



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 **renews NOA # 13-0502.06** 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. 16-0627.10
Expiration Date: September 8, 2021
Approval Date: September 8, 2016
Page 1

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.

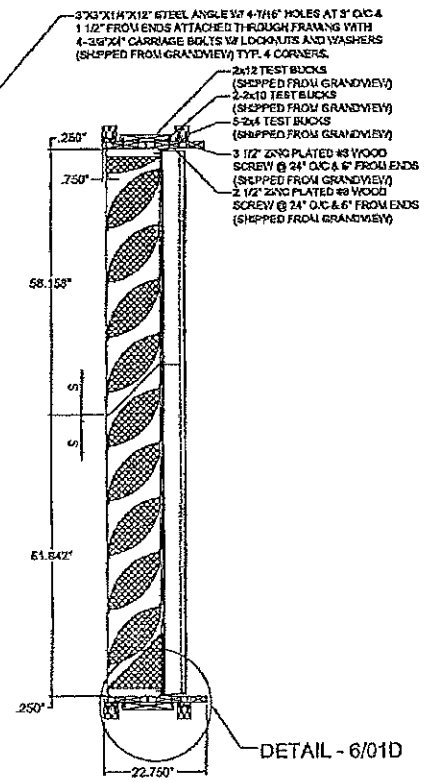
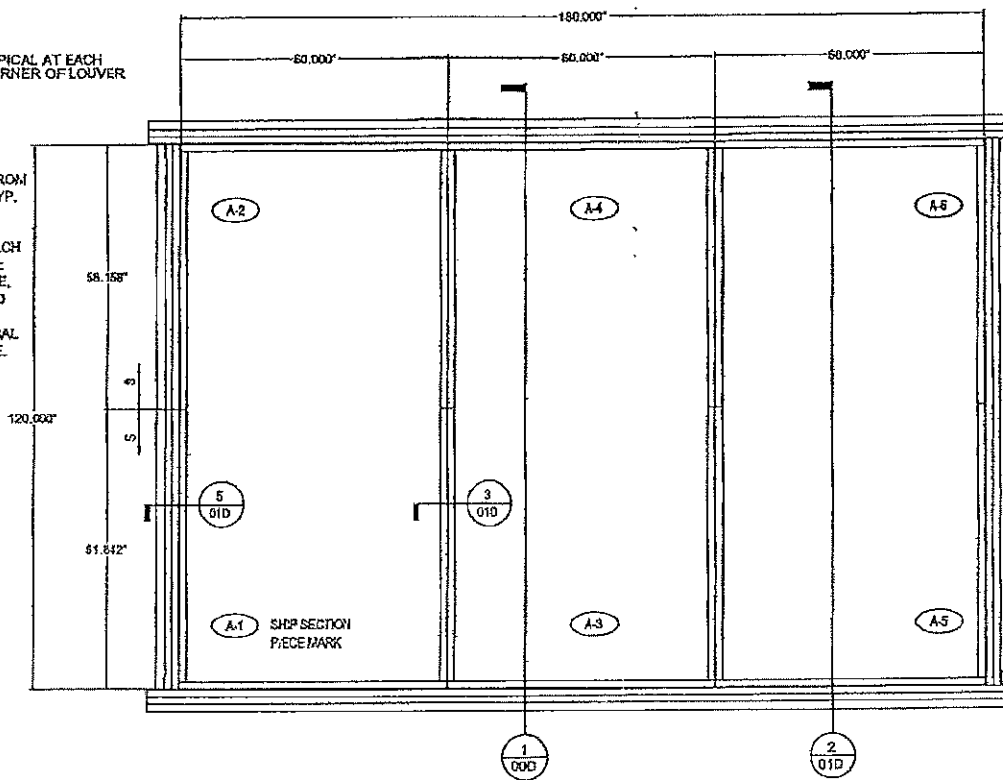
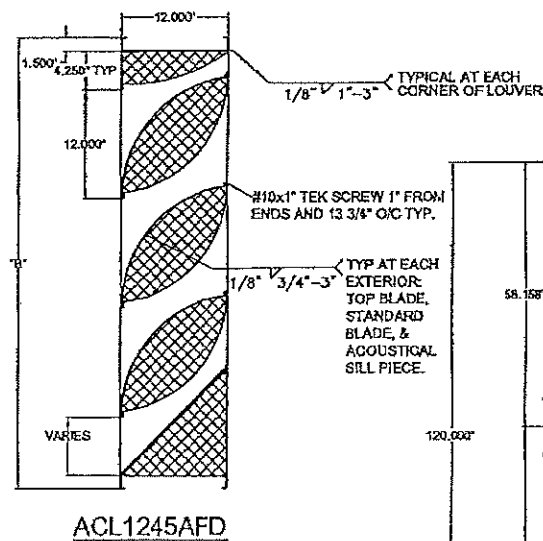
“Submitted under NOA # 13-0502.06”

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



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 16-0627.10
Expiration Date: September 8, 2021
Approval Date: September 8, 2016

| |
|---|
| 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) 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

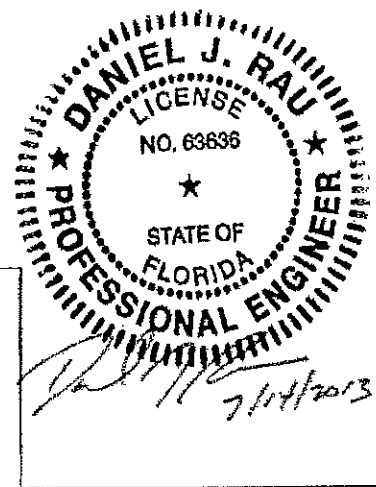
- DRAWING INDEX:**
- 60-022208-00D ACL1245AFD TEST LOUVER - SPEC, ASSY AND NOTES Drawing 1 of 6.
 - 60-022208-01D ACL1245AFD TEST LOUVER - SECTION AND DETAILS Drawing 2 of 6.
 - 60-022208-02D ACL1245AFD TEST LOUVER - SECTION AND DETAILS Drawing 3 of 6.
 - 60-022208-03D ACL1245AFD TEST LOUVER - SECTION 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

FRONT VIEW

SECTION 1 N.T.S.

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



FOR OFFICE USE ONLY

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

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

| | | | | | |
|--|---|----------|----------|----------|----------|
| REV. | DESCRIPTION | DATE | REV'D BY | CHK'D BY | APP'D BY |
| B | REVISED NOTES, DRAWING INDEX & ENGINEER OF RECORD | 07/08/13 | RJP | DJR | |
| A | REVISED BLADE WELDING INFORMATION | 10/14/10 | VMA | DJR | |
| <p>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</p> | | | | | |
| <p>TOLERANCES UNLESS SPECIFIED OTHERWISE: 1 PLACE XXX ±.010 2 PLACE XX ±.020 ANGLE DIMENSIONS ±.2 USE W40-407 & 008</p> | | | | | |
| <p>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 THEREON. THIS DOES NOT APPLY TO ANY VENDOR PARTS.</p> | | | | | |

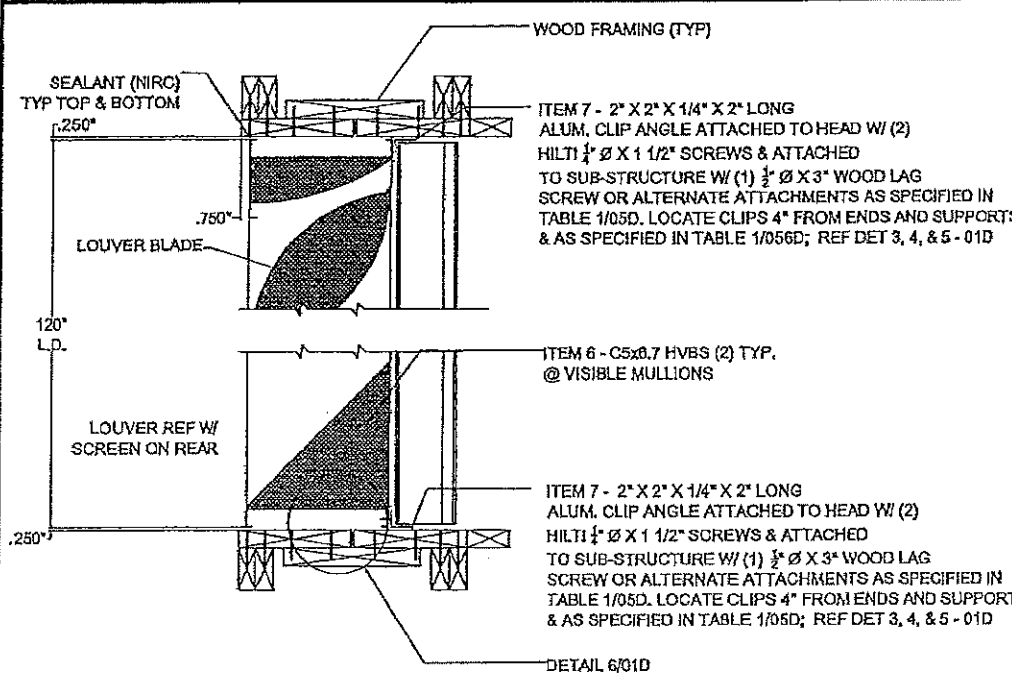
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| CTR | CENTER | OC | ON CENTER |
| CL | CENTER LINE | OD | OUTSIDE DIAMETER |
| C-C | CENTER TO CENTER | OR | OUTSIDE RADIUS |
| CHAM | CHAMFER | PI | POINT OF INTERSECTION |
| DAT | DATUM | R | FULL RADIUS |
| DET | DETAIL | REF | REFERENCE |
| E-F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

RUSKIN SWARTWOUT
3900 DR. GREAVES RD
GRANDVIEW, MO 64033
PH: (816) 761-7476 FAX: (816) 763-8102

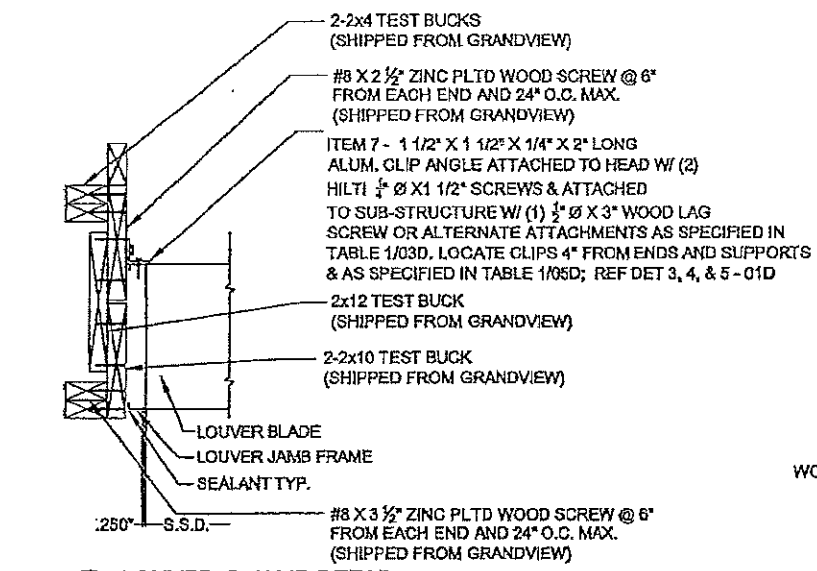
| | | |
|----------------|---------------|--------------|
| AREA | EST. PER. | EST. WT/FT. |
| ALLOY & TEMPER | UNSPEC. RADII | UNSPEC. WALL |
| DWN: WJM | CHK: | APPV: |
| DATE: 07/16/11 | DATE: | DATE: |

PART DESC.
ACL1245AFD LOUVER
SPECS, ASSY'S
AND NOTES

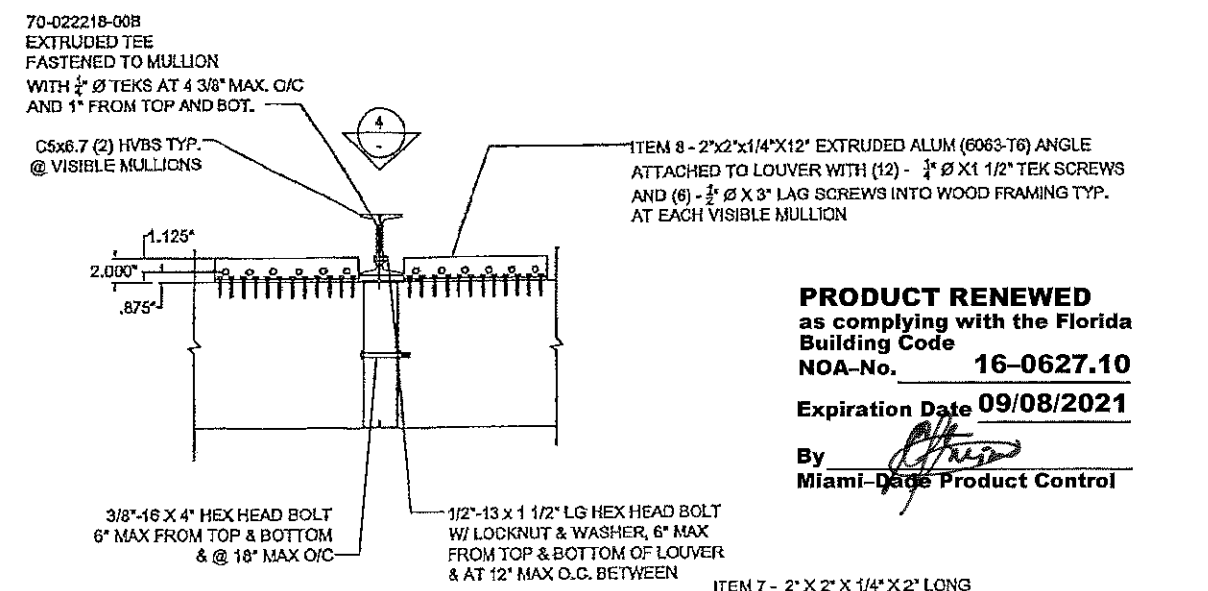
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DWG No. 60-022208-00D
Drawing 1 of 6



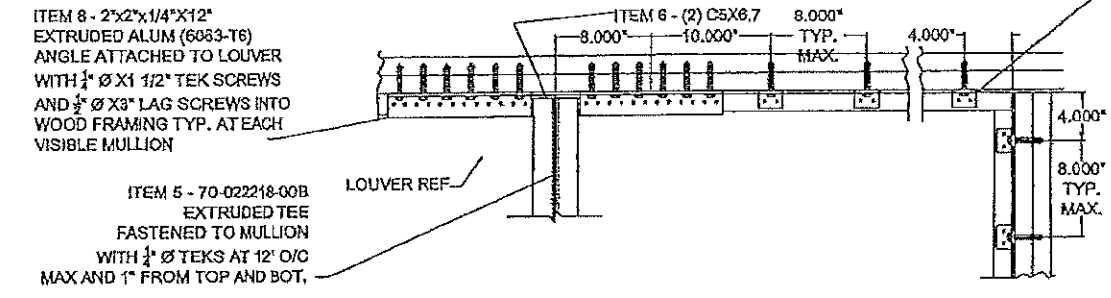
2 LOUVER DETAIL @ HEAD & SILL
00D N.T.S.



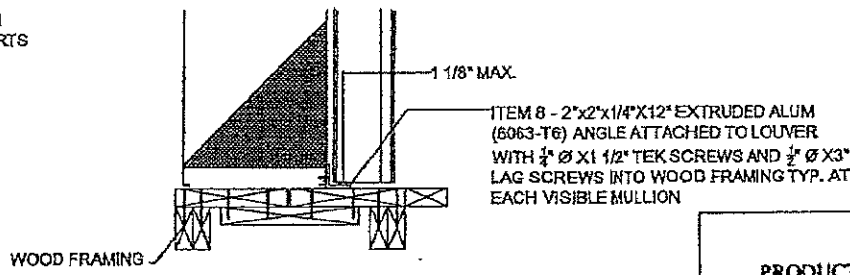
5 LOUVER @ JAMB DETAIL
00D N.T.S.



3 MULLION DETAIL
N.T.S.

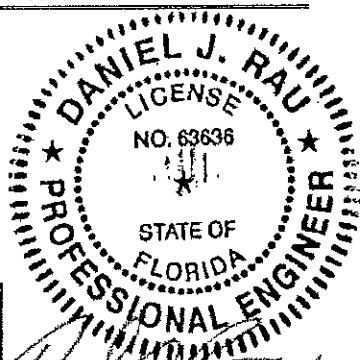


4 MULLION REAR ELEVATION & CORNER CONDITION
00D N.T.S.



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

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



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

FOR OFFICE USE ONLY

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

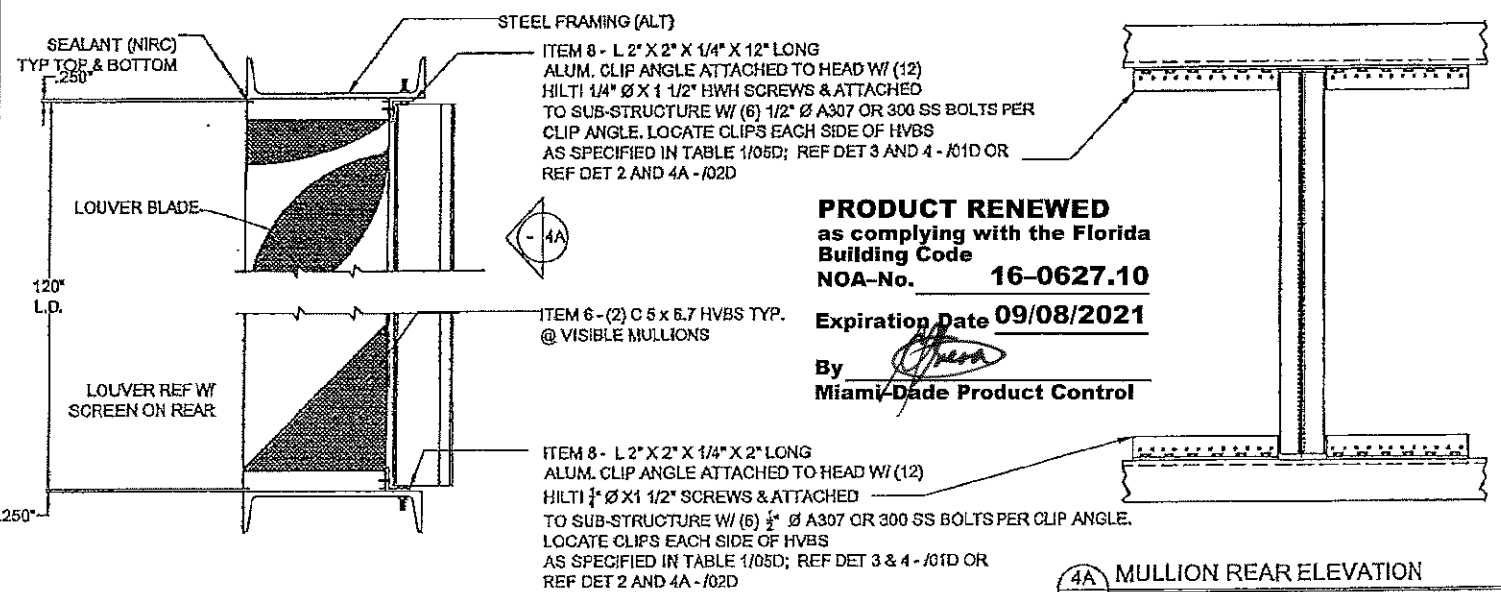
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| NOTE: 1) ALL DIMENSIONS ARE GIVEN IN INCHES. 2) ALL EXPOSED SURFACES MUST BE FREE OF DIE LINES. 3) ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED. 4) ** EXTRUDED SPECIFIC ID MARK: .008R x .008DP | | | | |

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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 | P1 | POINT OF INTERSECTION |
| DAT | DATUM | R | FULL RADIUS |
| DET | DETAIL | REF | REFERENCE |
| E-E | END TO END | SYN | SYMMETRICAL |
| EXP | EXPOSED | TAN | TANGENT |
| ID | INSIDE DIAMETER | TYP | TYPICAL |
| IR | INSIDE RADIUS | | |

RUSKIN SWARTWOUT
2800 DR. GREAVES RD
GRANDVIEW, MO 64030
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| | | |
|--|----------------|--------------|
| AREA | EST. PERL. | EST. WT./FT. |
| ALLOY & TEMPER | UNSPEC. RADII | UNSPEC. WALL |
| DWN: WJM | CHK: CHK | APPV: 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 | | |

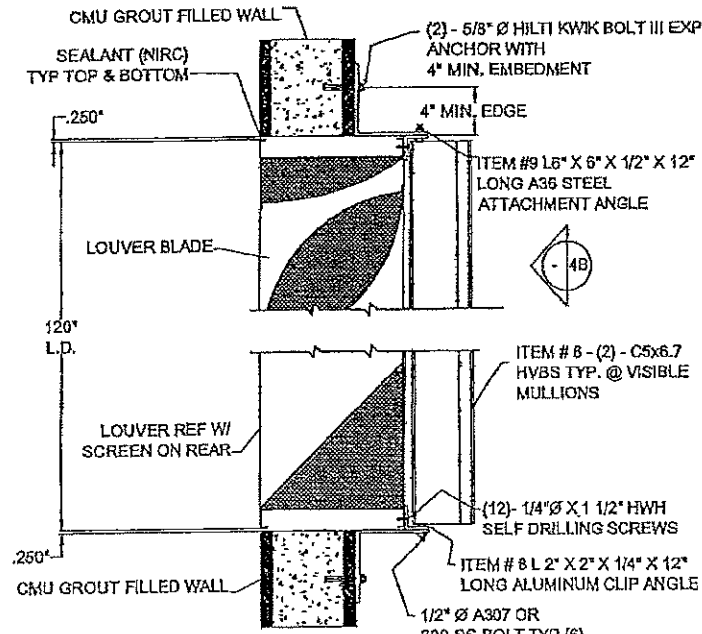
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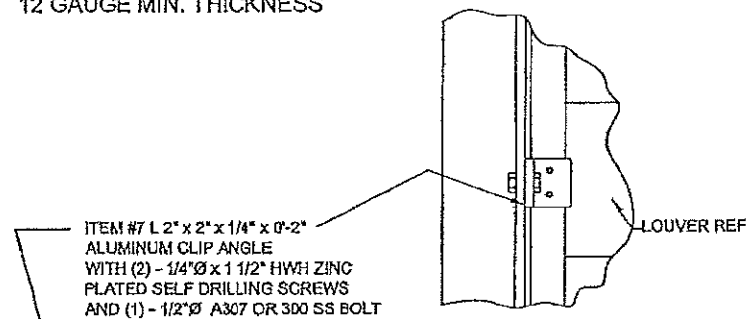
PRODUCT RENEWED
 as complying with the Florida
 Building Code
 NOA-No. **16-0627.10**
 Expiration Date **09/08/2021**
 By *[Signature]*
 Miami-Dade Product Control

2
 00D
 LOUVER DETAIL @ HEAD & SILL
 N.T.S.
 ALT. STRUCTURE - STEEL FRAME
 12 GAUGE MIN. THICKNESS

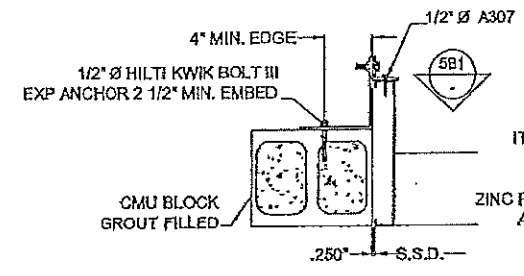
4A
 00D
 MULLION REAR ELEVATION
 N.T.S.
 ALT. STRUCTURE - STEEL FRAME
 12 GAUGE MIN. THICKNESS



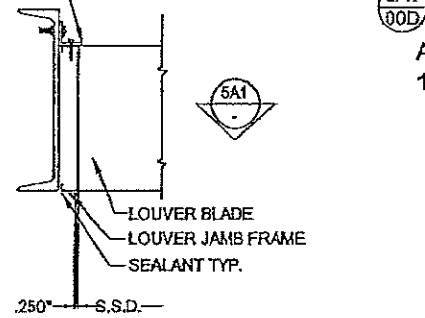
2B
 00D
 LOUVER DETAIL @ HEAD & SILL
 N.T.S.
 ALT. STRUCTURE - CMU BLOCK



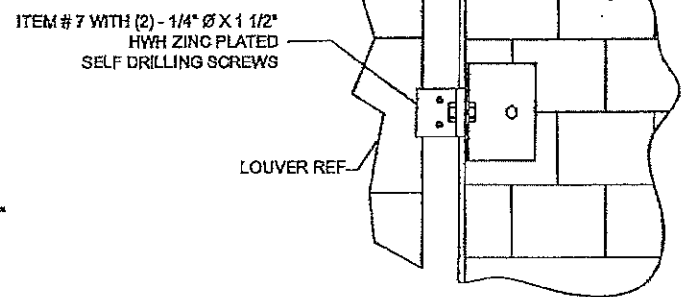
5A1
 00D
 LOUVER @ JAMB DETAIL
 N.T.S.
 ALT. STRUCTURE - STEEL FRAME
 12 GAUGE MIN. THICKNESS



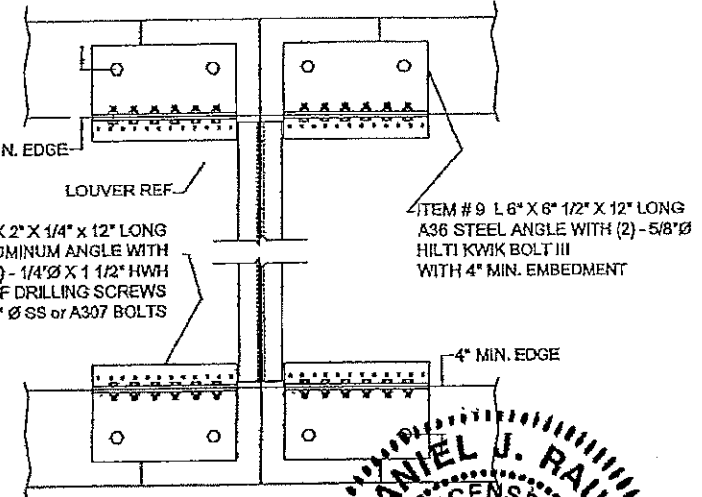
5B
 00D
 LOUVER @ JAMB DETAIL
 N.T.S.
 ALT. STRUCTURE - CMU BLOCK



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

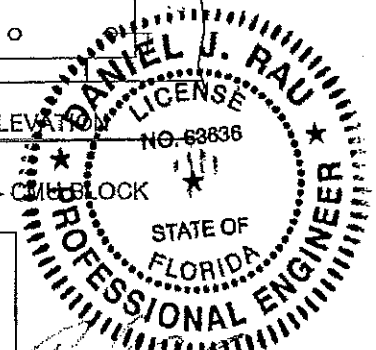


5B1
 LOUVER @ JAMB DETAIL



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

PRODUCT RENEWED
 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 #63836

| REV. | DESCRIPTION | DATE | CHKD BY | APPD BY |
|------|----------------------------|----------|---------|---------|
| B | REVISED ENGINEER OF RECORD | 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: .006R X .008DP

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| | | | |
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| CTR | CENTER | OC | ON CENTER |
| CL | CENTER LINE | OR | OUTSIDE RADIUS |
| CC | CENTER TO CENTER | PR | POINT OF INTERSECTION |
| CHAM | CHAMFER | R | RADIUS |
| DAT | DATUM | RF | REFERENCE |
| DET | DETAIL | STR | STRUCTURAL |
| E-E | END TO END | TAN | TANGENT |
| EXP | EXPOSED | TYP | TYPICAL |
| ID | INSIDE DIAMETER | | |
| IR | INSIDE RADIUS | | |

RUSKIN SWARTWOUT

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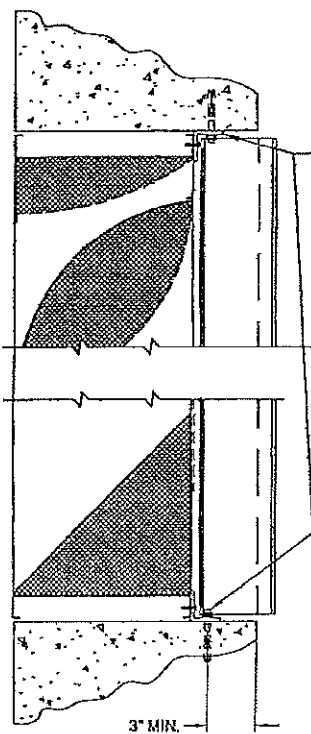
| AREA | EST. PERL | EST. WT/FT. |
|------|-----------|-------------|
| | | |

| DWG | CHK | APPV |
|-----|-----|------|
| WJM | | |

PART DESC.
ACL1245AFD LOUVER SECTION AND DETAILS

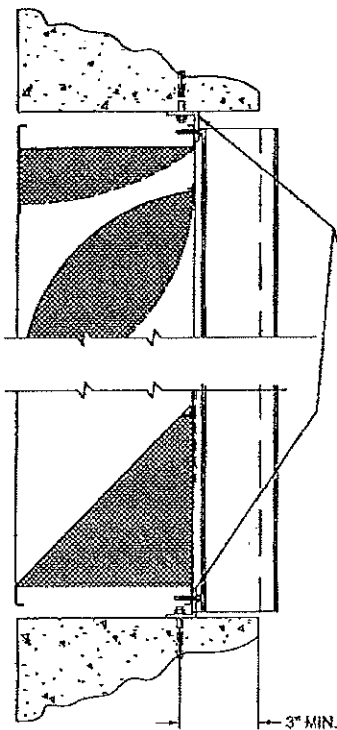
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DWG No. **60-022208-02D**
 Drawing 3 of 6

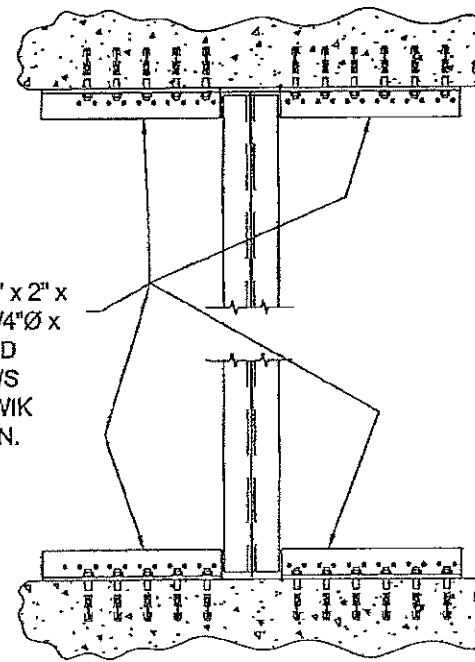


ITEM #8 ALUMINUM L 2" x 2" x 1/4" x 1'-0" WITH (12) - 1/4"Ø x 1 1/2" HWH ZINC PLATED SELF DRILLING SCREWS AND (6) - 1/2"Ø HILTI KWIK BOLT III WITH (2 1/2" MIN. EMBEDMENT)

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

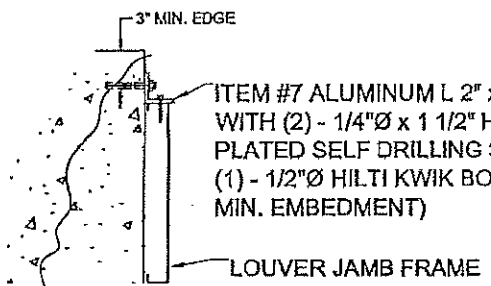


2C-ALT
00D
LOUVER DETAIL @ HEAD & SILL
N.T.S.
ALT. STRUCTURE - CONCRETE SUPPORT



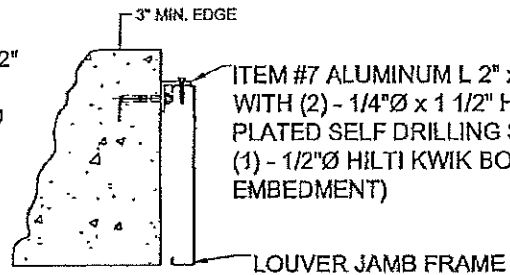
ITEM #8 ALUMINUM L 2" x 2" x 1/4" x 1'-0" WITH (12) - 1/4"Ø x 1 1/2" HWH ZINC PLATED SELF DRILLING SCREWS AND (6) - 1/2"Ø HILTI KWIK BOLT III WITH (2 1/2" MIN. EMBEDMENT)

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



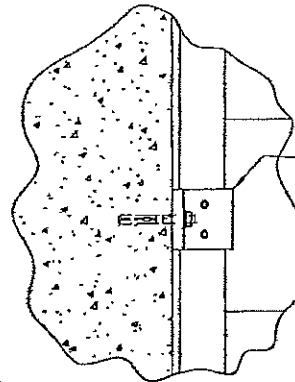
ITEM #7 ALUMINUM L 2" x 2" x 1/4" x 0'-2" WITH (2) - 1/4"Ø x 1 1/2" HWH ZINC PLATED SELF DRILLING SCREWS AND (1) - 1/2"Ø HILTI KWIK BOLT III (2 1/2" MIN. EMBEDMENT)

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)

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

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

FOR OFFICE USE ONLY

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

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

| | |
|--------------------|----------------|
| ENGINEER OF RECORD | DANIEL J. RAU |
| ENGINEER-IN-CHARGE | CIVIL ENGINEER |
| STATE OF FLORIDA # | 63636 |

| REV | DESCRIPTION | DATE | CHKD BY | APP'D BY |
|---|---|----------|---------|----------|
| B | REVISED ENGINEER OF RECORD AND PART DESCRIPTION | 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 UNLESS SPECIFIED OTHERWISE 1 PLACE XXX.XX 2 PLACE XX.XX ANGLE DIMENSIONS ± 2" USE W/4, 0/4 & 0/8 | | | | |

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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 | IR | INSIDE RADIUS |
| DAT | DATUM | R | RADIUS |
| DET | DETAIL | REF | REFERENCE |
| E-E | END TO END | SYA | SYMMETRICAL |
| EXA | EXPOSED | TAN | TANGENT |
| ID | INSIDE DIAMETER | TYP | TYPICAL |
| IR | INSIDE RADIUS | | |

RUSKIN SWARTWOUT

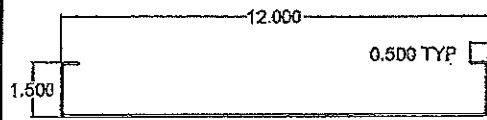
3900 DR. GREAVES RD
GRANDVIEW, MO 64030
PH: (816) 761-7476 FAX: (816) 763-8102

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

PART DESC.
ACL 1246AFD LOUVER SECTION AND DETAILS

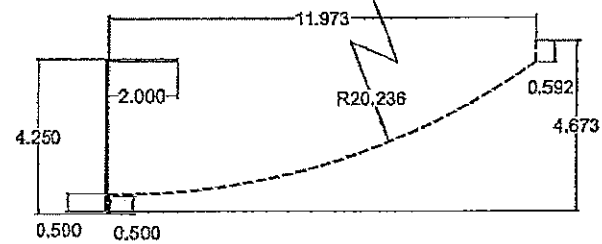
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| SCALE: NTS | EQN. - | DATE: |
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DWG No. Drawing 4 of 8
60 - 022208 - 03D



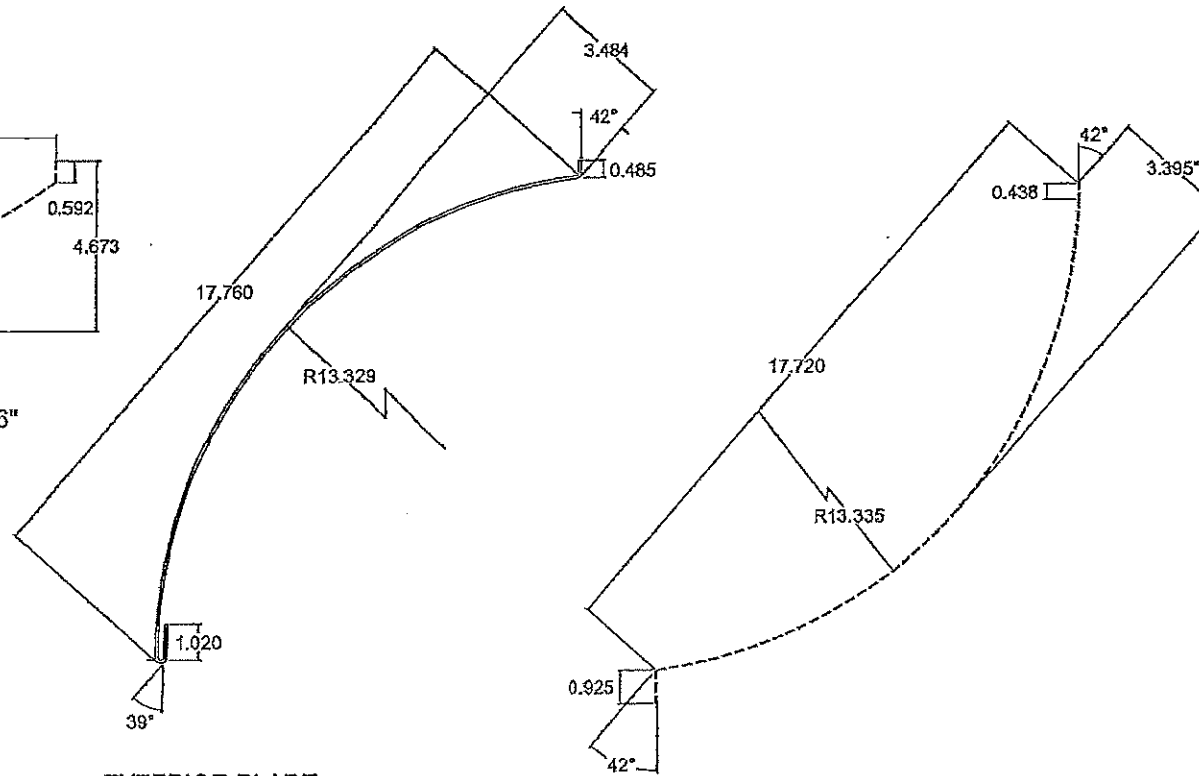
ITEM 1 - HEAD, JAMB AND SILL FRAME

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



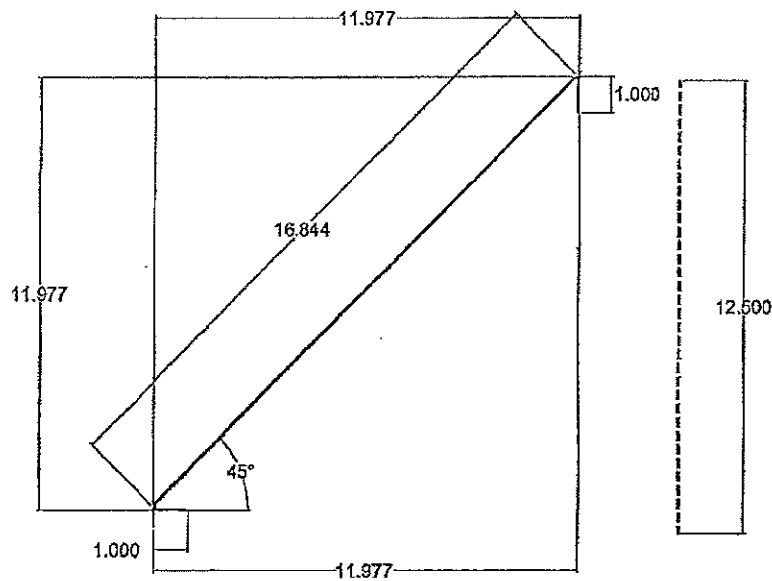
INTERIOR BLADE

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



EXTERIOR BLADE

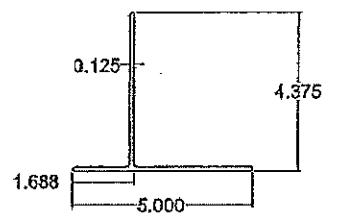
ALUMINUM FLAT CUT= 21 1/16"



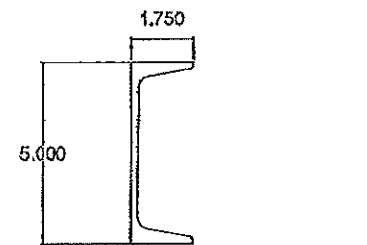
ITEM 3 - TYPICAL BLADE

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

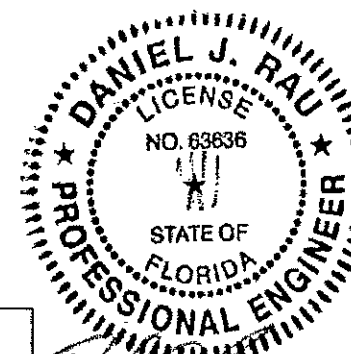
EXTERIOR BLADE
ALUMINUM FLAT CUT(EXT. BLD.)= 16 7/8"
ITEM 4 - SILL PIECE
RUSKIN# 70-020446-00B

INTERIOR CLOSURE
ALUMINUM FLAT CUT= 12 1/2"

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Miami-Dade Product Control



PROFESSOR 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 | 07/08/13 | | |

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4) ** EXTRUDER SPECIFIC ID MARK: .008R x .008DP

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| CL | CENTERLINE | OD | OUTSIDE DIAMETER |
| CC | CENTER TO CENTER | OR | OUTSIDE RADIUS |
| CHAM | CHAFFER | 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
3800 DEL GREAVES RD
GRANDVIEW, MO 64030
PH: (816) 761-7476 FAX: (816) 763-8102

| AREA | EST. PER. | EST. W/FT. |
|---|----------------|--------------|
| | | |
| ALLOY & TEMPER | UNSPEC. RADII | UNSPEC. WALL |
| DWR: WJM | CHK: [] | APPV: [] |
| DATE: 08/17/10 | DATE: [] | DATE: [] |
| PART DESC. ACL1245AFD LOUVER PART DETAILS | | |
| SCALE: NTS | ECH: - | DATE: |
| DWG No. 60-022208-04D | Drawing 5 of 6 | |

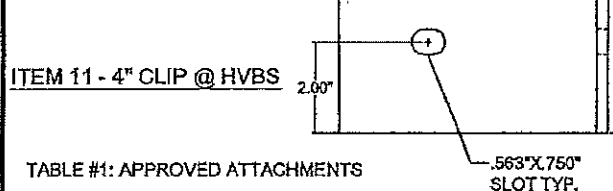
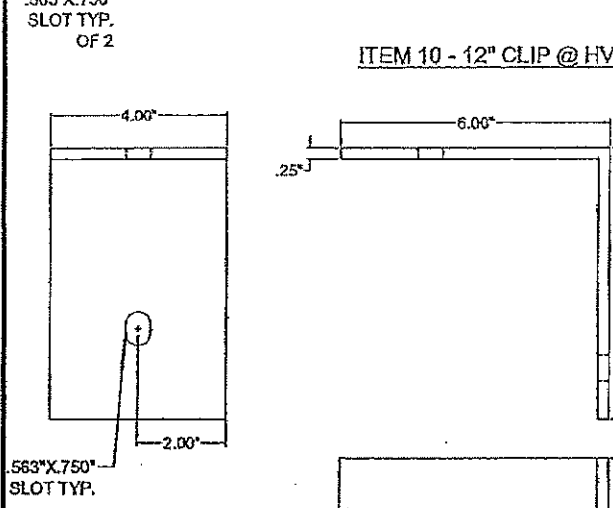
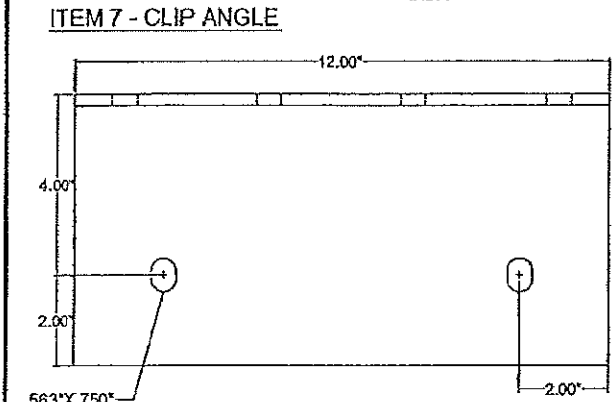
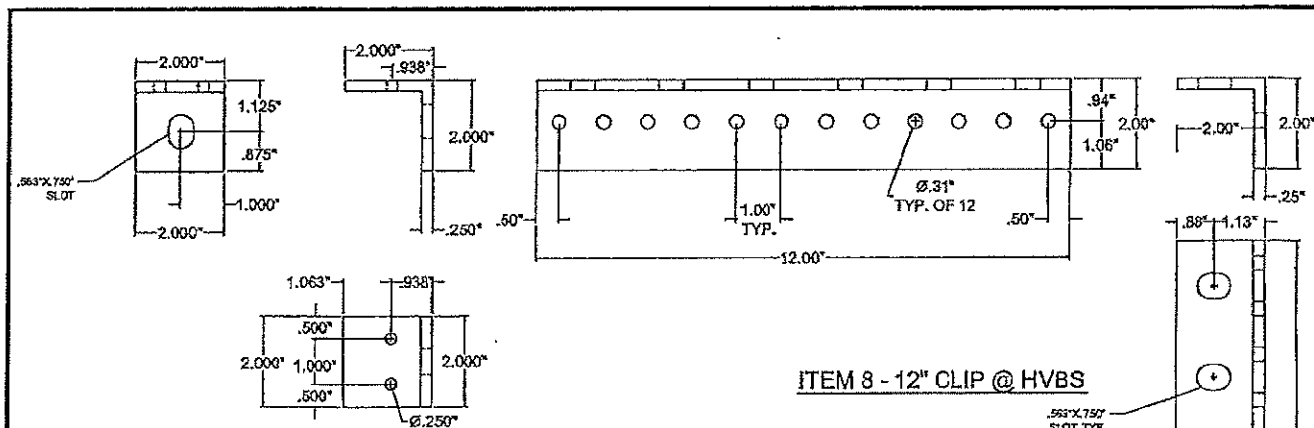
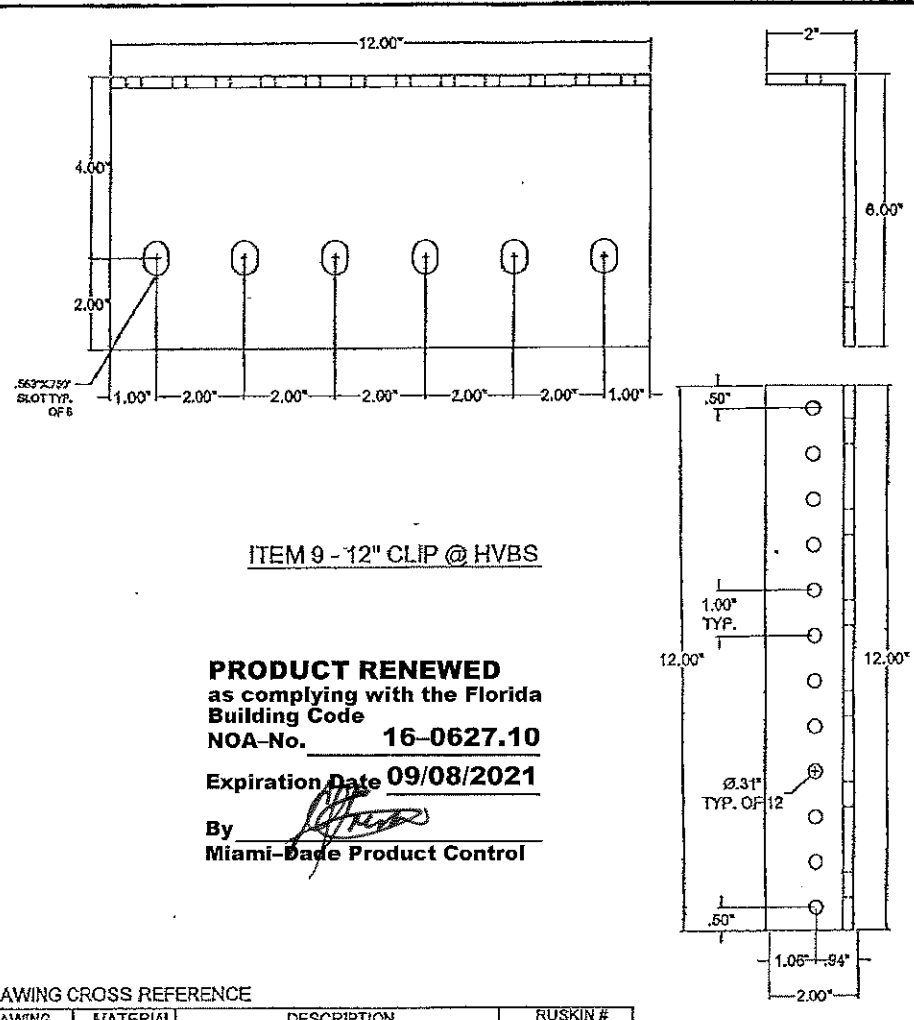


TABLE #1: APPROVED ATTACHMENTS

| MIN. SUPPORT MATL | 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 KB T2 EXP ANCHOR | 9/16" | 8" C-C MAX | 2 1/2" | 3" |
| (8" CMU) GROUT FILLED MASONRY | 1/2" Ø KB III EXP ANCHOR | 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" |

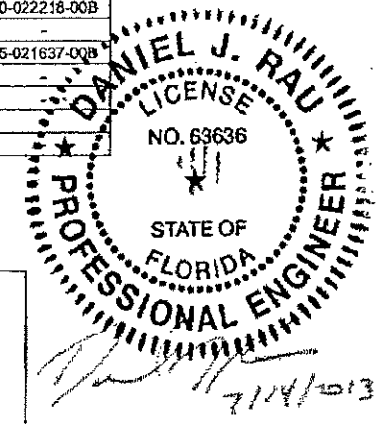
NOTE: ALL FASTENERS MUST BE INSTALLED PER THE MANUFACTURER'S FLORIDA / DADE COUNTY APPROVED INSTALLATION INSTRUCTIONS



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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 | 70-020442-008-2 |
| 2 | 60-022208-02D | 3003-H14 AL | TOP BLADE | 70-020441-008 |
| 3 | 60-022208-02D | 3003-H14 AL | TYPICAL BLADE | 70-020443-008 |
| 4 | 60-022208-02D | 3003-H14 AL | SILL PIECE | 70-021584-008 |
| 5 | 60-022208-02D | 6063-T6 AL | HVBS TEE | 70-022218-008 |
| 6 | 60-022208-02D | A36 STEEL | C5X8.7 | - |
| 7 | 60-022208-05D | 6063-T6 AL | CLIP ANGLE | 85-021637-008 |
| 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 6" CLIP ANGLE | - |
| 11 | 60-022208-05D | 6063-T6 AL | 6" X 6" X 4" CLIP ANGLE | - |



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 ENGINEERING DISCIPLINE:
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 STATE OF FLORIDA #63636

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|----------------|---------------|--------------|
| ALLOY & TEMPER | UNSPEC. RADII | UNSPEC. WALL |

DWN: WJM CHC: APPV:
 DATE: 07/19/10 DATE: DATE:

PART DESC. **ACL1245AFD LOUVER PART DETAILS**

SCALE: NTS ECH: - DATE:

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