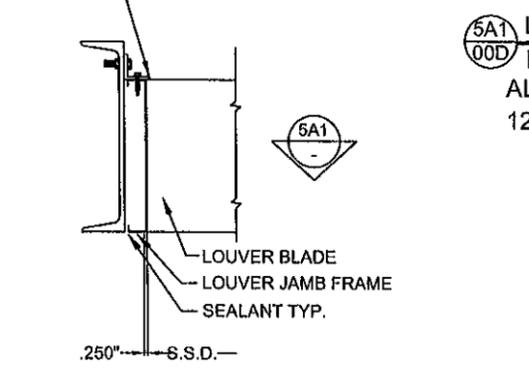
**5A1**  
LOUVER @ JAMB DETAIL  
N.T.S.  
ALT. STRUCTURE - STEEL FRAME  
12 GAUGE MIN. THICKNESS



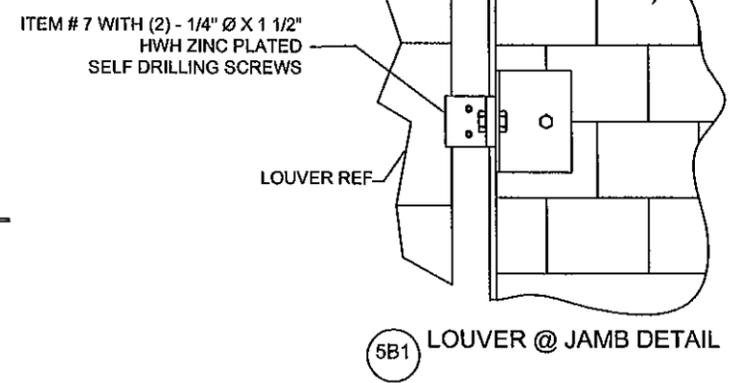
**5B1**  
LOUVER @ JAMB DETAIL  
N.T.S.  
ALT. STRUCTURE - CMU BLOCK



**5B**  
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

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  
 USE WIC-007 & 008

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

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	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 SWARTWOUT

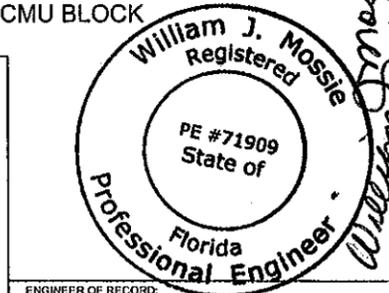
3800 DR. GREAVES RD  
 GRANDVIEW, MO 64030  
 PH: (816) 761-7476 FAX: (816) 783-8102

AREA	EST. PER.	EST. WT/FT.
ALLOY & TEMPER	UNSPEC. RADII	UNSPEC. WALL
OWN: WJM	CHK:	APPV:
DATE: 08/16/10	DATE:	DATE:

PART DESC.  
 ACL1245AFD LOUVER SECTION AND DETAILS

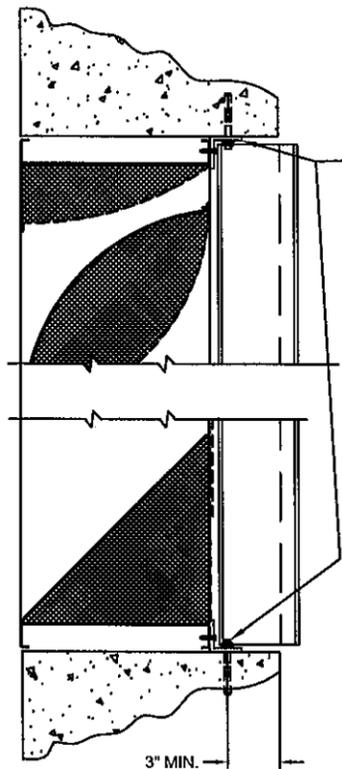
SCALE: NTS	ECN: -	DATE:
DWG No.	Drawing 3 of 6	
<b>60 - 022208 - 02D</b>		

Approved as complying with the Florida Building Code  
 Date 09/08/2011  
 NOA# 11-0207.22  
 Miami Dade Product Control  
 By *[Signature]*



ENGINEER OF RECORD:  
 WILLIAM J. MOSSIE  
 ENGINEERING DISCIPLINE:  
 CIVIL ENGINEER  
 STATE OF FLORIDA #71909

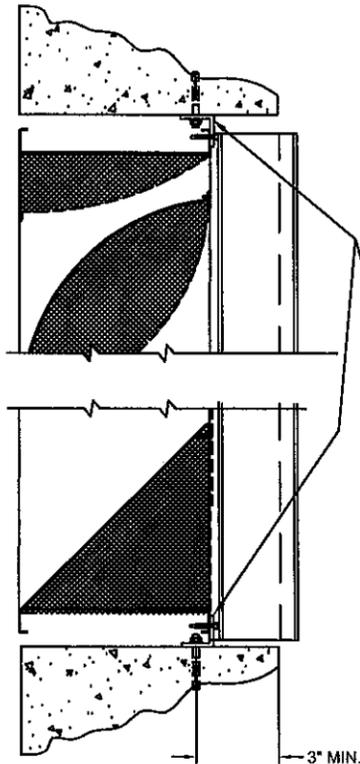
FOR OFFICE USE ONLY



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)

3" MIN.

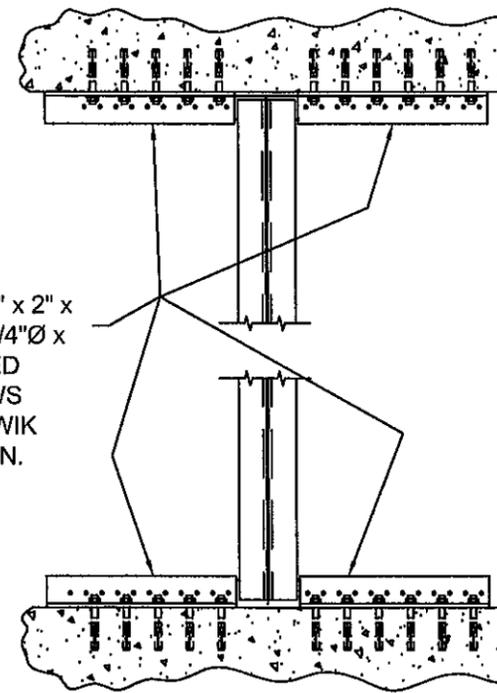
**2C**  
**00D** LOUVER DETAIL @ HEAD & SILL  
N.T.S.  
ALT. STRUCTURE - CONCRETE SUPPORT



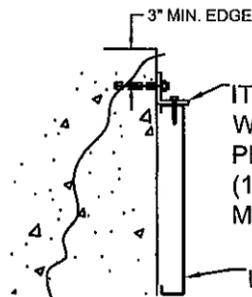
ITEM #8 ALUMINUM L 2" x 2" x 1/4" x 1'-0" WITH (12) - 1/4"Ø x 1 1/2" HWH ZINC PLATED SELF DRILLING SCREWS AND (6) - 1/2"Ø HILTI KWIK BOLT III WITH (2 1/2" MIN. EMBEDMENT)

3" MIN.

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



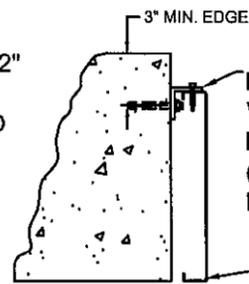
**4C**  
**00D** MULLION REAR ELEVATION  
N.T.S.  
ALT. STRUCTURE - CONCRETE SUPPORT



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)

LOUVER JAMB FRAME

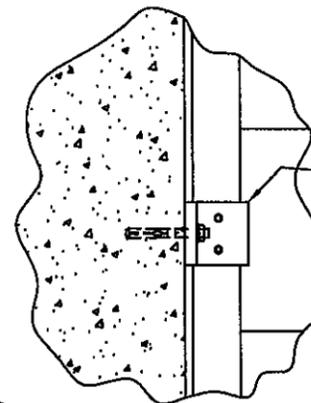
**5C**  
**00D** LOUVER @ JAMB DETAIL  
N.T.S.  
ALT. STRUCTURE - CONCRETE SUPPORT



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)

LOUVER JAMB FRAME

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

REV.	DESCRIPTION	DATE	REVD BY	CHKD BY	APPD 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		

**RUSKIN SWARTWOUT**

3800 DR. GREAVES RD  
GRANDVIEW, MO 64030  
PH: (816) 781-7476 FAX: (816) 783-8102

AREA	EST. PER.	EST. WT/FT.
ALLOY & TEMPER	UNSPEC. RADII	UNSPEC. WALL
DWN: WJM	CHK:	APPV:
DATE: 08/17/10	DATE:	DATE:

PART DESC.  
ACL1245D LOUVER SECTION AND DETAILS

SCALE: NTS ECN: - DATE:

DWG No. Drawing 4 of 6  
**60 - 022208 - 03D**

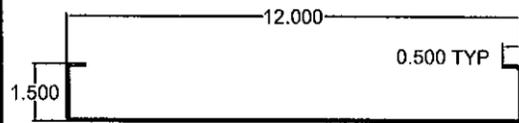
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Approved as complying with the Florida Building Code  
Date 09/08/2011  
NOA# 11-0207.22  
Miami Dade Product Control  
By *[Signature]*

**William J. Mossie**  
Registered Professional Engineer  
Florida  
PE #71909  
State of Florida

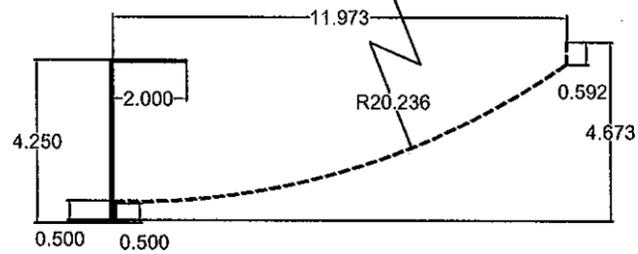
ENGINEER OF RECORD:  
**WILLIAM J. MOSSIE**  
ENGINEERING DISCIPLINE:  
**CIVIL ENGINEER**  
STATE OF FLORIDA #71909

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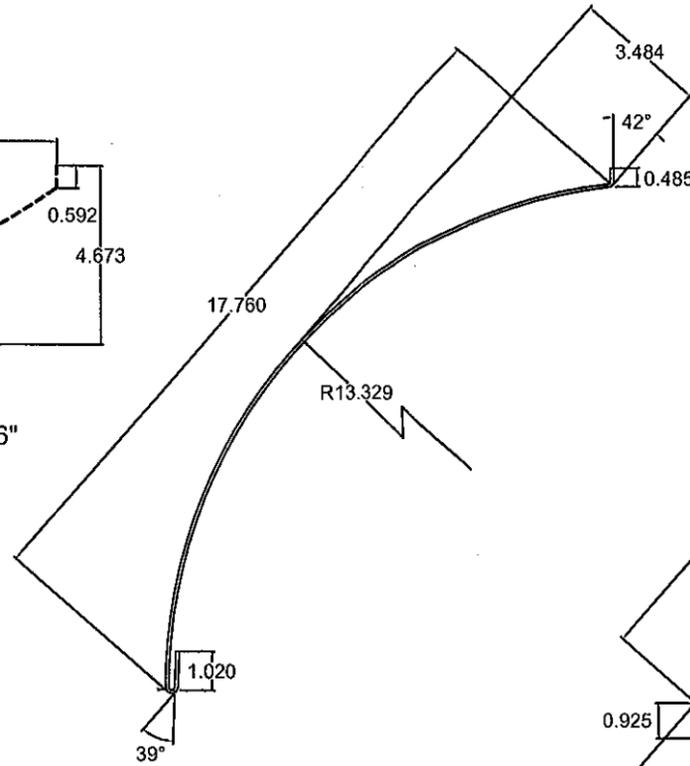


**ITEM 1 - HEAD, JAMB AND SILL FRAME**

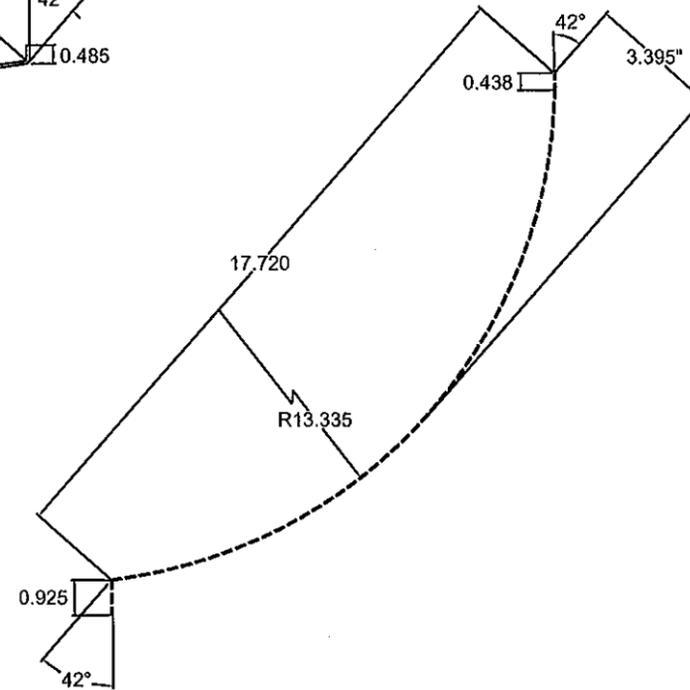
ALUMINUM FLAT CUT= 15 1/2"  
RUSKIN# 70-020440-00B-4



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

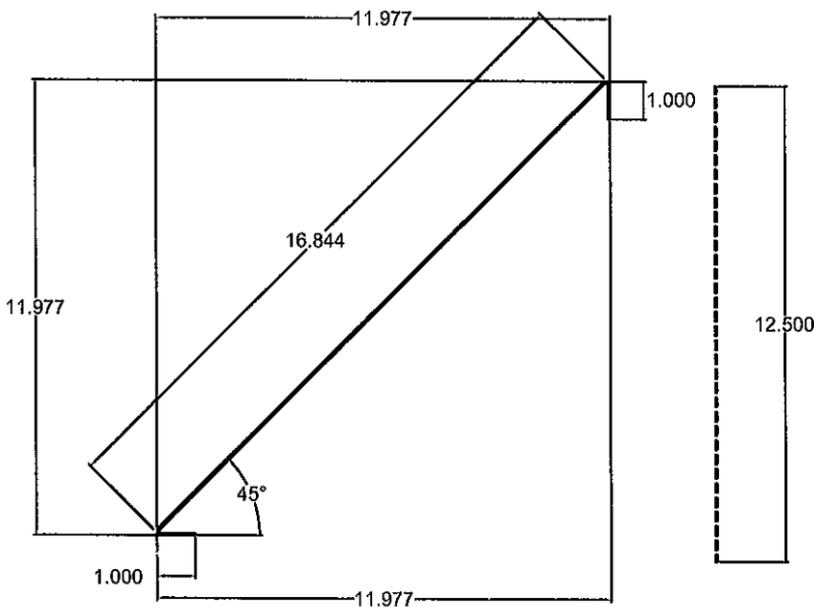


**EXTERIOR BLADE**  
ALUMINUM FLAT CUT= 21 1/16"



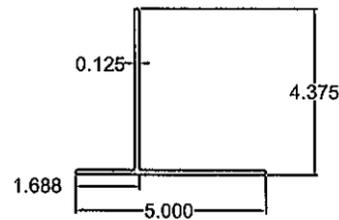
**INTERIOR BLADE**  
ALUMINUM FLAT CUT= 20 7/16"  
RUSKIN# 70-020098-00B

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

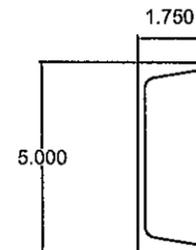


**EXTERIOR BLADE**  
ALUMINUM FLAT CUT(EXT. BLD.)= 16 7/8"  
**ITEM 4 - SILL PIECE**  
RUSKIN# 70-020446-00B

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



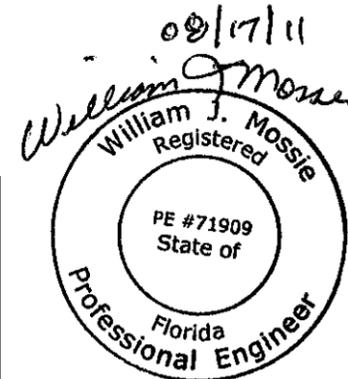
**ITEM 5 - HVBS TEE**  
RUSKIN# 70-022218-00B



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

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Florida Building Code  
Date 09/08/2011  
NOA# 11-0201-22  
Miami Date Product Control  
By *[Signature]*



ENGINEER OF RECORD:  
**WILLIAM J. MOSSIE**  
ENGINEERING DISCIPLINE:  
**CIVIL ENGINEER**  
STATE OF FLORIDA #71909

REV.	DESCRIPTION	DATE	REVD BY	CHKD BY	APPD 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  
USE IWC-007 & 008

CTR	CENTER LINE	OC	ON CENTER
CL	CENTER TO CENTER	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		



3900 DR. GREAVES RD  
GRANDVIEW, MO 64030  
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AREA	EST. PER.	EST. WT/FT.
ALLOY & TEMPER	UNSPEC. RADII	UNSPEC. WALL
DWN: WJM	CHK:	APPV:
DATE: 08/17/10	DATE:	DATE:

PART DESC.  
ACL1245AFD LOUVER  
PART DETAILS

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

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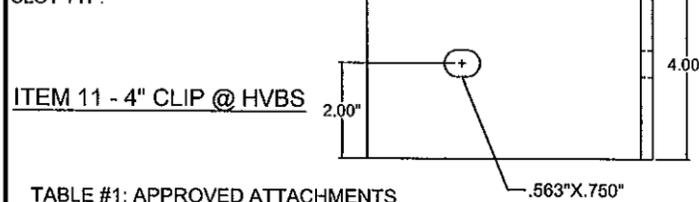
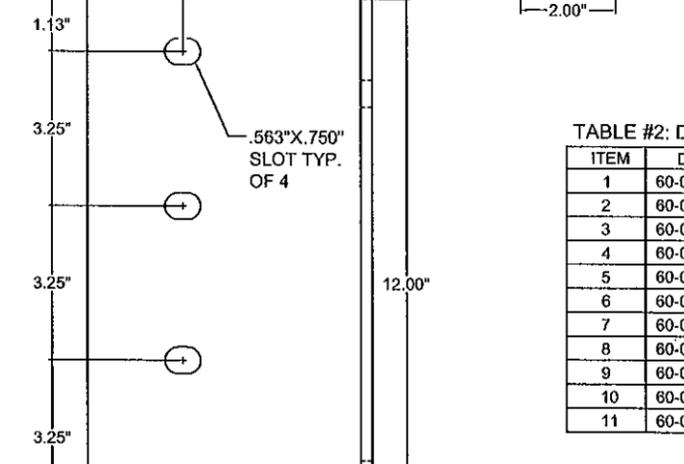
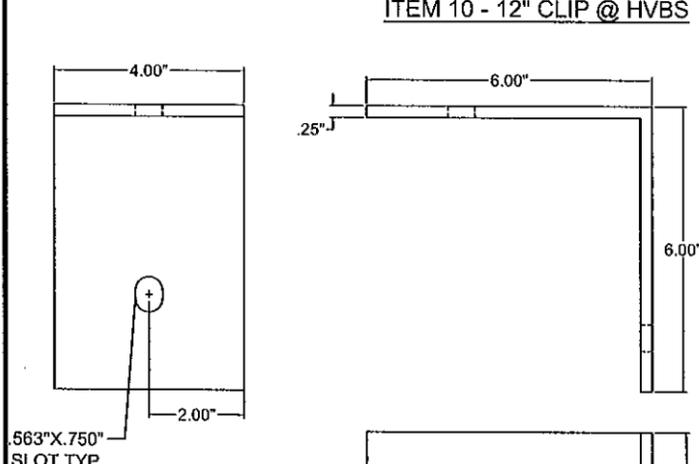
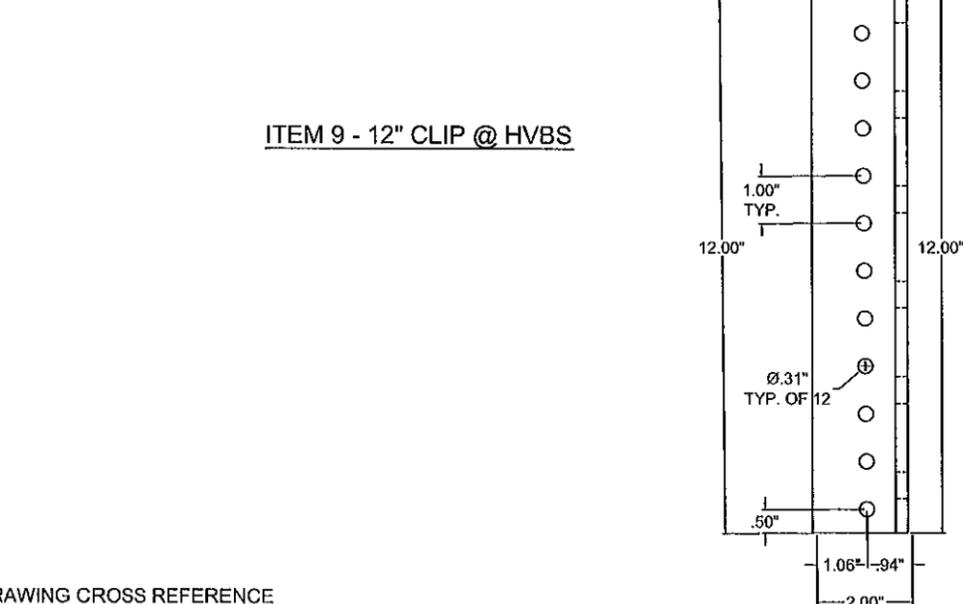
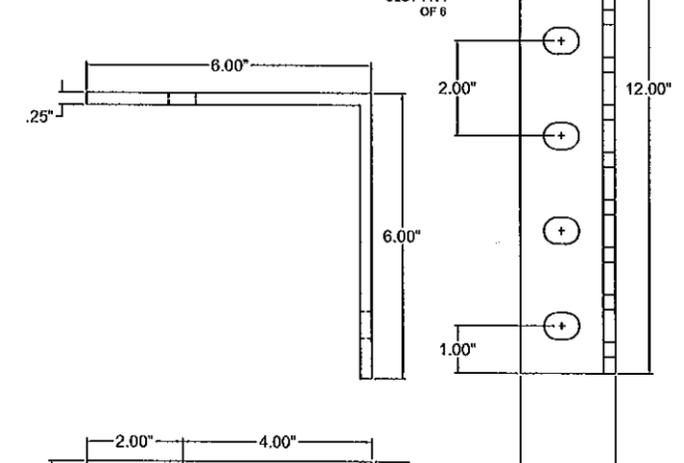
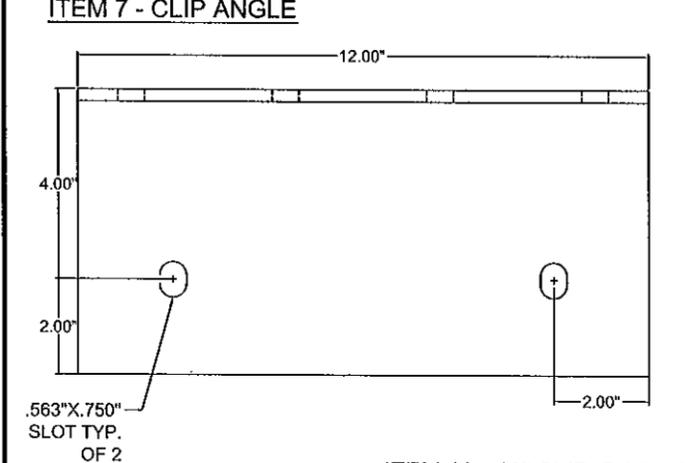
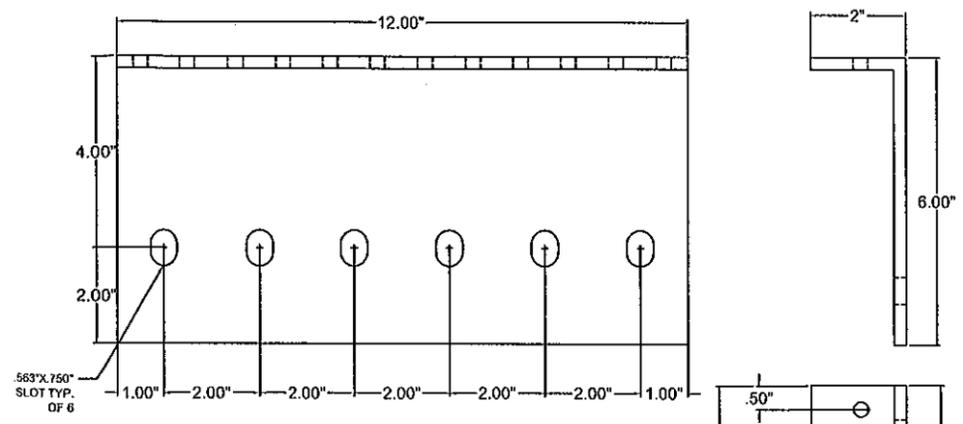
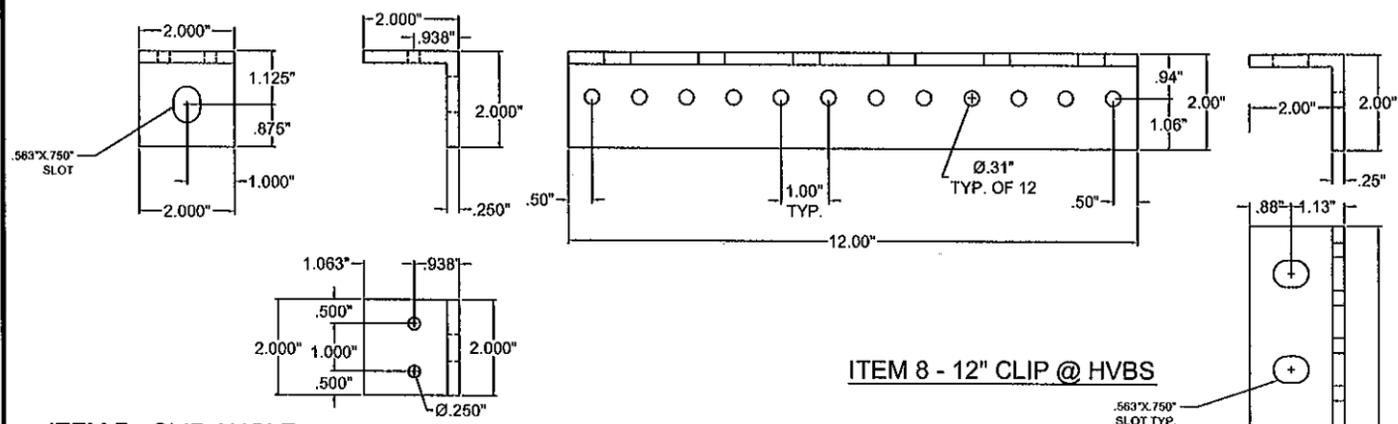


TABLE #2: DRAWING CROSS REFERENCE

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	C5X6.7	-
7	60-022208-05D	6063-T6 AL	CLIP ANGLE	85-021637-00B
8	60-022208-05D	6063-T6 AL	12\"/>	
9	60-022208-05D	6063-T6 AL	12\"/>	
10	60-022208-05D	6063-T6 AL	12\"/>	
11	60-022208-05D	6063-T6 AL	6\"/>	

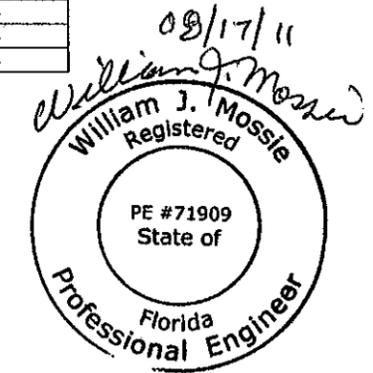
TABLE #1: APPROVED ATTACHMENTS

MIN. SUPPORT MAT'L	TYPE CONNECTION	ANGLE SLOT WIDTH	MAX SPACING	MIN EMBEDMENT	MIN EDGE
(12 GA MIN) STEEL	1/2\"/>				
(4\"/>					
(8\"/>					
(2) 2 X - WOOD	1/2\"/>				

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

FOR OFFICE USE ONLY

Approved as complying with the Florida Building Code  
 Date: 07/10/2011  
 NOA#: 11-0207-22  
 Miami Dade Product Control  
 By: *[Signature]*



ENGINEER OF RECORD:  
 WILLIAM J. MOSSIE  
 ENGINEERING DISCIPLINE:  
 CIVIL ENGINEER  
 STATE OF FLORIDA #71909

REV. DESCRIPTION DATE REV'D BY CHK'D BY APP'D BY

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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+.020  
 ANGLE DIMENSIONS ± 2'  
 USE WQ-007 & 008

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CL	CENTER LINE	OD	OUTSIDE DIAMETER
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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  
 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: 07/19/10	DATE:	DATE:

PART DESC.  
 ACL1245AFD LOUVER PART DETAILS

SCALE: NTS ECN: - DATE:

DWG No. Drawing 6 of 6  
**60 - 022208 - 05D**