



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 Rev B**, titled "ACL1245D Louver", sheets 1 through 6 of 6, dated 05/20/2011 and last revised on 10/19/21, prepared by Ruskin Company, signed and sealed by Jeffery D. Smith, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, Geneva, AL, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA **revises NOA # 22-0427.04** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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

*S.Z.*



02/01/2024

**NOA No. 23-1116.07**  
**Expiration Date: August 4, 2027**  
**Approval Date: February 01, 2024**  
**Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. Evidence submitted under previous NOAs**

**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**

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.  
**“Submitted under NOA # 11-0207.21”**
2. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram of Series ACL1245D Aluminum Louvers", prepared by National Certified Testing Laboratories, Report No. **NCTL-210-4244-03**, dated 03/18/2022, signed and sealed by Douglas J. McDougall, P.E.  
**“Submitted under NOA # 22-0427.04”**

**C. CALCULATIONS**

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. **“Submitted under NOA # 11-0207.21”**
2. Louver wind load review, prepared by Ruskin Company, dated 07/13/2022, signed and sealed by Jeffery D. Smith, P.E. **“Submitted under NOA # 22-0427.04”**

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None.



---

Sifang Zhao, P.E.,  
Product Control Examiner  
NOA No. 23-1116.07  
Expiration Date: August 4, 2027  
Approval Date: February 01, 2024

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**F. STATEMENTS**

1. Statement letter of code conformance to the 5<sup>th</sup> edition (2014) FBC issued by Ruskin Company, dated 06/14/2016, signed and sealed by Daniel J. Rau, P.E.  
*“Submitted under NOA # 16-0627.09”*
2. Statement letter of no financial interest, issued by Ruskin Company, dated 07/12/2013, signed and sealed by Daniel J. Rau, P.E.  
*“Submitted under NOA # 13-0502.05”*
3. Statement letter of code conformance to the 6<sup>th</sup> edition (2017) FBC issued by Ruskin Company, dated 10/09/2017, signed and sealed by Daniel J. Rau, P.E.  
*“Submitted under NOA # 17-1025.03”*
4. Statement letter of code conformance to the 7<sup>th</sup> edition (2020) FBC issued by Ruskin Company, dated 08/27/21, signed and sealed by Jeffery D. Smith, P.E.  
*“Submitted under NOA # 22-0427.04”*
5. Statement letter dated 09/15/21 of Successor Engineer adopting another Engineer’s work per FS 61G15-27.001, signed and sealed by Jeffery D. Smith, P.E.  
*“Submitted under NOA # 22-0427.04”*
6. Statement letter dated 06/15/21, issued by National Certified Testing Lab (NCTL) for upcoming scheduled verification, signed by Christopher Bennett, Lab Manager.  
*“Submitted under NOA # 22-0427.04”*
7. Statement letter of code conformance to the 8<sup>th</sup> edition (2023) of the FBC and of no financial interest, issued by Ruskin Company, dated 10/30/2023, signed and sealed by Jeffrey Devon Smith, P.E.

**G. OTHER**

1. This NOA revises NOA # 22-0427.04 for the 8<sup>th</sup> edition (2023) of the FBC update.

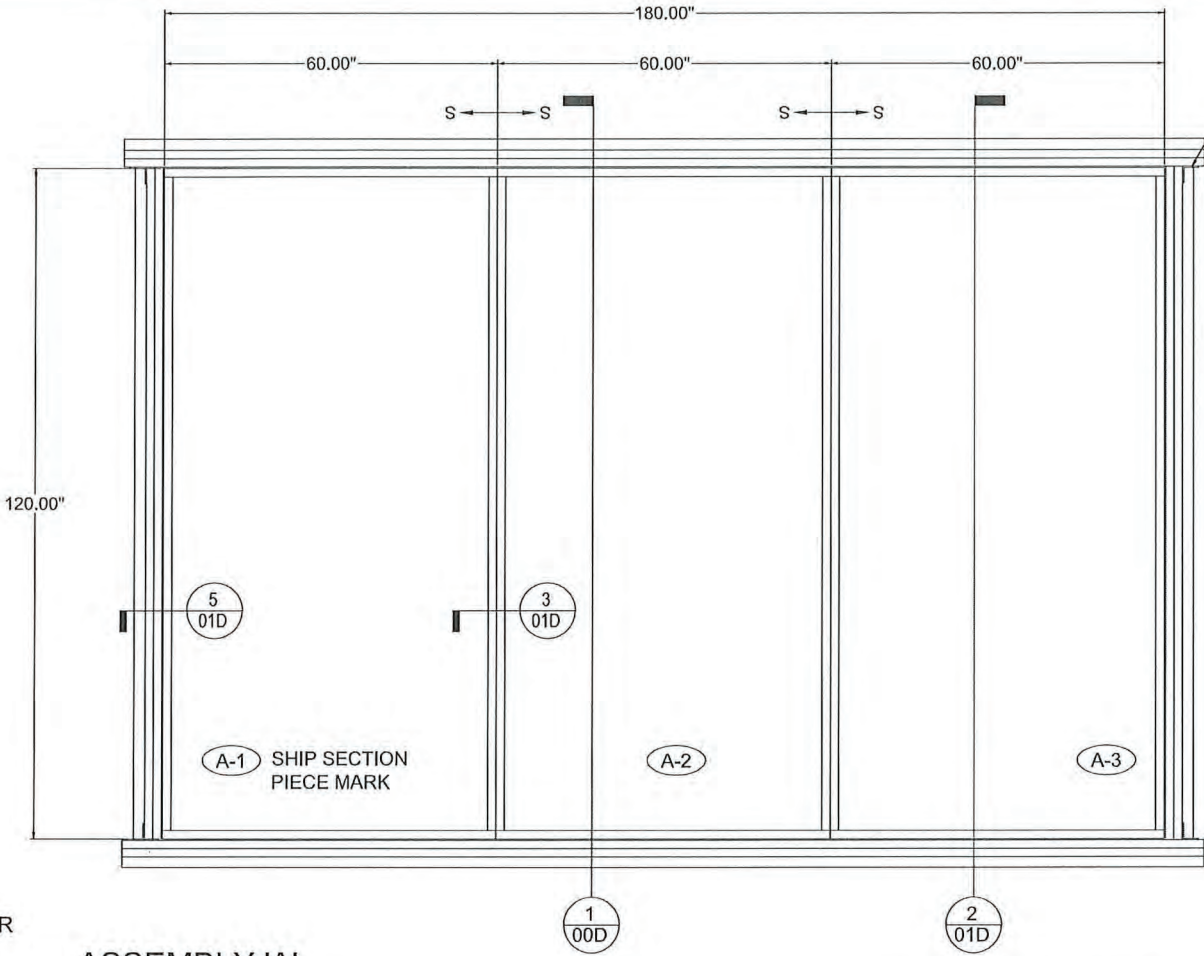


---

Sifang Zhao, P.E.,  
Product Control Examiner  
NOA No. 23-1116.07  
Expiration Date: August 4, 2027  
Approval Date: February 01, 2024



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

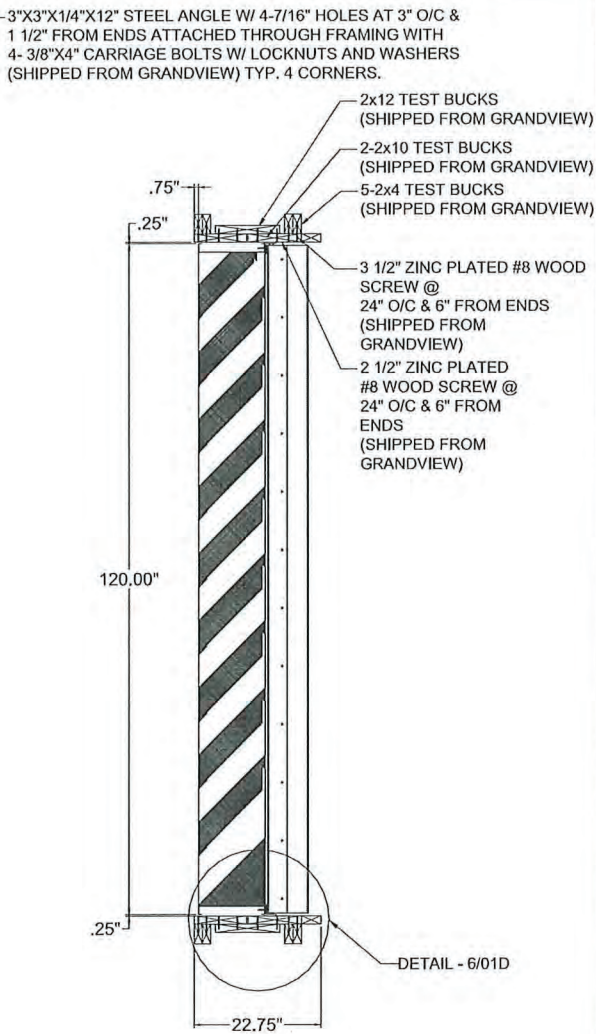


ASSEMBLY 'A'

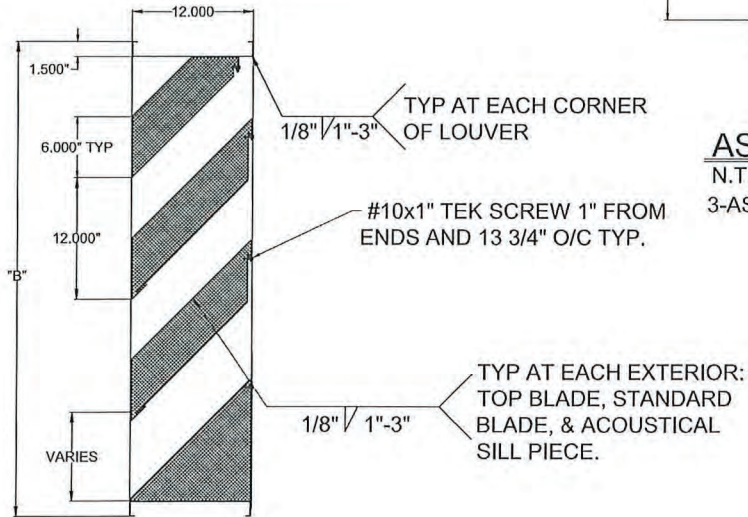
N.T.S.

3-ASSEMBLIES REQUIRED WITH 3-SHIP SECTIONS

FRONT VIEW



1 SECTION N.T.S.



ACL1245D

NOTES:

- 1) THE ACL1245D HAS BEEN TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSLE 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.
- 6) MAXIMUM ASSEMBLED LOUVER SIZE: UNLIMITED WIDE X 120" HIGH. MAX. MULLION SPACING IS 60".
- 7) 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.
- 8) 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 LOUVER - SPEC, ASS'Y AND NOTES  
Drawing 1 of 6.  
60-022207-01D ACL1245D LOUVER - SECTION AND DETAILS  
Drawing 2 of 6.  
60-022207-02D ACL1245D LOUVER - SECTION AND DETAILS  
Drawing 3 of 6.  
60-022207-03D ACL1245D LOUVER - SECTION AND DETAILS  
Drawing 4 of 6.  
60-022207-04D ACL1245D LOUVER - PART DETAILS  
Drawing 5 of 6.  
60-022207-05D ACL1245D LOUVER - PART DETAILS  
Drawing 6 of 6.

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

| MULLION / MULLION SUPPORT TABLE |                     |
|---------------------------------|---------------------|
| HEIGHT                          | MULLION SUPPORT     |
| 18" - 106"                      | MULLION W/O SUPPORT |
| 106" - 120"                     | 2" X 8" X 1/4" TUBE |

FOR OFFICE USE ONLY

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-1116.07  
Expiration Date 08/04/2027  
By *Ca*  
Miami-Dade Product Control



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

|   |   |  |  |  |          |          |          |
|---|---|--|--|--|----------|----------|----------|
| C   | REVISED FOR EASE OF INSTALLATION                  |  |  | 07/01/22   | RVT      | JDS      | JDS      |
| B   | REVISED NOTES, DRAWING INDEX & ENGINEER OF RECORD |  |  | 07/09/13   | RKP      | DJR      | DJR      |
| A   | REVISED BLADE WELDING INFORMATION                 |  |  | 10/14/10   | VMA      |          |          |
| REV.  | DESCRIPTION                                       |  |  | DATE   | REV'D BY | CHK'D BY | APP'D BY |
| TOLERANCES UNLESS SPECIFIED OTHERWISE   |   |  |  | NOTE:<br>1) ALL DIMENSIONS ARE GIVEN IN INCHES.<br>2) ALL EXPOSED SURFACES MUST BE FREE OF DIE LINES.<br>3) ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED.<br>4) ** EXTRUDER SPECIFIC ID MARK: .008R x .008DP |          |          |          |
| 3 PLACE .XXX ±.010<br>2 PLACE .XX ±.020<br>ANGLE DIMENSIONS ± 2°<br>USE WIQ-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 THERETO. 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**

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 |
| -              | -             | -            |

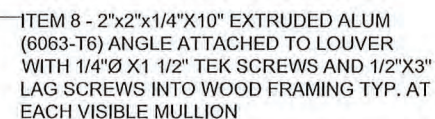
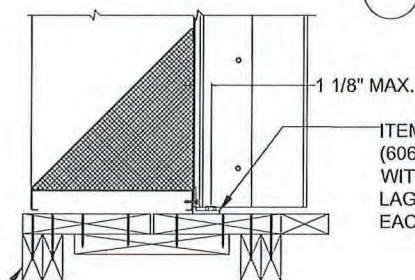
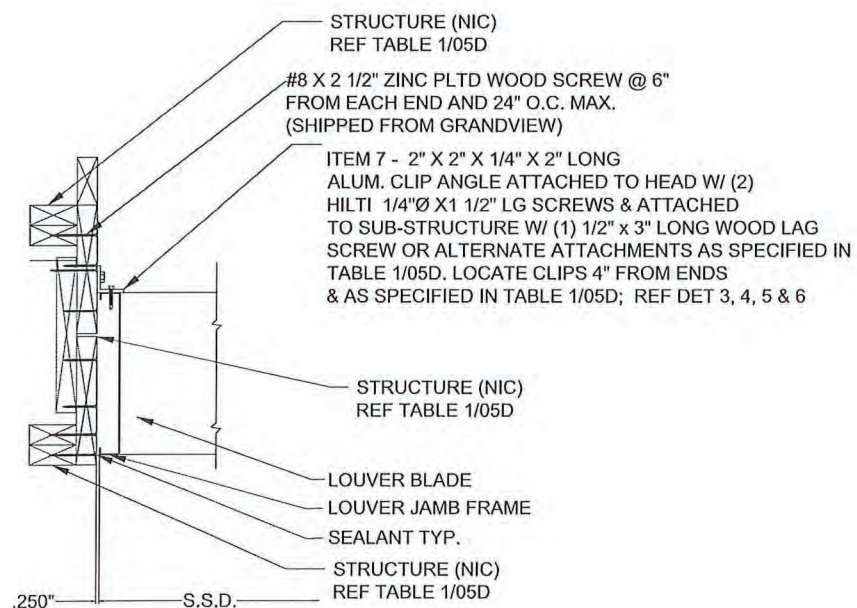
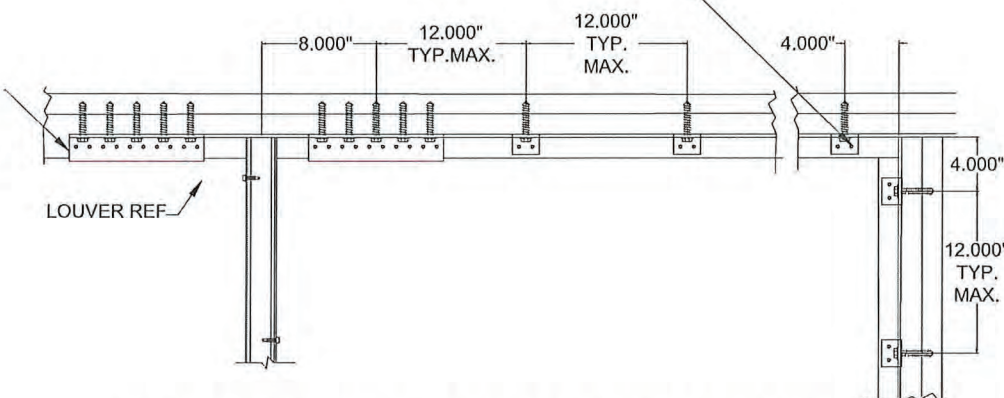
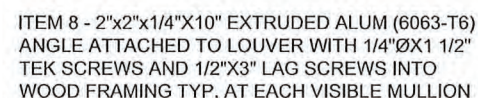
|       |            |       |       |
|-------|------------|-------|-------|
| DWN:  | WJM        | CHK:  | APPV: |
| DATE: | 05/20/2011 | DATE: | DATE: |

PART DESC.  
ACL1245D LOUVER  
SPECS, ASSY'S  
AND NOTES

|            |        |       |
|------------|--------|-------|
| SCALE: NTS | ECN: - | DATE: |
|------------|--------|-------|

DWG No. 60 - 022207 - 00D  
Drawing 1 of 6



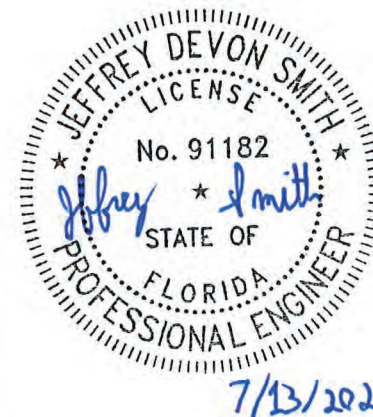


FOR OFFICE USE ONLY

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-1116.07

**Expiration Date** 08/04/2027

By                       
Miami-Dade Product Control



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

|   |                                  |  |          |          |          |          |
|---|----------------------------------|--|----------|----------|----------|----------|
| C   | REVISED FOR EASE OF INSTALLATION |  | 07/01/22 | RVT      | JDS      | JDS      |
| B   | REVISED ENGINEER OF RECORD       |  | 07/09/13 | RKP      | DJR      | DJR      |
| REV.  | DESCRIPTION                      |  | DATE     | REV'D BY | CHK'D BY | APP'D BY |
| TOLERANCES<br>UNLESS SPECIFIED OTHERWISE<br>3 PLACE .XXX ±.010<br>2 PLACE .XX ±.020<br>ANGLE DIMENSIONS ± 2°<br>USE WIG-007 & 008 |                                  | NOTE:<br>1) ALL DIMENSIONS ARE GIVEN IN INCHES.<br>2) ALL EXPOSED SURFACES MUST BE FREE OF DIE LINES.<br>3) ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED.<br>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 |
| DATUM |                  | R   | FULL RADIUS           |
| DET   | DETAIL           | REF | REFERENCE             |
| E-E   | END TO END       | SYM | SYMMETRICAL           |
| EXP   | EXPOSED          | TAN | TANGENT               |
| ID    | INSIDE DIAMETER  | TYP | TYPICAL               |
| IR    | INSIDE RADIUS    |     |                       |

# RUSKIN

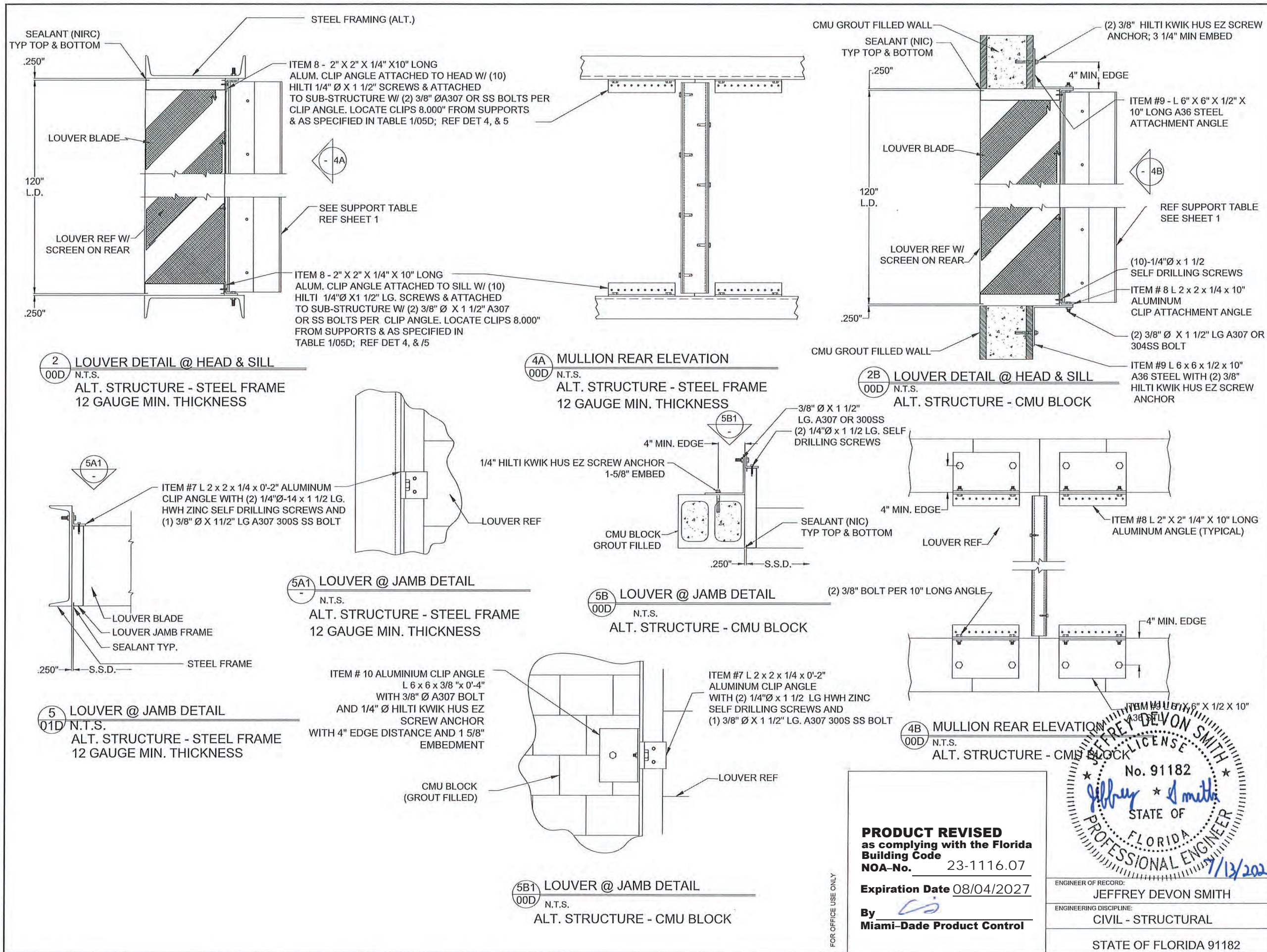
3900 DR. GREAVES RD  
GRANDVIEW, MO 64030  
PH: (816) 761-7476 FAX: (816) 763-8102

|                |            |               |  |              |  |
|----------------|------------|---------------|--|--------------|--|
| AREA           |            | EST. PER.     |  | EST. WT/FT.  |  |
| -              |            | -             |  | -            |  |
| ALLOY & TEMPER |            | UNSPEC. RADII |  | UNSPEC. WALL |  |
| -              |            | -             |  | -            |  |
| DWN:           | WJM        | CHK:          |  | APPV:        |  |
| DATE:          | 05/20/2011 | DATE:         |  | DATE:        |  |

|            |  |
|------------|--|
| PART DESC. | ACL1245D LOUVER<br>SECTION AND DETAILS |
|------------|--|

|                   |                |       |
|-------------------|----------------|-------|
| SCALE: NTS        | ECN: -         | DATE: |
| DWG No.           | Drawing 2 of 6 |       |
| 60 - 022207 - 01D |                |       |





| REV. | DESCRIPTION                      | DATE     | CHKD BY | APPD BY |
|------|----------------------------------|----------|---------|---------|
| C    | REVISED FOR EASE OF INSTALLATION | 07/01/22 | JDS     | JDS     |
| B    | REVISED ENGINEER OF RECORD       | 07/09/13 | DJR     | DJR     |
| 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

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 THERETO. THIS DOES NOT APPLY TO ANY VENDOR PARTS.

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

# RUSKIN

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

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

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

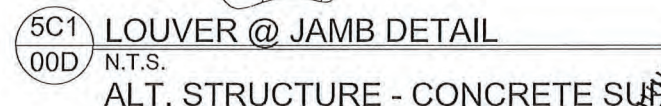
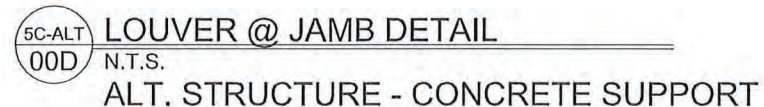
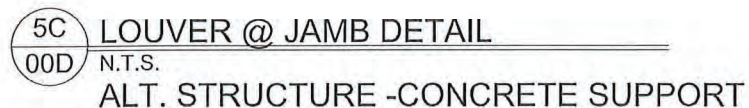
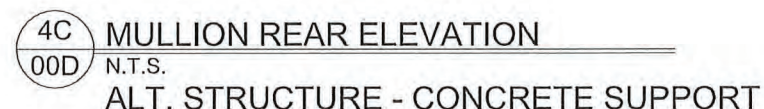
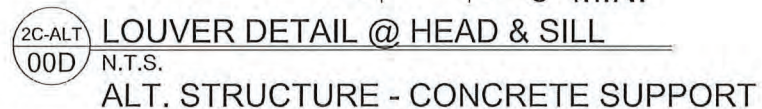
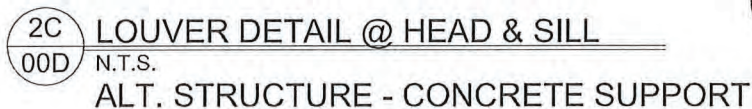
| DWN:  | WJM        | CHK:  | APPV: |
|-------|------------|-------|-------|
| DATE: | 04/18/2011 | DATE: | DATE: |

PART DESC. ACL1245D LOUVER SECTION AND DETAILS

| SCALE:  | NTS               | ECN: | - | DATE: |
|---------|-------------------|------|---|-------|
| DWG No. | 60 - 022207 - 02D |      |   |       |

60 - 022207 - 02D





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

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

# RUSKIN

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

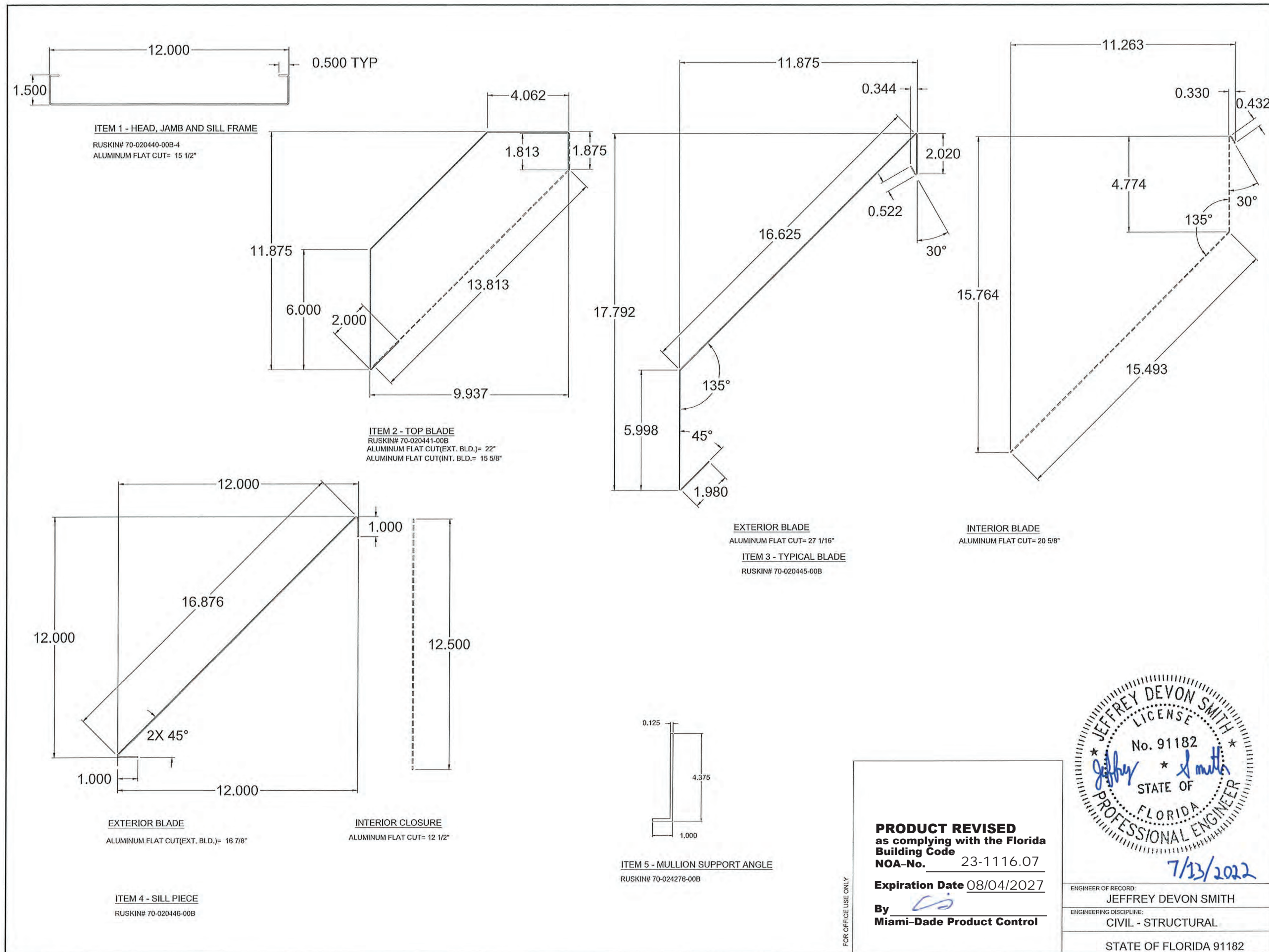
|                |            |               |  |              |  |
|----------------|------------|---------------|--|--------------|--|
| AREA           |            | EST. PER.     |  | EST. WT/FT.  |  |
| -              |            | -             |  | -            |  |
| ALLOY & TEMPER |      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

|            |  |
|------------|--|
| PART DESC. | ACL1245D LOUVER<br>SECTION AND DETAILS |
|------------|--|

|            |        |       |
|------------|--------|-------|
| SCALE: NTS | ECN: - | DATE: |
|------------|--------|-------|

|         |                |
|---------|----------------|
| DWG No. | Drawing 4 of 6 |
| 60 -    | 022207 - 03D   |

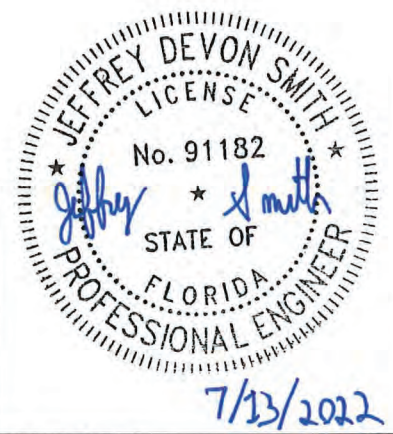




|  |  |  |  |  |          |          |          |
|--|--|--|--|--|----------|----------|----------|
| C  |  | REVISED FOR EASE OF INSTALLATION                                     |  | 07/01/22   | RVT      | JDS      | JDS      |
| B  |  | REVISED ENGINEER OF RECORD   |  | 07/09/13   | RKP      | DJR      | DJR      |
| REV.   |  | DESCRIPTION  |  | DATE   | REV'D BY | CHK'D BY | APP'D BY |
| TOLERANCES UNLESS SPECIFIED OTHERWISE  |  | NOTE:  |  | 1) ALL DIMENSIONS ARE GIVEN IN INCHES.                               |          |          |          |
| 3 PLACE .XXX ±.010   |  | 2) ALL EXPOSED SURFACES MUST BE FREE OF DIE LINES.                   |  | 3) ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED. |          |          |          |
| 2 PLACE .XX ±.020  |  | 3) ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED. |  | 4) ** EXTRUDER SPECIFIC ID MARK: .008R x .008DP                      |          |          |          |
| ANGLE DIMENSIONS ± 2°  |  | USE WIG-007 & 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   |  |  |  |  |          |          |          |
| <b>RUSKIN</b>  |  |  |  |  |          |          |          |
| 3900 DR. GREAVES RD<br>GRANDVIEW, MO 64030<br>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: 05/05/2011   |  | DATE:  |  | DATE:  |          |          |          |
| PART DESC.   |  |  |  |  |          |          |          |
| ACL1245D LOUVER<br>PART DETAILS  |  |  |  |  |          |          |          |
| SCALE: NTS   |  | ECN: -   |  | DATE:  |          |          |          |
| DWG No.  |  | Drawing 5 of 6   |  |  |          |          |          |
| 60   |  | 022207 -04D  |  |  |          |          |          |

FOR OFFICE USE ONLY

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-1116.07  
Expiration Date 08/04/2027  
By *[Signature]*  
Miami-Dade Product Control



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

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.



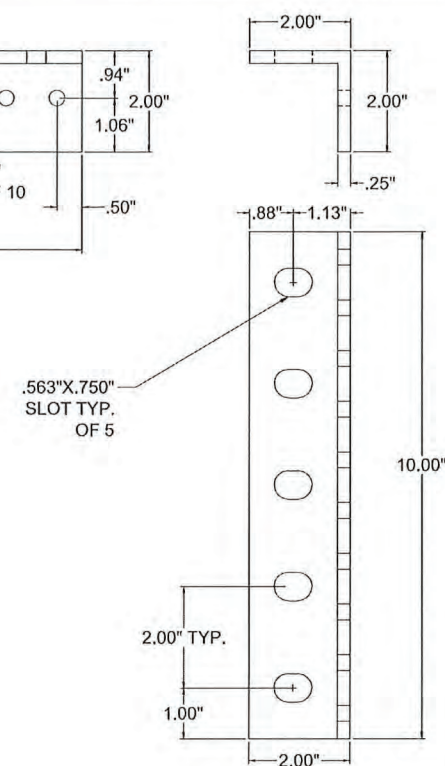
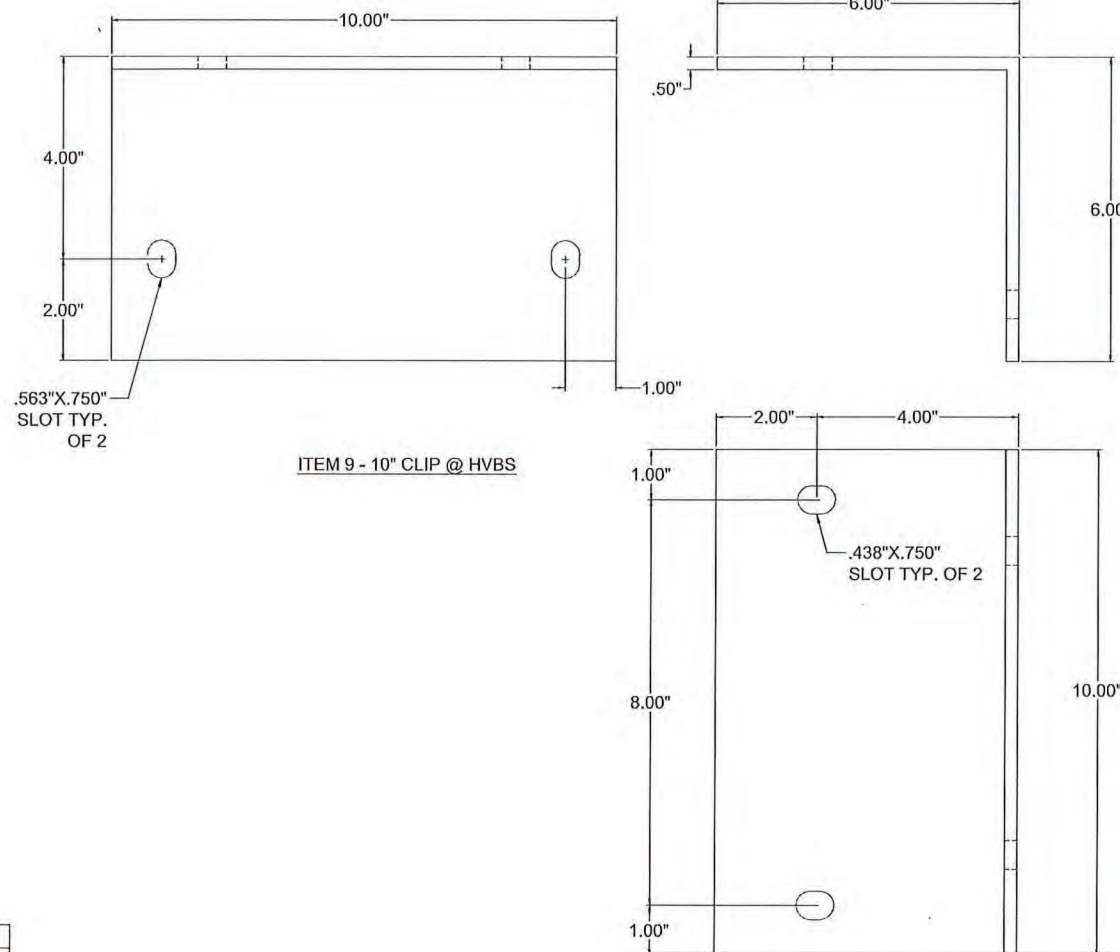
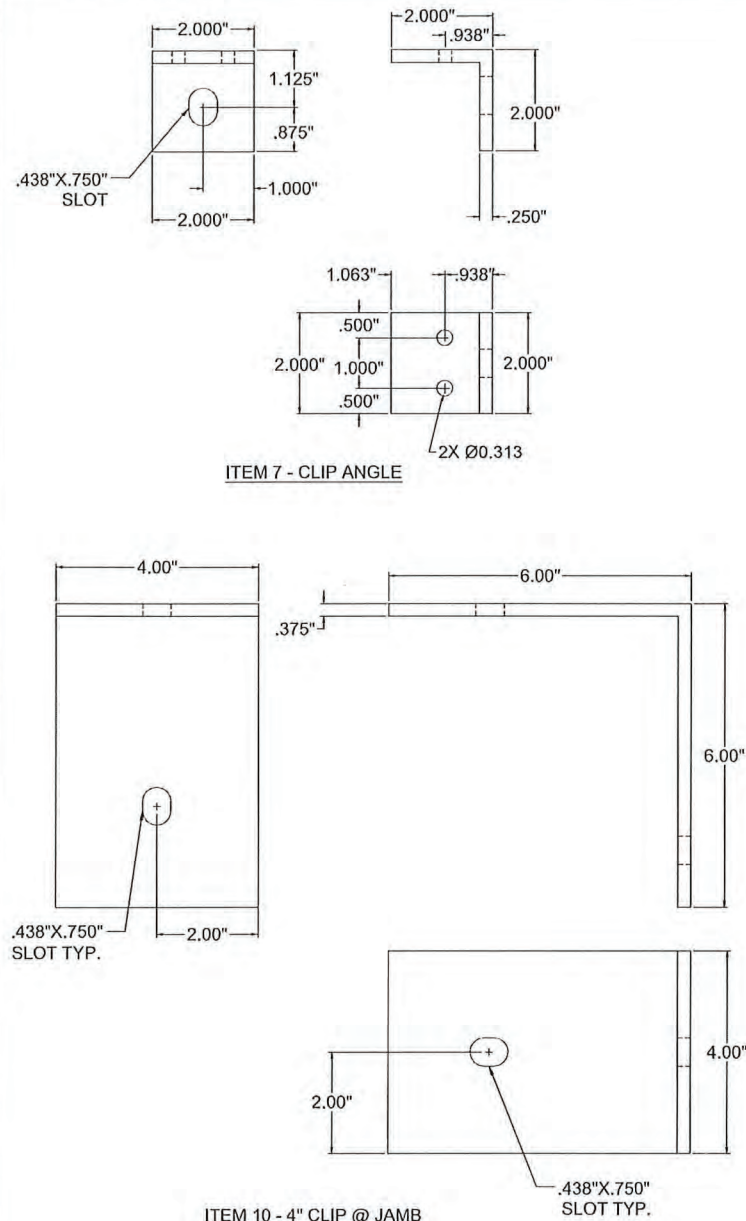


TABLE #2: DRAWING CROSS REFERENCE

| ITEM | DRAWING       | MATERIAL    | DESCRIPTION                | RUSKIN #      |
|------|---------------|-------------|----------------------------|---------------|
| 1    | 60-022207-00D | 3003-H14 AL | HEAD, JAMB AND SILL FRAMES | 70-020440-00B |
| 2    | 60-022207-00D | 3003-H14 AL | TOP BLADE                  | 70-020441-00B |
| 3    | 60-022207-00D | 3003-H14 AL | TYPICAL BLADE              | 70-020445-00B |
| 4    | 60-022207-00D | 3003-H14 AL | SILL PIECE                 | 70-020446-00B |
| 5    | 60-022207-00D | 6063-T6 AL  | MULLION SUPPORT ANGLE      | 70-024276-00B |
| 6    | 60-022207-00D | 6063-T6 AL  | 2X8X1/4" THK TUBE SUPPORT  | 70-023522-00B |
| 7    | 60-022207-00D | 6063-T6 AL  | CLIP ANGLE                 | 85-022012-00B |
| 8    | 60-022207-00D | 6063-T6 AL  | 10" CLIP @ HVBS            | -             |
| 9    | 60-022207-00D | A36 STEEL   | 6" x 6" x 1/2" CLIP ANGLE  | -             |
| 10   | 60-022207-00D | 6063-T6 AL  | 6" X 6" X 3/8" CLIP ANGLE  | -             |

TABLE #1: APPROVED ATTACHMENTS FOR JAMBS CLIPS

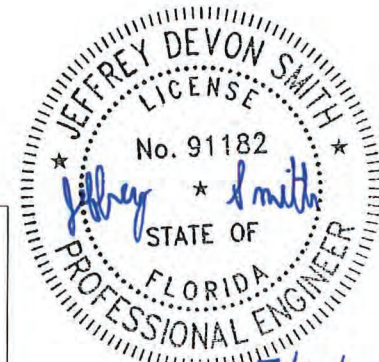
| MIN. SUPPORT MAT'L            | TYPE CONNECTION            | ANGLE SLOT WIDTH | MAX SPACING  | MIN EMBEDMENT | MIN EDGE |
|-------------------------------|----------------------------|------------------|--------------|---------------|----------|
| (12 GA MIN) STEEL             | 3/8"Ø A307 OR 300 SS Bolts | 9/16"            | 12" C-C MAX. | N/A           | 1"       |
| (6" MIN) CONCRETE             | 3/8" Ø KB -TZ              | 9/16"            | 12" C-C MAX. | 2"            | 3"       |
| (8" CMU) GROUT FILLED MASONRY | 1/4" Ø HILTI KWIK HUS EZ   | 9/16"            | 12" C-C MAX. | 1 5/8"        | 4"       |
| (2) 2 X -WOOD                 | 1/2"Ø X 3 LAG SCREW        | 9/16"            | 12" C-C MAX. | 3"            | 2 1/2"   |

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

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23-1116.07

Expiration Date 08/04/2027

By *[Signature]*  
Miami-Dade Product Control



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

| C   | REVISED FOR EASE OF INSTALLATION | 07/01/22 | RVT      | JDS      | JDS      |
|---|----------------------------------|----------|----------|----------|----------|
| B   | REVISOR                          | 07/09/13 | RKP      | DJR      | DJR      |
| REV.  | DESCRIPTION                      | DATE     | REV'D BY | CHK'D BY | APP'D BY |
| <p>NOTE:</p> <p>1) ALL DIMENSIONS ARE GIVEN IN INCHES.</p> <p>2) ALL EXPOSED SURFACES MUST BE FREE OF DIE LINES.</p> <p>3) ALUMINUM ASSOCIATION TOLERANCES APPLY UNLESS OTHERWISE SPECIFIED.</p> <p>4) ** EXTRUDER SPECIFIC ID MARK: .008R x .008DP</p> |                                  |          |          |          |          |

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

**RUSKIN**

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

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

|                  |       |       |
|------------------|-------|-------|
| DWN: WJM         | CHK:  | APPV: |
| DATE: 05/05/2011 | DATE: | DATE: |

PART DESC.  
ACL1245D LOUVER  
PART DETAILS

SCALE: NTS ECN: - DATE:

DWG No. Drawing 6 of 6  
**60 - 022207 - 05D**

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 THERETO. THIS DOES NOT APPLY TO ANY VENDOR PARTS.