



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

**PCI Industries, LLC dba Pottorff**  
**5101 Blue Mound Road**  
**Fort Worth, TX 76106**

**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 EXA- 645-MD Aluminum Louver with Damper**

**APPROVAL DOCUMENT:** Drawing No. **EXA-645-MD NOA**, titled "EXA-645-MD", sheets 1 through 13 of 13, dated 05/03/16, with revision **3** dated 11/02/21, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, 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:** A permanent label with the manufacturer's name or logo, manufacturing plant's city, state, model/ series, and the statement reading: "Miami-Dade County Product Control Approved", is to be located on each unit.

**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 No. 23-1215.13** 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 **Carlos M. Utrera, P.E.**



05/21/26

**NOA No. 26-0505.02**  
**Expiration Date: October 20, 2031**  
**Approval Date: May 28, 2026**  
Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.  
*(Submitted under NOA No. 16-0824.04)*
2. Drawing No. **EXA-645-MD NOA**, titled "EXA-645-MD", sheets 1 through 13 of 13, dated 05/03/16, with revision **3** dated 11/02/21, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, P.E.  
*(Submitted under NOA No. 21-1122.05)*

**B. TESTS**

1. Test Reports on High Velocity Wind Driven Rain Resistance per AMCA 550-15 of a Model EXA-645-MD Aluminum Louver, prepared by Intertek, Test Report No. **J8688.01-801-44 R0**, dated 08/21/19, signed and sealed by Tyler Westerling, P.E.  
*(Submitted under NOA No. 21-0318.02)*
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 installation diagram of Model EXA-645-MD Aluminum Louvers, prepared by Intertek/ATI, Test Report No. **F9510.01-801-18**, dated 07/11/16, signed and sealed by Tyler Westerling, P.E.  
*(Submitted under NOA No. 16-0824.04)*

**C. CALCULATIONS**

1. EXA-645-MD louver anchor calculations dated 12/16/20, prepared by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.  
*(Submitted under NOA No. 21-0318.02)*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None.



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**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 26-0505.02**  
**Expiration Date: October 20, 2031**  
**Approval Date: May 28, 2026**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's**

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 8<sup>th</sup> Edition (2023)**, issued by Rice Engineering, dated 11/28/23, signed and sealed by Wayne K. Helmila, P.E.  
*(Submitted under NOA No. 23-1215.13)*
2. Statement letter of conformance, complying with **FBC 7<sup>th</sup> Edition (2020)**, dated 01/19/21, issued by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.  
*(Submitted under NOA No. 21-0318.02)*
3. Statement letter of no financial interest, dated 01/19/21, issued by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.  
*(Submitted under NOA No. 21-0318.02)*
4. Asset Purchase Agreement entered between **PCI Industries, Inc.**, a California corporation (the Seller) and **PCI Industries, LLC**, a Delaware limited liability company (the Buyer), dated 10/22/21.  
*(Submitted under NOA No. 21-1122.05)*
5. Statement letter as an official notification from **PCI Industries, Inc.** that all assets associated with the Pottorff model EXA-645-MD aluminum louver have been legally sold to **PCI Industries, LLC**, dated 11/17/21 and signed by Nathan Woodworth, Louver Development Manager.  
*(Submitted under NOA No. 21-1122.05)*
6. Statement letter as a request from **PCI Industries, LLC** to issue a new Notice of Acceptance (NOA) for the Pottorff model EXA-645-MD aluminum louver, dated 11/17/21 and signed by Nathan Woodworth, Louver Development Manager.  
*(Submitted under NOA No. 21-1122.05)*



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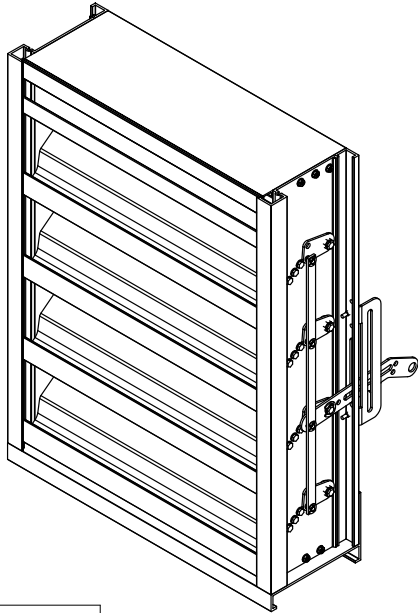
**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA No. 26-0505.02**  
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The following pages in this document were submitted by the manufacturer (third party) to represent the product being approved and establish the limits of use. The pages may include technical drawings, schematics and installation details.

C:\Users\inwoodworth\Desktop\Miami-Dade Updates (2020)\EXA-645-MD\EXA-645-MD NOA Drawings (Rev 2)

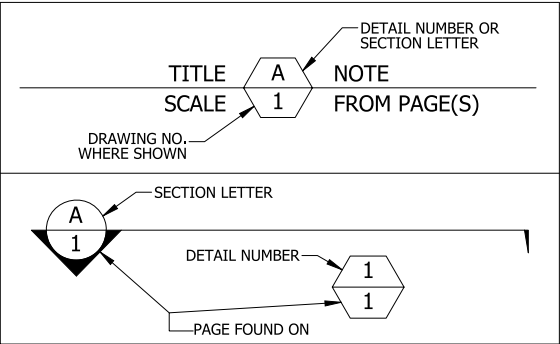
NOTES:

1. THIS NOA DRAWING INCLUDES INSTALLATION DETAILS TO ATTAIN MAXIMUM DESIGN PRESSURES OF ±120 PSF AS TESTED IN ACCORDANCE WITH PROTOCOLS TAS 201 (LEVEL 'D', 50 FPS), TAS 202, & TAS 203 FOR USE WITHIN HIGH VELOCITY HURRICANE-AFFECTED ZONES DEFINED BY THE FLORIDA BUILDING CODE. WHEN THE OPERABLE BLADES ARE IN THE FULLY-CLOSED POSITION, THE LOUVER ALSO HAS WATER INGRESS PROTECTION AS TESTED IN ACCORDANCE WITH AMCA 550.
2. ALL VARIATIONS ARE LARGE MISSILE IMPACT RESISTANT.
3. UNITS OF MEASURE ARE FRACTIONAL INCHES UNLESS OTHERWISE SPECIFIED.
4. IT IS ASSUMED THAT THE LOUVER SYSTEMS DO NOT SUPPORT ANY LOADS TRANSFERRED FROM THE BUILDING CONDITION.
5. IT IS ASSUMED THAT THE BUILDING CONDITIONS ARE ADEQUATELY DESIGNED TO SUPPORT LOADS IMPARTED BY THE LOUVER SYSTEM.
6. TO PREVENT GALVANIC CORROSION, ELECTROCHEMICALLY DISSIMILAR MATERIALS IN CONTACT WITH ONE ANOTHER SHALL BE PROTECTED BY PAINT, GASKETING, OR OTHER MEANS PER THE FLORIDA BUILDING CODE.
7. ADDITIONAL PROTECTION FROM WATER INGRESS IS NOT NECESSARY WHEN OPERABLE LOUVER BLADES ARE IN THE CLOSED POSITION.
8. OTHER BUILDING CONDITIONS THAN THOSE DENOTED CAN BE UTILIZED IF ANALYZED AND APPROVED BY A PROFESSIONAL ENGINEER.
9. MULTI-SECTION WIDE AND HIGH LOUVER SYSTEMS ARE ALLOWABLE PROVIDED THE INDIVIDUAL SECTIONS ARE SUPPORTED PER THE DETAILS ON THIS DRAWING AND A SUITABLE SUPPORT STRUCTURE IS ANALYZED AND APPROVED BY A PROFESSIONAL ENGINEER.

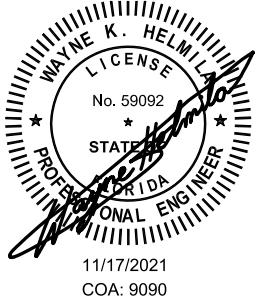


| TABLE 1                         |             |             |
|---------------------------------|-------------|-------------|
| SINGLE SECTION SIZE LIMITATIONS |             |             |
| MAX DESIGN PRESSURE             | MIN (W X H) | MAX (W X H) |
| ±120 PSF                        | 12" X 12"   | 60" X 120"  |

| TABLE 2                                                             |                     |
|---------------------------------------------------------------------|---------------------|
| MULTIPLE SECTION SIZE LIMITATIONS<br>(MAX DESIGN PRESSURE: 120 PSF) |                     |
| SINGLE SECTION HIGH - UNLIMITED WIDTH                               | SEE SHEETS 4 THRU 8 |
| SINGLE SECTION WIDE - UNLIMITED HEIGHT                              | SEE SHEET 9         |



P.E. STAMP



| TABLE 3                                                            |                    |                                                                                                                 |                |                            |                                     |
|--------------------------------------------------------------------|--------------------|-----------------------------------------------------------------------------------------------------------------|----------------|----------------------------|-------------------------------------|
| ANCHOR SCHEDULE                                                    |                    |                                                                                                                 |                |                            |                                     |
| SUBSTRATE                                                          | LOCATION           | ANCHOR TYPE                                                                                                     | MIN. EMBEDMENT | EDGE DISTANCE              | SPACING                             |
| CONCRETE<br>(F <sub>c</sub> ≥ 3500 PSI)                            | JAMBS (SHEAR)      | 1/2" X 5" DEWALT SCREW-BOLT+ (F-5)                                                                              | 4 1/4"         | 2 1/4" MIN.                | 20"                                 |
|                                                                    | JAMBS (TENSION)    | 1/2" X 5" DEWALT SCREW-BOLT+ (F-5)                                                                              | 4 1/4"         | 1 3/4" MIN.<br>2 1/2" MAX. | 20"                                 |
|                                                                    | MULLIONS (SHEAR)   | 1/2" X 5" DEWALT SCREW-BOLT+ (F-5)                                                                              | 4 1/4"         | 3 3/8" MIN.                | 7 1/2"                              |
|                                                                    | MULLIONS (TENSION) | 5/8" X 5" DEWALT SCREW-BOLT+ (F-9)                                                                              | 5"             | 1 3/4" MIN.<br>2 3/8" MAX. | 9 1/8"                              |
| GROUT-FILLED CMU<br>(f <sub>m</sub> ≥ 1500 PSI)                    | ALL                | 3/8" X 4" DEWALT SCREW-BOLT+ (F-6)                                                                              | 3 1/4"         | 1 1/2" MIN.<br>1 3/4" MAX. | 14" (JAMBS)<br>4" (MULLIONS)        |
| STRUCTURAL STEEL<br>(MIN. 3/16" THICK,<br>F <sub>y</sub> ≥ 36 KSI) | ALL                | 1/4"-20 X 1-1/4" HEX BOLT, NUT,<br>AND TWO (2) FLAT WASHERS (F-8), OR<br>1/4-14 X 1" SELF-DRILLING SCREW (F-10) | FULL           | 1 1/2" MIN.                | 2 1/2" (JAMBS)<br>1 1/2" (MULLIONS) |
| STEEL STUD<br>(MIN. 16-GA,<br>F <sub>y</sub> ≥ 50 KSI)             | ALL                | 1/4"-20 X 1-1/4" HEX BOLT, NUT,<br>AND TWO (2) FLAT WASHERS (F-8)                                               | FULL           | 1 1/2" MIN.                | 2 1/2" (JAMBS)<br>1 1/2" (MULLIONS) |
| WOOD<br>(S.G. ≥ 0.43)                                              | ALL                | 3/8" X 3-1/2" LAG BOLT WITH FLAT<br>WASHER (F-7)                                                                | 3"             | 1 1/2" MIN.                | 2 1/2" (JAMBS)<br>1 1/2" (MULLIONS) |

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. **26-0505.02**  
Expiration Date **10/20/2031**  
By *[Signature]*  
Miami-Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **21-1122.05**  
Expiration Date **10/20/2026**  
By *[Signature]*  
Miami-Dade Product Control

**PRODUCT REVISED**  
complying with the Florida  
Building Code  
NOA-No. **23 1215.13**  
Expiration Date: **10/20/2026**  
By *[Signature]*  
Miami-Dade Product Control

**RICE**  
ENGINEERING  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com  
Florida Firm No: F-0100005061  
Certificate of Authorization: #9090  
Wayne K. Helm  
Registration No: 59092

UNLESS OTHERWISE SPECIFIED  
DIMENSION ARE IN INCHES.  
TOLERANCE UNLESS NOTED:  
X.X ±0.030  
X.XX ±0.015  
X.XXX ±0.010  
ANGLE ±1°  
FRACTION ±1/16

5101 Blue Mound Road  
Fort Worth, Texas 76106  
Phone: 817-509-2300  
Fax: 817-831-3110

THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

**POTTORFF**

DRAWING DESCR: COVER SHEET

PROJECT: EXA-645-MD

LOCATION:

CUSTOMER:

PROJ, MGR:

DATE: 5/3/2016

CHK'D BY: NW

DRAWN BY: LGH

ORDER NUMBER

P.O. NUMBER

DRAWING NUMBER

SHEET: 1 of 13

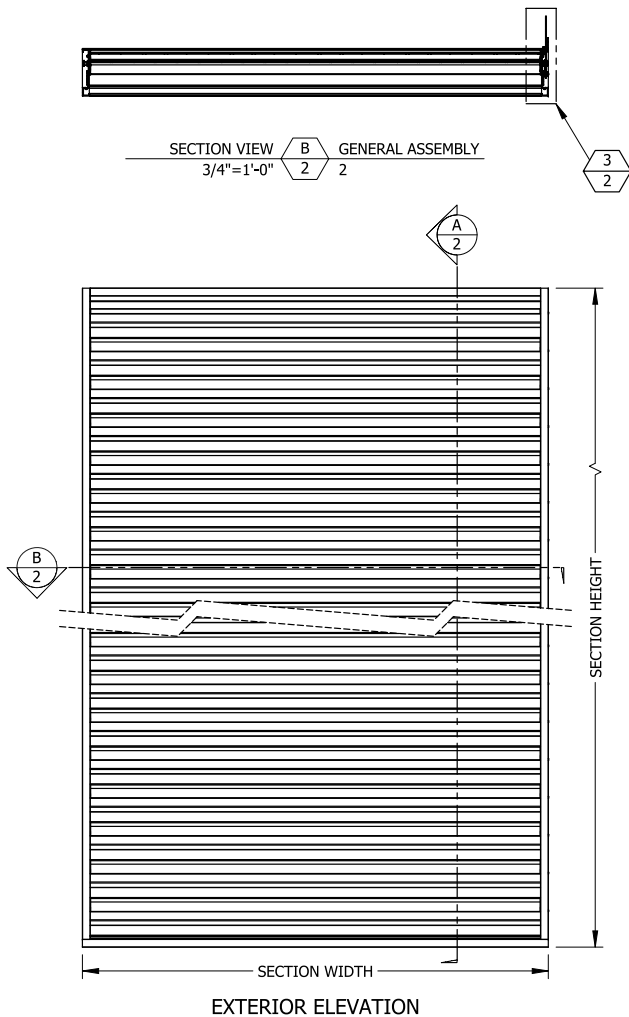
SCALE: NONE

EXA-645-MD NOA

|      |                                                      |           |          |
|------|------------------------------------------------------|-----------|----------|
| 3    | UPDATED LABEL DETAIL                                 | 11/2/2021 | NWW      |
| 2    | ADDED AMCA 550 PERFORMANCE, UPDATED ANCHORAGE DESIGN | 3/17/2021 | NWW      |
| 1    | INITIAL RELEASE                                      | 7/27/2016 | NWW      |
| REV. | DESCRIPTION                                          | DATE      | DRAWN BY |

MAX HOLE BREAKOUT:  
15% OF MATERIAL THICKNESS

C:\Users\inwoodworth\Desktop\Miami-Dade Updates (2020)\EXA-645-MD\EXA-645-MD NOA Drawings (Rev 2)



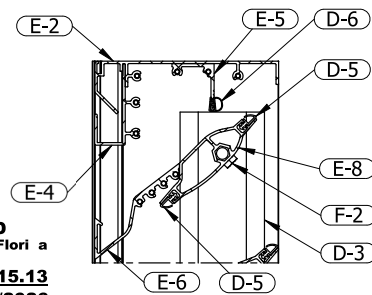
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as complying with the Florida  
Building Code  
NOA-No. **26-0505.02**  
Expiration Date **10/20/2031**  
By *[Signature]*  
Miami-Dade Product Control

**PRODUCT REVISED**  
complying with the Florida  
Building Code  
NOA-No. **23 1215.13**  
Expiration Date: **10/20/2026**  
By *Manuel Fern*  
Miami-Dade Product Control

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Luxemburg, WI 54217  
Phone: (920) 617-1042  
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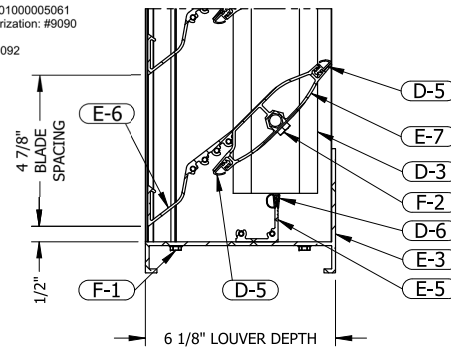
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

SECTION VIEW **A** GENERAL ASSEMBLY  
3/4"=1'-0" **2** 2



CONSTRUCTION **2** DETAIL  
3"=1'-0" **2** 2

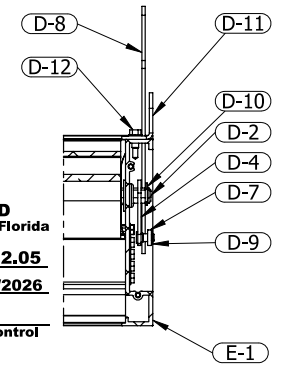
IN FLANGED CONFIGURATIONS:  
E-11 WILL BE USED IN PLACE OF E-2



CONSTRUCTION **1** DETAIL  
3"=1'-0" **2** 2

IN FLANGED CONFIGURATIONS:  
E-12 WILL BE USED IN PLACE OF E-3

## GENERAL LOUVER ASSEMBLY

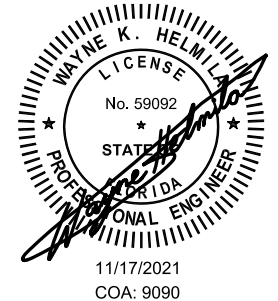


**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **21-1122.05**  
Expiration Date **10/20/2026**  
By *[Signature]*  
Miami-Dade Product Control

CONSTRUCTION **3** DETAIL  
3"=1'-0" **2** 2

IN FLANGED CONFIGURATIONS:  
E-10 WILL BE USED IN PLACE OF E-1  
IN MULTI-WIDE CONFIGURATIONS:  
E-9 WILL BE USED IN PLACE OF E-1 AT MULLIONS

## P.E. STAMP

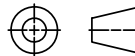


UNLESS OTHERWISE SPECIFIED  
DIMENSION ARE IN INCHES.  
TOLERANCE UNLESS NOTED:  
X.X ±0.030  
X.XX ±0.015  
X.XXX ±0.010  
ANGLE ±1°  
FRACTION ±1/16

MAX HOLE BREAKOUT:  
15% OF MATERIAL THICKNESS

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THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

**POTTORFF**

DRAWING DESCR: GENERAL LOUVER ASSEMBLY

PROJECT: EXA-645-MD

LOCATION:

CUSTOMER:

PROJ, MGR:

DATE: 5/3/2016

CHK'D BY: NW

SHEET: 2 of 13

SCALE: 3/4"=1'-0"

DRAWN BY: LGH

ORDER NUMBER

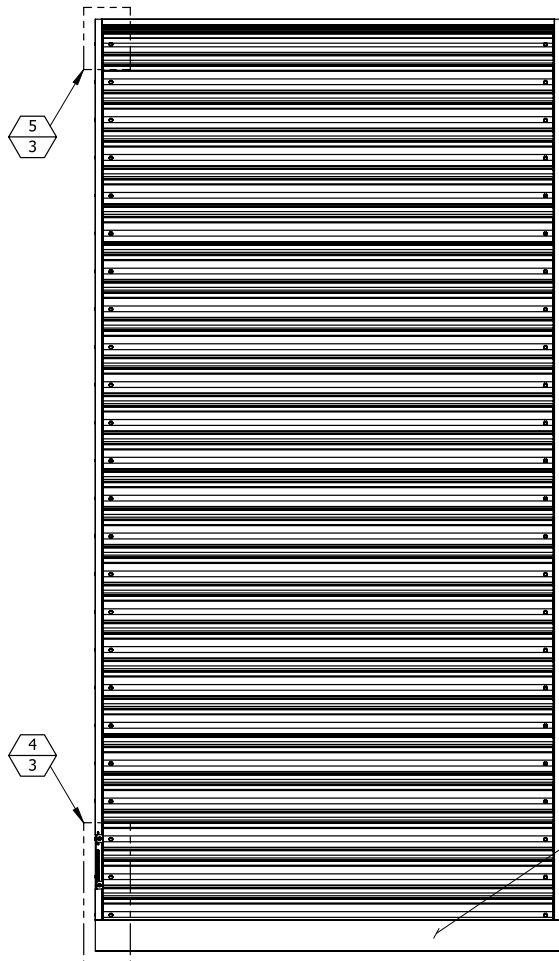
P.O. NUMBER

DRAWING NUMBER

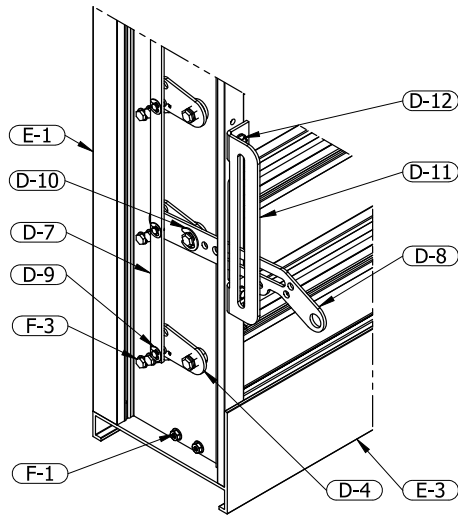
EXA-645-MD NOA

|      |                                                      |           |          |
|------|------------------------------------------------------|-----------|----------|
| 3    | UPDATED LABEL DETAIL                                 | 11/2/2021 | NWW      |
| 2    | ADDED AMCA 550 PERFORMANCE, UPDATED ANCHORAGE DESIGN | 3/17/2021 | NWW      |
| 1    | INITIAL RELEASE                                      | 7/27/2016 | NWW      |
| REV. | DESCRIPTION                                          | DATE      | DRAWN BY |

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INTERIOR ELEVATION



CONSTRUCTION 3"=1'-0" 4 3 DETAIL 3

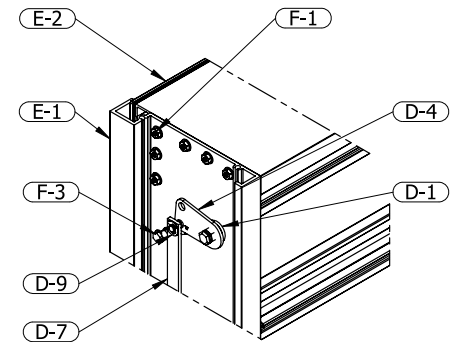
IN FLANGED CONFIGURATIONS:  
E-10 WILL BE USED IN PLACE OF E-1  
E-12 WILL BE USED IN PLACE OF E-3  
IN MULTI-WIDE CONFIGURATIONS:  
E-9 WILL BE USED IN PLACE OF E-1 AT MULLIONS

ENGRAVED LABEL DETAIL

PCI Industries LLC d/b/a  
**POTTORFF**  
Ft Worth TX  
SO# 123456

Miami Dade County  
Product Control  
Approved

GENERAL LOUVER ASSEMBLY



CONSTRUCTION 3"=1'-0" 5 3 DETAIL 3

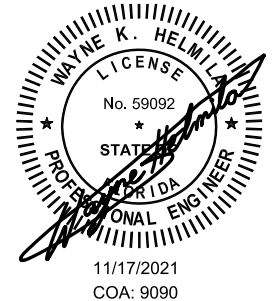
IN FLANGED CONFIGURATIONS:  
E-10 WILL BE USED IN PLACE OF E-1  
E-11 WILL BE USED IN PLACE OF E-2  
IN MULTI-WIDE CONFIGURATIONS:  
E-9 WILL BE USED IN PLACE OF E-1 AT MULLIONS

**PRODUCT REVISED**  
complying with the Florida Building Code  
NOA-No. **23 1215.13**  
Expiration Date: **10/20/2026**  
By: *Manuel Fern*  
Miami-Dade Product Control

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By: *RH*  
Miami-Dade Product Control

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P.E. STAMP



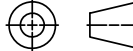
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| REV. | DESCRIPTION                                          | DATE      | DRAWN BY |

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X.X ±0.030  
X.XX ±0.015  
X.XXX ±0.010  
ANGLE ±1°  
FRACTION ±1/16

MAX HOLE BREAKOUT:  
15% OF MATERIAL THICKNESS

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THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

**POTTORFF**

DRAWING DESCR: GENERAL LOUVER ASSEMBLY

PROJECT: EXA-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 5/3/2016

SHEET: 3 of 13

CHK'D BY: NW

SCALE: 3/4"=1'-0"

DRAWN BY: LGH

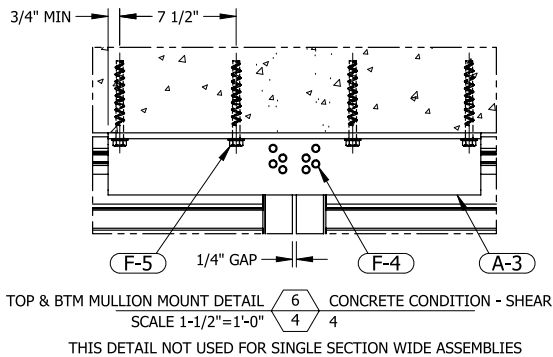
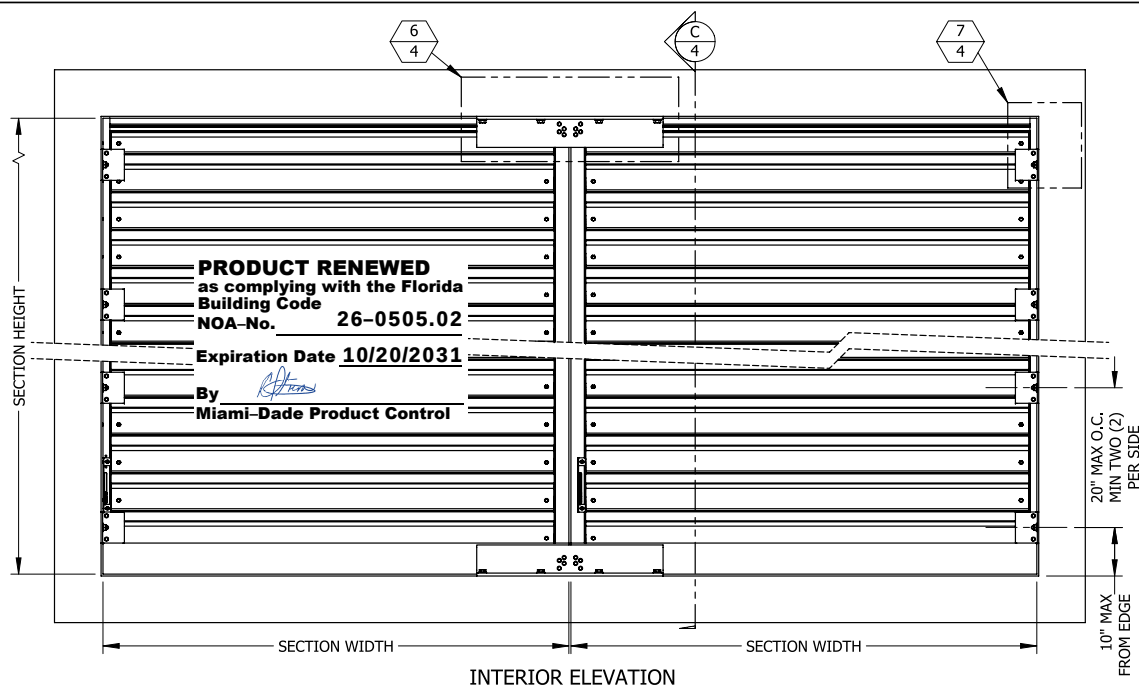
ORDER NUMBER

P.O. NUMBER

DRAWING NUMBER

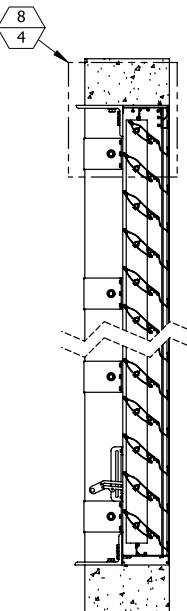
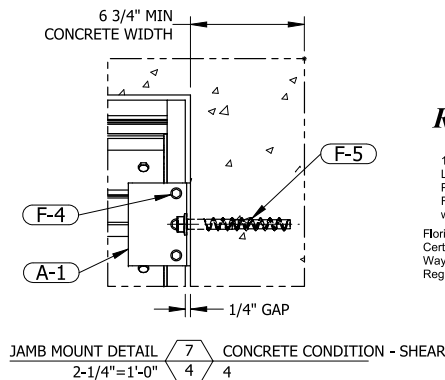
EXA-645-MD NOA

C:\Users\woodworth\Desktop\Miami-Dade Updates (2020)\EXA-645-MD\EXA-645-MD NOA Drawings (Rev 2)

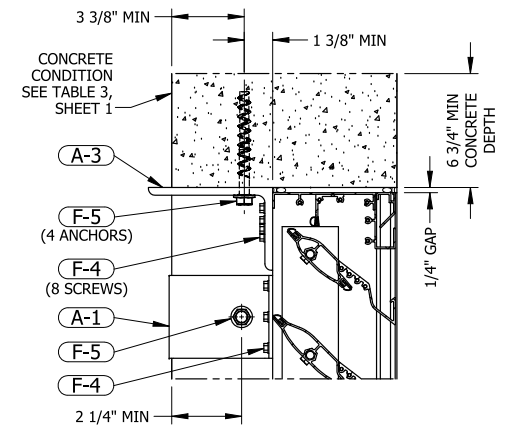


**PRODUCT REVISED**  
complying with the Florida Building Code  
NOA-No. **23 1215.13**  
Expiration Date: **10/20/2026**  
By *Manuel Torres*  
Miami-Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. **21-1122.05**  
Expiration Date **10/20/2026**  
By *Manuel Torres*  
Miami-Dade Product Control



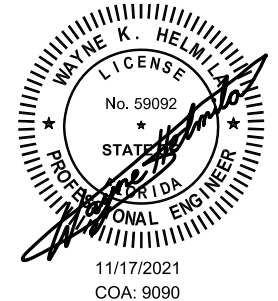
## CONCRETE CONDITION - SHEAR



TOP & BTM MOUNT DETAIL **8/4** CONCRETE CONDITION - SHEAR  
2-1/4\"/>

A-3 AND ASSOCIATED FASTENERS NOT USED IN SINGLE SECTION WIDE ASSEMBLIES

**P.E. STAMP**



**RICE**  
ENGINEERING  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com  
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmli  
Registration No: 59092

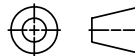
|      |                                                      |           |          |
|------|------------------------------------------------------|-----------|----------|
| 3    | UPDATED LABEL DETAIL                                 | 11/2/2021 | NWW      |
| 2    | ADDED AMCA 550 PERFORMANCE, UPDATED ANCHORAGE DESIGN | 3/17/2021 | NWW      |
| 1    | INITIAL RELEASE                                      | 7/27/2016 | NWW      |
| REV. | DESCRIPTION                                          | DATE      | DRAWN BY |

UNLESS OTHERWISE SPECIFIED  
DIMENSION ARE IN INCHES.  
TOLERANCE UNLESS NOTED:  
X.X ±0.030  
X.XX ±0.015  
X.XXX ±0.010  
ANGLE ±1°  
FRACTION ±1/16

MAX HOLE BREAKOUT:  
15% OF MATERIAL THICKNESS

5101 Blue Mound Road  
Fort Worth, Texas 76106  
Phone: 817-509-2300  
Fax: 817-831-3110

THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

**POTTORFF**

DRAWING DESCR: CONCRETE CONDITION - SHEAR

PROJECT: EXA-645-MD

LOCATION:

CUSTOMER:

PROJ, MGR:

DATE: 5/3/2016

CHK'D BY: NW

DRAWN BY: LGH

ORDER NUMBER

P.O. NUMBER

DRAWING NUMBER

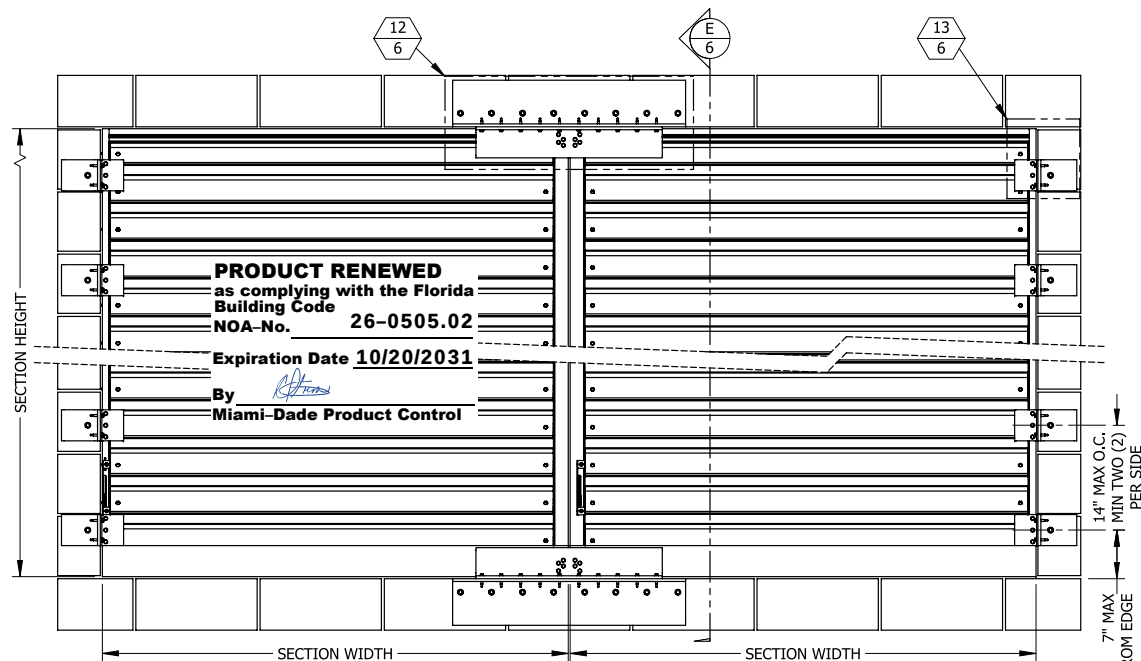
SHEET: 4 of 13

SCALE: 3/4\"/>

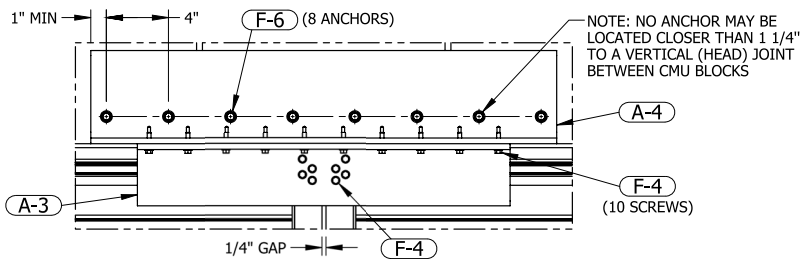
EXA-645-MD NOA

|      |                                                      |           |          |
|------|------------------------------------------------------|-----------|----------|
| 3    | UPDATED LABEL DETAIL                                 | 11/2/2021 | NWW      |
| 2    | ADDED AMCA 550 PERFORMANCE, UPDATED ANCHORAGE DESIGN | 3/17/2021 | NWW      |
| 1    | INITIAL RELEASE                                      | 7/27/2016 | NWW      |
| REV. | DESCRIPTION                                          | DATE      | DRAWN BY |

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INTERIOR ELEVATION



TOP & BTM MULLION MOUNT DETAIL 12 6 CMU CONDITION  
2-1/4"=1'-0"

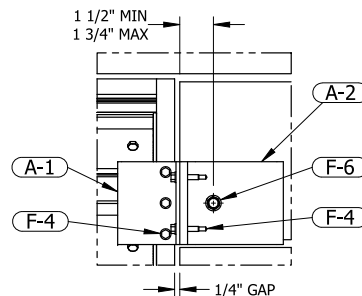
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 23 1215.13

Expiration Date: 10/20/2026

By *[Signature]*

Miami-Dade Product Control

|      |                                                      |           |          |
|------|------------------------------------------------------|-----------|----------|
| 3    | UPDATED LABEL DETAIL                                 | 11/2/2021 | NWW      |
| 2    | ADDED AMCA 550 PERFORMANCE, UPDATED ANCHORAGE DESIGN | 3/17/2021 | NWW      |
| 1    | INITIAL RELEASE                                      | 7/27/2016 | NWW      |
| REV. | DESCRIPTION                                          | DATE      | DRAWN BY |



JAMB MOUNT DETAIL 13 6 CMU CONDITION  
2-1/4"=1'-0"

UNLESS OTHERWISE SPECIFIED  
DIMENSION ARE IN INCHES.

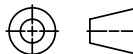
TOLERANCE UNLESS NOTED:

X.X ±0.030  
X.XX ±0.015  
X.XXX ±0.010  
ANGLE ±1°  
FRACTION ±1/16

MAX HOLE BREAKOUT:  
15% OF MATERIAL THICKNESS

5101 Blue Mound Road  
Fort Worth, Texas 76106  
Phone: 817-509-2300  
Fax: 817-831-3110

THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

**POTTORFF**

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-1122.05

Expiration Date 10/20/2026

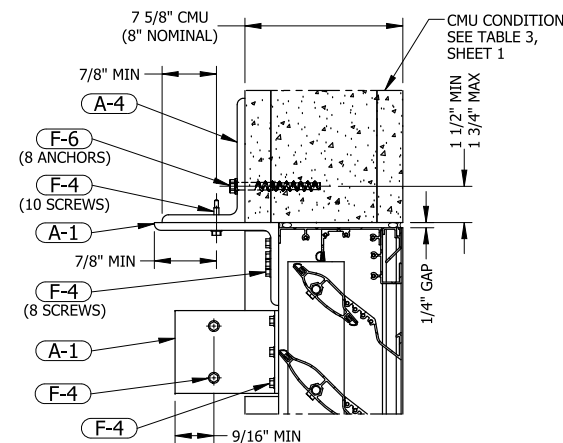
By *[Signature]*  
Miami-Dade Product Control

**RICE**  
ENGINEERING

105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com

Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

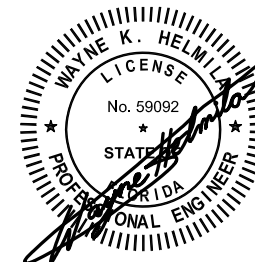
## CMU CONDITION



TOP & BTM MOUNT DETAIL 14 6 CMU CONDITION  
2-1/4"=1'-0"

A-3, A-5, AND ASSOCIATED FASTENERS NOT USED IN  
SINGLE SECTION WIDE ASSEMBLIES

## P.E. STAMP



11/17/2021  
COA: 9090

DRAWING DESCR: CMU CONDITION

PROJECT: EXA-645-MD

LOCATION:

CUSTOMER:

PROJ, MGR:

DATE: 5/3/2016

CHK'D BY: NW

DRAWN BY: LGH

ORDER NUMBER

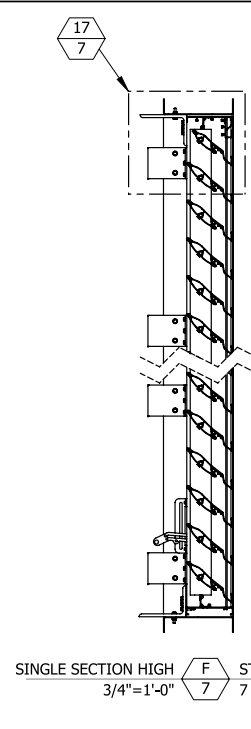
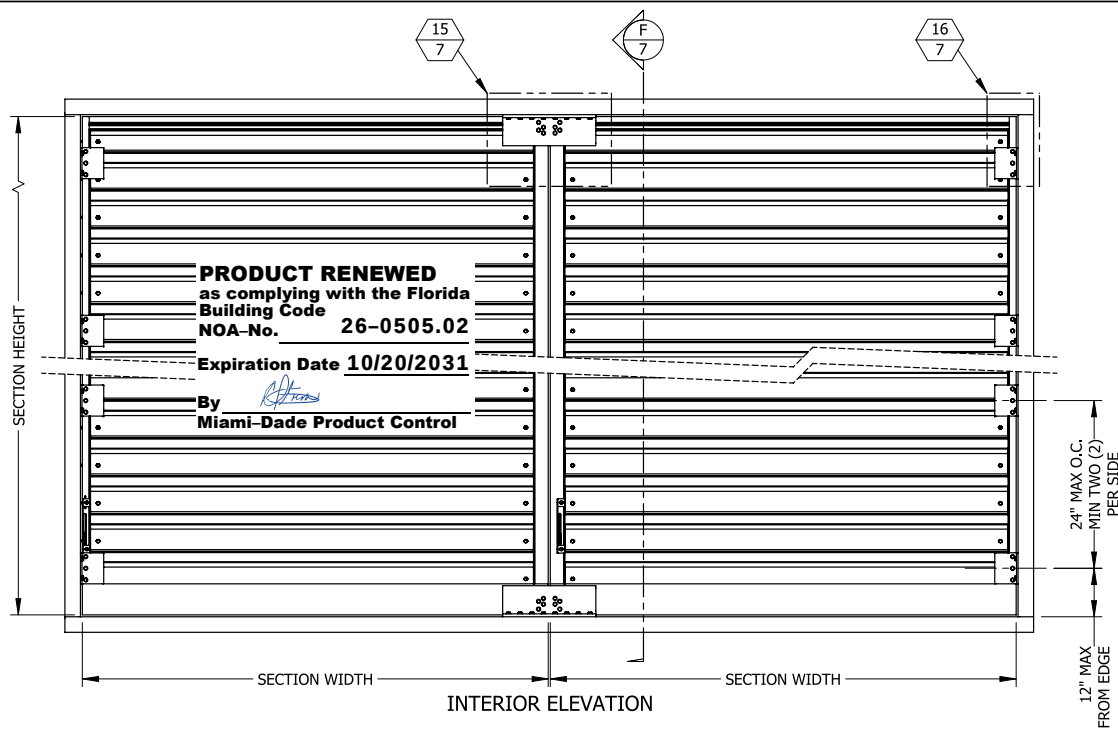
P.O. NUMBER

DRAWING NUMBER

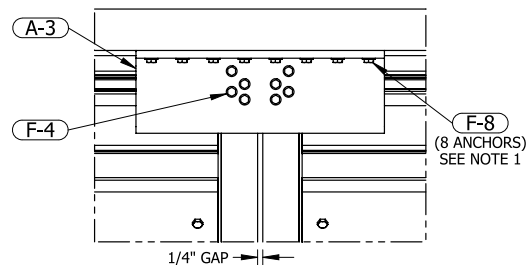
SHEET: 6 of 13

SCALE: 3/4"=1'-0"

EXA-645-MD NOA



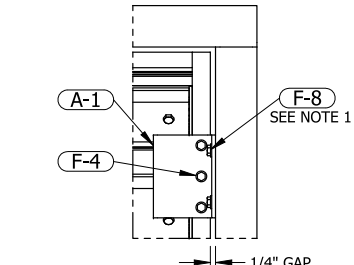
SINGLE SECTION HIGH  $\frac{F}{7}$  STEEL CONDITION  
3/4"=1'-0"



TOP & BTM MULLION MOUNT DETAIL  $\frac{15}{7}$  STEEL CONDITION  
2-1/4"=1'-0"  
THIS DETAIL NOT USED FOR SINGLE SECTION WIDE ASSEMBLIES

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 23-1215.13  
Expiration Date: 10/20/2026  
By *Manuel Fern*  
Miami-Dade Product Control

| 3    | UPDATED LABEL DETAIL                                 | 11/2/2021 | NWW      |
|------|------------------------------------------------------|-----------|----------|
| 2    | ADDED AMCA 550 PERFORMANCE, UPDATED ANCHORAGE DESIGN | 3/17/2021 | NWW      |
| 1    | INITIAL RELEASE                                      | 7/27/2016 | NWW      |
| REV. | DESCRIPTION                                          | DATE      | DRAWN BY |



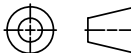
JAMB MOUNT DETAIL  $\frac{16}{7}$  STEEL CONDITION  
2-1/4"=1'-0"

UNLESS OTHERWISE SPECIFIED  
DIMENSION ARE IN INCHES.  
TOLERANCE UNLESS NOTED:  
X.X ±0.030  
X.XX ±0.015  
X.XXX ±0.010  
ANGLE ±1°  
FRACTION ±1/16

MAX HOLE BREAKOUT:  
15% OF MATERIAL THICKNESS

5101 Blue Mound Road  
Fort Worth, Texas 76106  
Phone: 817-509-2300  
Fax: 817-831-3110

THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

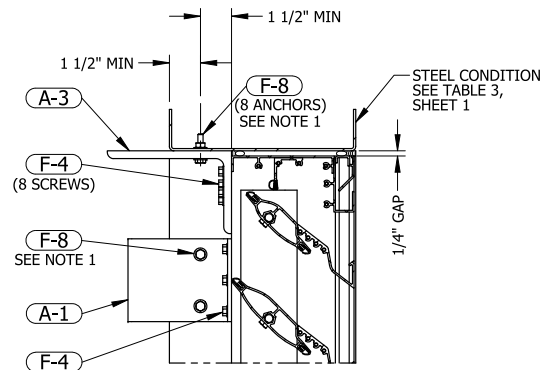
**POTTORFF**

**RICE**  
ENGINEERING

105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com  
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmika  
Registration No: 59092

NOTES:  
1. FOR MIN. 3/16"-THICK STRUCTURAL STEEL CONDITIONS, IT IS  
ACCEPTABLE TO SUBSTITUTE 1/4-14 X 1" SELF-DRILLING SCREWS  
(F-10) IN PLACE OF 1/4" BOLTED CONNECTIONS (F-8).

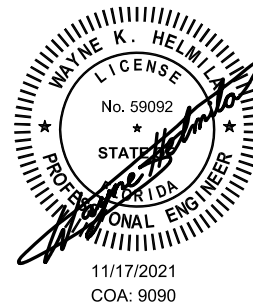
## STEEL CONDITION



TOP & BTM MOUNT DETAIL  $\frac{17}{7}$  STEEL CONDITION  
2-1/4"=1'-0"

A-3 AND ASSOCIATED FASTENERS NOT USED IN  
SINGLE SECTION WIDE ASSEMBLIES

## P.E. STAMP



DRAWING DESCR: STEEL CONDITION

PROJECT: EXA-645-MD

LOCATION:

CUSTOMER:

PROJ, MGR:

DATE: 5/3/2016

CHK'D BY: NW

DRAWN BY: LGH

ORDER NUMBER

P.O. NUMBER

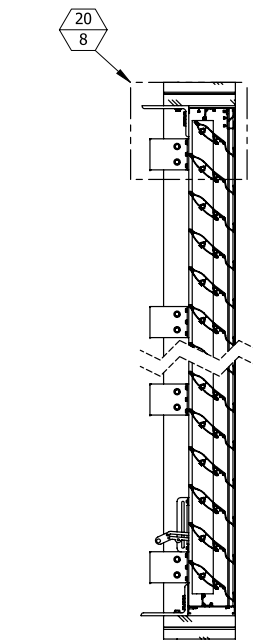
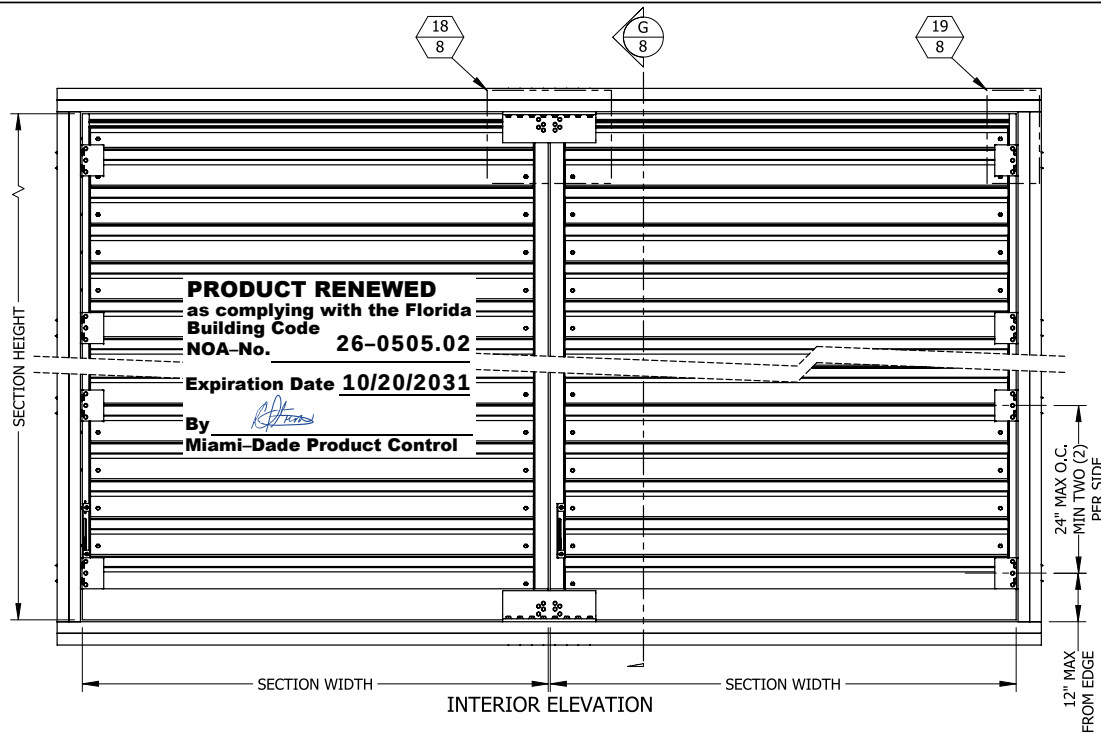
DRAWING NUMBER

SHEET: 7 of 13

SCALE: 3/4"=1'-0"

EXA-645-MD NOA

C:\Users\woodworth\Desktop\Miami-Dade Updates (2020)\EXA-645-MD\EXA-645-MD NOA Drawings (Rev 2)



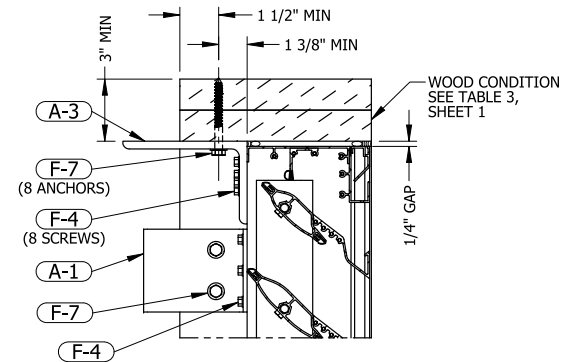
SINGLE SECTION HIGH  $\frac{20}{8}$  WOOD CONDITION  
3/4"=1'-0"

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. **23 1215.13**  
Expiration Date: **10/20/2026**  
By *Manuel Soria*  
Miami-Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. **21-1122.05**  
Expiration Date **10/20/2026**  
By *Manuel Soria*  
Miami-Dade Product Control

**RICE**  
ENGINEERING  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com  
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

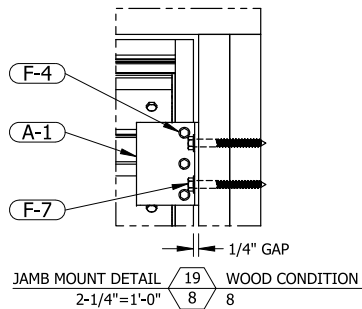
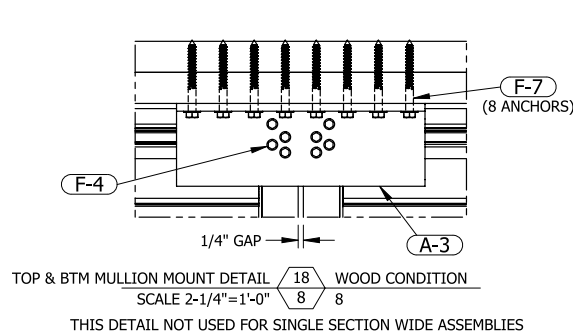
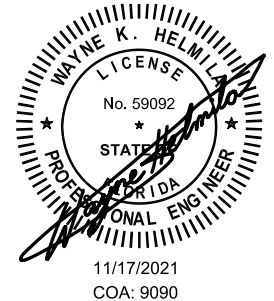
## WOOD CONDITION



TOP & BTM MOUNT DETAIL  $\frac{20}{8}$  WOOD CONDITION  
2-1/4"=1'-0"

A-3 AND ASSOCIATED FASTENERS NOT USED IN  
SINGLE SECTION WIDE ASSEMBLIES

## P.E. STAMP

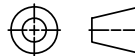


UNLESS OTHERWISE SPECIFIED  
DIMENSION ARE IN INCHES.  
TOLERANCE UNLESS NOTED:  
X.X ±0.030  
X.XX ±0.015  
X.XXX ±0.010  
ANGLE ±1°  
FRACTION ±1/16

MAX HOLE BREAKOUT:  
15% OF MATERIAL THICKNESS

5101 Blue Mound Road  
Fort Worth, Texas 76106  
Phone: 817-509-2300  
Fax: 817-831-3110

THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

**POTTORFF**

DRAWING DESCR: WOOD CONDITION

PROJECT: EXA-645-MD

LOCATION:

CUSTOMER:

PROJ, MGR:

DATE: 5/3/2016

CHK'D BY: NW

DRAWN BY: LGH

ORDER NUMBER

P.O. NUMBER

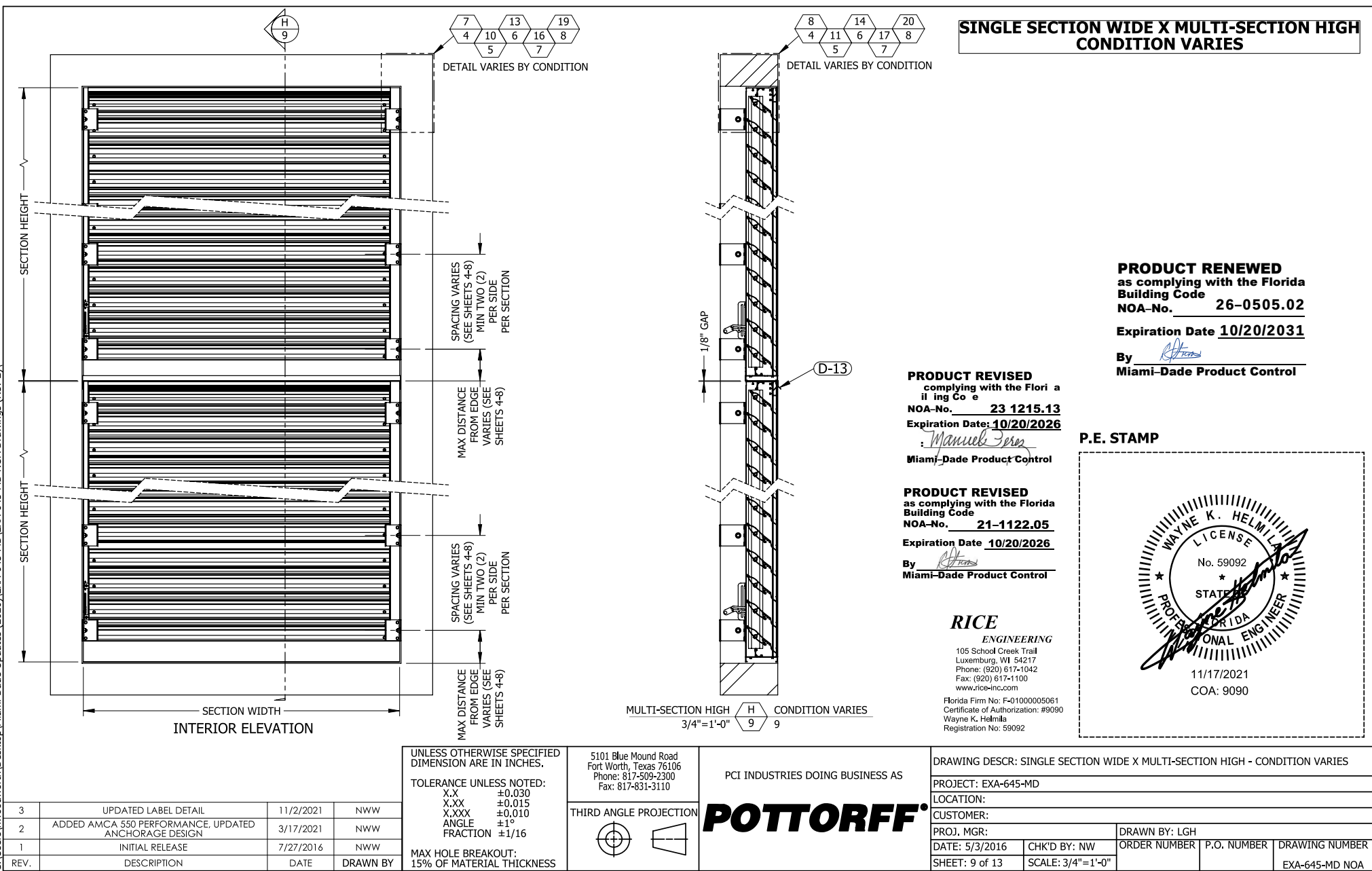
DRAWING NUMBER

SHEET: 8 of 13

SCALE: 3/4"=1'-0"

EXA-645-MD NOA

|      |                                                      |           |          |
|------|------------------------------------------------------|-----------|----------|
| 3    | UPDATED LABEL DETAIL                                 | 11/2/2021 | NWW      |
| 2    | ADDED AMCA 550 PERFORMANCE, UPDATED ANCHORAGE DESIGN | 3/17/2021 | NWW      |
| 1    | INITIAL RELEASE                                      | 7/27/2016 | NWW      |
| REV. | DESCRIPTION                                          | DATE      | DRAWN BY |



**SINGLE SECTION WIDE X MULTI-SECTION HIGH  
CONDITION VARIES**

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. 26-0505.02

**Expiration Date** 10/20/2031

By   
Miami-Dade Product Control

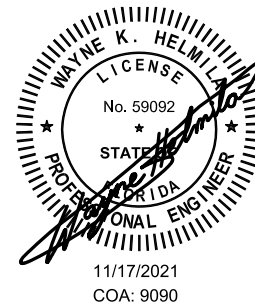
**PRODUCT REVISED**  
complying with the Florida  
Oil and Gas Code  
NOA-No. 23 1215.13  
Expiration Date: **10/20/2026**  
: Manuel Perez  
**Miami-Dade Product Control**

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 21-1122.05  
Expiration Date 10/20/2026  
By   
Miami-Dade Product Control

**RICE**  
**ENGINEERING**  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com

Florida Firm No: F-0100000506  
Certificate of Authorization: #90  
Wayne K. Helmila  
Registration No: 59092

**P.E. STAMP**



11/17/2021  
COA: 9090

DRAWING DESCR: SINGLE SECTION WIDE X MULTI-SECTION HIGH - CONDITION VARIES

PROJECT: EXA-645-MD

LOCATION:

CUSTOMER:

|            |  |
|------------|--|
| PROJ. MGR: |  |
|------------|--|

DATE: 5/3/2016

DRAWN BY: LGH

|              |
|--------------|
| ORDER NUMBER |
|--------------|

|            |
|------------|
| P.O. NUMBE |
|------------|

|   |                |
|---|----------------|
| R | DRAWING NUMBER |
|---|----------------|

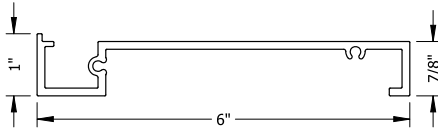
SHEET: 9 of 13

SCALE: 3/4"=1'-0"

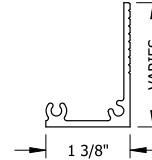
FXA-645-MD NOA

# BILL OF MATERIALS

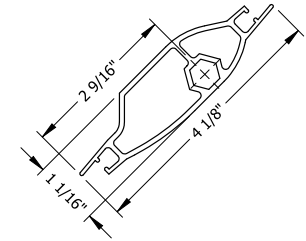
PART NO: E-1  
PART NAME: FRAME JAMB, STANDARD  
MATERIAL: MINIMUM 0.125" THICK 6063-T5 EXTRUDED ALUMINUM  
SCALE: 6"=1'-0"



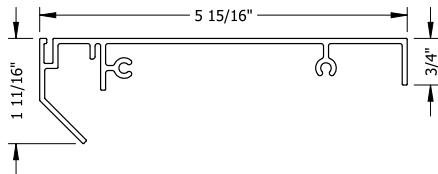
PART NO: E-5  
PART NAME: BLADE STOP  
MATERIAL: MINIMUM 0.100" THICK 6063-T5 EXTRUDED ALUMINUM  
SCALE: 6"=1'-0"



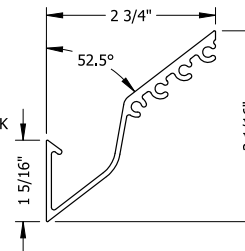
PART NO: E-8  
PART NAME: OPERABLE REAR HALF-BLADE  
MATERIAL: MINIMUM 0.081" THICK 6063-T5 EXTRUDED ALUMINUM  
SCALE: 6"=1'-0"



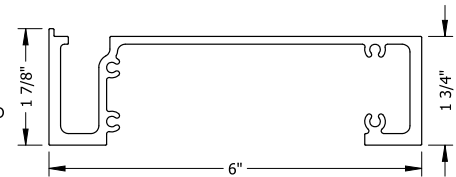
PART NO: E-2  
PART NAME: FRAME HEAD  
MATERIAL: MINIMUM 0.081" THICK 6063-T5 EXTRUDED ALUMINUM  
SCALE: 6"=1'-0"



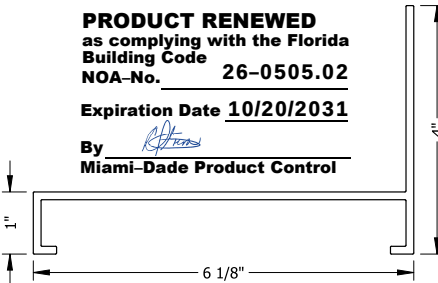
PART NO: E-6  
PART NAME: FIXED FRONT BLADE  
MATERIAL: MINIMUM 0.081" THICK 6063-T6 EXTRUDED ALUMINUM  
SCALE: 6"=1'-0"



PART NO: E-9  
PART NAME: FRAME JAMB, MULLION  
MATERIAL: MIN. 0.125" THICK 6005-T6 EXTRUDED ALUMINUM  
SCALE: 6"=1'-0"

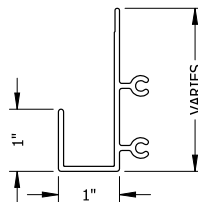


PART NO: E-3  
PART NAME: FRAME SILL  
MATERIAL: MINIMUM 0.125" THICK 6063-T6 EXTRUDED ALUMINUM  
SCALE: 6"=1'-0"



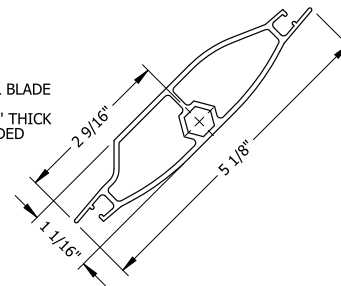
**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. **26-0505.02**  
Expiration Date **10/20/2031**  
By *[Signature]*  
**Miami-Dade Product Control**

PART NO: E-4  
PART NAME: RAIN DRIP  
MATERIAL: MINIMUM 0.081" THICK 6063-T5 EXTRUDED ALUMINUM  
SCALE: 6"=1'-0"



**PRODUCT REVISED**  
complying with the Florida  
Building Code  
NOA-No. **23 1215.13**  
Expiration Date: **10/20/2026**  
By *[Signature]*  
**Miami-Dade Product Control**

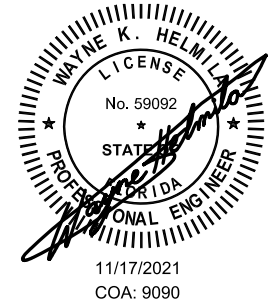
PART NO: E-7  
PART NAME: OPERABLE REAR BLADE  
MATERIAL: MINIMUM 0.081" THICK 6063-T5 EXTRUDED ALUMINUM  
SCALE: 6"=1'-0"



## P.E. STAMP

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **21-1122.05**  
Expiration Date **10/20/2026**  
By *[Signature]*  
**Miami-Dade Product Control**

**RICE**  
ENGINEERING  
105 School Creek Trail  
Luxemburg, WI 54217  
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Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

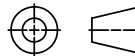


UNLESS OTHERWISE SPECIFIED  
DIMENSION ARE IN INCHES.  
TOLERANCE UNLESS NOTED:  
X.X ±0.030  
X.XX ±0.015  
X.XXX ±0.010  
ANGLE ±1°  
FRACTION ±1/16

MAX HOLE BREAKOUT:  
15% OF MATERIAL THICKNESS

5101 Blue Mound Road  
Fort Worth, Texas 76106  
Phone: 817-509-2300  
Fax: 817-831-3110

THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

**POTTORFF**

DRAWING DESCR: BILL OF MATERIALS

PROJECT: EXA-645-MD

LOCATION:

CUSTOMER:

PROJ, MGR:

DATE: 5/3/2016

SHEET: 10 of 13

CHK'D BY: NW

SCALE: AS NOTED

DRAWN BY: LGH

ORDER NUMBER

P.O. NUMBER

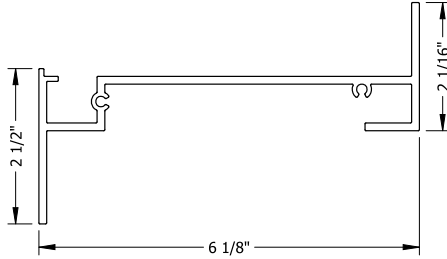
DRAWING NUMBER

EXA-645-MD NOA

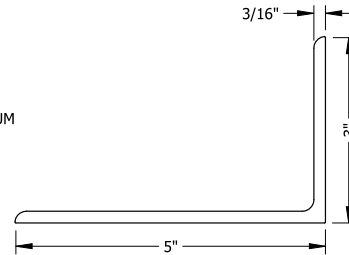
|      |                                                      |           |          |
|------|------------------------------------------------------|-----------|----------|
| 3    | UPDATED LABEL DETAIL                                 | 11/2/2021 | NWW      |
| 2    | ADDED AMCA 550 PERFORMANCE, UPDATED ANCHORAGE DESIGN | 3/17/2021 | NWW      |
| 1    | INITIAL RELEASE                                      | 7/27/2016 | NWW      |
| REV. | DESCRIPTION                                          | DATE      | DRAWN BY |

C:\Users\woodworth\Desktop\Miami-Dade Updates (2020)\EXA-645-MD\EXA-645-MD NOA Drawings (Rev 2)

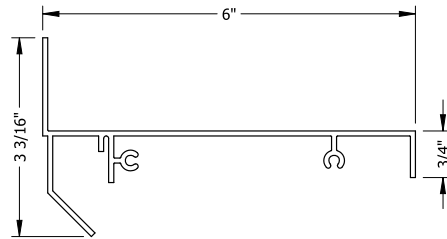
PART NO: E-10  
PART NAME: FRAME JAMB,  
FLANGED  
MATERIAL: MINIMUM 0.125" THICK  
6063-T5 EXTRUDED  
ALUMINUM  
SCALE: 6"=1'-0"



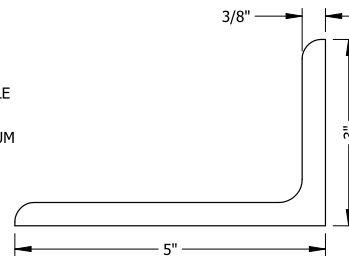
PART NO: A-1  
PART NAME: JAMB CLIP ANGLE  
MATERIAL: 5" X 3" X 3/16" X 4" LONG  
6063-T6 EXTRUDED ALUMINUM  
SCALE: 6"=1'-0"



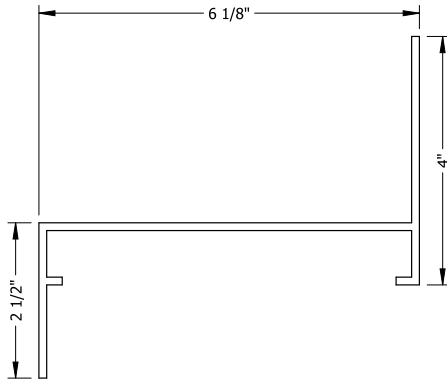
PART NO: E-11  
PART NAME: FRAME HEAD,  
FLANGED  
MATERIAL: MINIMUM 0.081" THICK  
6063-T5 EXTRUDED  
ALUMINUM  
SCALE: 6"=1'-0"



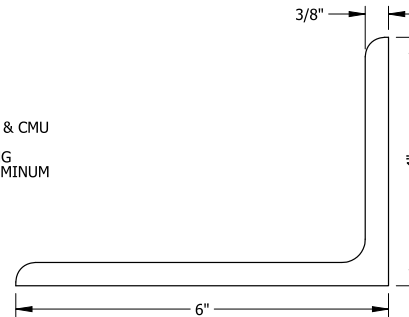
PART NO: A-2  
PART NAME: SECONDARY JAMB CLIP ANGLE  
MATERIAL: 5" X 3" X 3/8" X 4" LONG  
6061-T6 EXTRUDED ALUMINUM  
SCALE: 6"=1'-0"



PART NO: E-12  
PART NAME: FRAME SILL,  
FLANGED  
MATERIAL: MINIMUM 0.125" THICK  
6063-T6 EXTRUDED  
ALUMINUM  
SCALE: 6"=1'-0"



PART NO: A-4  
PART NAME: SECONDARY MULLION  
CLIP ANGLE, CONCRETE & CMU  
MATERIAL: 6" X 4" X 3/8" X 30" LONG  
6061-T6 EXTRUDED ALUMINUM  
SCALE: 6"=1'-0"



## BILL OF MATERIALS

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
NOA-No. **26-0505.02**

Expiration Date **10/20/2031**

By *[Signature]*  
Miami-Dade Product Control

**PRODUCT REVISED**  
complying with the Flori a  
il ing Co e  
NOA-No. **23 1215.13**  
Expiration Date: **10/20/2026**

: *Manuel Perez*  
Miami-Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **21-1122.05**

Expiration Date **10/20/2026**

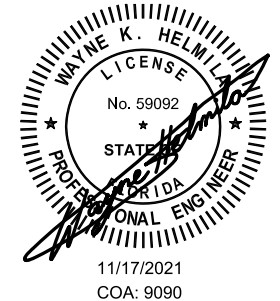
By *[Signature]*  
Miami-Dade Product Control

**RICE**  
ENGINEERING

105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com

Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

## P.E. STAMP



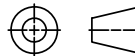
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15% OF MATERIAL THICKNESS

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THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

**POTTORFF**

DRAWING DESCR: BILL OF MATERIALS

PROJECT: EXA-645-MD

LOCATION:

CUSTOMER:

PROJ, MGR:

DATE: 5/3/2016

CHK'D BY: NW

DRAWN BY: LGH

ORDER NUMBER

P.O. NUMBER

DRAWING NUMBER

SHEET: 11 of 13

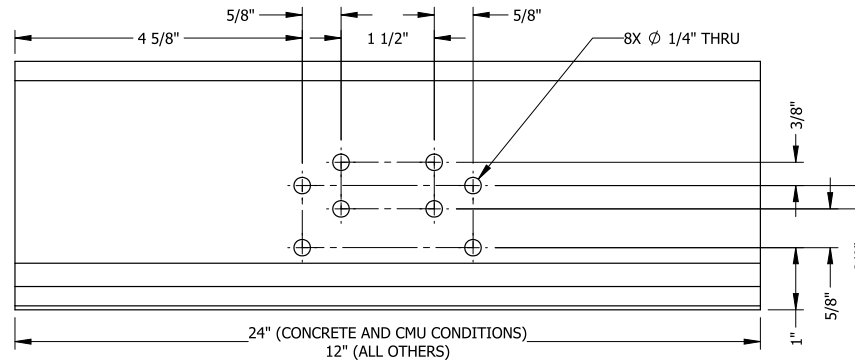
SCALE: AS NOTED

EXA-645-MD NOA

|      |                                                      |           |          |
|------|------------------------------------------------------|-----------|----------|
| 3    | UPDATED LABEL DETAIL                                 | 11/2/2021 | NWW      |
| 2    | ADDED AMCA 550 PERFORMANCE, UPDATED ANCHORAGE DESIGN | 3/17/2021 | NWW      |
| 1    | INITIAL RELEASE                                      | 7/27/2016 | NWW      |
| REV. | DESCRIPTION                                          | DATE      | DRAWN BY |

**BILL OF MATERIALS**

PART NO: A-3  
PART NAME: MULLION CLIP ANGLE  
MATERIAL: 6" X 4" X 3/8"  
6061-T6 EXTRUDED ALUMINUM  
SCALE: 6"=1'-0"



**PRODUCT REVISED**  
complying with the Florida Building Code  
NOA-No. **23-1215.13**  
Expiration Date: **10/20/2026**

By *Manuel Perez*  
Miami-Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. **21-1122.05**  
Expiration Date: **10/20/2026**

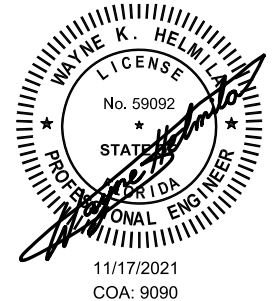
By *Manuel Perez*  
Miami-Dade Product Control

**PRODUCT RENEWED**  
as complying with the Florida Building Code  
NOA-No. **26-0505.02**

Expiration Date **10/20/2031**

By *Manuel Perez*  
Miami-Dade Product Control

**P.E. STAMP**



11/17/2021  
COA: 9090

**RICE**  
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Wayne K. Helmla  
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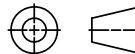
NOTE: ALL INSTALLATION FASTENERS AND ANCHORS SHALL BE OF CORROSION-RESISTANT STEEL (STAINLESS OR HOT-DIP GALVANIZED)

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DRAWING DESCR: BILL OF MATERIALS

PROJECT: EXA-645-MD

LOCATION:

CUSTOMER:

PROJ, MGR:

DATE: 5/3/2016

CHK'D BY: NW

DRAWN BY: LGH

ORDER NUMBER

P.O. NUMBER

DRAWING NUMBER

SHEET: 12 of 13

SCALE: AS NOTED

EXA-645-MD NOA

|      |                                                      |           |          |
|------|------------------------------------------------------|-----------|----------|
| 3    | UPDATED LABEL DETAIL                                 | 11/2/2021 | NWW      |
| 2    | ADDED AMCA 550 PERFORMANCE, UPDATED ANCHORAGE DESIGN | 3/17/2021 | NWW      |
| 1    | INITIAL RELEASE                                      | 7/27/2016 | NWW      |
| REV. | DESCRIPTION                                          | DATE      | DRAWN BY |

# BILL OF MATERIALS

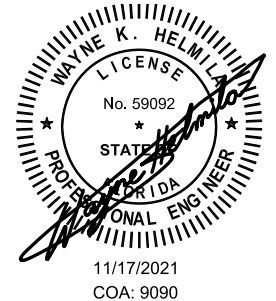
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Building Code  
NOA-No. **26-0505.02**  
Expiration Date **10/20/2031**  
By *[Signature]*  
**Miami-Dade Product Control**

**PRODUCT REVISED**  
as complying with the Flori a  
il ing Co e  
NOA-No. **23 1215.13**  
Expiration Date: **10/20/2026**  
*[Signature]*  
**Miami-Dade Product Control**

**PRODUCT REVISED**  
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NOA-No. **21-1122.05**  
Expiration Date **10/20/2026**  
By *[Signature]*  
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Florida Firm No: F-0100005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

## P.E. STAMP



| MISCELLANEOUS FASTENERS |                                                                              |
|-------------------------|------------------------------------------------------------------------------|
| PART NO                 | DESCRIPTION                                                                  |
| F-1                     | #10-24 X 3/4" LONG, HWH, 410 SST, "F" POINT MACHINE SCREW                    |
| F-2                     | BOLT, HEX HEAD, 1/4-20 UNC X 1/2" LONG, 18-8 SST                             |
| F-3                     | #10-16 x 3" LONG, HWH, 410 SST, SELF DRILLING TEK MACHINE SCREW              |
| F-4                     | 1/4-14 X 1-1/2" LONG, HWH, SELF-DRILLING TEK MACHINE SCREW, 300-SERIES SST   |
| F-5                     | 1/2" X 5" DEWALT SCREW-BOLT+, GALV. FINISH                                   |
| F-6                     | 3/8" X 4" DEWALT SCREW-BOLT+, GALV. FINISH                                   |
| F-7                     | 3/8" X 3-1/2" LAG BOLT W/FLAT WASHER, 300-SERIES SST                         |
| F-8                     | 1/4-20 X 1-1/4" LONG HEX BOLT, NUT, AND TWO (2) FLAT WASHERS, 300-SERIES SST |
| F-9                     | 5/8" X 6" DEWALT SCREW-BOLT+, GALV. FINISH                                   |
| F-10                    | 1/4-14 X 1" LONG SELF-DRILLING SCREW, 300-SERIES SST                         |

| MISC. DAMPER PARTS |                                     |                    |
|--------------------|-------------------------------------|--------------------|
| PART NO            | DESCRIPTION                         | MATERIAL           |
| D-1                | BUSHING, 9/16" OD X 1/2" ID X 5/16" | THERMOPLASTIC      |
| D-2                | HEX AXLE                            | STEEL, ZINC PLATED |
| D-3                | SEAL, JAMB                          | 304 SST            |
| D-4                | PARALLEL CAM ASSEMBLY               | STEEL, ZINC PLATED |
| D-5                | OPERABLE AIRFOIL BLADE SEAL         | THERMOPLASTIC      |
| D-6                | OPERABLE LOUVER STOP SEAL           | THERMOPLASTIC      |
| D-7                | BAR, LINK, 4.875" SPACING           | STEEL, ZINC PLATED |
| D-8                | OPERABLE LOUVER HANDLE              | GALVANIZED STEEL   |
| D-9                | E-RING, 1/4"                        | ZINC PLATED STEEL  |
| D-10               | E-RING, 1/2"                        | ZINC PLATED STEEL  |
| D-11               | OPERABLE LOUVER BRACKET             | GALVANIZED STEEL   |
| D-12               | SCREW, 12-14 X 3/4, HWH, TEK        | 410 SST            |
| D-13               | HEAD / SILL FLASHING                | 5052-H32           |

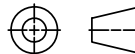
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SHEET: 13 of 13

SCALE: AS NOTED

EXA-645-MD NOA

|      |                                                      |           |          |
|------|------------------------------------------------------|-----------|----------|
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| REV. | DESCRIPTION                                          | DATE      | DRAWN BY |