



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

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 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: 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.

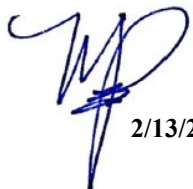
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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 **revises NOA No. 21-1122.05** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**




2/13/24

NOA No. 23-1215.13
Expiration Date: October 20, 2026
Approval Date: February 22, 2024
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

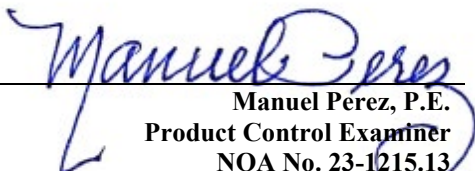
1. EXA-645-MD louver anchor calculations dated 12/16/20, prepared by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.
(Submitted under NOA No. 21-0318.02)

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 23-1215.13
Expiration Date: October 20, 2026
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED


1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 7th 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)
2. 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)
3. 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)
4. 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)
5. 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)

G. OTHERS

1. Notice of Acceptance No. **21-0318.02**, issued to PCI Industries, LLC d/b/a Pottorff for their Model EXA - 645-MD Aluminum Louver, approved on 07/22/21 and expiring on 10/20/26.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 23-1215.13
Expiration Date: October 20, 2026
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. None.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS


1. None.

F. STATEMENTS

1. Statement letter of conformance, complying with **FBC 8th Edition (2023)**, issued by Rice Engineering, dated 11/28/23, signed and sealed by Wayne K. Helmila, P.E.

G. OTHERS

1. Notice of Acceptance No. **21-1122.05**, issued to PCI Industries, LLC d/b/a Pottorff for their Model EXA - 645-MD Aluminum Louver, approved on 01/20/22 and expiring on 10/20/26.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 23-1215.13
Expiration Date: October 20, 2026
Approval Date: February 22, 2024

C:\Users\woodworth\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.

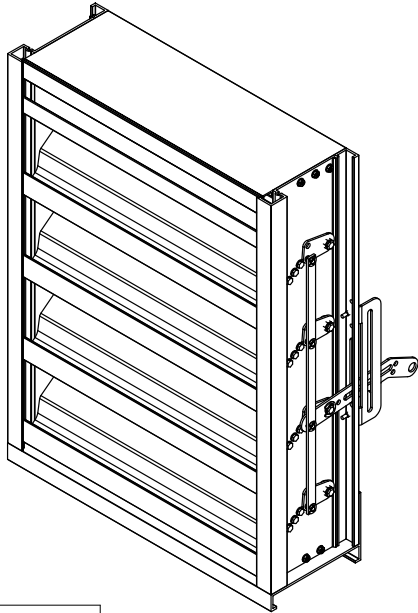


TABLE 1		
SINGLE SECTION SIZE LIMITATIONS		
MAX DESIGN PRESSURE	MIN (W X H)	MAX (W X H)
±120 PSF	12" X 12"	60" X 120"

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

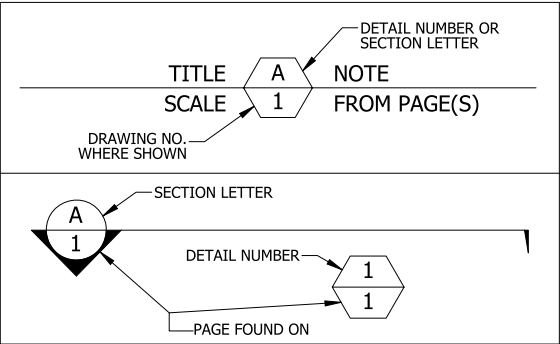


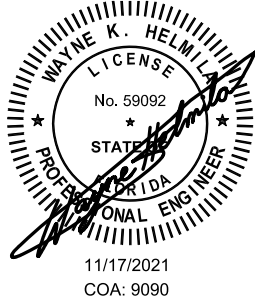
TABLE 3					
ANCHOR SCHEDULE					
SUBSTRATE	LOCATION	ANCHOR TYPE	MIN. EMBEDMENT	EDGE DISTANCE	SPACING
CONCRETE (F _c ≥ 3500 PSI)	JAMBS (SHEAR)	1/2" X 5" DEWALT SCREW-BOLT+ (F-5)	4 1/4"	2 1/4" MIN.	20"
	JAMBS (TENSION)	1/2" X 5" DEWALT SCREW-BOLT+ (F-5)	4 1/4"	1 3/4" MIN. 2 1/2" MAX.	20"
	MULLIONS (SHEAR)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

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

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

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. 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: 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

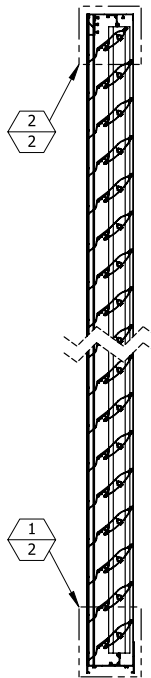
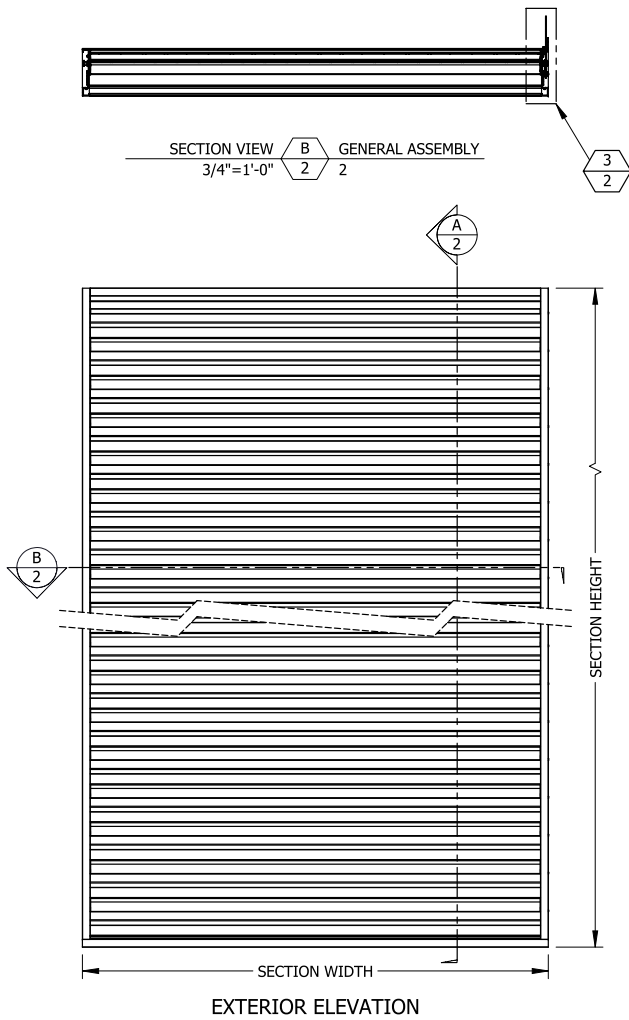
SHEET: 1 of 13

SCALE: NONE

EXA-645-MD NOA

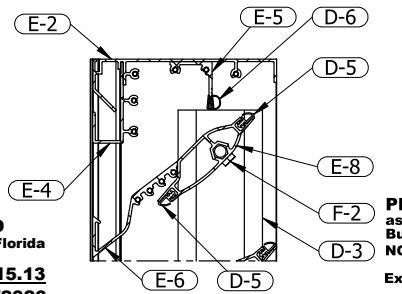
3	UPDATED LABEL DETAIL	11/2/2021	NWW
2	ADDED AMCA 550 PERFORMANCE, UPDATED ANCHORAGE DESIGN	3/17/2021	NWW
1	INITIAL RELEASE	7/27/2016	NWW
REV.	DESCRIPTION	DATE	DRAWN BY

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

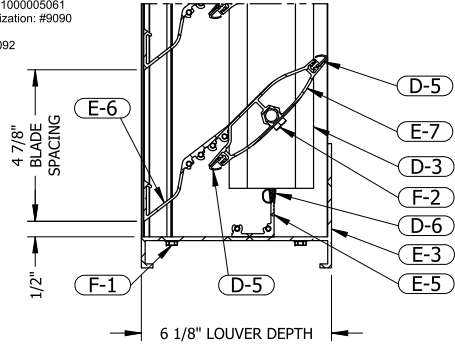


PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **23-1215.13**
Expiration Date: **10/20/2026**
By: *Manuel Fern*
Miami-Dade Product Control

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

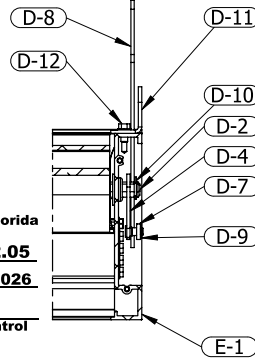


IN FLANGED CONFIGURATIONS:
E-11 WILL BE USED IN PLACE OF E-2



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

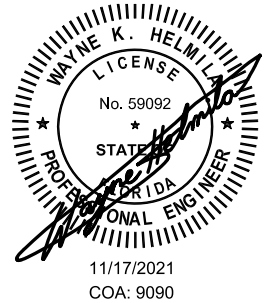
GENERAL LOUVER ASSEMBLY



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

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

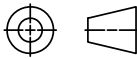


UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES.
TOLERANCE UNLESS NOTED:
X.X ±0.030
X.XX ±0.015
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

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: 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

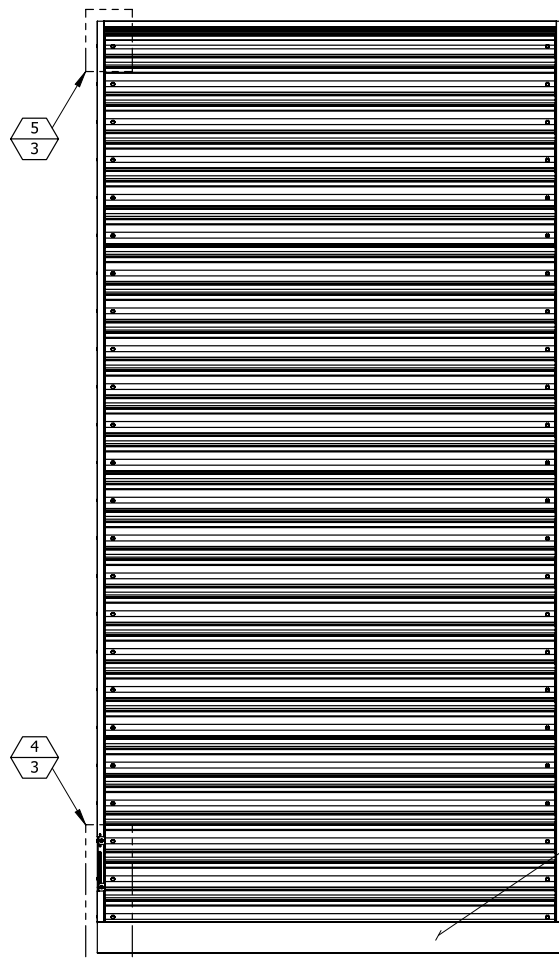
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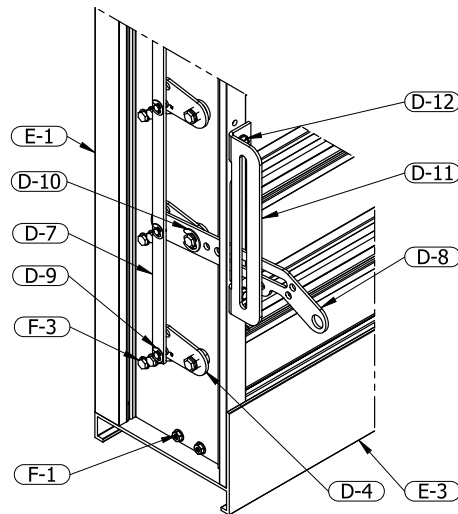
EXA-645-MD NOA

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 4 3
3"=1'-0"

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

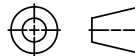
Miami Dade County
Product Control
Approved

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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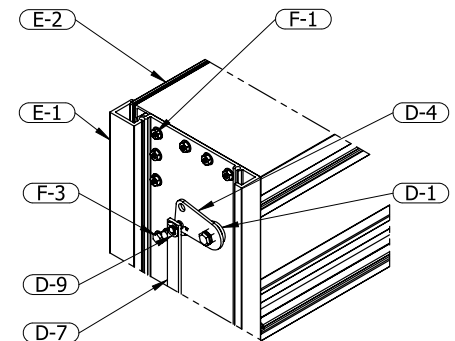
THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

POTTORFF

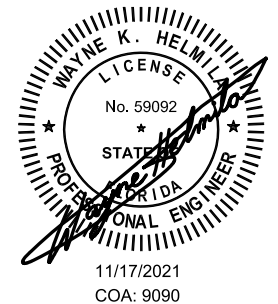
GENERAL LOUVER ASSEMBLY



CONSTRUCTION 5 3
3"=1'-0"

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

P.E. STAMP



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By: *Manuel Fern*
Miami-Dade Product Control

PRODUCT REVISED
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NOA-No. **21-1122.05**
Expiration Date: **10/20/2026**
By: *Rice*
Miami-Dade Product Control

RICE
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105 School Creek Trail
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Wayne K. Helmli
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DRAWING DESCR: GENERAL LOUVER ASSEMBLY

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

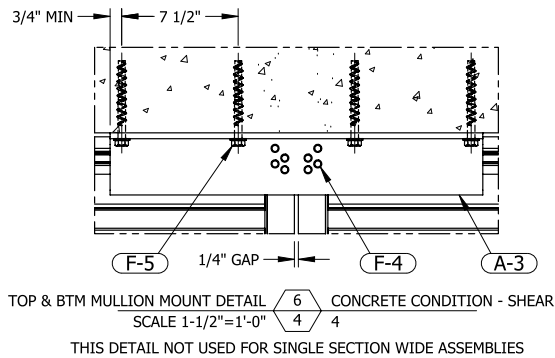
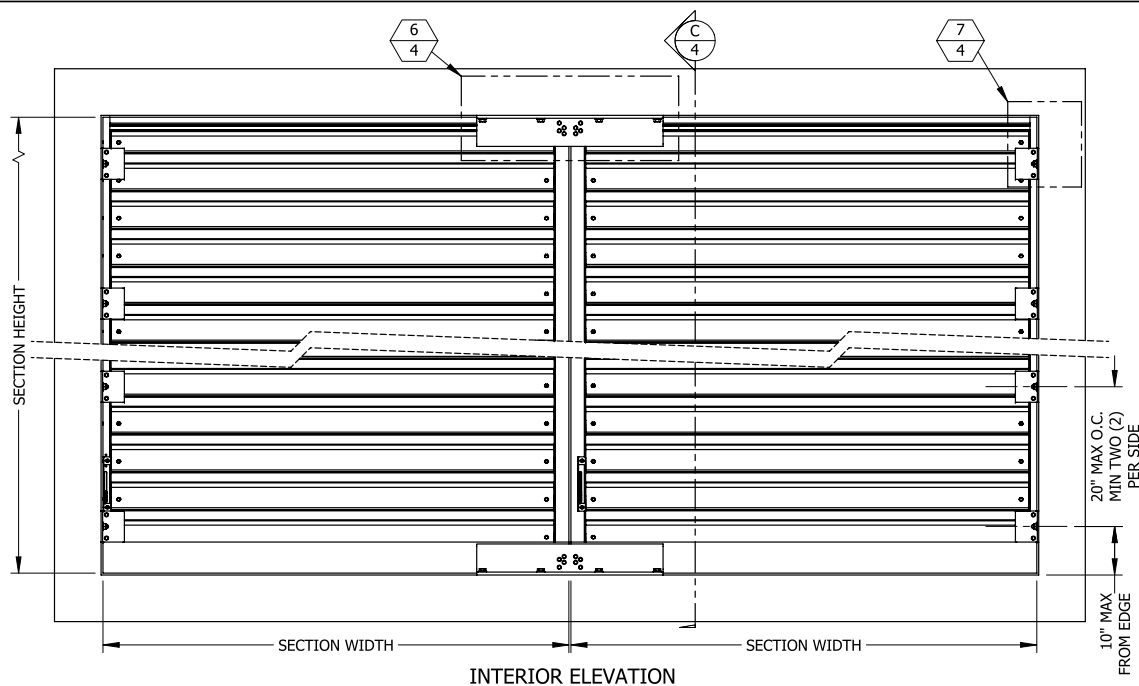
SHEET: 3 of 13

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

EXA-645-MD NOA

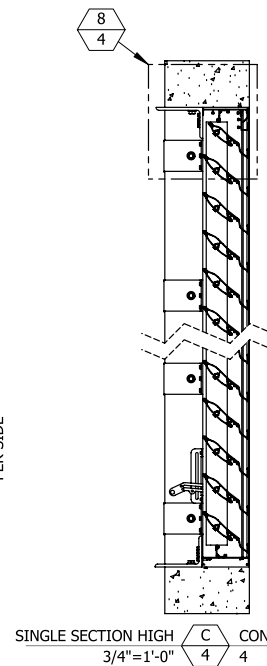
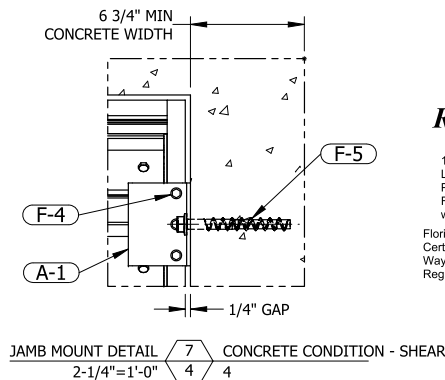
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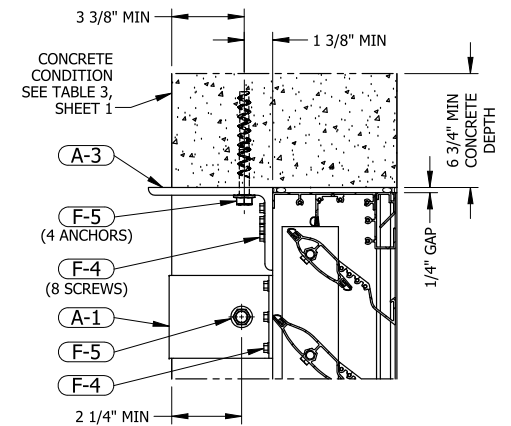


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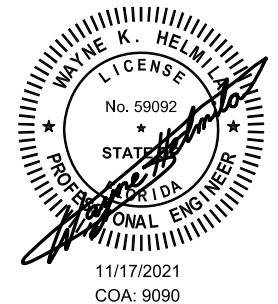
CONCRETE CONDITION - SHEAR



TOP & BTM MOUNT DETAIL **8/4** CONCRETE CONDITION - SHEAR
2-1/4"=1'-0"

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

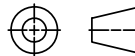
3	UPDATED LABEL DETAIL	11/2/2021	NWW
2	ADDED AMCA 550 PERFORMANCE, UPDATED ANCHORAGE DESIGN	3/17/2021	NWW
1	INITIAL RELEASE	7/27/2016	NWW
REV.	DESCRIPTION	DATE	DRAWN BY

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

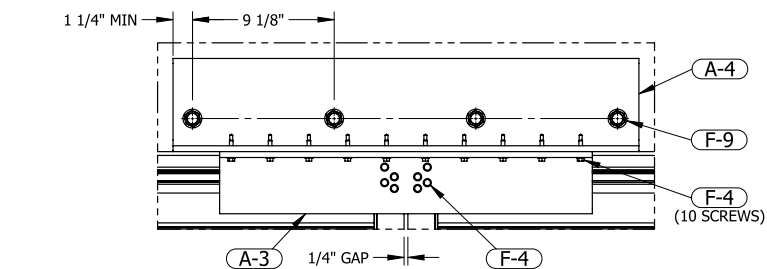
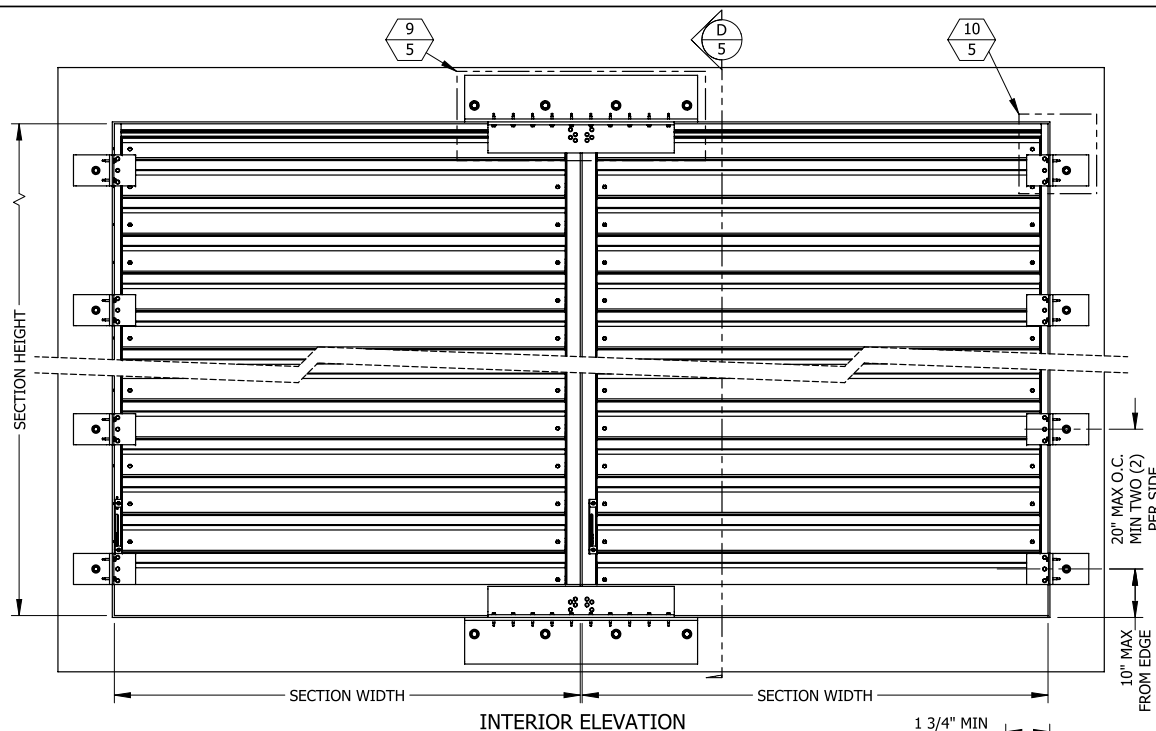
DRAWING NUMBER

SHEET: 4 of 13

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

EXA-645-MD NOA

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



TOP & BTM MULLION MOUNT DETAIL 9 5 CONCRETE CONDITION - TENSION
SCALE 1-1/2"=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 Jara*
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

UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES.

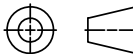
TOLERANCE UNLESS NOTED:

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

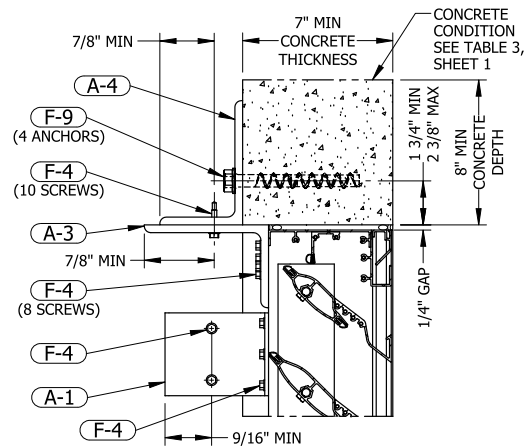
POTTORFF

SINGLE SECTION HIGH D 5 CONCRETE COND. - TENSION
SCALE 3/4"=1'-0"

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

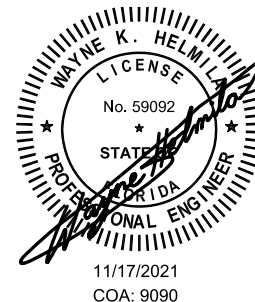
CONCRETE CONDITION - TENSION



TOP & BTM MOUNT DETAIL 11 5 CONCRETE CONDITION - TENSION
SCALE 2-1/4"=1'-0"

A-3, A-4, AND ASSOCIATED FASTENERS NOT USED IN
SINGLE SECTION WIDE ASSEMBLIES

P.E. STAMP



DRAWING DESCR: CONCRETE CONDITION - TENSION

PROJECT: EXA-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 5/3/2016

SHEET: 5 of 13

DRAWN BY: LGH

CHK'D BY: NW

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

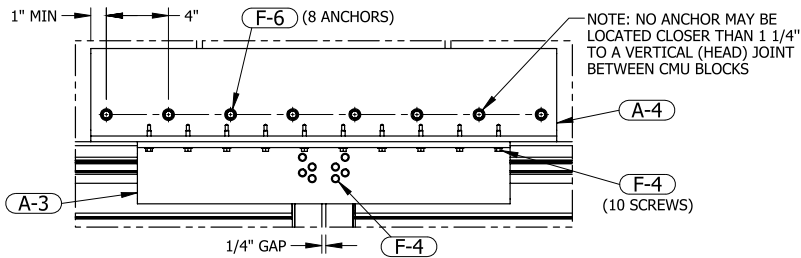
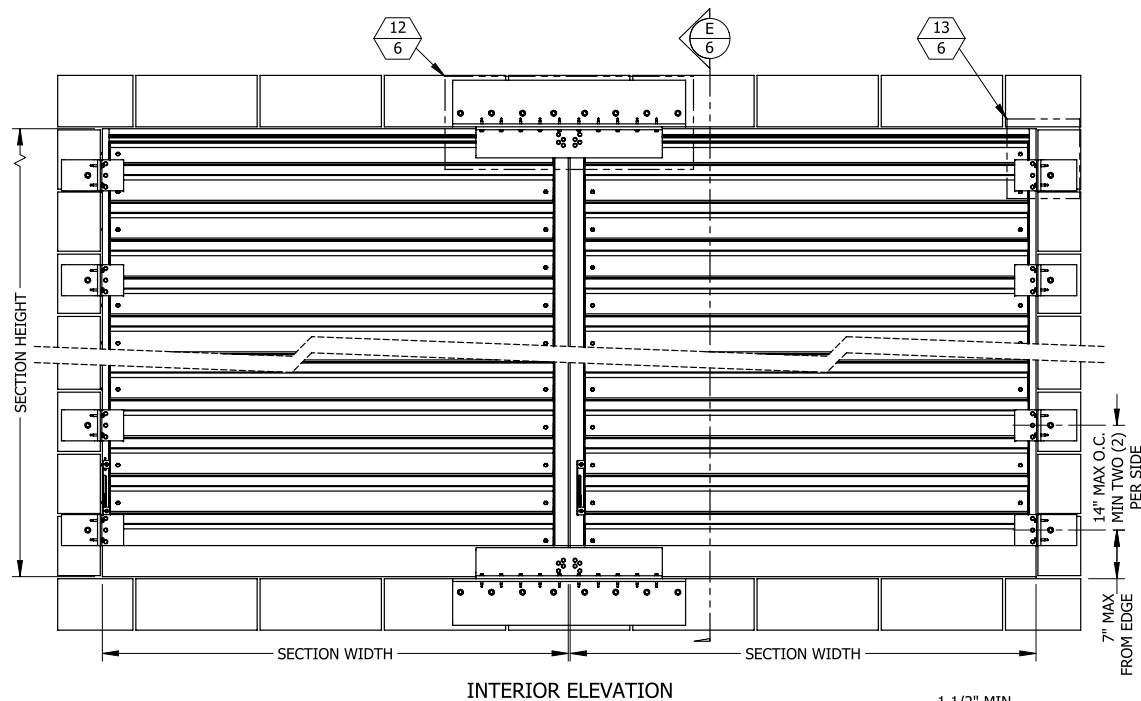
ORDER NUMBER

P.O. NUMBER

DRAWING NUMBER

EXA-645-MD NOA

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TOP & BTM MULLION MOUNT DETAIL $\frac{12}{6}$ CMU CONDITION
2-1/4"=1'-0"

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

By: *Manuel Jara*
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

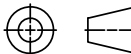
UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES.

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
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Fax: 817-831-3110

THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

POTTORFF

SINGLE SECTION HIGH $\frac{E}{6}$ CMU CONDITION
3/4"=1'-0"

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

By: *Rice*
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

DRAWING DESCR: CMU CONDITION

PROJECT: EXA-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 5/3/2016

SHEET: 6 of 13

CHK'D BY: NW

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

DRAWN BY: LGH

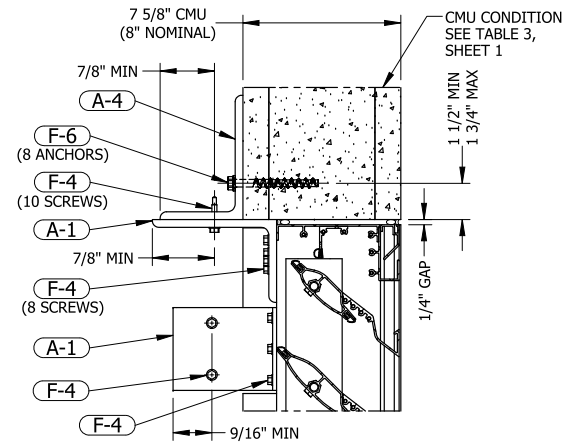
ORDER NUMBER

P.O. NUMBER

DRAWING NUMBER

EXA-645-MD NOA

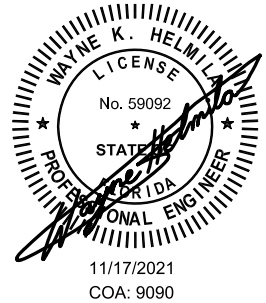
CMU CONDITION



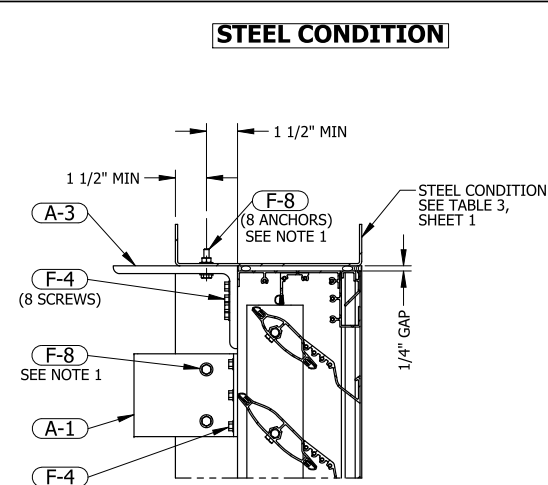
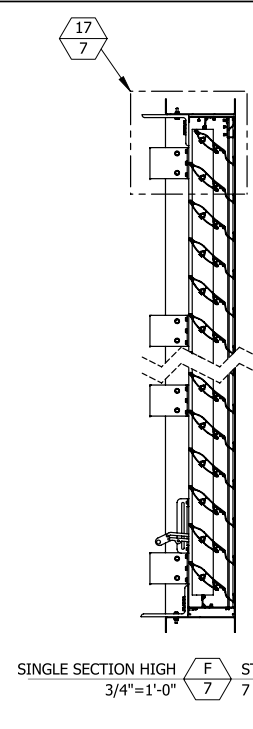
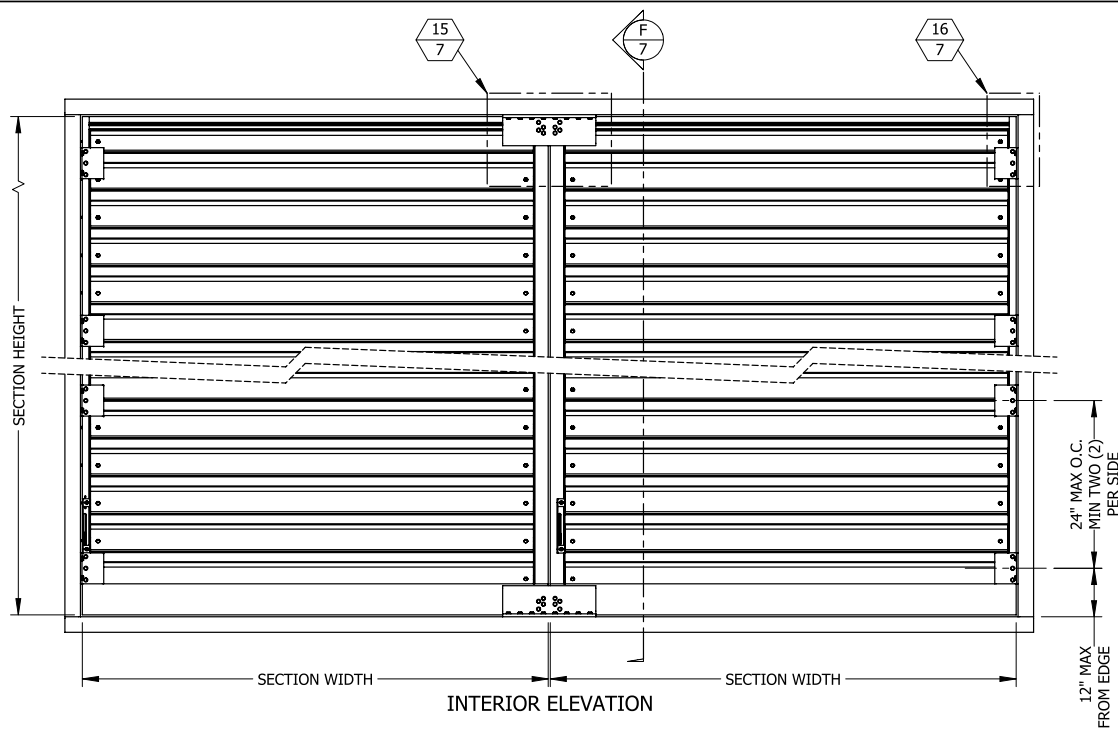
TOP & BTM MOUNT DETAIL $\frac{14}{6}$ CMU CONDITION
2-1/4"=1'-0"

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

P.E. STAMP



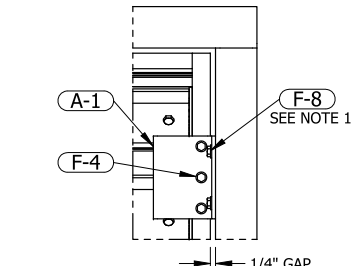
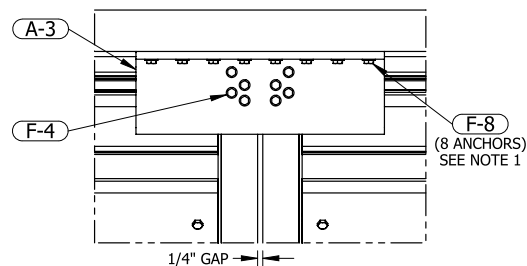
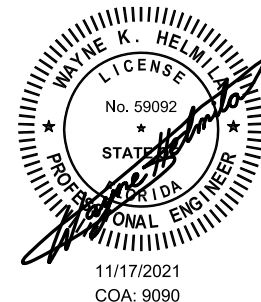
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TOP & BTM MOUNT DETAIL 17/7 STEEL CONDITION
2-1/4"=1'-0"

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

P.E. STAMP



TOP & BTM MULLION MOUNT DETAIL 15/7 STEEL CONDITION
2-1/4"=1'-0"
As complying with the Florida Building Code
NOA-No. 23-1215.13
THIS DETAIL NOT USED FOR SINGLE SECTION WIDE ASSEMBLIES

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

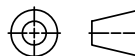
UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES.

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. Helmila
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).

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

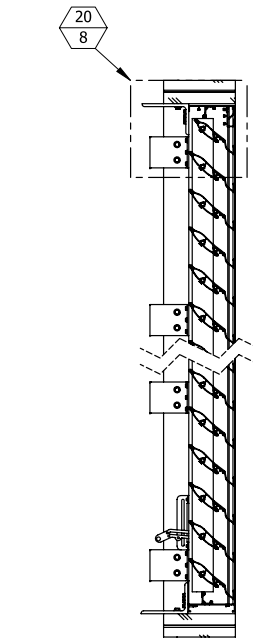
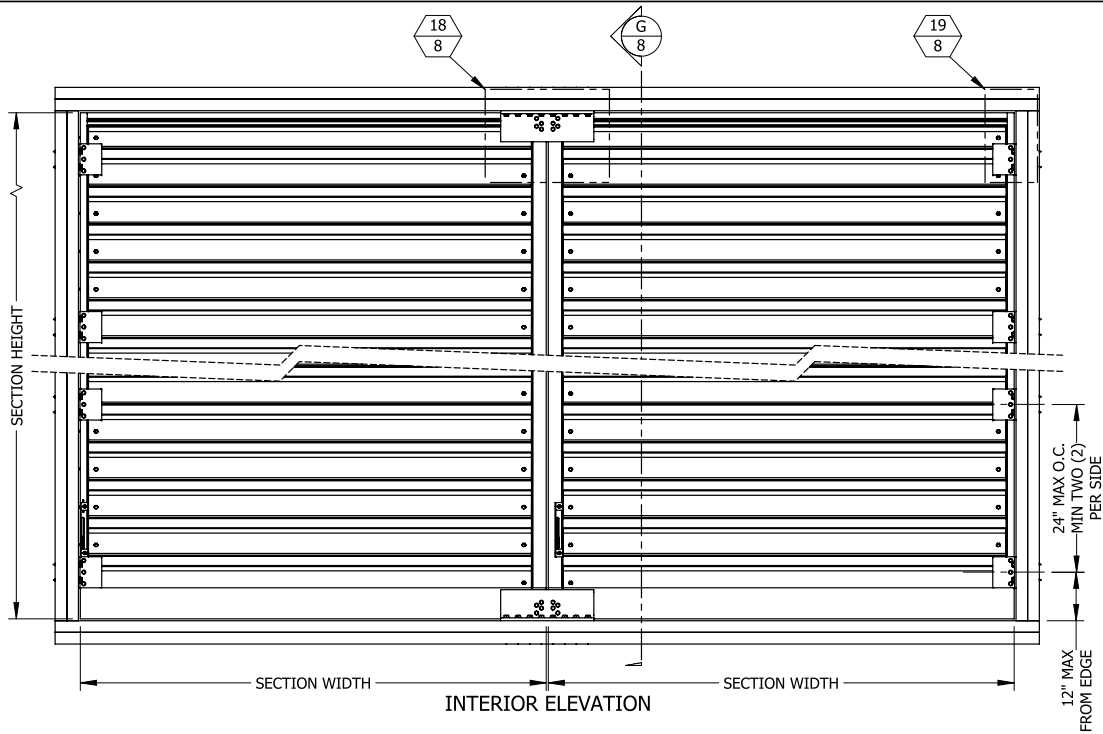
DRAWING NUMBER

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)



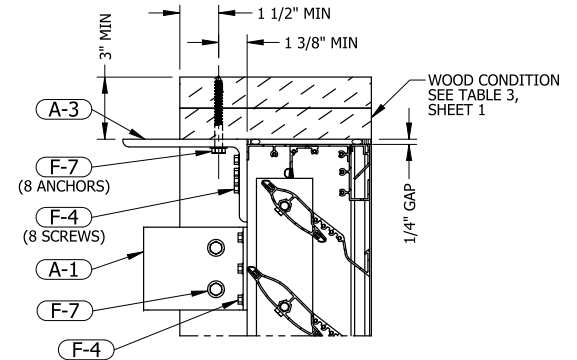
SINGLE SECTION HIGH $\frac{20}{8}$ WOOD CONDITION
3/4"=1'-0"

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

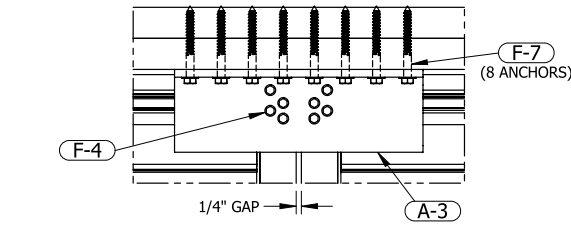
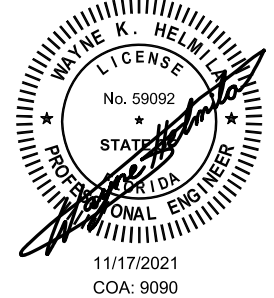
WOOD CONDITION



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

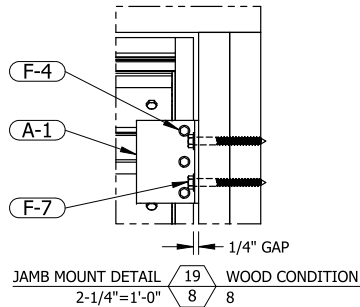
A-3 AND ASSOCIATED FASTENERS NOT USED IN
SINGLE SECTION WIDE ASSEMBLIES

P.E. STAMP



TOP & BTM MULLION MOUNT DETAIL $\frac{18}{8}$ WOOD CONDITION
SCALE 2-1/4"=1'-0"

THIS DETAIL NOT USED FOR SINGLE SECTION WIDE ASSEMBLIES



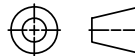
JAMB MOUNT DETAIL $\frac{19}{8}$ WOOD CONDITION
2-1/4"=1'-0"

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

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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"

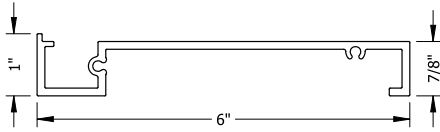
EXA-645-MD NOA

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

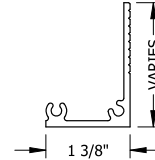
DRAWING DESCR: SINGLE SECTION WIDE X MULTI-SECTION HIGH - CONDITION VARIES				
PROJECT: EXA-645-MD				
LOCATION:				
CUSTOMER:				
PROJ. MGR:		DRAWN BY: LGH		
DATE: 5/3/2016	CHK'D BY: NW	ORDER NUMBER	P.O. NUMBER	DRAWING NUMBER
SHEET: 9 of 13	SCALE: 3/4"=1'-0"			EXA-645-MD NOA

BILL OF MATERIALS

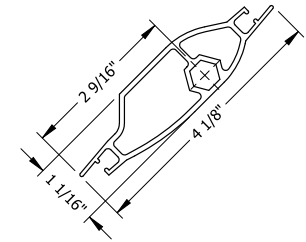
PART NO: E-1
PART NAME: FRAME JAMB, STANDARD
MATERIAL: MINIMUM 0.125" THICK 6063-T5 EXTRUDED ALUMINUM
SCALE: 6"=1'-0"



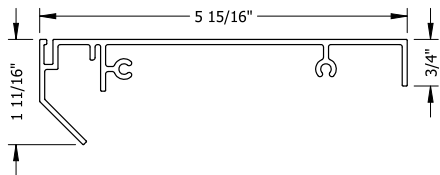
PART NO: E-5
PART NAME: BLADE STOP
MATERIAL: MINIMUM 0.100" THICK 6063-T5 EXTRUDED ALUMINUM
SCALE: 6"=1'-0"



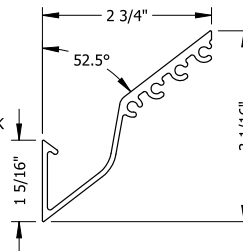
PART NO: E-8
PART NAME: OPERABLE REAR HALF-BLADE
MATERIAL: MINIMUM 0.081" THICK 6063-T5 EXTRUDED ALUMINUM
SCALE: 6"=1'-0"



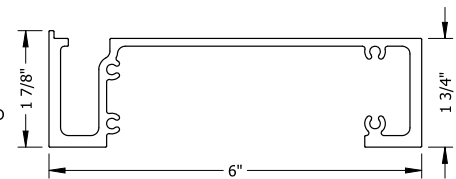
PART NO: E-2
PART NAME: FRAME HEAD
MATERIAL: MINIMUM 0.081" THICK 6063-T5 EXTRUDED ALUMINUM
SCALE: 6"=1'-0"



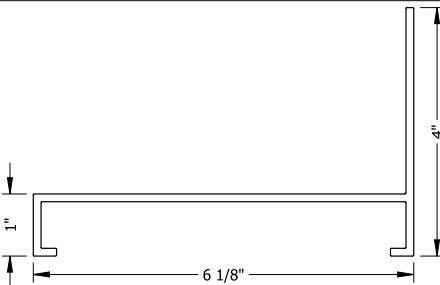
PART NO: E-6
PART NAME: FIXED FRONT BLADE
MATERIAL: MINIMUM 0.081" THICK 6063-T6 EXTRUDED ALUMINUM
SCALE: 6"=1'-0"



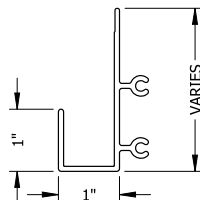
PART NO: E-9
PART NAME: FRAME JAMB, MULLION
MATERIAL: MIN. 0.125" THICK 6005-T6 EXTRUDED ALUMINUM
SCALE: 6"=1'-0"



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

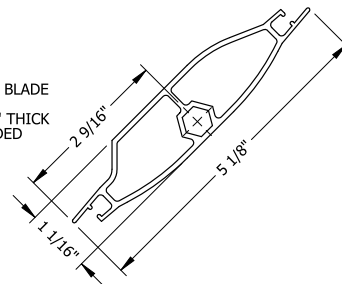


PART NO: E-4
PART NAME: RAIN DRIP
MATERIAL: MINIMUM 0.081" THICK 6063-T5 EXTRUDED ALUMINUM
SCALE: 6"=1'-0"



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

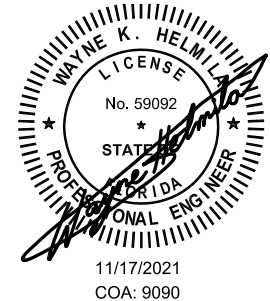
PART NO: E-7
PART NAME: OPERABLE REAR BLADE
MATERIAL: MINIMUM 0.081" THICK 6063-T5 EXTRUDED ALUMINUM
SCALE: 6"=1'-0"



P.E. STAMP

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

RICE
ENGINEERING
105 School Creek Trail
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

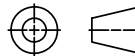


UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES.
TOLERANCE UNLESS NOTED:
X.X ±0.030
X.XX ±0.015
X.XXX ±0.010
ANGLE ±1°
FRACTION ±1/16

MAX HOLE BREAKOUT:
15% OF MATERIAL THICKNESS

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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

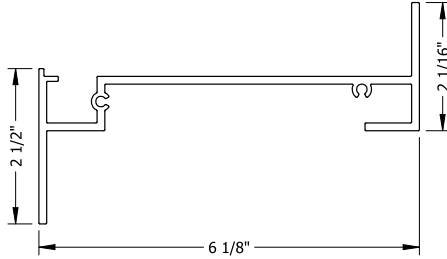
DRAWING NUMBER

EXA-645-MD NOA

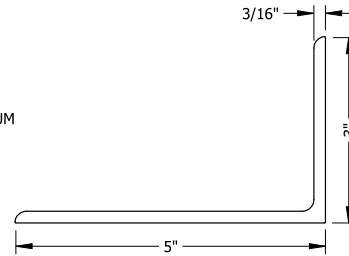
3	UPDATED LABEL DETAIL	11/2/2021	NWW
2	ADDED AMCA 550 PERFORMANCE, UPDATED ANCHORAGE DESIGN	3/17/2021	NWW
1	INITIAL RELEASE	7/27/2016	NWW
REV.	DESCRIPTION	DATE	DRAWN BY

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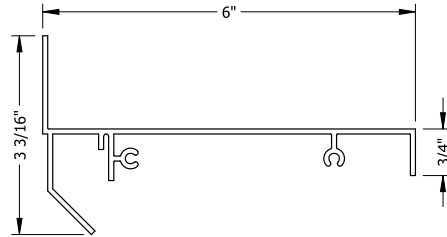
PART NO: E-10
PART NAME: FRAME JAMB,
FLANGED
MATERIAL: MINIMUM 0.125" THICK
6063-T5 EXTRUDED
ALUMINUM
SCALE: 6"=1'-0"



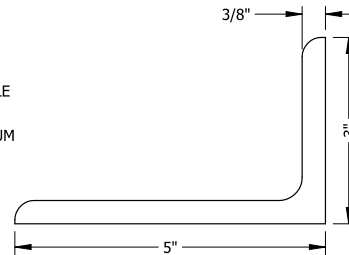
PART NO: A-1
PART NAME: JAMB CLIP ANGLE
MATERIAL: 5" X 3" X 3/16" X 4" LONG
6063-T6 EXTRUDED ALUMINUM
SCALE: 6"=1'-0"



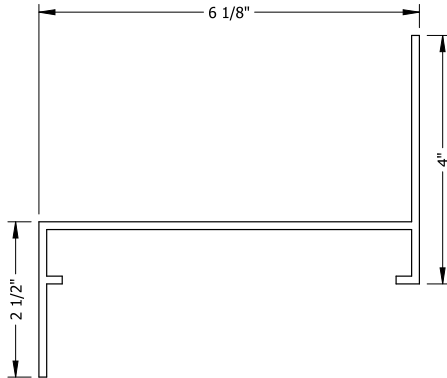
PART NO: E-11
PART NAME: FRAME HEAD,
FLANGED
MATERIAL: MINIMUM 0.081" THICK
6063-T5 EXTRUDED
ALUMINUM
SCALE: 6"=1'-0"



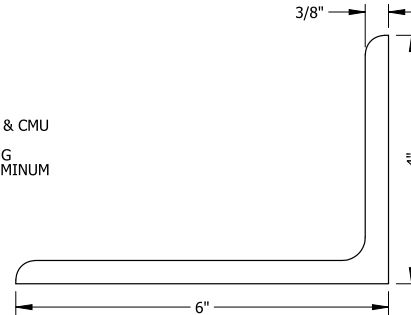
PART NO: A-2
PART NAME: SECONDARY JAMB CLIP ANGLE
MATERIAL: 5" X 3" X 3/8" X 4" LONG
6061-T6 EXTRUDED ALUMINUM
SCALE: 6"=1'-0"



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"



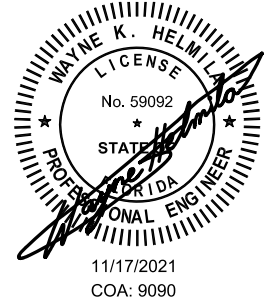
BILL OF MATERIALS

PRODUCT REVISED
As 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

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



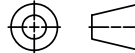
UNLESS OTHERWISE SPECIFIED
DIMENSION ARE IN INCHES.

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

CHK'D BY: NW

SHEET: 11 of 13

SCALE: AS NOTED

DRAWN BY: LGH

ORDER NUMBER

P.O. NUMBER

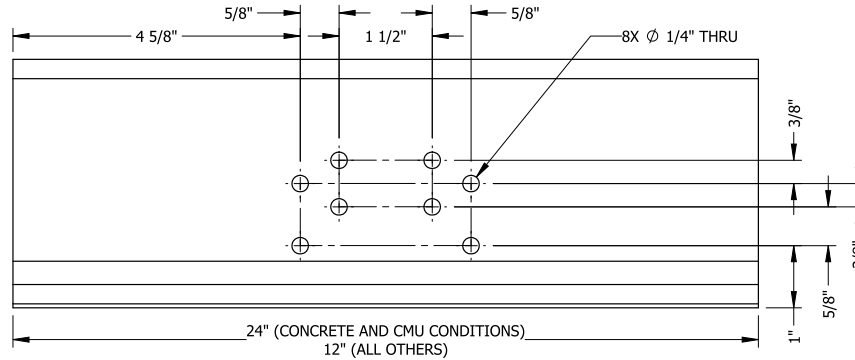
DRAWING NUMBER

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

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"

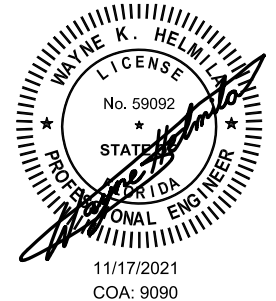


PRODUCT REVISED
 As complying with the Florida
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 NOA-No. **23-1215.13**
 Expiration Date: **10/20/2026**
 By: *Manuel Perez*
 Miami-Dade Product Control

PRODUCT REVISED
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 NOA-No. **21-1122.05**
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 Luxemburg, WI 54217
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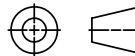


NOTE: ALL INSTALLATION FASTENERS AND ANCHORS SHALL BE OF CORROSION-RESISTANT STEEL (STAINLESS OR HOT-DIP GALVANIZED)

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 DIMENSION ARE IN INCHES.
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 X.X ±0.030
 X.XX ±0.015
 X.XXX ±0.010
 ANGLE ±1°
 FRACTION ±1/16

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THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

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DRAWING DESCR: BILL OF MATERIALS

PROJECT: EXA-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 5/3/2016

SHEET: 12 of 13

CHK'D BY: NW

SCALE: AS NOTED

DRAWN BY: LGH

ORDER NUMBER

P.O. NUMBER

DRAWING NUMBER

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REV.	DESCRIPTION	DATE	DRAWN BY

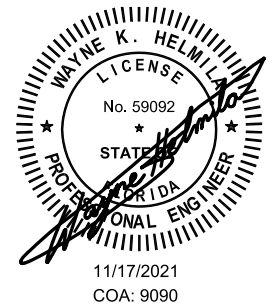
MAX HOLE BREAKOUT:
 15% OF MATERIAL THICKNESS

BILL OF MATERIALS

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

PRODUCT REVISED
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Expiration Date **10/20/2026**
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Miami-Dade Product Control

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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

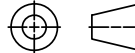
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DRAWING NUMBER

SHEET: 13 of 13

SCALE: AS NOTED

EXA-645-MD NOA