



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 ECV- 645-MD Aluminum Louver**

**APPROVAL DOCUMENT:** Drawing No. **ECV-645-MD NOA**, titled "ECV-645-MD", sheets 1 through 12 of 12, dated 08/27/13, with revision **9** 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.

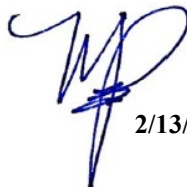
**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**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. 21-1122.03** 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. 23-1215.11**  
**Expiration Date: January 22, 2025**  
**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. 14-0605.11)*
2. Drawing No. **ECV-645-MD NOA**, titled "ECV-645-MD", sheets 1 through 12 of 12, dated 08/27/13, with revision **9** dated 11/02/21, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, P.E.  
*(Submitted under NOA No. 21-1122.03)*

**B. TESTS**

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with installation diagram of Model ECV-645-MD Aluminum Louvers, prepared by Intertek, Test Report No. **J5028.01-801-18 R0**, dated 07/01/19, signed and sealed by Tyler Westerling, P.E.  
*(Submitted under NOA No. 19-0711.06)*
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 ECV-645-MD Aluminum Louvers, prepared by Architectural Testing, Inc., Test Report No. **C8134.01-801-18**, dated 02/24/14, signed and sealed by Vinu J. Abraham, P.E.  
*(Submitted under NOA No. 14-0605.11)*
3. Test Report on High Velocity Wind Driven Rain Resistance per AMCA 550-15 of a Model ECV-645 Aluminum Louver, prepared by Architectural Testing, Inc., Test Report No. **C3038.02-801-44**, dated 11/02/12, signed and sealed by Vinu J. Abraham, P.E.  
*(Submitted under NOA No. 14-0605.11)*

**C. CALCULATIONS**


1. ECV-545-MD NOA louver anchor calculations dated 04/26/20, prepared by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.  
*(Submitted under NOA No. 19-0711.06)*

**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. 23-1215.11  
Expiration Date: January 22, 2025  
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**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

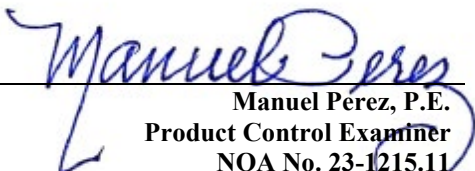
**1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's (CONTINUED)**

**F. STATEMENTS**

1. Statement letter of conformance, complying with **FBC 7<sup>th</sup> Edition (2020)** and of no financial interest, dated 03/26/21, issued by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.  
*(Submitted under NOA No. 20-1222.06)*
2. 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. 21-1122.03)*
3. Statement letter as an official notification from **PCI Industries, Inc.** that all assets associated with the Pottorff model ECV-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. 21-1122.03)*
4. Statement letter as a request from **PCI Industries, LLC** to issue a new Notice of Acceptance (NOA) for the Pottorff model ECV-645-MD aluminum louver, dated 11/17/21 and signed by Nathan Woodworth, Louver Development Manager.  
*(Submitted under NOA No. 21-1122.03)*

**G. OTHERS**

1. Notice of Acceptance No. **20-1222.06**, issued to PCI Industries, LLC d/b/a Pottorff for their Model ECV - 645-MD Aluminum Louver, approved on 04/08/21 and expiring on 01/22/25.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 23-1215.11  
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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 8<sup>th</sup> 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. **21-1122.03**, issued to PCI Industries, LLC d/b/a Pottorff for their Model ECV - 645-MD Aluminum Louver, approved on 01/20/22 and expiring on 01/22/25.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 23-1215.11  
Expiration Date: January 22, 2025  
Approval Date: February 22, 2024

NOTES:

1. THIS NOA DRAWING INCLUDES INSTALLATION DETAILS TO ATTAIN MAXIMUM DESIGN PRESSURES OF 150 PSF AS TESTED IN ACCORDANCE WITH PROTOCOLS TAS 201 (LEVEL 'E', 80 FPS), TAS 202, TAS 203, & AMCA 550 FOR USE WITHIN HIGH VELOCITY HURRICANE-AFFECTED ZONES DEFINED BY THE FLORIDA BUILDING CODE.
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. SINCE THE DESIGN MEETS THE PERFORMANCE STANDARDS OF AMCA 550, THE ROOM BEHIND THE LOUVER NEED NOT BE DESIGNED TO DRAIN WATER PENETRATION INTO THE ROOM, AND MAY HOUSE NON-WATER RESISTANT EQUIPMENT, COMPONENTS, OR SUPPLIES.
8. OTHER BUILDING CONDITIONS THAN THOSE DENOTED CAN BE UTILIZED IF ANALYZED AND APPROVED BY A PROFESSIONAL ENGINEER.
9. MULTI-SECTION 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.

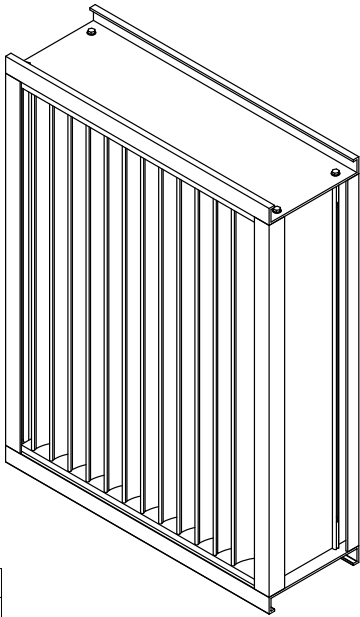


TABLE 3

ANCHOR SCHEDULE

SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE	MAX. EDGE DISTANCE	MAX. SPACING
CONCRETE ( $f_c \geq 4000$ PSI, WALL DEPTH $\leq 8$ 7/8")	3/8" X 4" HILTI KH-EZ SCREW ANCHOR (F-5)	3 1/4"	1 1/2"	2"	10"
CONCRETE ( $f_c \geq 4000$ PSI, WALL DEPTH $> 8$ 7/8")	3/8" X 3 1/2" HILTI KH-EZ SCREW ANCHOR (F-6)	3 1/4"	1 7/8"	-	6"
GROUT-FILLED CMU ( $f_m \geq 1500$ PSI, WALL DEPTH $\leq 8$ 7/8")	3/8" X 4" HILTI KH-EZ SCREW ANCHOR (F-5)	3 1/4"	4"	4"	4"
GROUT-FILLED CMU ( $f_m \geq 1500$ PSI, WALL DEPTH $> 8$ 7/8")	3/8" X 3 1/2" HILTI KH-EZ SCREW ANCHOR (F-6)	3 1/4"	2 5/8"	-	6"
STRUCTURAL STEEL (MIN. 3/16" THICK, $F_y \geq 36$ KSI)	1/4" X 1" SELF-DRILLING SCREW (F-4)	FULL	1"	-	7"
STEEL STUD (MIN. 16 GA., $F_y \geq 50$ KSI)	1/4" X 1" SELF-DRILLING SCREW (F-4)	FULL	1"	-	4"
WOOD (S.G. $\geq 0.43$ )	1/2" X 3 1/2" LAG BOLT WITH FLAT WASHER (F-7)	3"	2"	-	5"

9	UPDATED LABEL DETAIL	11/2/2021	NWW
8	UPDATED FOR NOA RENEWAL	3/22/2021	NWW
7	REVISED PER MIAMI DADE COUNTY	7/30/2019	NWW
6	UPDATED FOR NOA RENEWAL & REVISION	4/23/2019	JMR / NW
5	CHANGED LOUVER MATERIAL TO 6063-T6	10/13/2014	NW
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG
3	REVISED PER RICE MARKUPS	4/23/2014	JG
REV.	DESCRIPTION	DATE	DRAWN BY

UNLESS OTHERWISE SPECIFIED  
DIMENSION ARE IN INCHES.

TOLERANCE UNLESS NOTED:  
X.X  $\pm 0.030$   
X.XX  $\pm 0.015$   
X.XXX  $\pm 0.010$   
ANGLE  $\pm 1^\circ$   
FRACTION  $\pm 1/16$

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. **23-1215.11**  
Expiration Date: **01/22/2025**  
By: *Manuel Perez*  
Miami-Dade Product Control

**PRODUCT REVISED**  
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NOA-No. **21-1122.03**  
Expiration Date: **01/22/2025**  
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

TABLE 1

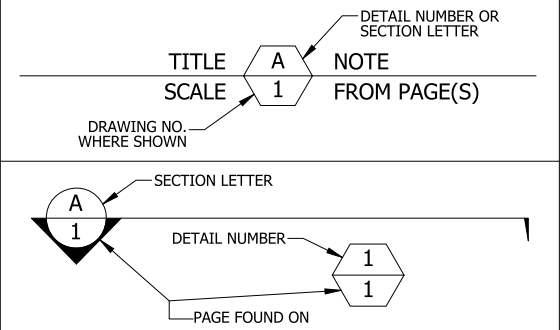
SINGLE SECTION SIZE LIMITATIONS

MAX DESIGN PRESSURE	MIN (W X H)	MAX (W X H)
$\pm 150$ PSF	12" X 12"	60" X 120"

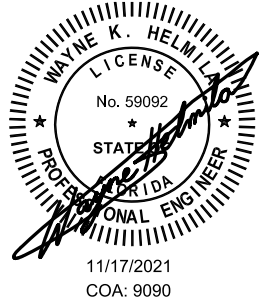
TABLE 2

MULTIPLE SECTION SIZE LIMITATIONS  
(MAX DESIGN PRESSURE: 150 PSF)

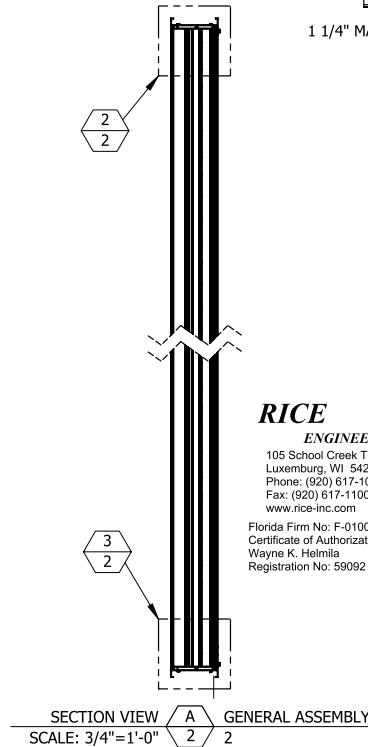
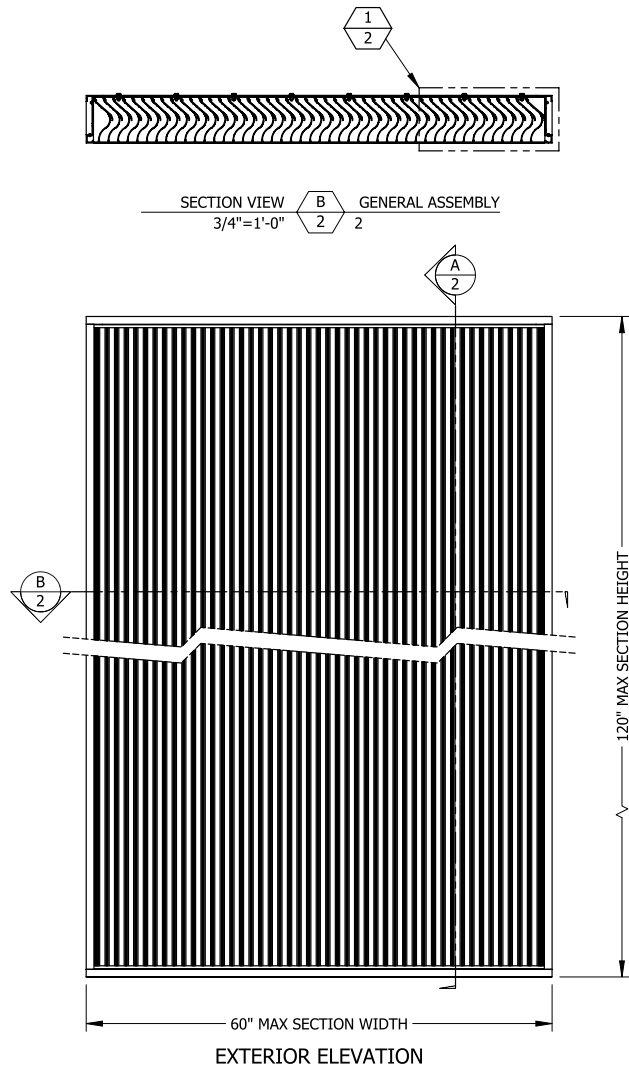
SINGLE SECTION HIGH - UNLIMITED WIDTH	SEE SHEET 9
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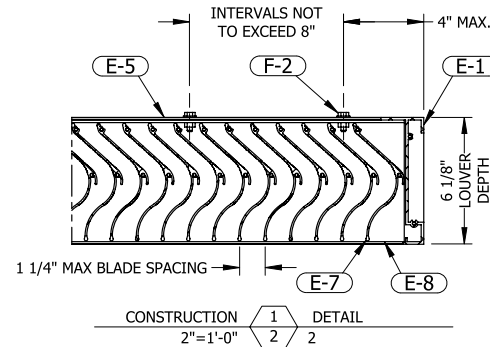
**P.E. STAMP**



C:\Users\Inwoodworth\Desktop\Miami-Dade Updates (2020)\ECV-645-MD

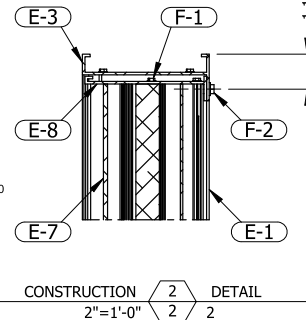


**RICE**  
ENGINEERING  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
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Florida Firm No: F-01000005061  
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Wayne K. Helmila  
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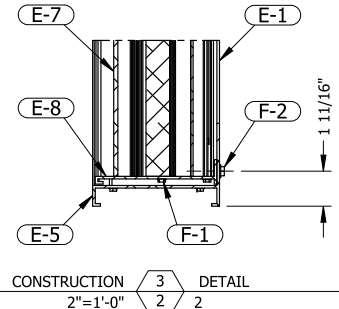
IN FLANGED CONFIGURATIONS:  
E-2 WILL BE USED IN PLACE OF E-1  
E-6 WILL BE USED IN PLACE OF E-5

**PRODUCT REVISED**  
As complying with the Florida  
Building Code  
NOA-No. **23-1215.11**  
Expiration Date: **01/22/2025**  
By: *Manuel Bern*  
Miami-Dade Product Control



IN FLANGED CONFIGURATIONS:  
E-2 WILL BE USED IN PLACE OF E-1  
E-4 WILL BE USED IN PLACE OF E-3

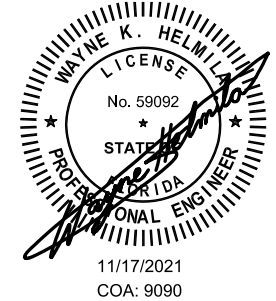
## GENERAL LOUVER ASSEMBLY



IN FLANGED CONFIGURATIONS:  
E-2 WILL BE USED IN PLACE OF E-1  
E-6 WILL BE USED IN PLACE OF E-5

**PRODUCT REVISED**  
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NOA-No. **21-1122.03**  
Expiration Date **01/22/2025**  
By: *Manuel Bern*  
Miami-Dade Product Control

## P.E. STAMP



9	UPDATED LABEL DETAIL	11/2/2021	NWW
8	UPDATED FOR NOA RENEWAL	3/22/2021	NWW
7	REVISED PER MIAMI DADE COUNTY	7/30/2019	NWW
6	UPDATED FOR NOA RENEWAL & REVISION	4/23/2019	JMR / NW
5	CHANGED LOUVER MATERIAL TO 6063-T6	10/13/2014	NW
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG
3	REVISED PER RICE MARKUPS	4/23/2014	JG
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

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THIRD ANGLE PROJECTION



PCI INDUSTRIES DOING BUSINESS AS

**POTTORFF**

DRAWING DESCR: GENERAL LOUVER ASSEMBLY

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 8/27/2013

CHK'D BY: NW

DRAWN BY: LGH

ORDER NUMBER

P.O. NUMBER

DRAWING NUMBER

SHEET: 2 of 12

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

ECV-645-MD NOA

# GENERAL LOUVER ASSEMBLY

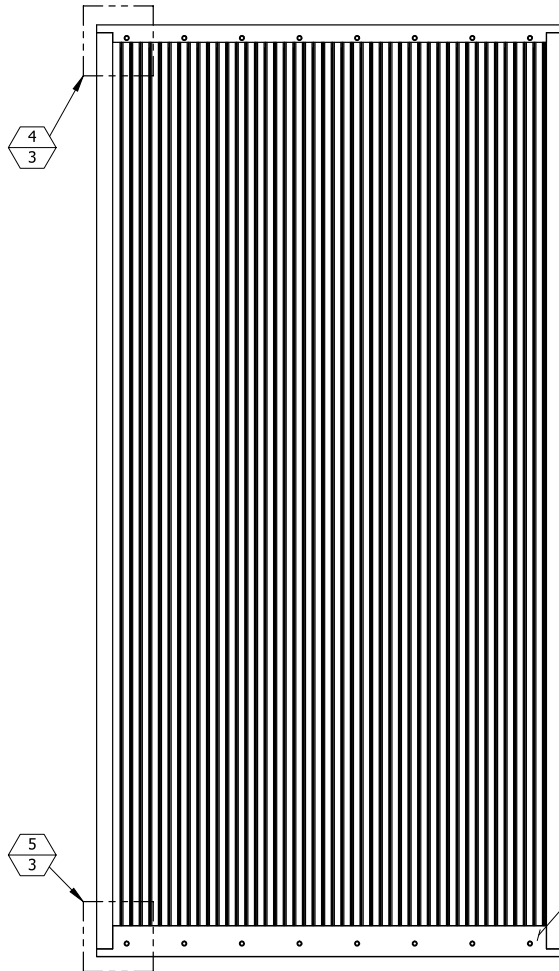
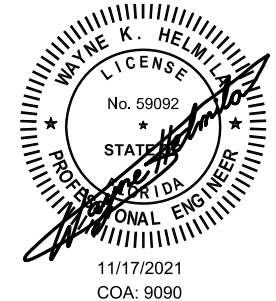
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By: *[Signature]*  
Miami-Dade Product Control

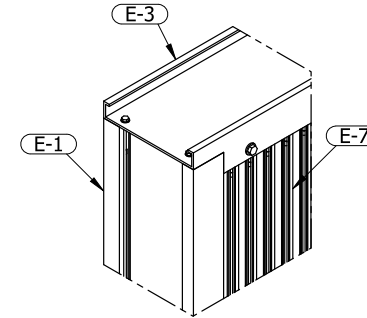
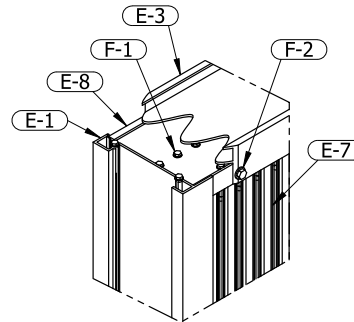
**RICE**  
ENGINEERING

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

## P.E. STAMP



INTERIOR ELEVATION

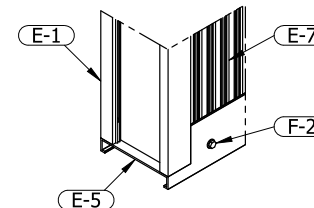


CONSTRUCTION  $\frac{4}{3}$  DETAIL  
2" = 1'-0" 3 3

IN FLANGED CONFIGURATIONS:  
E-2 WILL BE USED IN PLACE OF E-1  
E-4 WILL BE USED IN PLACE OF E-3


### ENGRAVED LABEL DETAIL

PCI Industries LLC d/b/a **POTTORFF**  
Ft Worth TX  
SO# 123456  
Miami Dade County  
Product Control  
Approved



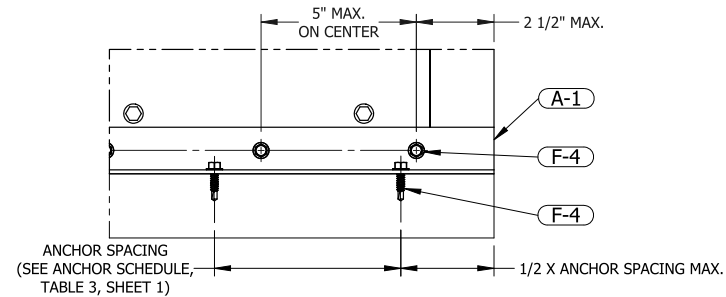
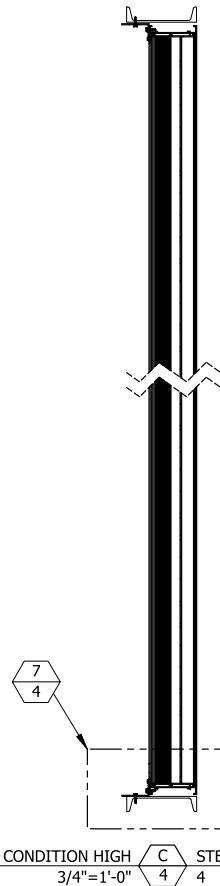
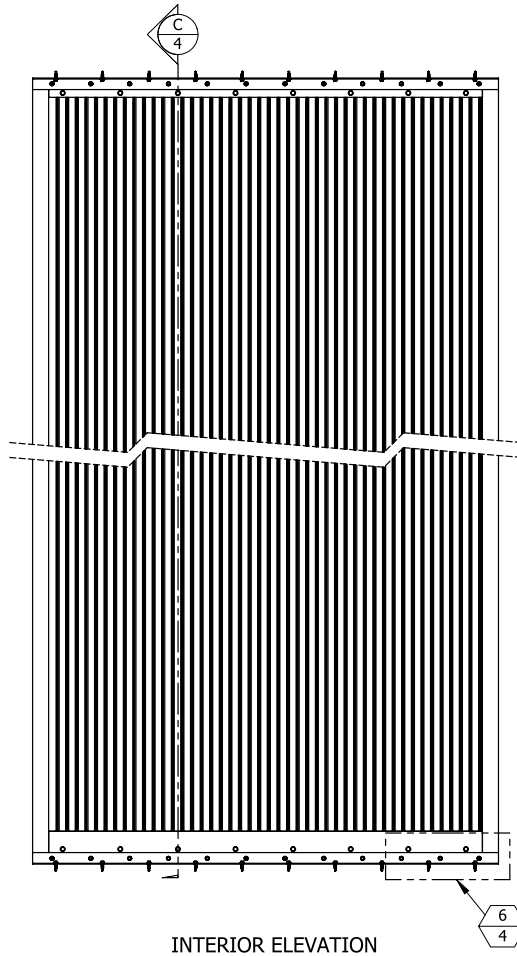
CONSTRUCTION  $\frac{5}{3}$  DETAIL  
2" = 1'-0" 3 3

IN FLANGED CONFIGURATIONS:  
E-2 WILL BE USED IN PLACE OF E-1  
E-6 WILL BE USED IN PLACE OF E-5

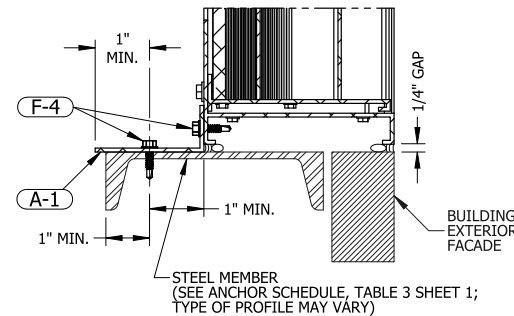
9	UPDATED LABEL DETAIL	11/2/2021	NWW	UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES.  TOLERANCE UNLESS NOTED: X.X ±0.030 X.XX ±0.015 X.XXX ±0.010 ANGLE ±1° FRACTION ±1/16  MAX HOLE BREAKOUT: 15% OF MATERIAL THICKNESS	5101 Blue Mound Road Fort Worth, Texas 76106 Phone: 817-509-2300 Fax: 817-831-3110  THIRD ANGLE PROJECTION 	PCI INDUSTRIES DOING BUSINESS AS  <b>POTTORFF</b>	DRAWING DESCR: GENERAL LOUVER ASSEMBLY				
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4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG	REV. DESCRIPTION DATE DRAWN BY			DATE: 8/27/2013	CHK'D BY: NW	DRAWN BY: LGH	ORDER NUMBER P.O. NUMBER DRAWING NUMBER ECV-645-MD NOA	
3	REVISED PER RICE MARKUPS	4/23/2014	JG				SHEET: 3 of 12		SCALE: 3/4"=1'-0"		



# SINGLE SECTION WIDE X SINGLE SECTION HIGH - STEEL CONDITION



STEEL CONDITION  
3"=1'-0" 4, 9



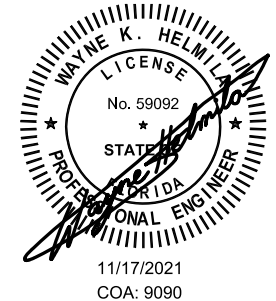
STEEL CONDITION  
3"=1'-0" 4, 9

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By: *Manuel Fernandez*  
Miami-Dade Product Control

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By: *Manuel Fernandez*  
Miami-Dade Product Control

P.E. STAMP



9	UPDATED LABEL DETAIL	11/2/2021	NWW
8	UPDATED FOR NOA RENEWAL	3/22/2021	NWW
7	REVISED PER MIAMI DADE COUNTY	7/30/2019	NWW
6	UPDATED FOR NOA RENEWAL & REVISION	4/23/2019	JMR / NW
5	CHANGED LOUVER MATERIAL TO 6063-T6	10/13/2014	NW
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG
3	REVISED PER RICE MARKUPS	4/23/2014	JG
REV.	DESCRIPTION	DATE	DRAWN BY

UNLESS OTHERWISE SPECIFIED  
DIMENSION ARE IN INCHES.

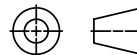
TOLERANCE UNLESS NOTED:

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: SINGLE SECTION WIDE X SINGLE SECTION HIGH - STEEL CONDITION

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 8/27/2013

CHK'D BY: NW

DRAWN BY: LGH

ORDER NUMBER

P.O. NUMBER

DRAWING NUMBER

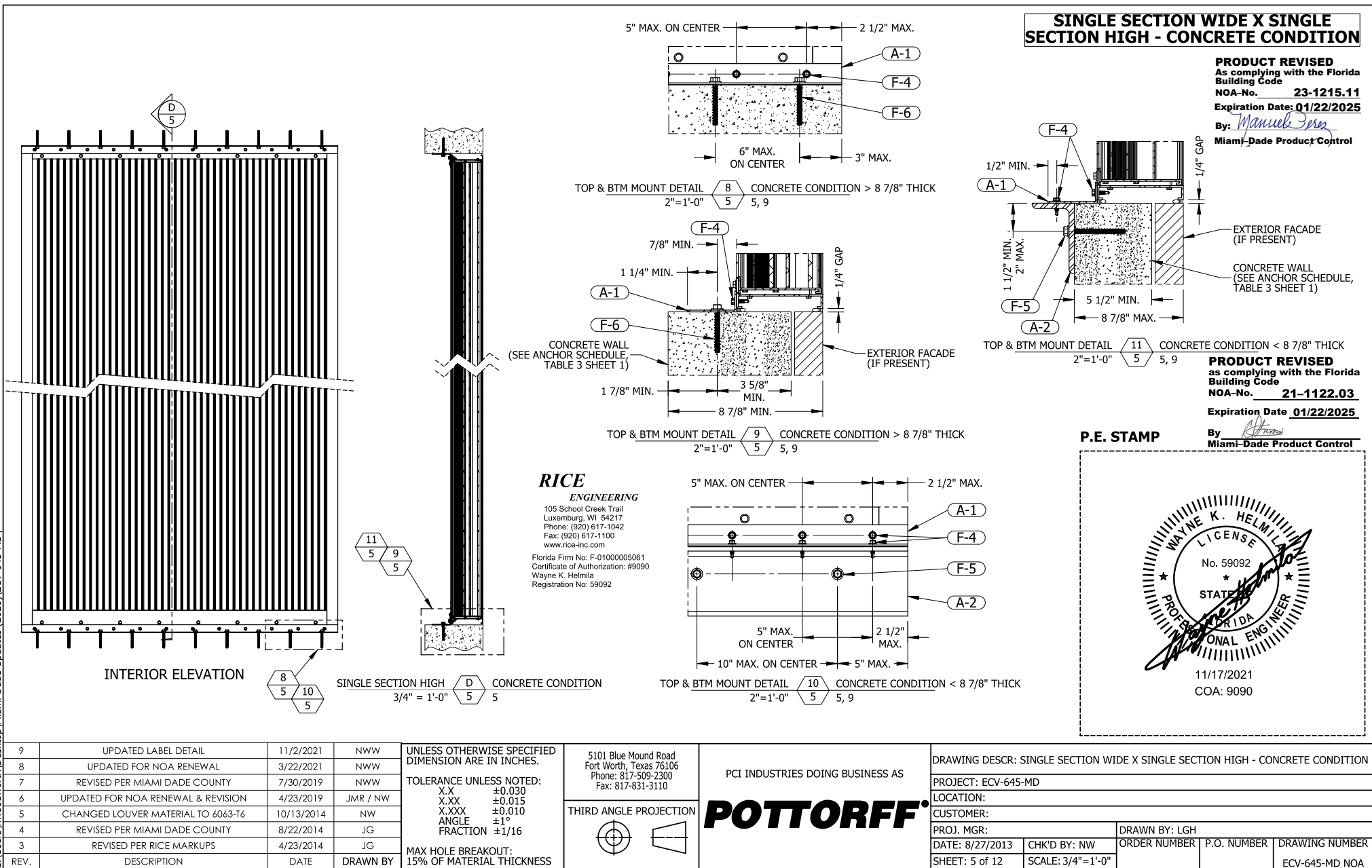
SHEET: 4 of 12

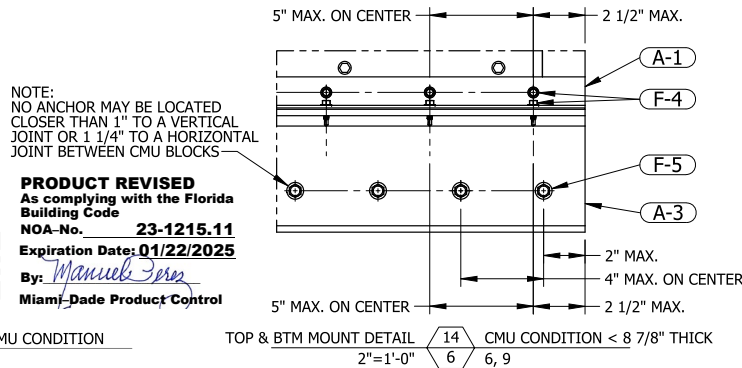
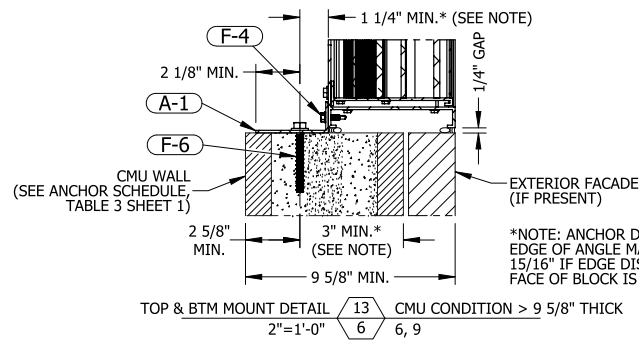
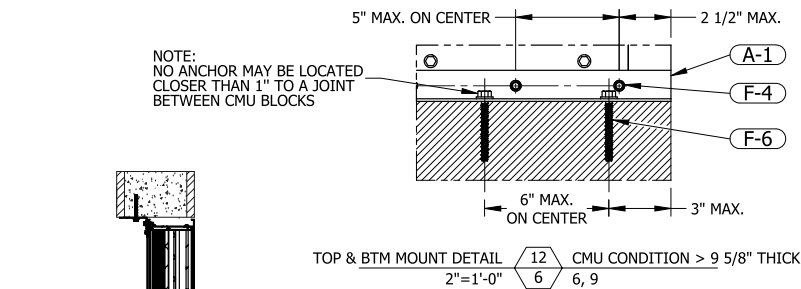
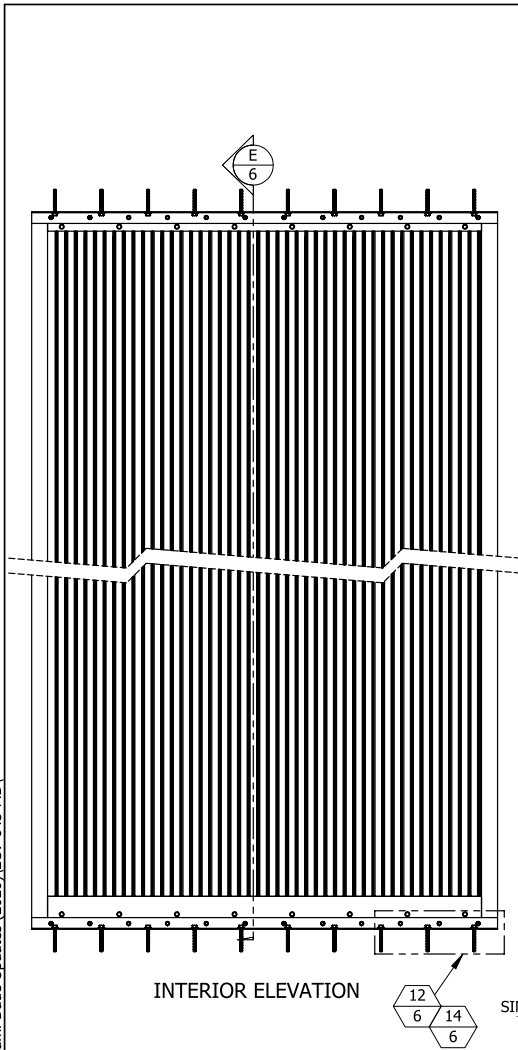
SCALE: 3/4"=1'-0"

ECV-645-MD NOA

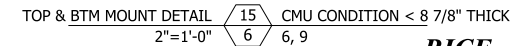
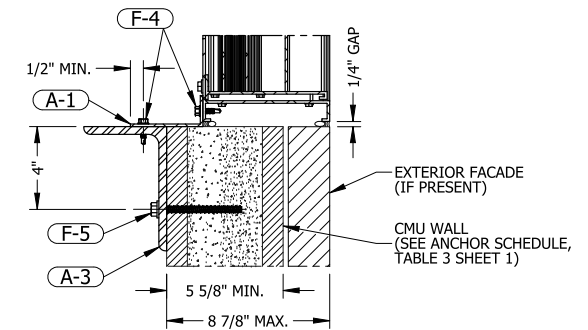


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**SINGLE SECTION WIDE X SINGLE  
SECTION HIGH - GROUT FILLED CMU CONDITION**



**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **21-1122.03**

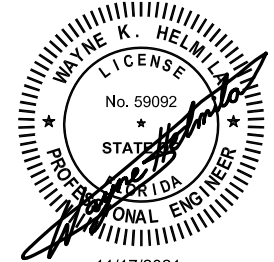
**Expiration Date** 01/22/2025

By *R. F. [Signature]*  
Miami-Dade Product Control  
**P.E. STAMP**

**RICE**  
**ENGINEERING**

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

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



11/17/2021  
COA: 9090

9	UPDATED LABEL DETAIL	11/2/2021	NWW
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6	UPDATED FOR NOA RENEWAL & REVISION	4/23/2019	JMR / NWW
5	CHANGED LOUVER MATERIAL TO 6063-T6	10/13/2014	NW
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG
3	REVISED PER RICE MARKUPS	4/23/2014	JG
REV.	DESCRIPTION	DATE	DRAWN BY

UNLESS OTHERWISE SPECIFIED  
DIMENSION ARE IN INCHES.

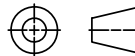
TOLERANCE UNLESS NOTED:

X.X	$\pm 0.030$
X.XX	$\pm 0.015$
X.XXX	$\pm 0.010$
ANGLE	$\pm 1^\circ$
FRACTION	$\pm 1/16$

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: SINGLE SECTION WIDE X SINGLE SECTION HIGH - CMU CONDITION

PROJECT: ECV-645-MD

LOCATION:

	CUSTOMER
--	----------

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

DATE: 8/27/201

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CHK'D BY: NW
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DRAWN BY: LGH

ORDER NUMBER
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P.O. NUMBER
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--	--

DRAWING NUMBER
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# **SINGLE SECTION WIDE X SINGLE SECTION HIGH - WOOD CONDITION**

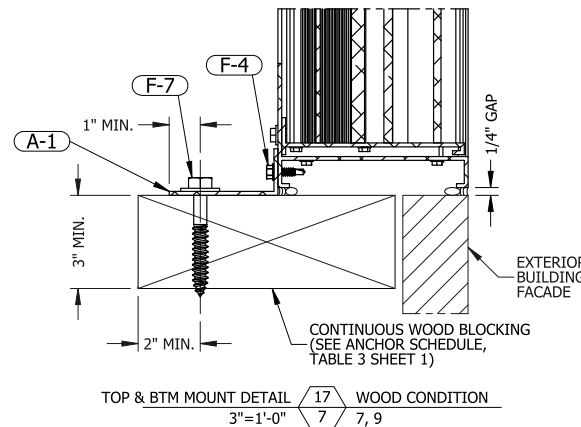
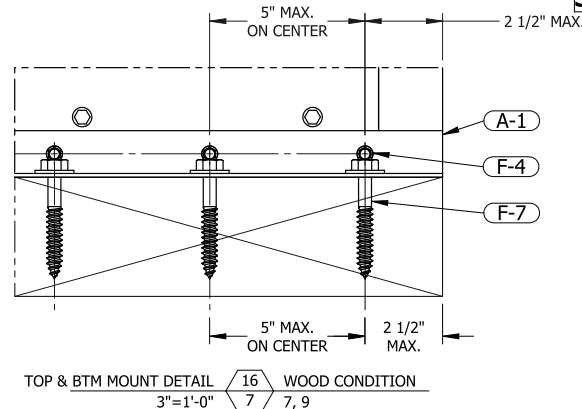
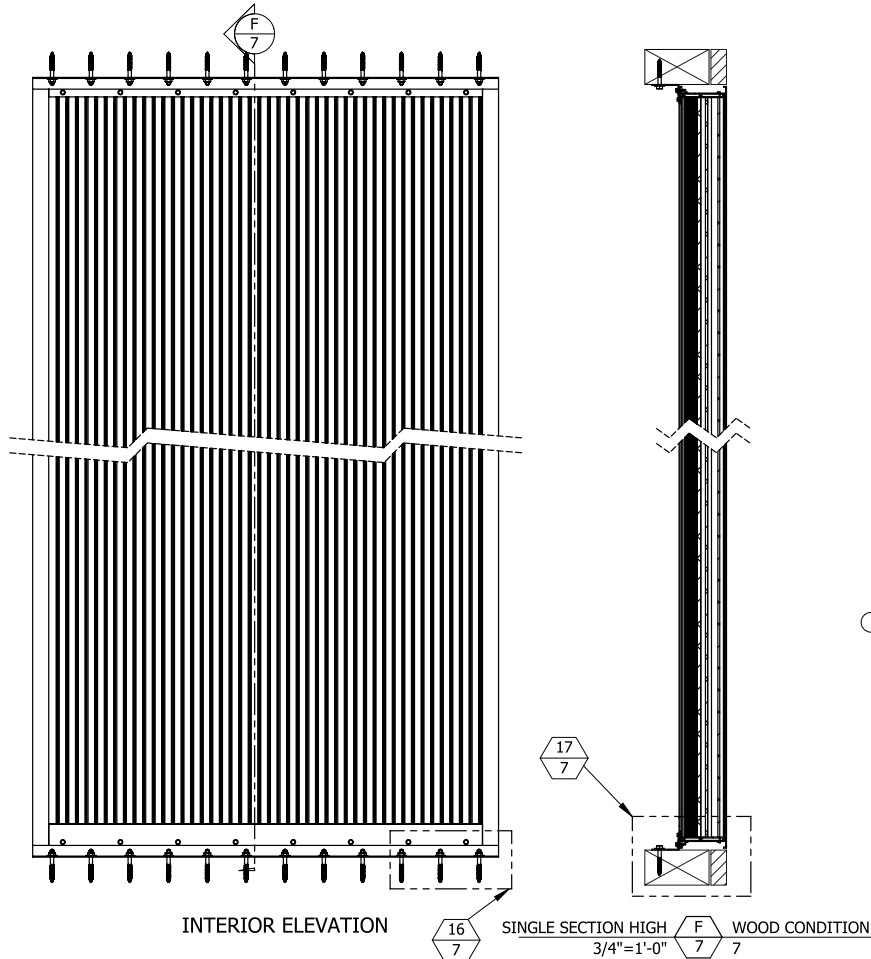
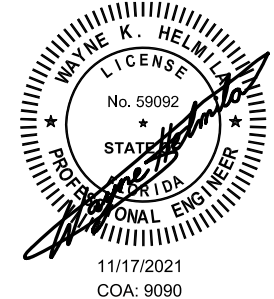
**PRODUCT REVISED**  
As complying with the Florida Building Code  
NOA-No. **23-1215.11**  
Expiration Date: **01/22/2025**  
By: *Manuel Soria*  
Miami-Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. **21-1122.03**  
Expiration Date **01/22/2025**  
By: *[Signature]*  
Miami-Dade Product Control

**RICE**  
ENGINEERING

105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 817-1042  
Fax: (920) 817-1100  
www.rice-inc.com  
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

**P.E. STAMP**



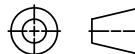
9	UPDATED LABEL DETAIL	11/2/2021	NWW
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REV.	DESCRIPTION	DATE	DRAWN BY

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

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Fort Worth, Texas 76106  
Phone: 817-509-2300  
Fax: 817-831-3110

THIRD ANGLE PROJECTION

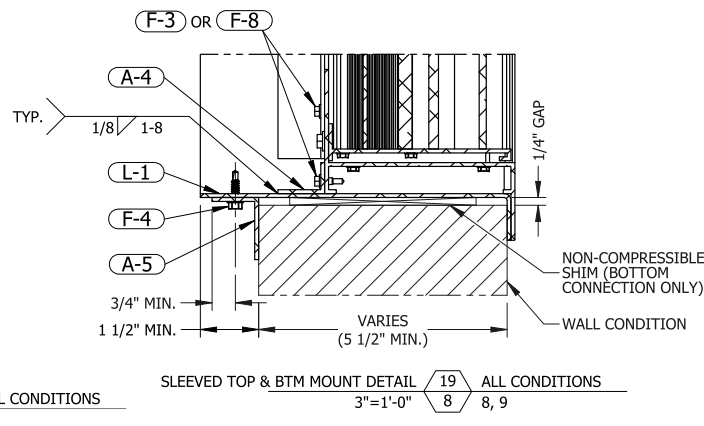
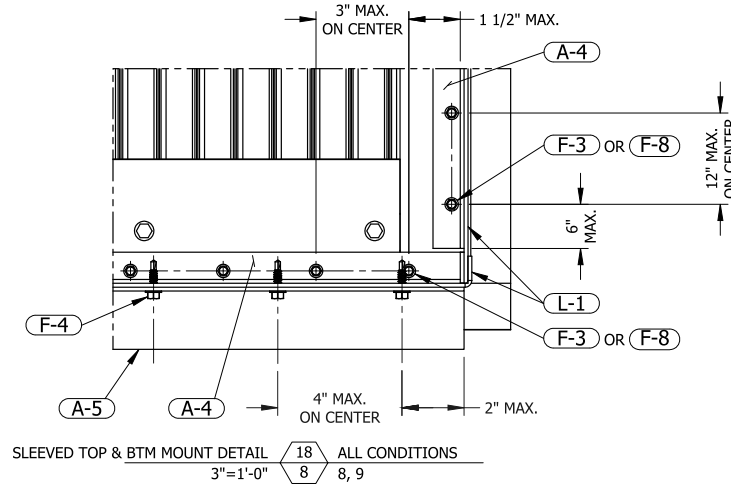
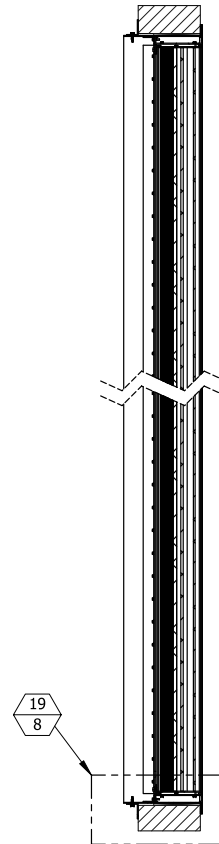
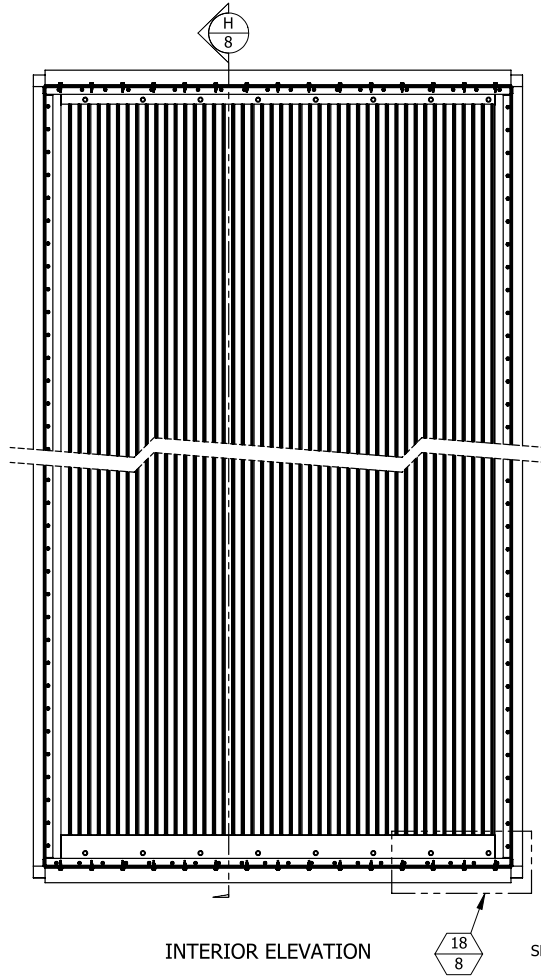


PCI INDUSTRIES DOING BUSINESS AS

**POTTORFF**

DRAWING DESCR: SINGLE SECTION WIDE X SINGLE SECTION HIGH - WOOD CONDITION			
PROJECT: ECV-645-MD			
LOCATION:			
CUSTOMER:			
PROJ. MGR:		DRAWN BY: LGH	
DATE: 8/27/2013	CHK'D BY: NW	ORDER NUMBER	P.O. NUMBER
SHEET: 7 of 12	SCALE: 3/4"=1'-0"	DRAWING NUMBER	
		ECV-645-MD NOA	

# SINGLE SECTION WIDE X SINGLE SECTION HIGH SLEEVED ASSEMBLY - ALL CONDITIONS

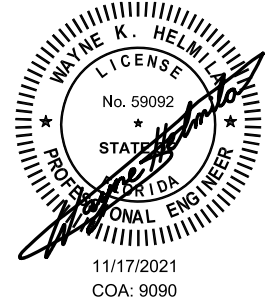


**PRODUCT REVISED**  
As complying with the Florida  
Building Code  
NOA-No. **23-1215.11**  
Expiration Date: **01/22/2025**  
By: *Manuel Fern*  
Miami-Dade Product Control

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **21-1122.03**  
Expiration Date **01/22/2025**  
By: *RH*  
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

P.E. STAMP



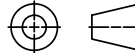
9	UPDATED LABEL DETAIL	11/2/2021	NWW
8	UPDATED FOR NOA RENEWAL	3/22/2021	NWW
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REV.	DESCRIPTION	DATE	DRAWN BY

UNLESS OTHERWISE SPECIFIED  
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TOLERANCE UNLESS NOTED:  
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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

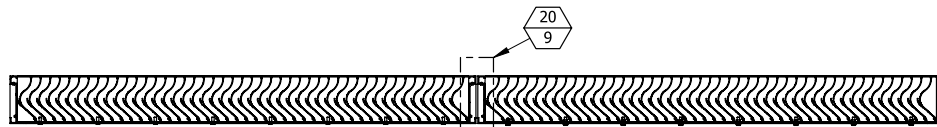


PCI INDUSTRIES DOING BUSINESS AS

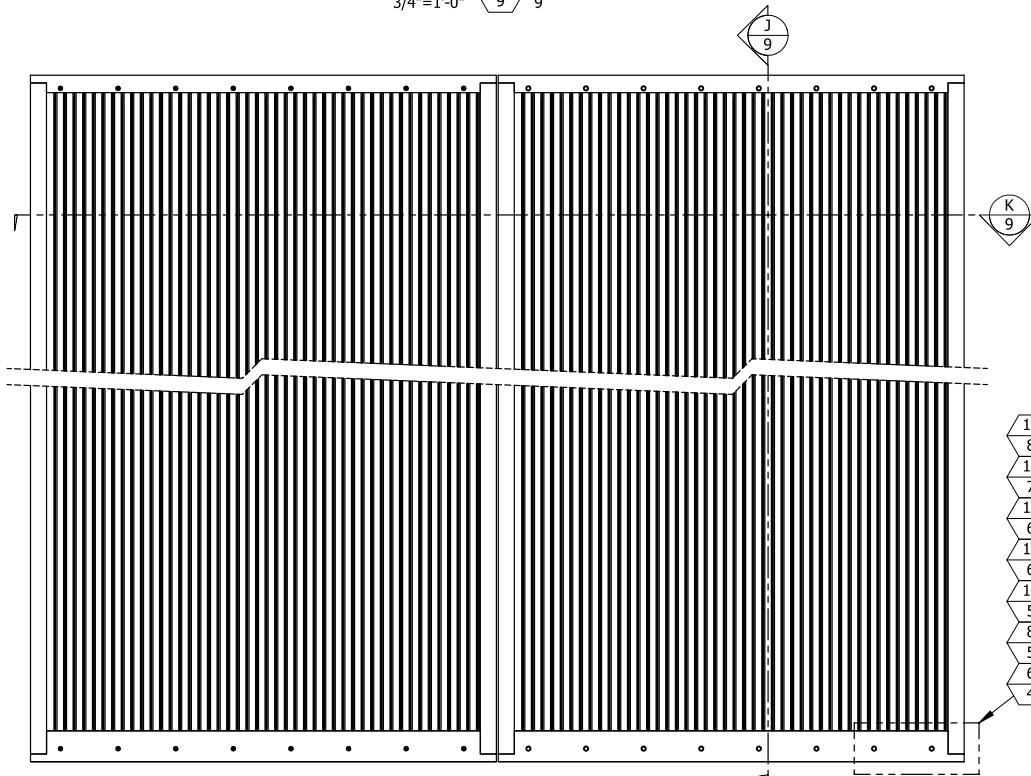
**POTTORFF**

DRAWING DESCR: SINGLE SECTION WIDE X SINGLE SECTION HIGH - SLEEVED ASSY. - ALL			
PROJECT: ECV-645-MD			
LOCATION:			
CUSTOMER:			
PROJ. MGR:	DATE: 8/27/2013	CHK'D BY: NW	DRAWN BY: LGH
		ORDER NUMBER	P.O. NUMBER
SHEET: 8 of 12	SCALE: 3/4"=1'-0"		DRAWING NUMBER
			ECV-645-MD NOA

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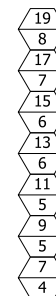
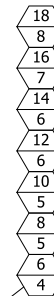
MULTI-SECTION WIDE  $\frac{K}{9}$  ALL CONDITIONS  
3/4"=1'-0"



INTERIOR ELEVATION  
QUANTITY SECTIONS WIDE IS UNLIMITED

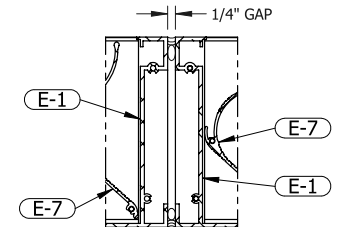
**RICE**  
ENGINEERING

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Luxemburg, WI 54217  
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Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092



MULTI-SECTION WIDE  $\frac{J}{9}$  ALL CONDITIONS  
3/4"=1'-0"

**MULTI-SECTION WIDE X SINGLE  
SECTION HIGH - ALL CONDITIONS**

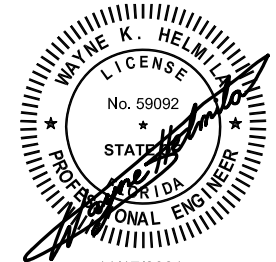


MULTI-SECTION WIDE  $\frac{20}{9}$  VERTICAL MULLION  
3"=1'-0"

QUANTITY SECTIONS WIDE IS UNLIMITED

**PRODUCT REVISED**  
As complying with the Florida  
Building Code  
NOA-No. **23-1215.11**  
Expiration Date: **01/22/2025**  
By: *Manuel J. P. E. Stamp*  
Miami-Dade Product Control  
**P.E. STAMP**

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **21-1122.03**  
Expiration Date **01/22/2025**  
By: *Wayne K. Helmila*  
Miami-Dade Product Control



11/17/2021  
COA: 9090

9	UPDATED LABEL DETAIL	11/2/2021	NWW
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REV.	DESCRIPTION	DATE	DRAWN BY

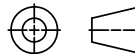
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TOLERANCE UNLESS NOTED:  
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15% OF MATERIAL THICKNESS

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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: MULTI-SECTION WIDE X SINGLE SECTION HIGH - ALL CONDITIONS

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 8/27/2013

SHEET: 9 of 12

CHK'D BY: NW

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

DRAWN BY: LGH

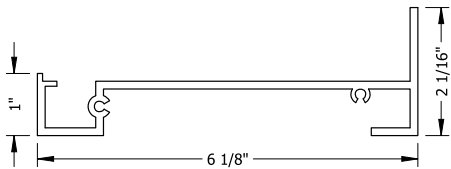
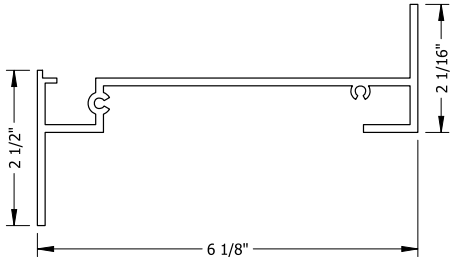
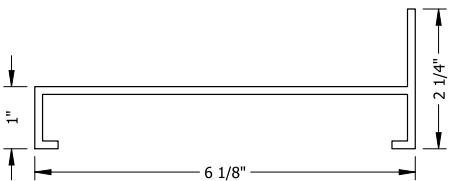
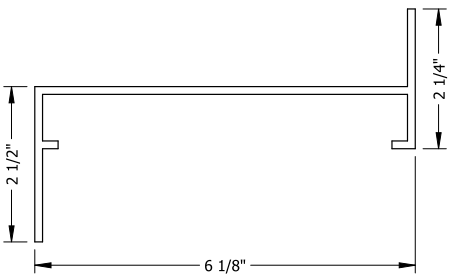
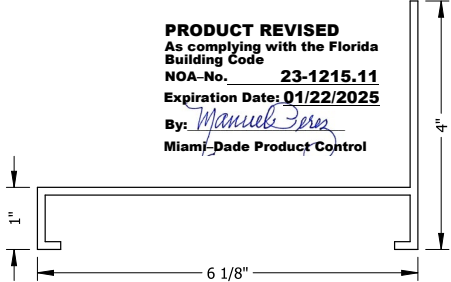
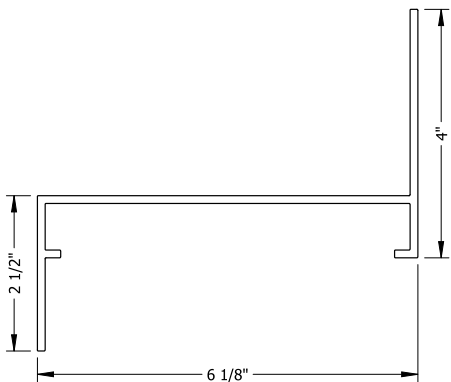
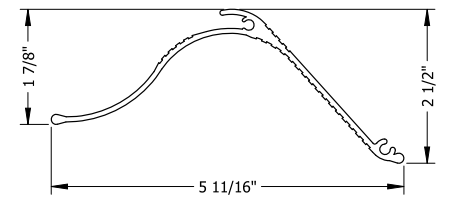
ORDER NUMBER

P.O. NUMBER

DRAWING NUMBER

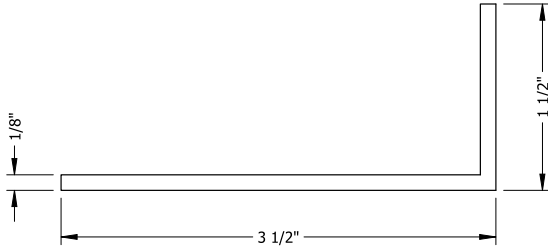
ECV-645-MD NOA

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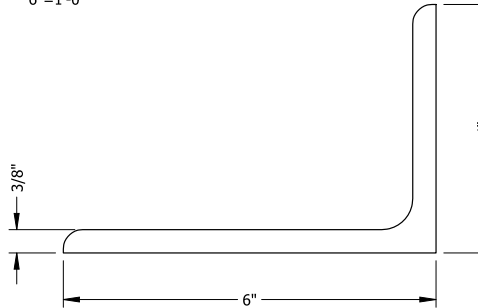
<div><div><div><div><div>PART NO: E-1</div><div>PART NAME: LOUVER JAMB</div><div>MATERIAL: 0.125" THICK 6063-T5 EXTRUDED ALUMINUM</div><div>SCALE: 6"=1'-0"</div></div><div></div></div></div><div><div><div><div>PART NO: E-2</div><div>PART NAME: LOUVER JAMB, FLANGED</div><div>MATERIAL: 0.125" THICK 6063-T5 EXTRUDED ALUMINUM</div><div>SCALE: 6"=1'-0"</div></div><div></div></div></div><div><div><div><div>PART NO: E-3</div><div>PART NAME: LOUVER HEAD</div><div>MATERIAL: 0.125" THICK 6063-T6 EXTRUDED ALUMINUM</div><div>SCALE: 6"=1'-0"</div></div><div></div></div></div><div><div><div><div>PART NO: E-4</div><div>PART NAME: LOUVER HEAD, FLANGED</div><div>MATERIAL: 0.125" THICK 6063-T6 EXTRUDED ALUMINUM</div><div>SCALE: 6"=1'-0"</div></div><div></div></div></div></div>				<div><div><div><div>PART NO: E-5</div><div>PART NAME: LOUVER SILL</div><div>MATERIAL: 0.125" THICK 6063-T6 EXTRUDED ALUMINUM</div><div>SCALE: 6"=1'-0"</div></div><div></div></div></div> <div><div><div><div>PART NO: E-6</div><div>PART NAME: LOUVER SILL, FLANGED</div><div>MATERIAL: 0.125" THICK 6063-T6 EXTRUDED ALUMINUM</div><div>SCALE: 6"=1'-0"</div></div><div></div></div></div> <div><div><div><div>PART NO: E-7</div><div>PART NAME: BLADE</div><div>MATERIAL: 0.081" THICK 6063-T6 EXTRUDED ALUMINUM</div><div>SCALE: 6"=1'-0"</div></div><div></div></div></div>				<div><div><div><div><div><div><div>PRODUCT REVISED</div><div>As complying with the Florida Building Code</div><div>NOA-No. 23-1215.11</div><div>Expiration Date: 01/22/2025</div><div>By: Manuel Fern</div><div>Miami-Dade Product Control</div></div></div><div><div><div>BILL OF MATERIALS</div><div><div>PRODUCT REVISED</div><div>as complying with the Florida Building Code</div><div>NOA-No. 21-1122.03</div><div>Expiration Date 01/22/2025</div><div>By: [Signature]</div><div>Miami-Dade Product Control</div></div><div><div>RICE ENGINEERING</div><div>105 School Creek Trail</div><div>Luxemburg, WI 54217</div><div>Phone: (920) 617-1042</div><div>Fax: (920) 617-1100</div><div>www.rice-inc.com</div><div>Florida Firm No: F-01000005061</div><div>Certificate of Authorization: #9090</div><div>Wayne K. Helmila</div><div>Registration No: 59092</div></div></div></div></div></div></div></div>																																			
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# BILL OF MATERIALS

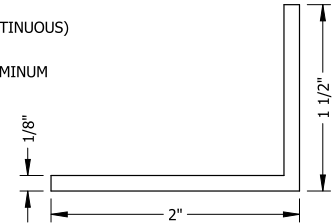
PART NO: A-1  
PART NAME: CONTINUOUS ANGLE  
MATERIAL: 3 1/2" X 1 1/2" X 1/8" THK.  
6063-T6 EXTRUDED ALUMINUM  
SCALE: FULL



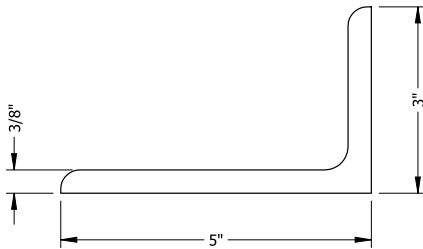
PART NO: A-3  
PART NAME: SHELF ANGLE, CMU (CONTINUOUS)  
MATERIAL: 6" X 4" X 3/8" THK.  
6061-T6 EXTRUDED ALUMINUM  
SCALE: 6"=1'-0"



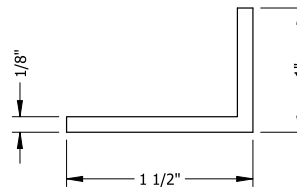
PART NO: A-5  
PART NAME: RETAINING ANGLE (CONTINUOUS)  
MATERIAL: 2" X 1 1/2" X 1/8" THK.  
6061-T6 EXTRUDED ALUMINUM  
SCALE: FULL



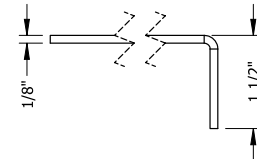
PART NO: A-2  
PART NAME: SHELF ANGLE, CONCRETE (CONTINUOUS)  
MATERIAL: 5" X 3" X 3/8" THK.  
6061-T6 EXTRUDED ALUMINUM  
SCALE: 6"=1'-0"



PART NO: A-4  
PART NAME: SLEEVE ATTACHMENT ANGLE (CONTINUOUS)  
MATERIAL: 1 1/2" X 1" X 1/8" THK.  
6063-T5 EXTRUDED ALUMINUM  
SCALE: FULL



PART NO: L-1  
PART NAME: SLEEVE  
MATERIAL: 1/8" THK. 5052-H32 SHEET ALUMINUM  
SCALE: 6"=1'-0"

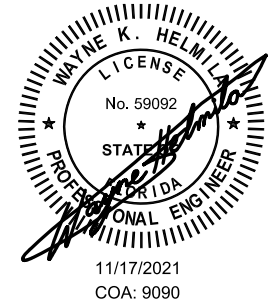


**PRODUCT REVISED**  
As complying with the Florida  
Building Code  
NOA-No. **23-1215.11**  
Expiration Date: **01/22/2025**  
By: *Manuel Bern*  
Miami-Dade Product Control

## P.E. STAMP

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **21-1122.03**  
Expiration Date **01/22/2025**  
By: *RH*  
Miami-Dade Product Control

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



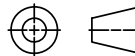
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REV.	DESCRIPTION	DATE	DRAWN BY

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: BILL OF MATERIALS

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 8/27/2013

SHEET: 11 of 12

DRAWN BY: LGH

CHK'D BY: NW

SCALE: AS NOTED

ORDER NUMBER

P.O. NUMBER

DRAWING NUMBER

ECV-645-MD NOA




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Registration No: 59092

MISCELLANEOUS FASTENERS	
PART NO	DESCRIPTION
F-1	#10-16 X 2" LONG, HWH, 410 SST, SELF-DRILLING SCREW
F-2	1/4-20 X 3/4" LONG HEX BOLT WITH LOCKNUT AND FLAT WASHER, 18-8 SST
F-3	#12-14 X 3/4" LONG, HWH, SELF-DRILLING SCREW, 300-SERIES SST
F-4	1/4-14 X 1" LONG, HWH, SELF-DRILLING SCREW, 300-SERIES SST
F-5	3/8" X 4" HILTI KH-EZ SCREW ANCHOR, 316 SST
F-6	3/8" X 3 1/2" HILTI KH-EZ SCREW ANCHOR, 316 SST
F-7	1/2" X 3 1/2" LONG HEX LAG BOLT AND FLAT WASHER, 300-SERIES SST
F-8	#12-14 X 3/4" LONG, HWH, SELF-DRILLING SCREW, ULTRA-CORROSION-RESISTANT COATED STEEL (ELCO DRIL-FLEX)

NOTE: ALL INSTALLATION FASTENERS AND ANCHORS SHOULD BE OF CORROSION-RESISTANT STEEL (300-SERIES STAINLESS OR HOT-DIP GALVANIZED)

9	UPDATED LABEL DETAIL	11/2/2021	NWW	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	PCI INDUSTRIES DOING BUSINESS AS  <b>POTTORFF</b>	DRAWING DESCR: BILL OF MATERIALS			
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