



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)  
BOARD AND CODE ADMINISTRATION DIVISION  
**NOTICE OF ACCEPTANCE (NOA)**

MIAMI-DADE COUNTY  
PRODUCT CONTROL SECTION  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/economy](http://www.miamidade.gov/economy)

**PCI Industries Inc. dba All-Lite Arch. Products**  
**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 08/27/2013, with revision **8** dated 03/22/2021, 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 #19-0711.05** 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 **Carlos M. Utrera, P.E.**



**NOA-No. 20-1222.03**  
**Expiration Date: January 22, 2025**  
**Approval Date: April 08, 2021**  
**Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

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

**A. DRAWINGS “Submitted under NOA #14-0605.12”**

1. Drawing No. **ECV-645-MD NOA**, titled “ECV-645-MD”, sheets 1 through 15 of 15, dated 08/27/2013, with revision **5** dated 10/10/2014, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, P.E.

**B. TESTS “Submitted under NOA #14-0605.12”**

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 Architectural Testing, Inc, Test Report No. **C8134.01-801-18**, dated 02/24/2014, signed and sealed by Vinu J. Abraham, P.E.
2. Test Report on High Velocity Wind Driven Rain Resistance per AMCA 550 of a Model ECV-645 Aluminum Louver, prepared by Architectural Testing, Inc, Test Report No. **C3038.02-801-44**, dated 11/02/2012, signed and sealed by Vinu J. Abraham, P.E.

**C. CALCULATIONS “Submitted under NOA #14-0605.12”**

1. ECV-545-MD louver structural calculations prepared by Rice Engineering, dated 10/22/2014, signed and sealed by Wayne K. Helmila, P.E.
2. ECV-545-MD louver calculations prepared by Rice Engineering, dated 05/15/2014, signed and sealed by L. David Rice, P.E.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS “Submitted under NOA #15-0602.02”**

1. Statement letter of code conformance to the 5<sup>th</sup> edition (2014) FBC issued by Rice Engineering, dated 05/22/2015, signed and sealed by L. David Rice, P.E.

**“Submitted under NOA #14-0605.12”**

2. No financial interest letter issued by Rice Engineering, dated 05/15/2014, signed and sealed by L. David Rice, P.E.



**Carlos M. Utrera, P.E.**  
**Product Control Examiner**  
**NOA-No. 20-1222.03**

**Expiration Date: January 22, 2025**  
**Approval Date: April 08, 2021**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**2. EVIDENCE SUBMITTED UNDER NOA # 19-0711.05**

**A. DRAWINGS**

1. Drawing No. **ECV-645-MD NOA**, titled “ECV-645-MD”, sheets 1 through 12 of 12, dated 08/27/2013, with revision 7 dated 07/30/2019, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, P.E.

**B. TESTS**

1. Test reports on
  - 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
  - 2) Large Missile Impact Test per FBC, TAS 201-94 (Level ‘E’, 80 fps)
  - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with installation diagram of Model ECV-645-MD Aluminum Louvers, prepared by Intertek, Test Report No. **J5028.01-801-18 R0**, dated 07/01/2019, signed and sealed by Tyler Westerling, P.E.

**C. CALCULATIONS**

1. ECV-545-MD NOA louver anchor calculations prepared by Rice Engineering, dated 04/26/2019, signed and sealed by Wayne K. Helmila, P.E.

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letter of code conformance to the 6<sup>th</sup> edition (2017) FBC issued by Rice Engineering, dated 04/26/2019, signed and sealed by L. David Rice, P.E.
2. No financial interest letter issued by Rice Engineering, dated 04/26/2019, signed and sealed by L. David Rice, P.E.



---

**Carlos M. Utrera, P.E.**

**Product Control Examiner**

**NOA-No. 20-1222.03**

**Expiration Date: January 22, 2025**

**Approval Date: April 08, 2021**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**3. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **ECV-645-MD NOA**, titled “ECV-645-MD”, sheets 1 through 12 of 12, dated 08/27/2013, with revision **8** dated 03/22/2021, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, P.E.

**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 code conformance to the **7<sup>th</sup> edition (2020) FBC** and no financial interest, issued by Rice Engineering, dated 03/26/2021, signed and sealed by Wayne K. Helmila, P.E.



---

**Carlos M. Utrera, P.E.**

**Product Control Examiner**

**NOA-No. 20-1222.03**

**Expiration Date: January 22, 2025**

**Approval Date: April 08, 2021**

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

- 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.

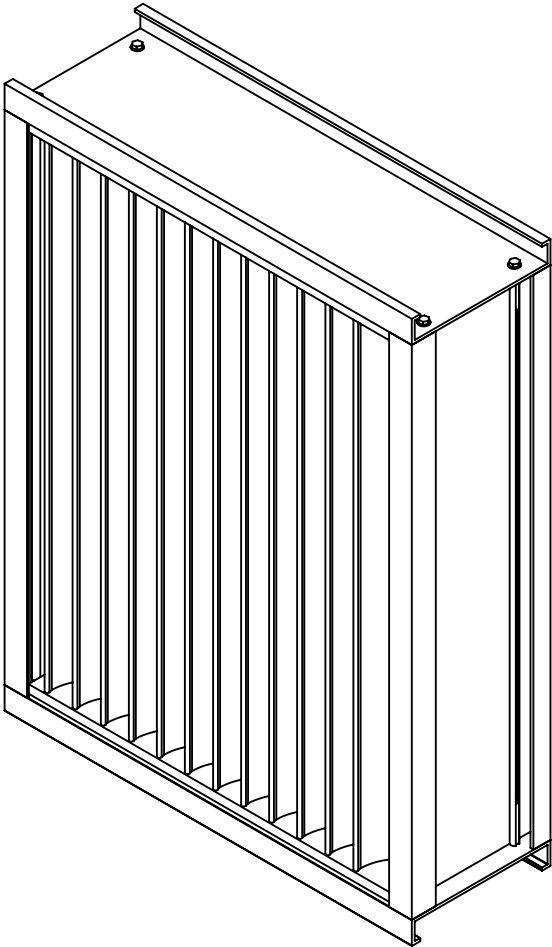
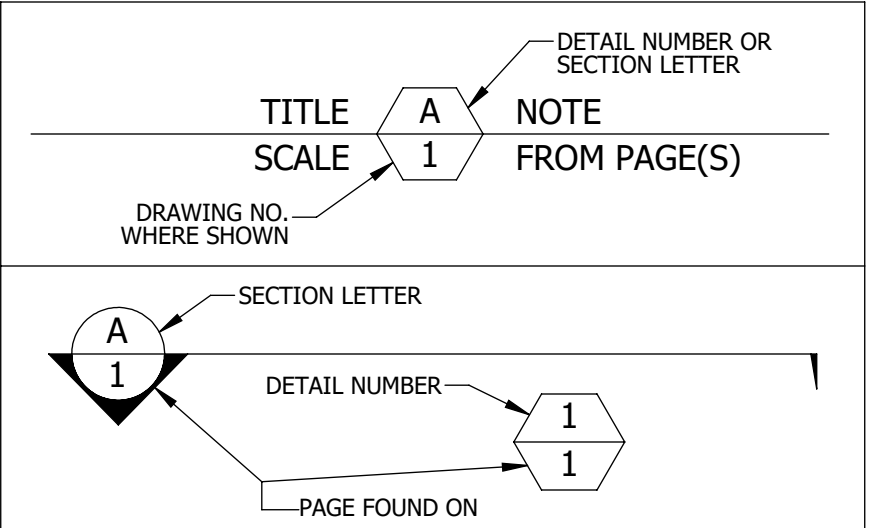


TABLE 3					
ANCHOR SCHEDULE					
SUBSTRATE	ANCHOR TYPE	MIN. EMBEDMENT	MIN. EDGE DISTANCE	MAX. EDGE DISTANCE	MAX. SPACING
CONCRETE (f'c ≥ 4000 PSI, WALL DEPTH ≤ 8 7/8")	3/8" X 4" HILTI KH-EZ SCREW ANCHOR (F-5)	3 1/4"	1 1/2"	2"	10"
CONCRETE (f'c ≥ 4000 PSI, WALL DEPTH > 8 7/8")	3/8" X 3 1/2" HILTI KH-EZ SCREW ANCHOR (F-6)	3 1/4"	1 7/8"	-	6"
GROUT-FILLED CMU (f'm ≥ 1500 PSI, WALL DEPTH ≤ 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 ≥ 1500 PSI, WALL DEPTH > 9 5/8")	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, Fy ≥ 36 KSI)	1/4" X 1" SELF-DRILLING SCREW (F-4)	FULL	1"	-	7"
STEEL STUD (MIN. 16 GA., Fy ≥ 50 KSI)	1/4" X 1" SELF-DRILLING SCREW (F-4)	FULL	1"	-	4"
WOOD (S.G. ≥ 0.43)	1/2" X 3 1/2" LAG BOLT WITH FLAT WASHER (F-7)	3"	2"	-	5"

TABLE 1		
SINGLE SECTION SIZE LIMITATIONS		
MAX DESIGN PRESSURE	MIN (W X H)	MAX (W X H)
± 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



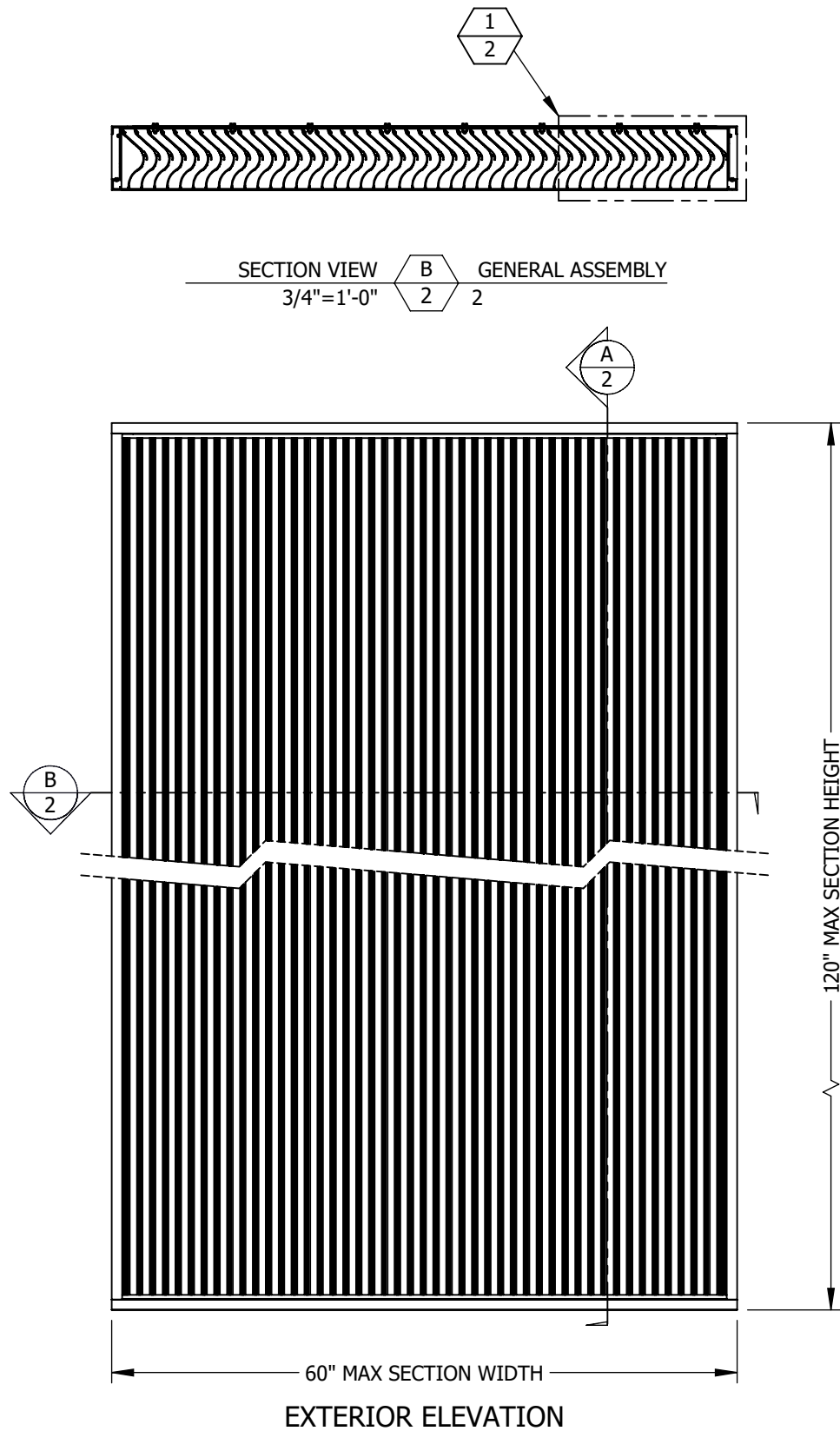
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1222.03  
Expiration Date 01/22/2025  
By [Signature]  
Miami-Dade Product Control

**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



8	UPDATED FOR NOA RENEWAL	3/22/2021	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>ALL-LITE</b> ARCHITECTURAL PRODUCTS	DRAWING DESCR: COVER SHEET				
7	REVISED PER MIAMI DADE COUNTY	7/30/2019	NWW				PROJECT: ECV-645-MD				
6	UPDATED FOR NOA RENEWAL & REVISION	4/23/2019	JMR / NW		LOCATION:						
5	CHANGED LOUVER MATERIAL TO 6063-T6	10/13/2014	NW		CUSTOMER:						
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG		PROJ. MGR:						
3	REVISED PER RICE MARKUPS	4/23/2014	JG		DRAWN BY: LGH						
2	REVISED INSTALLATION DETAILS	1/27/2014	JG		DATE: 8/27/2013						
REV.	DESCRIPTION	DATE	DRAWN BY	CHK'D BY: NW							
				ORDER NUMBER							
				P.O. NUMBER							
				DRAWING NUMBER							
				ECV-645-MD NOA							

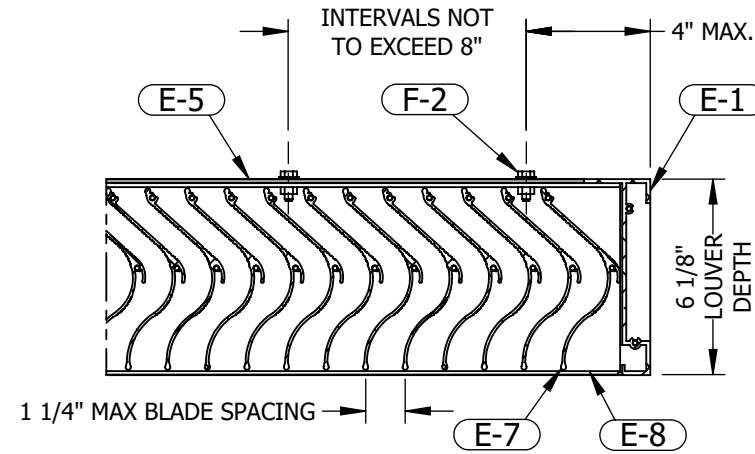
C:\Users\inwoodworth\Desktop\Miami-Dade Updates (2020)\ECV-645-MD\




## RICE ENGINEERING

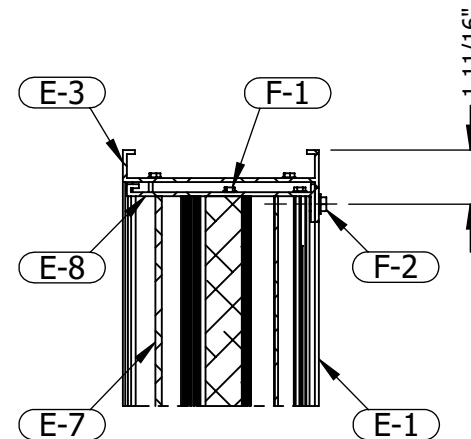
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com

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



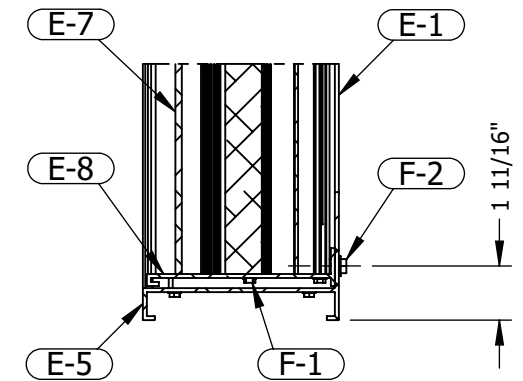
IN FLANGED CONFIGURATIONS:  
E-2 WILL BE USED IN PLACE OF E-1  
E-6 WILL BE USED IN PLACE OF E-5

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1222.03  
Expiration Date 01/22/2025  
By   
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

## P.E. STAMP



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
2	REVISED INSTALLATION DETAILS	1/27/2014	JG
REV.	DESCRIPTION	DATE	DRAWN BY

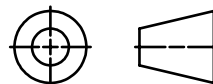
UNLESS OTHERWISE SPECIFIED  
DIMENSION ARE IN INCHES.

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  
**ALL-LITE**  
ARCHITECTURAL PRODUCTS

DRAWING DESCR: GENERAL LOUVER ASSEMBLY

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 8/27/2013

SHEET: 2 of 12

CHK'D BY: NW

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

DRAWN BY: LGH

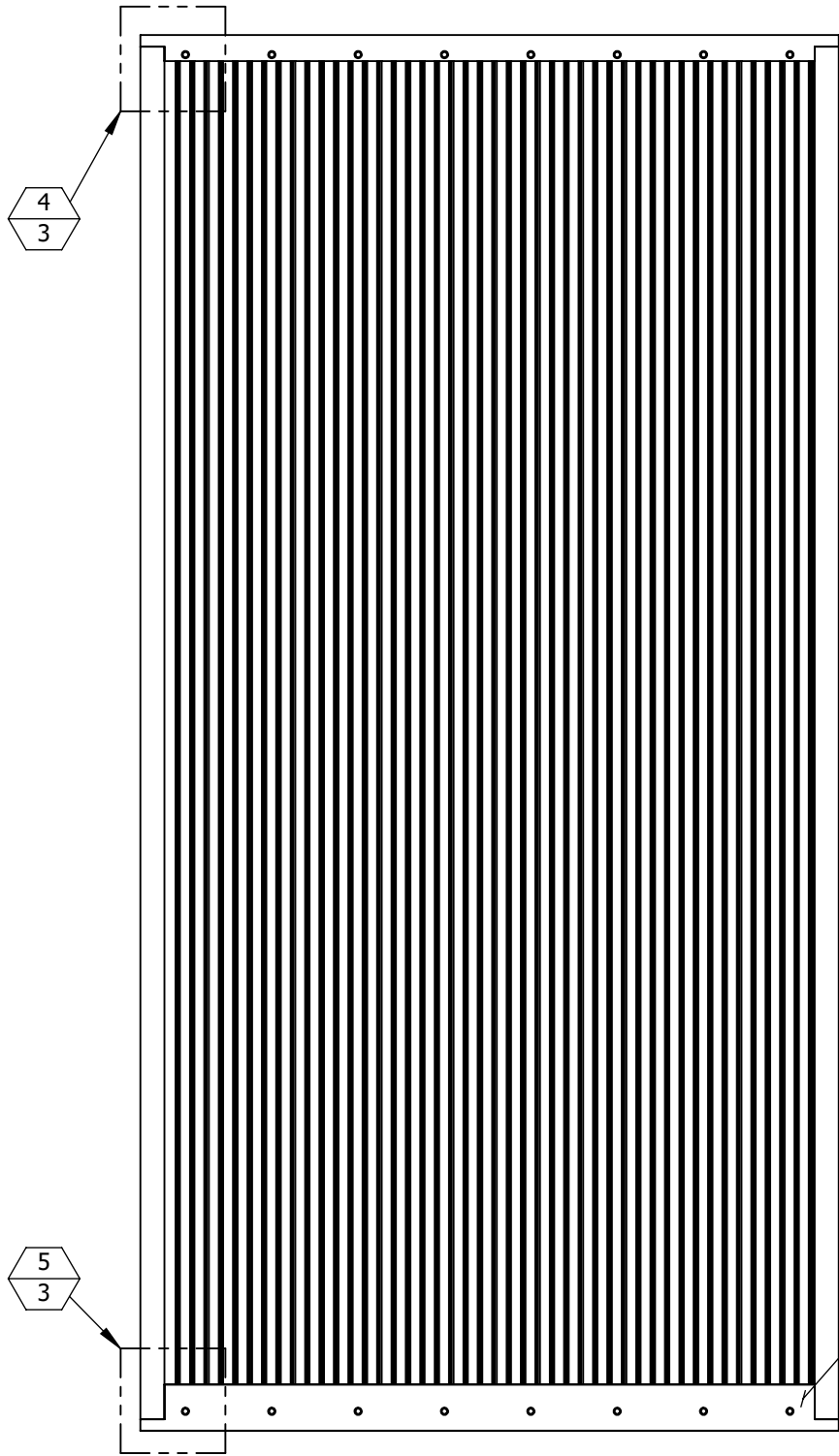
ORDER NUMBER

P.O. NUMBER

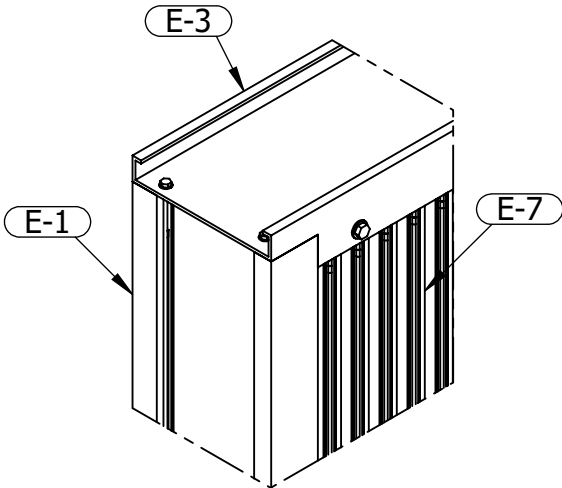
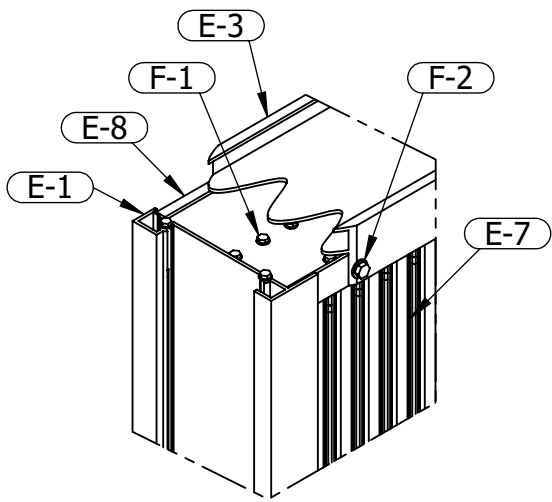
DRAWING NUMBER

ECV-645-MD NOA

GENERAL LOUVER ASSEMBLY



INTERIOR ELEVATION



CONSTRUCTION 4 3 DETAIL

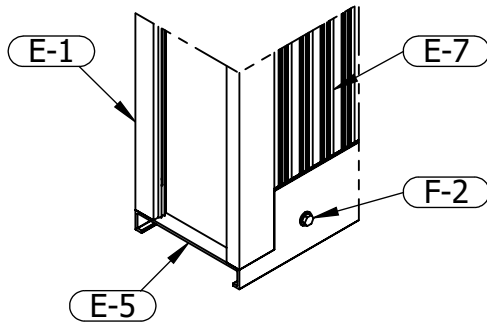
2" = 1'-0"

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 Inc d/b/a  
**ALL-LITE**  
Ft Worth TX  
SO# 123456

Miami Dade County  
Product Control  
Approved



CONSTRUCTION 5 3 DETAIL

2"=1'-0"

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. 20-1222.03

Expiration Date 01/22/2025

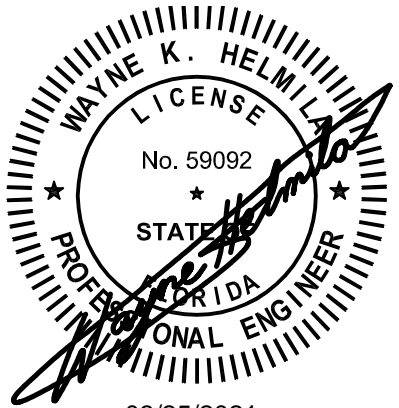
By   
Miami-Dade Product Control

**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-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

P.E. STAMP



03/25/2021  
COA: 9090

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
2	REVISED INSTALLATION DETAILS	1/27/2014	JG
REV.	DESCRIPTION	DATE	DRAWN BY

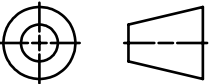
UNLESS OTHERWISE SPECIFIED  
DIMENSION ARE IN INCHES.

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

**ALL-LITE**  
ARCHITECTURAL PRODUCTS

DRAWING DESCR: GENERAL LOUVER ASSEMBLY

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 8/27/2013

SHEET: 3 of 12

CHK'D BY: NW

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

DRAWN BY: LGH

ORDER NUMBER

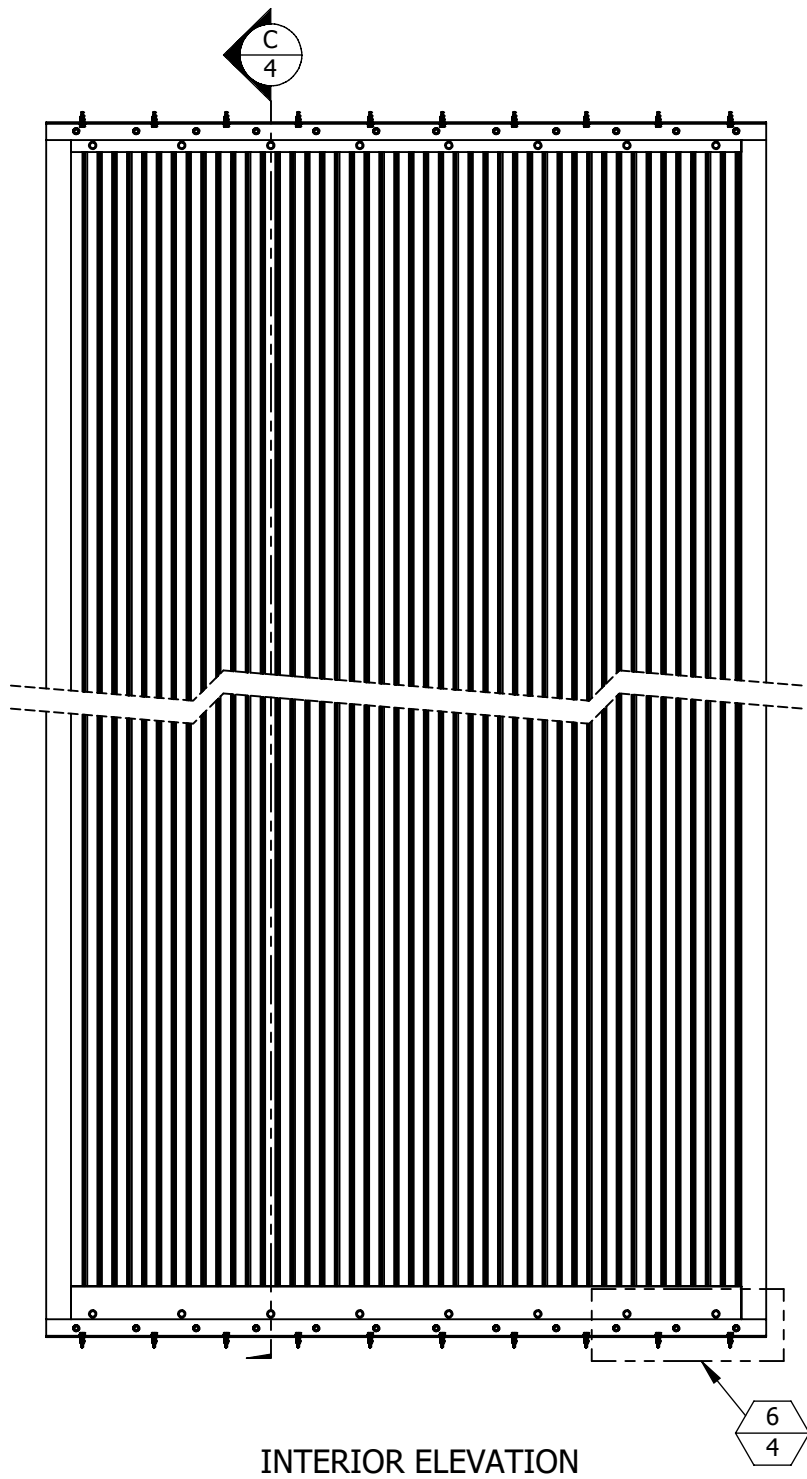
P.O. NUMBER

DRAWING NUMBER

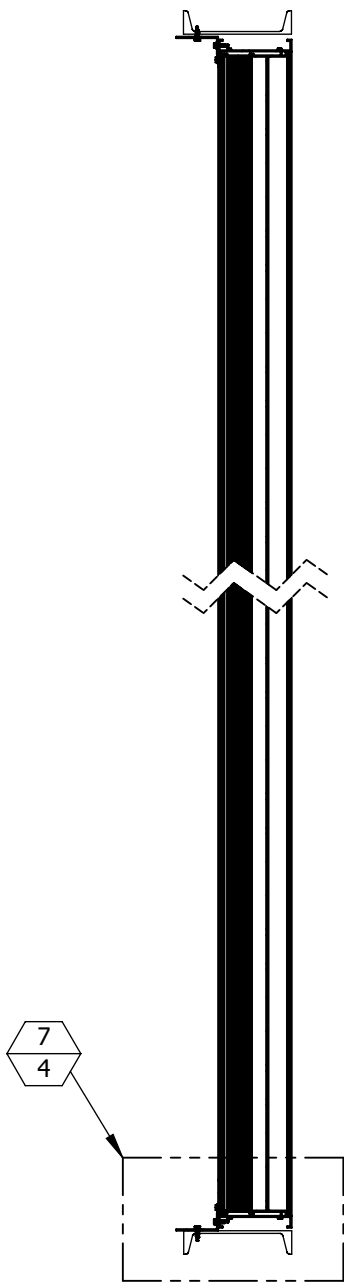
ECV-645-MD NOA

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

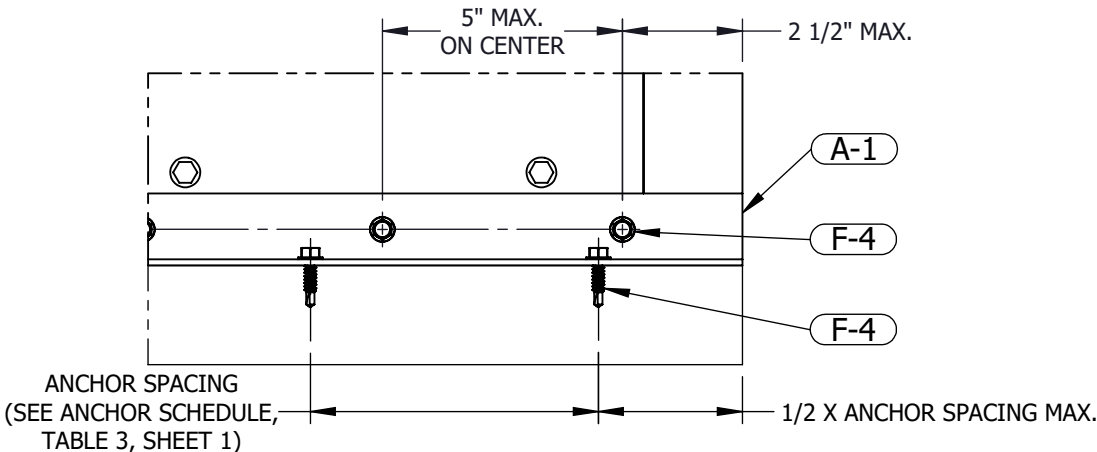
SINGLE SECTION WIDE X SINGLE  
SECTION HIGH - STEEL CONDITION



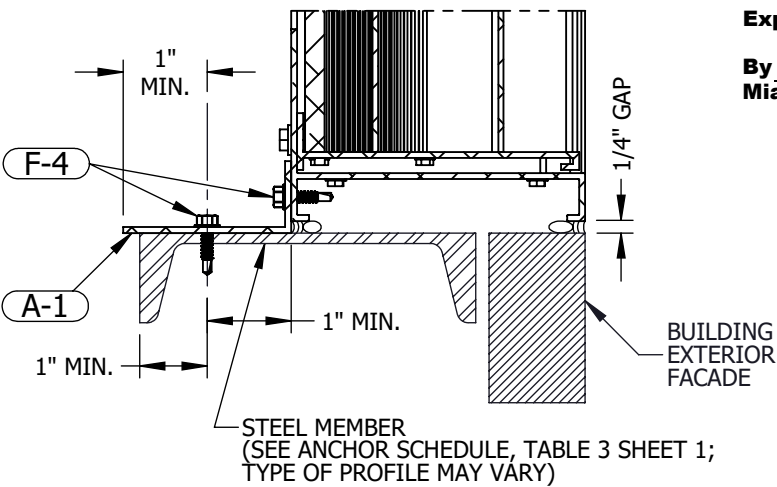
INTERIOR ELEVATION




SINGLE CONDITION HIGH C  
3/4"=1'-0" 4 STEEL CONDITION 4



TOP & BTM MOUNT DETAIL 6  
3"=1'-0" 4 STEEL CONDITION 4, 9

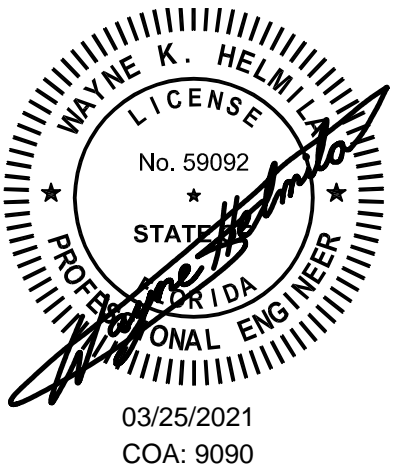


TOP & BOTTOM MOUNT DETAIL 7  
3"=1'-0" 4 STEEL CONDITION 4, 9

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1222.03  
Expiration Date 01/22/2025  
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-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

P.E. STAMP

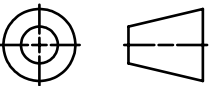


8	UPDATED FOR NOA RENEWAL	3/22/2021	NWW
7	REVISED PER MIAMI DADE COUNTY	7/30/2019	NWW
6	UPDATED FOR NOA RENEWAL & REVISION	4/23/2019	JMR / NW
5	CHANGED LOUVER MATERIAL TO 6063-T6	10/13/2014	NW
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG
3	REVISED PER RICE MARKUPS	4/23/2014	JG
2	REVISED INSTALLATION DETAILS	1/27/2014	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

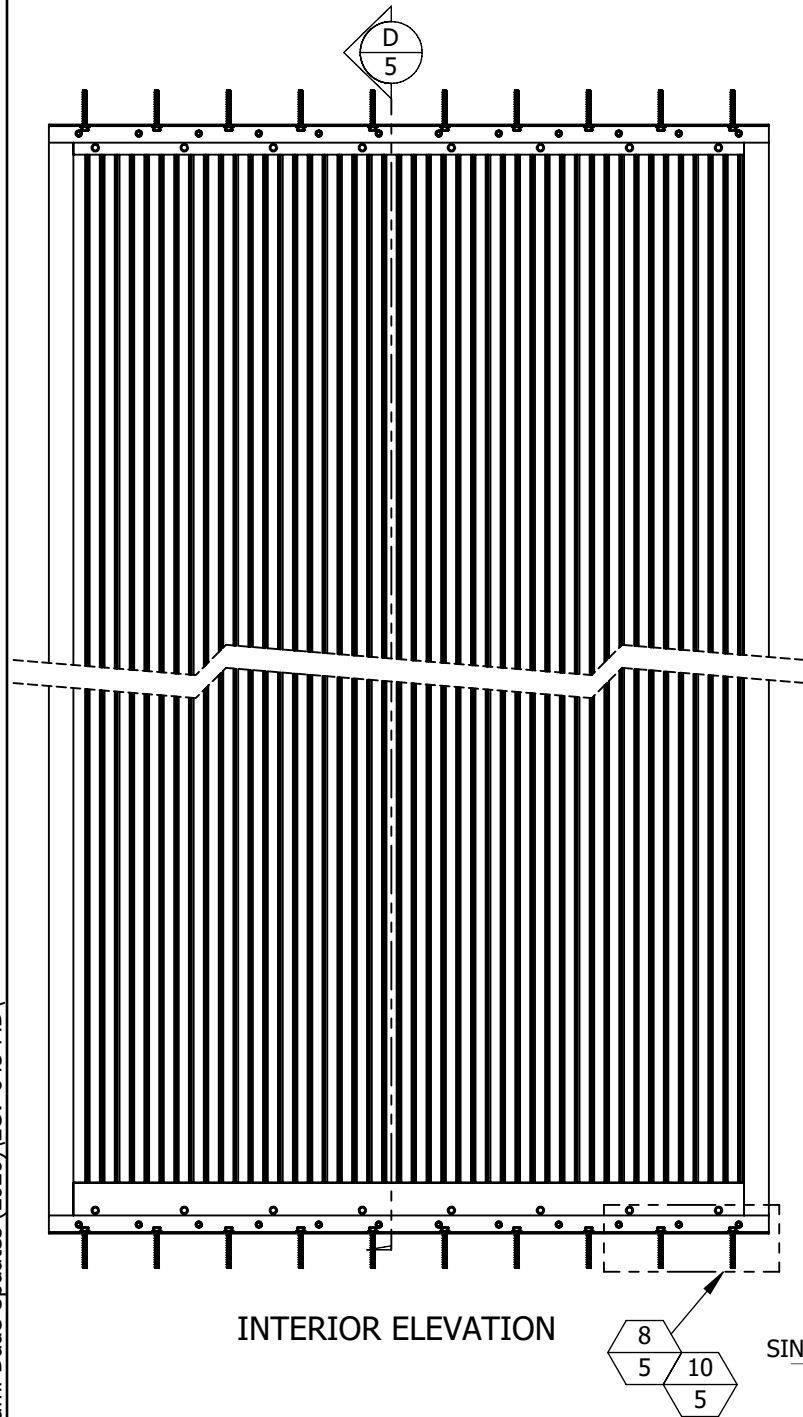


PCI INDUSTRIES DOING BUSINESS AS

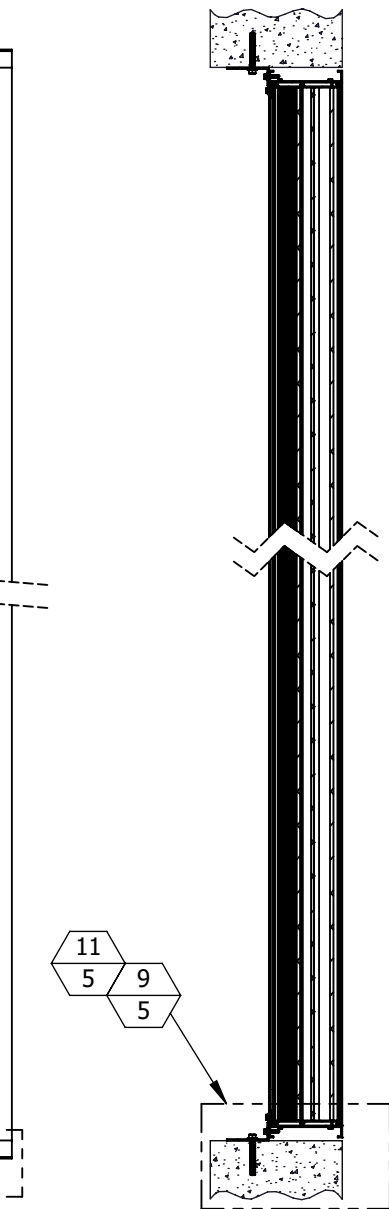
**ALL-LITE**  
ARCHITECTURAL PRODUCTS

DRAWING DESCR: SINGLE SECTION WIDE X SINGLE SECTION HIGH - STEEL 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	DRAWING NUMBER
SHEET: 4 of 12	SCALE: 3/4"=1'-0"			ECV-645-MD NOA

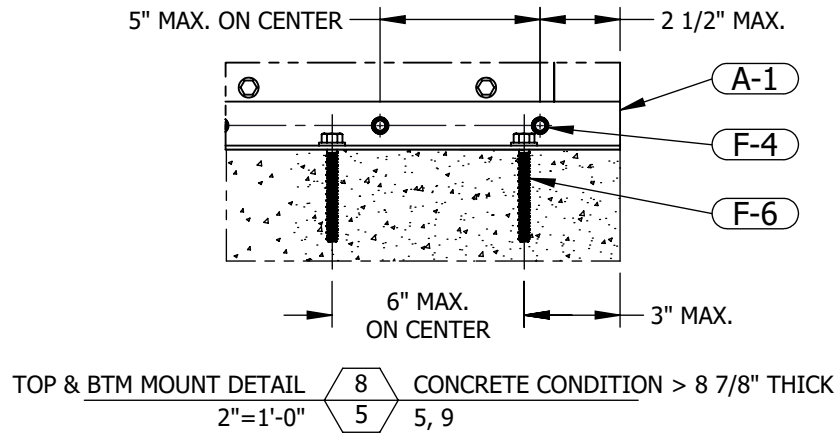
C:\Users\inwoodworth\Desktop\Miami-Dade Updates (2020)\ECV-645-MD\



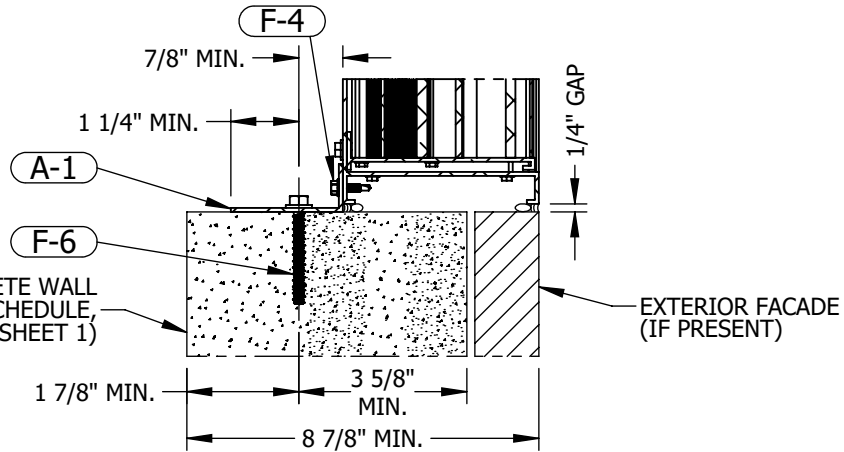
INTERIOR ELEVATION



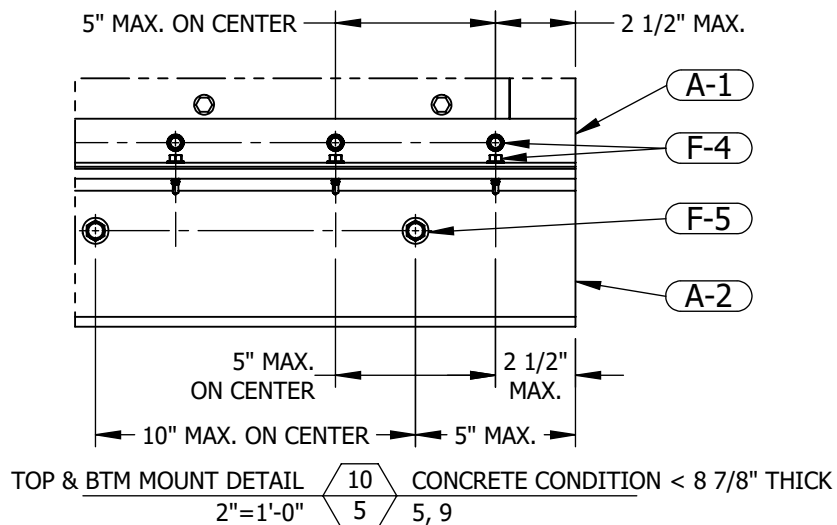
SINGLE SECTION HIGH D CONCRETE CONDITION  
3/4" = 1'-0" 5 5



TOP & BTM MOUNT DETAIL 8 CONCRETE CONDITION > 8 7/8" THICK  
2"=1'-0" 5 5, 9



TOP & BTM MOUNT DETAIL 9 CONCRETE CONDITION > 8 7/8" THICK  
2"=1'-0" 5 5, 9



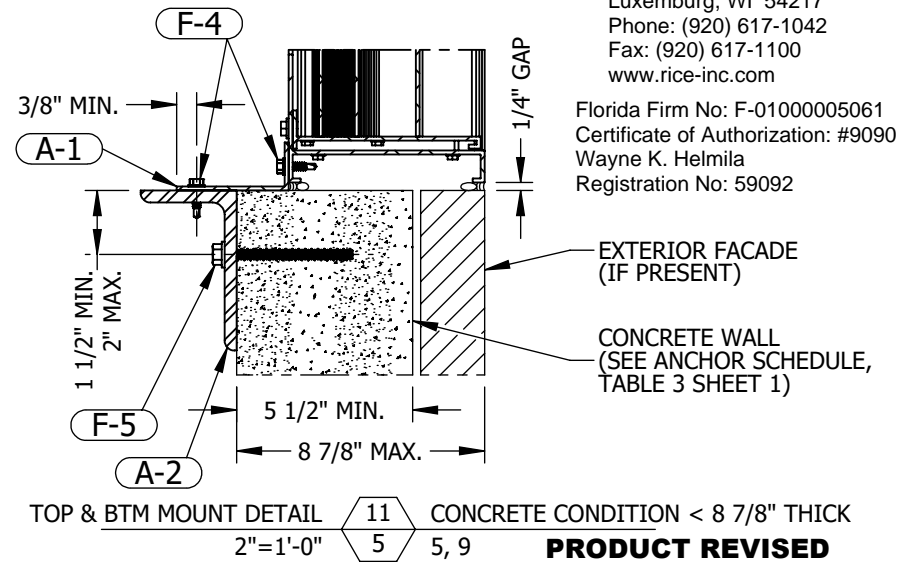
TOP & BTM MOUNT DETAIL 10 CONCRETE CONDITION < 8 7/8" THICK  
2"=1'-0" 5 5, 9

## SINGLE SECTION WIDE X SINGLE SECTION HIGH - CONCRETE CONDITION

**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



TOP & BTM MOUNT DETAIL 11 CONCRETE CONDITION < 8 7/8" THICK  
2"=1'-0" 5 5, 9

**PRODUCT REVISED**  
as complying with the Florida  
Building Code

NOA-No. 20-1222.03


Expiration Date 01/22/2025

By   
Miami-Dade Product Control

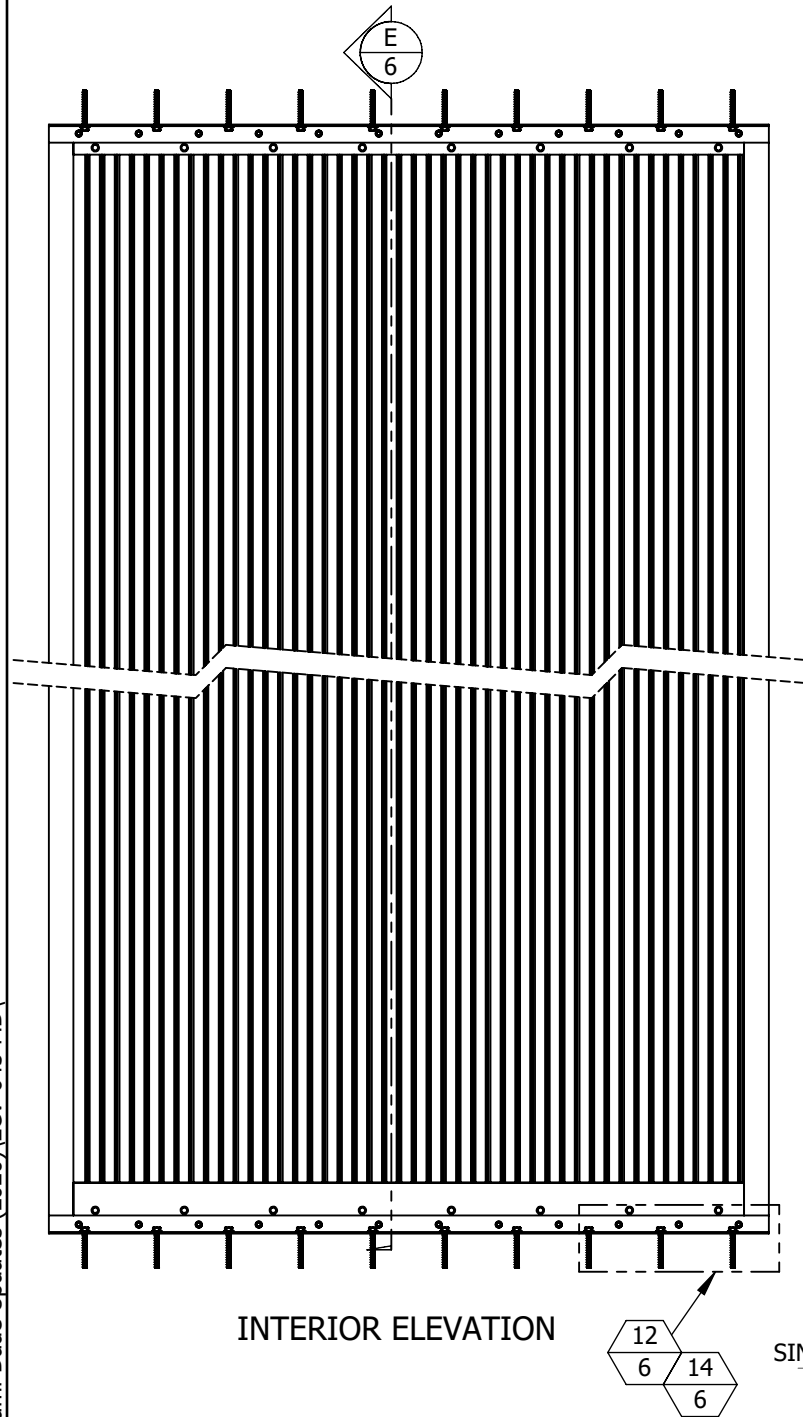
P.E. STAMP



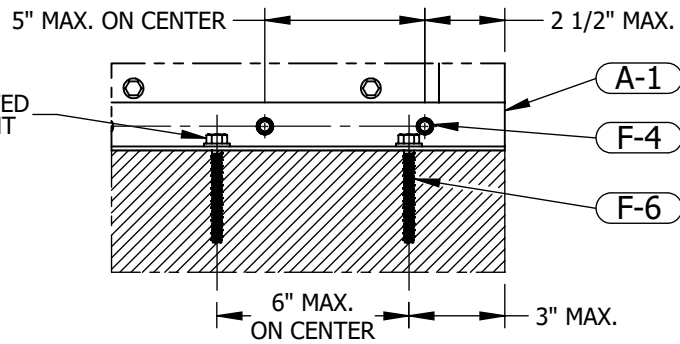
03/25/2021  
COA: 9090

8	UPDATED FOR NOA RENEWAL	3/22/2021	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>ALL-LITE</b>  <b>ARCHITECTURAL PRODUCTS</b>	DRAWING DESCR: SINGLE SECTION WIDE X SINGLE SECTION HIGH - CONCRETE CONDITION				
7	REVISED PER MIAMI DADE COUNTY	7/30/2019	NWW				PROJECT: ECV-645-MD				
6	UPDATED FOR NOA RENEWAL & REVISION	4/23/2019	JMR / NW		LOCATION:						
5	CHANGED LOUVER MATERIAL TO 6063-T6	10/13/2014	NW		CUSTOMER:						
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG		THIRD ANGLE PROJECTION  		PROJ. MGR:		DRAWN BY: LGH		
3	REVISED PER RICE MARKUPS	4/23/2014	JG				DATE: 8/27/2013	CHK'D BY: NW	ORDER NUMBER	P.O. NUMBER	DRAWING NUMBER
2	REVISED INSTALLATION DETAILS	1/27/2014	JG				SHEET: 5 of 12	SCALE: 3/4"=1'-0"			ECV-645-MD NOA
REV.	DESCRIPTION	DATE	DRAWN BY								

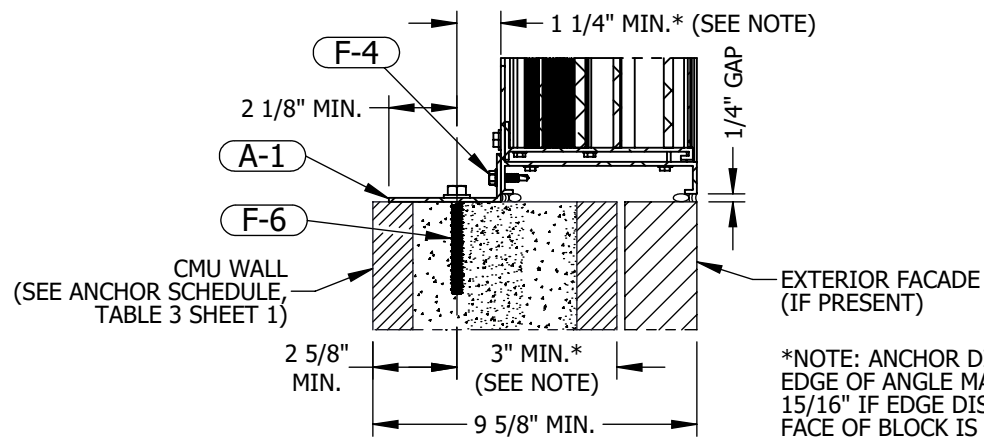
C:\Users\inwoodworth\Desktop\Miami-Dade Updates (2020)\ECV-645-MD\



NOTE:  
NO ANCHOR MAY BE LOCATED  
CLOSER THAN 1" TO A JOINT  
BETWEEN CMU BLOCKS

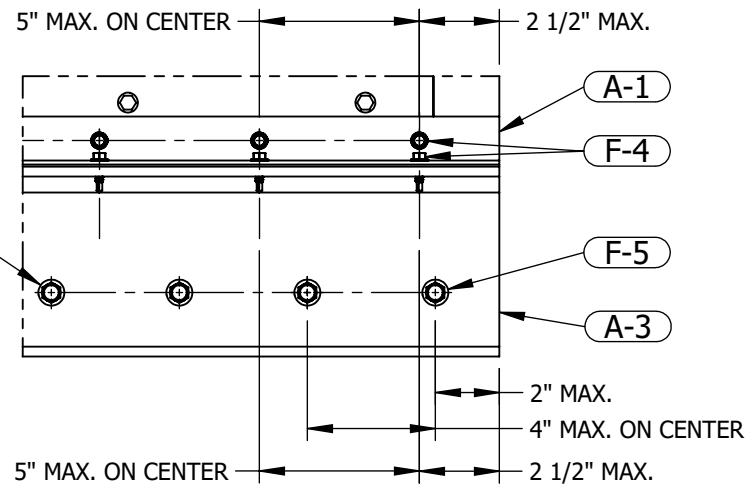


TOP & BTM MOUNT DETAIL 12 CMU CONDITION > 9 5/8" THICK  
6 6, 9  
2"=1'-0"



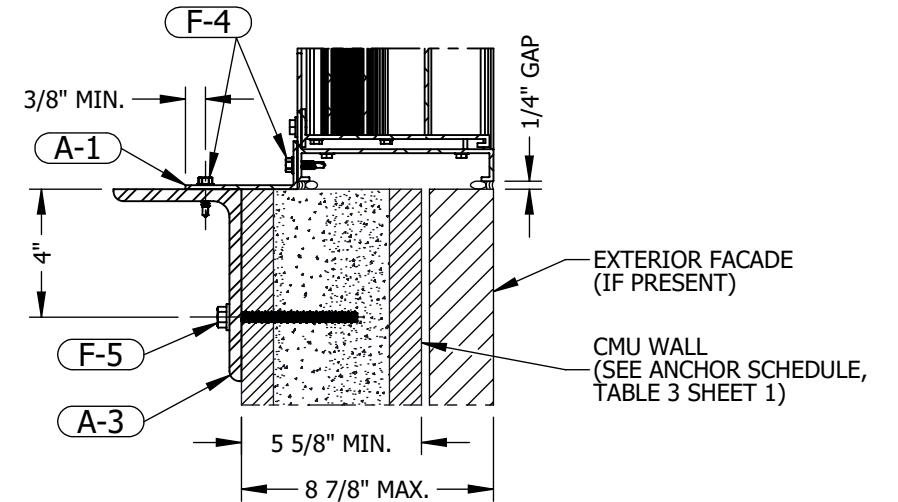
TOP & BTM MOUNT DETAIL 13 CMU CONDITION > 9 5/8" THICK  
6 6, 9  
2"=1'-0"

NOTE:  
NO ANCHOR MAY BE LOCATED  
CLOSER THAN 1" TO A VERTICAL  
JOINT OR 1 1/4" TO A HORIZONTAL  
JOINT BETWEEN CMU BLOCKS



TOP & BTM MOUNT DETAIL 14 CMU CONDITION < 8 7/8" THICK  
6 6, 9  
2"=1'-0"

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



TOP & BTM MOUNT DETAIL 15 CMU CONDITION < 8 7/8" THICK  
6 6, 9  
2"=1'-0"

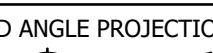
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1222.03

Expiration Date 01/22/2025

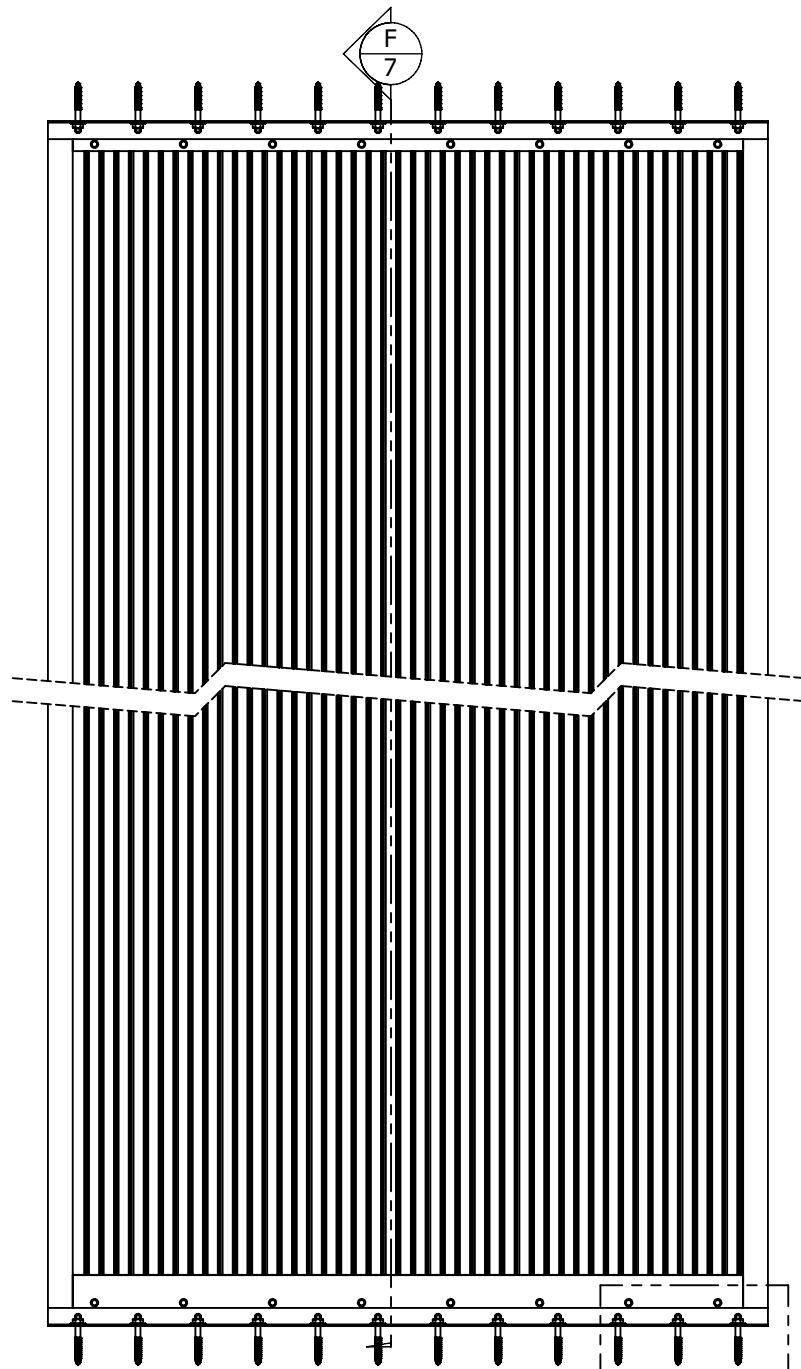
By   
**Miami-Dade Product Control**  
**P.E. STAMP**

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



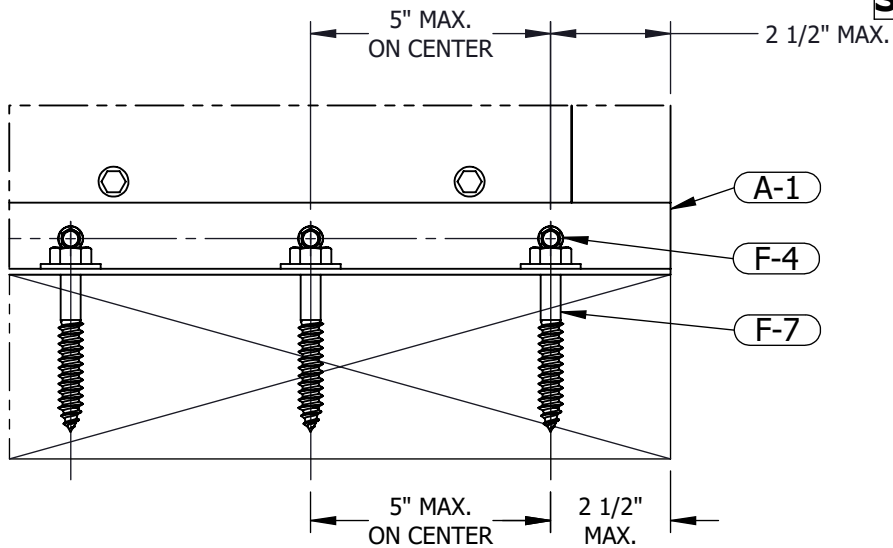
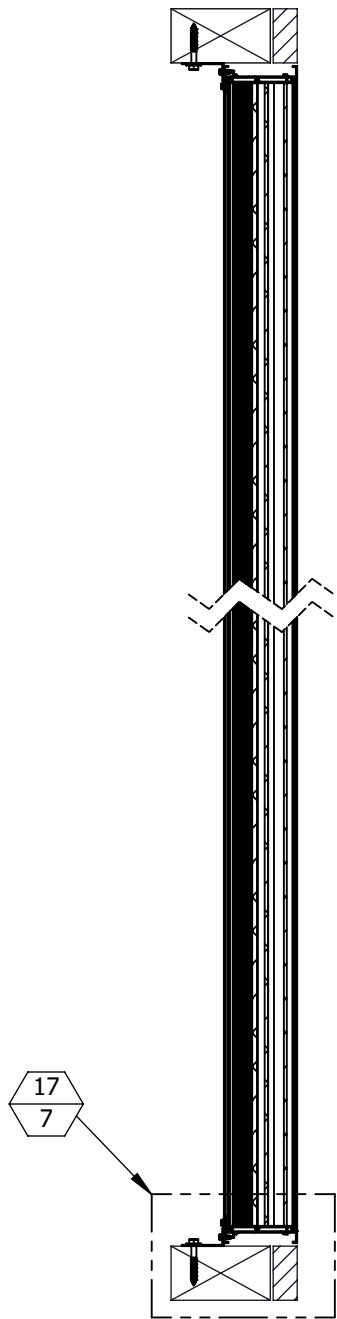
8	UPDATED FOR NOA RENEWAL	3/22/2021	NWW	UNLESS OTHERWISE SPECIFIED DIMENSION ARE IN INCHES.  TOLERANCE UNLESS NOTED: X.X ±0.030 X.XX ±0.015 X.XXX ±0.010 ANGLE ±1° FRACTION ±1/16  MAX HOLE BREAKOUT: 15% OF MATERIAL THICKNESS	5101 Blue Mound Road Fort Worth, Texas 76106 Phone: 817-509-2300 Fax: 817-831-3110	THIRD ANGLE PROJECTION 	PCI INDUSTRIES DOING BUSINESS AS <b>ALL-LITE</b> ARCHITECTURAL PRODUCTS	DRAWING DESCR: SINGLE SECTION WIDE X SINGLE SECTION HIGH - CMU CONDITION				
7	REVISED PER MIAMI-DADE COUNTY	7/30/2019	NWW					PROJECT: ECV-645-MD				
6	UPDATED FOR NOA RENEWAL & REVISION	4/23/2019	JMR / NW					LOCATION:				
5	CHANGED LOUVER MATERIAL TO 6063-T6	10/13/2014	NW					CUSTOMER:				
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG					PROJ. MGR:				
3	REVISED PER RICE MARKUPS	4/23/2014	JG					DRAWN BY: LGH				
2	REVISED INSTALLATION DETAILS	1/27/2014	JG	MAX HOLE BREAKOUT: 15% OF MATERIAL THICKNESS				DATE: 8/27/2013	CHK'D BY: NW	ORDER NUMBER	P.O. NUMBER	DRAWING NUMBER
REV.	DESCRIPTION	DATE	DRAWN BY					SHEET: 6 of 12	SCALE: 3/4"=1'-0"			ECV-645-MD NOA

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

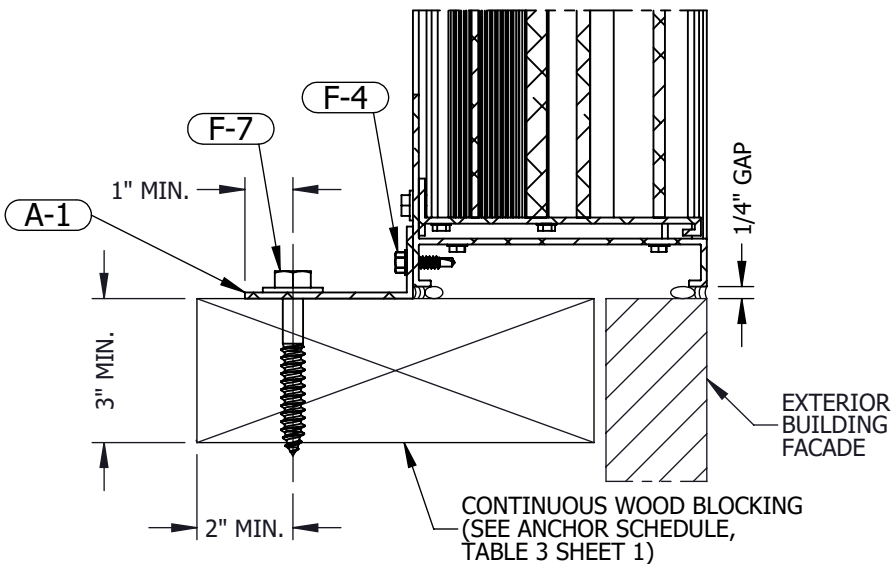


INTERIOR ELEVATION

16  
7 SINGLE SECTION HIGH 3/4"=1'-0" F 7 WOOD CONDITION 7




TOP & BTM MOUNT DETAIL 16 7 WOOD CONDITION 3"=1'-0" 7, 9

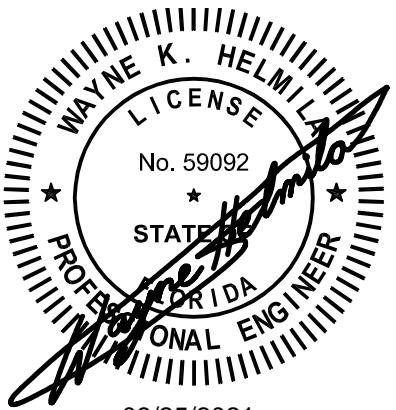


TOP & BTM MOUNT DETAIL 17 7 WOOD CONDITION 3"=1'-0" 7, 9

SINGLE SECTION WIDE X SINGLE SECTION HIGH - WOOD CONDITION

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1222.03  
Expiration Date 01/22/2025  
By   
Miami-Dade Product Control

P.E. STAMP



03/25/2021  
COA: 9090

**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

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
2	REVISED INSTALLATION DETAILS	1/27/2014	JG
REV.	DESCRIPTION	DATE	DRAWN BY

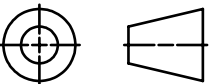
UNLESS OTHERWISE SPECIFIED  
DIMENSION ARE IN INCHES.

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

**ALL-LITE**  
ARCHITECTURAL PRODUCTS

DRAWING DESCR: SINGLE SECTION WIDE X SINGLE SECTION HIGH - WOOD CONDITION

PROJECT: ECV-645-MD

LOCATION:

CUSTOMER:

PROJ. MGR:

DATE: 8/27/2013

SHEET: 7 of 12

CHK'D BY: NW

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

DRAWN BY: LGH

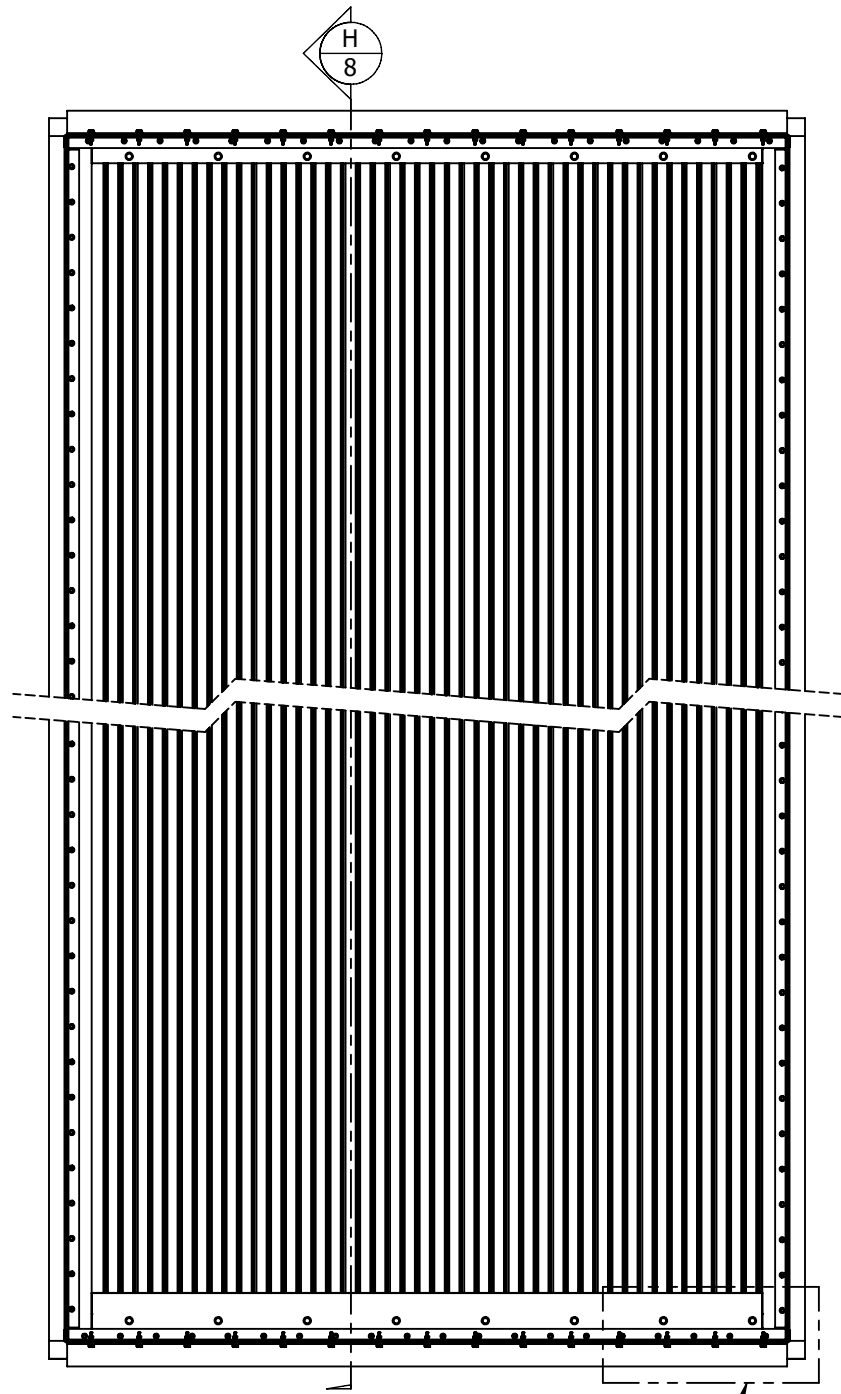
ORDER NUMBER

P.O. NUMBER

DRAWING NUMBER

ECV-645-MD NOA

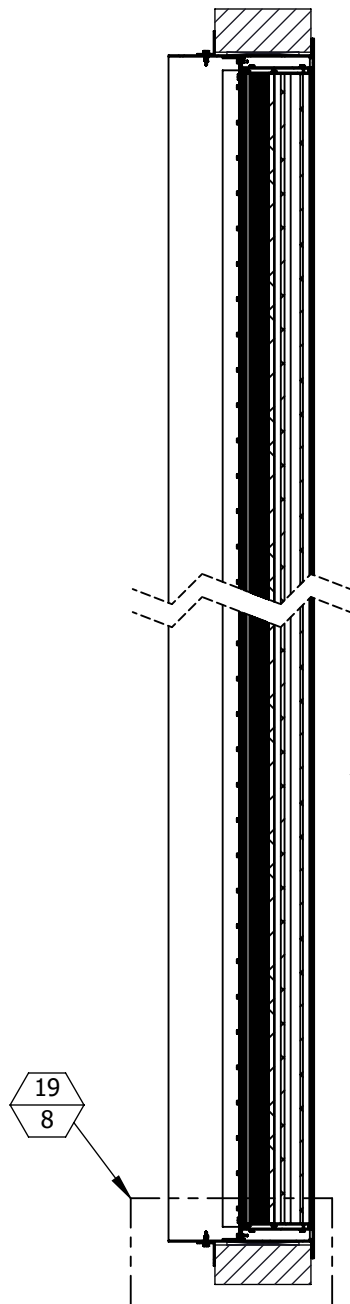
C:\Users\inwoodworth\Desktop\Miami-Dade Updates (2020)\ECV-645-MD\



INTERIOR ELEVATION

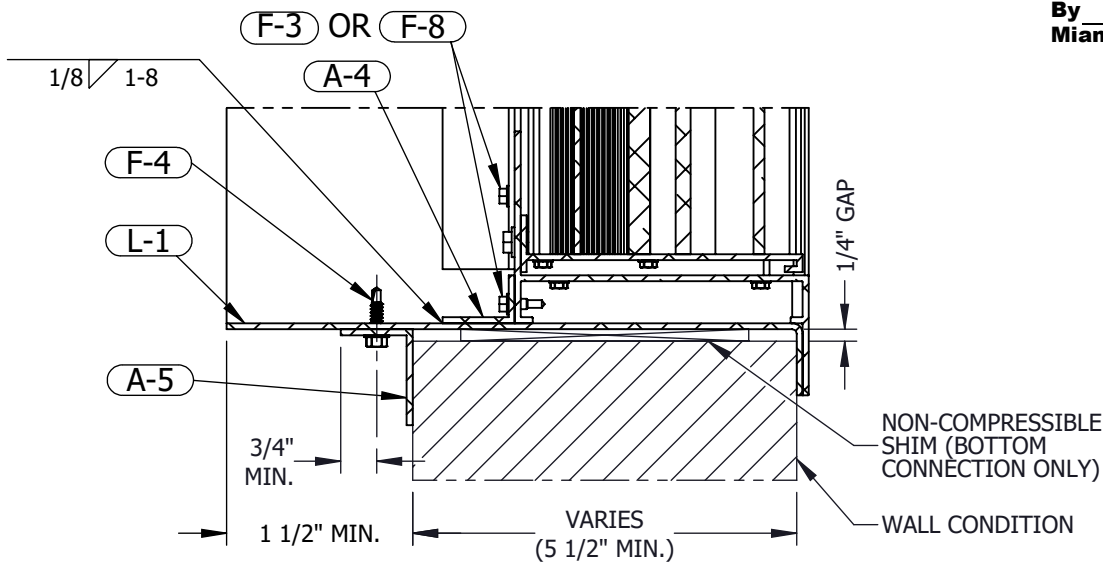
18  
8

SLEEVED SINGLE SECTION HIGH  
3/4" = 1'-0" H  
8 ALL CONDITIONS  
8



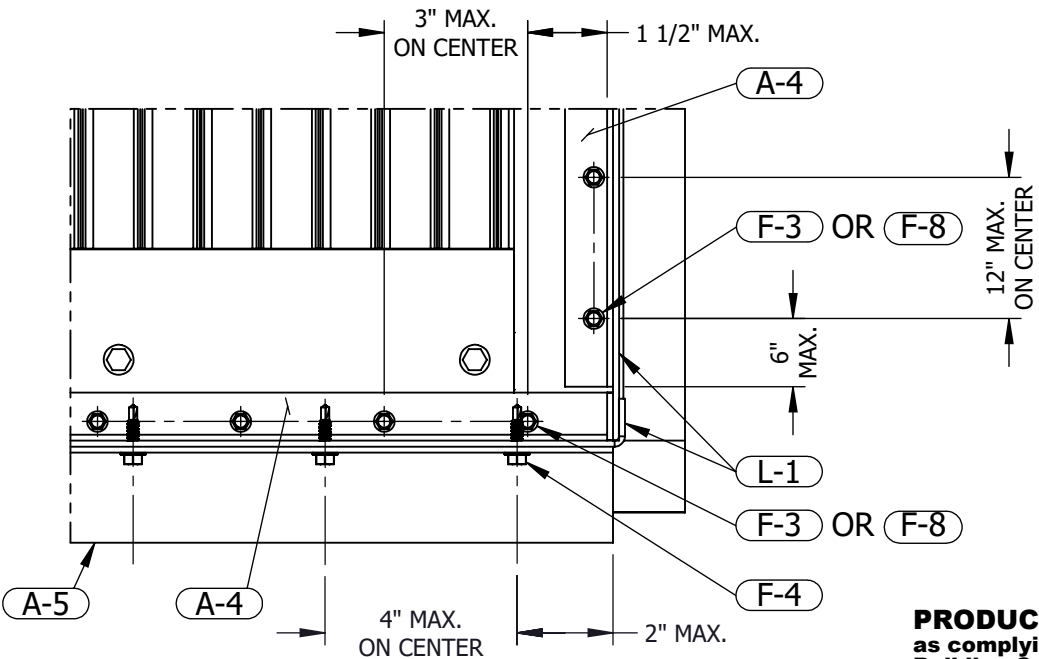
19  
8


SLEEVED TOP & BTM MOUNT DETAIL 18  
8 ALL CONDITIONS  
3"=1'-0" 8, 9



SLEEVED TOP & BTM MOUNT DETAIL 19  
8 ALL CONDITIONS  
3"=1'-0" 8, 9

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



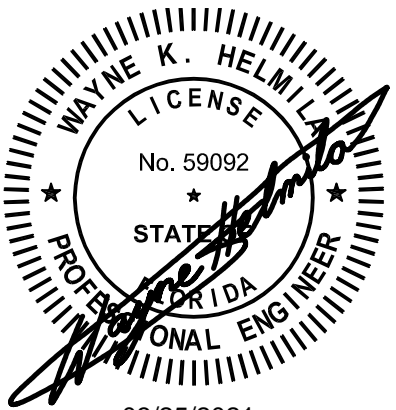
**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
**NOA-No.** 20-1222.03  
**Expiration Date** 01/22/2025  
**By**   
**Miami-Dade Product Control**

**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-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

**P.E. STAMP**



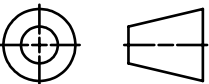
03/25/2021  
COA: 9090

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
2	REVISED INSTALLATION DETAILS	1/27/2014	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

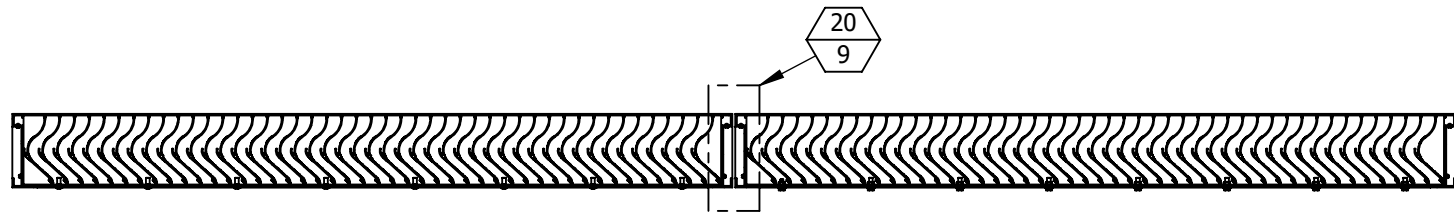


PCI INDUSTRIES DOING BUSINESS AS

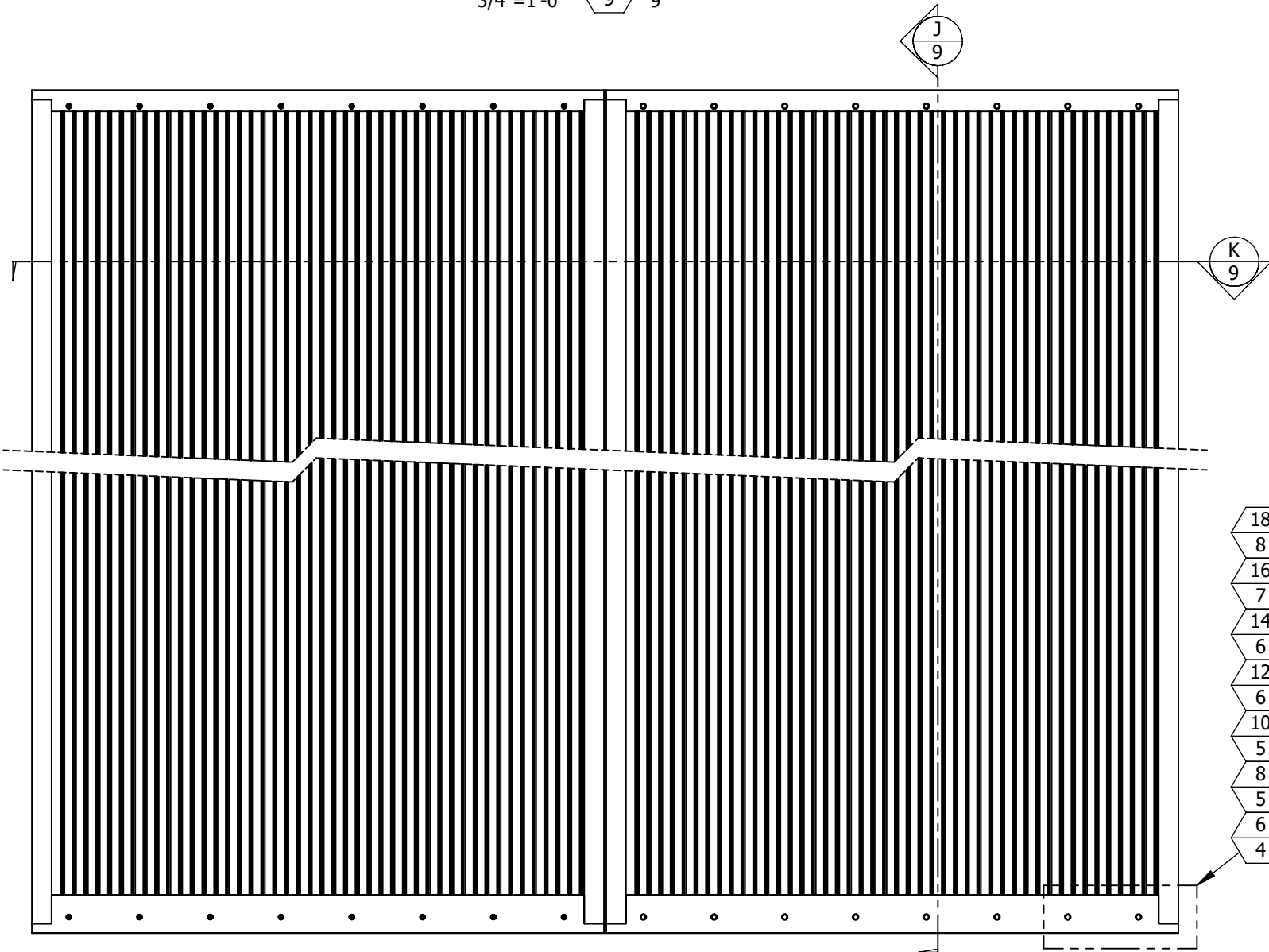
**ALL-LITE**  
ARCHITECTURAL PRODUCTS

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

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



MULTI-SECTION WIDE  
3/4"=1'-0" K 9 ALL CONDITIONS



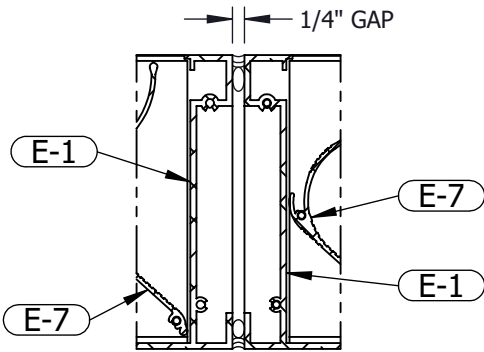
INTERIOR ELEVATION  
QUANTITY SECTIONS WIDE IS UNLIMITED

**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

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



MULTI-SECTION WIDE 20/9 VERTICAL MULLION  
3"=1'-0" 9

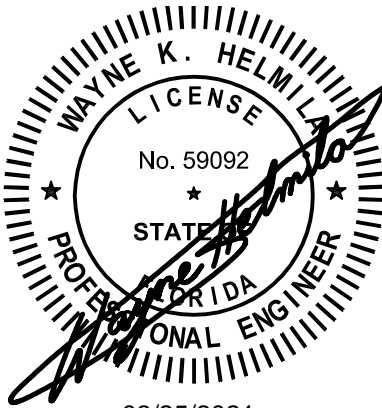
QUANTITY SECTIONS WIDE IS UNLIMITED

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1222.03

Expiration Date 01/22/2025

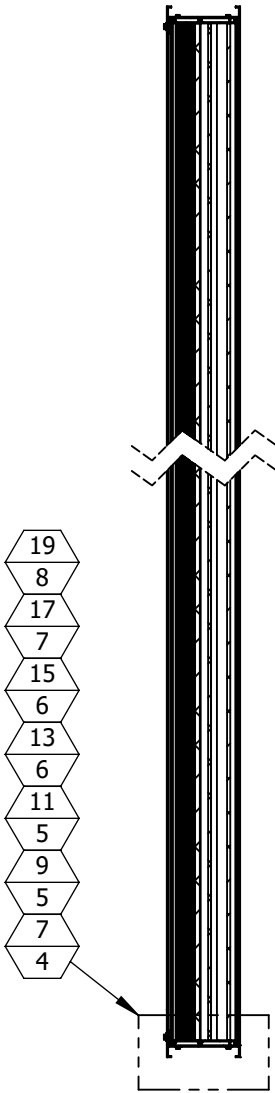
By *[Signature]*  
Miami-Dade Product Control

**P.E. STAMP**



03/25/2021  
COA: 9090

MULTI-SECTION WIDE J 9 ALL CONDITIONS  
3/4"=1'-0" 9



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
2	REVISED INSTALLATION DETAILS	1/27/2014	JG
REV.	DESCRIPTION	DATE	DRAWN BY

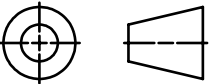
UNLESS OTHERWISE SPECIFIED  
DIMENSION ARE IN INCHES.

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

**ALL-LITE**  
ARCHITECTURAL PRODUCTS

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

PART NO: E-1

PART NAME: LOUVER JAMB

MATERIAL: 0.125" THICK 6063-T5 EXTRUDED ALUMINUM

SCALE: 6"=1'-0"

PART NO: E-2

PART NAME: LOUVER JAMB, FLANGED

MATERIAL: 0.125" THICK 6063-T5 EXTRUDED ALUMINUM

SCALE: 6"=1'-0"

PART NO: E-3

PART NAME: LOUVER HEAD

MATERIAL: 0.125" THICK 6063-T6 EXTRUDED ALUMINUM

SCALE: 6"=1'-0"

PART NO: E-4

PART NAME: LOUVER HEAD, FLANGED

MATERIAL: 0.125" THICK 6063-T6 EXTRUDED ALUMINUM

SCALE: 6"=1'-0"

PART NO: E-5

PART NAME: LOUVER SILL

MATERIAL: 0.125" THICK 6063-T6 EXTRUDED ALUMINUM

SCALE: 6"=1'-0"

PART NO: E-6

PART NAME: LOUVER SILL, FLANGED

MATERIAL: 0.125" THICK 6063-T6 EXTRUDED ALUMINUM

SCALE: 6"=1'-0"

PART NO: E-7

PART NAME: BLADE

MATERIAL: 0.081" THICK 6063-T6 EXTRUDED ALUMINUM

SCALE: 6"=1'-0"

**BILL OF MATERIALS**

**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

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1222.03  
Expiration Date 01/22/2025  
By   
Miami-Dade Product Control

PART NO: E-8

PART NAME: LOUVER SUBFRAME

MATERIAL: 0.125" THICK 6063-T6 EXTRUDED ALUMINUM

SCALE: 6"=1'-0"

**P.E. STAMP**

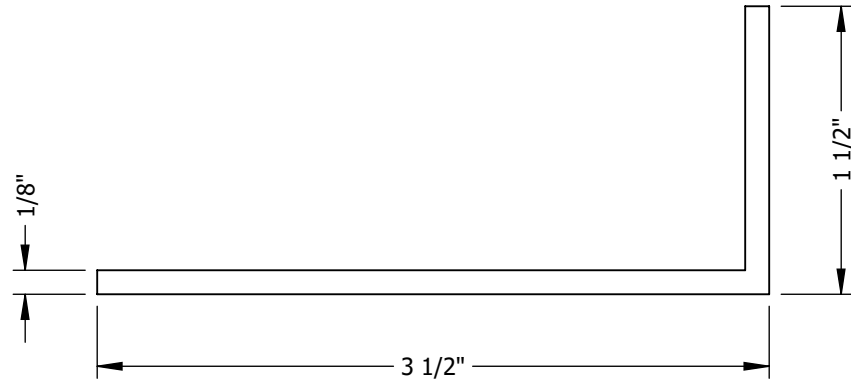
03/25/2021  
COA: 9090

8	UPDATED FOR NOA RENEWAL	3/22/2021	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>ALL-LITE</b> ARCHITECTURAL PRODUCTS	DRAWING DESCR: BILL OF MATERIALS			
7	REVISED PER MIAMI DADE COUNTY	7/30/2019	NWW					PROJECT: ECV-645-MD			
6	UPDATED FOR NOA RENEWAL & REVISION	4/23/2019	JMR / NW					LOCATION:			
5	CHANGED LOUVER MATERIAL TO 6063-T6	10/13/2014	NW					CUSTOMER:			
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG					PROJ. MGR:		DRAWN BY: LGH	
3	REVISED PER RICE MARKUPS	4/23/2014	JG					DATE: 8/27/2013	CHK'D BY: NW	ORDER NUMBER	P.O. NUMBER
2	REVISED INSTALLATION DETAILS	1/27/2014	JG					SHEET: 10 of 12	SCALE: AS NOTED		DRAWING NUMBER
REV.	DESCRIPTION	DATE	DRAWN BY	ECV-645-MD NOA							

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

## 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

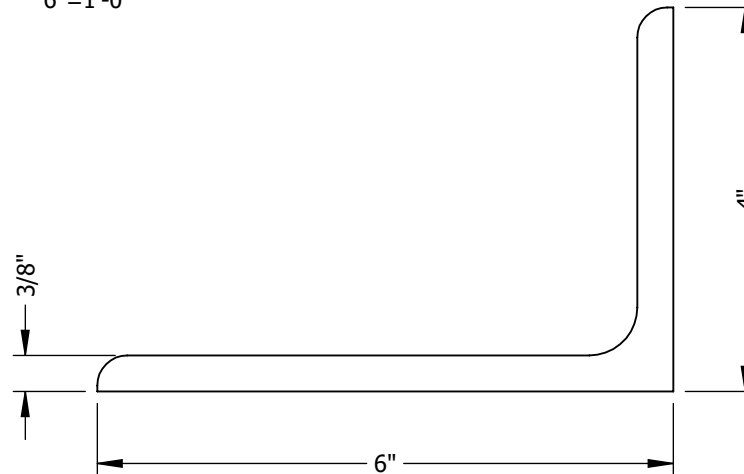


PART NO: A-3

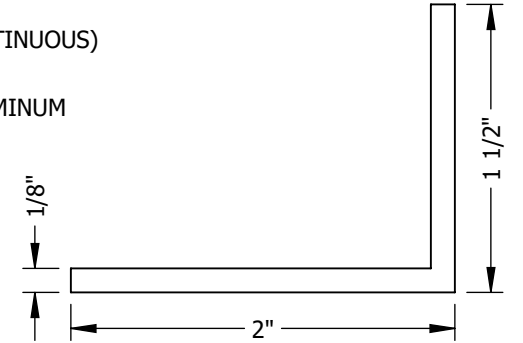
PART NAME: SHELF ANGLE, CMU (CONTINUOUS)

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

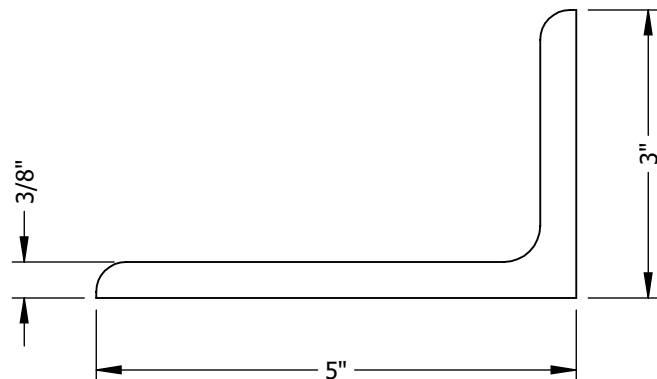


PART NO: A-2

PART NAME: SHELF ANGLE, CONCRETE (CONTINUOUS)

MATERIAL: 5" X 3" X 3/8" THK.  
6061-T6 EXTRUDED ALUMINUM

SCALE: 6"=1'-0"

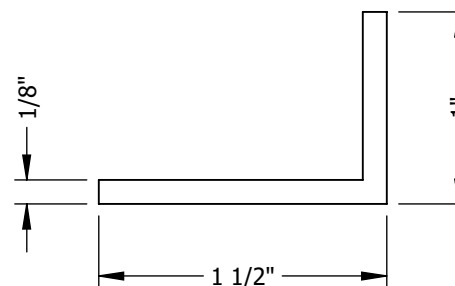


PART NO: A-4

PART NAME: SLEEVE ATTACHMENT ANGLE (CONTINUOUS)

MATERIAL: 1 1/2" X 1" X 1/8" THK.  
6063-T5 EXTRUDED ALUMINUM

SCALE: FULL

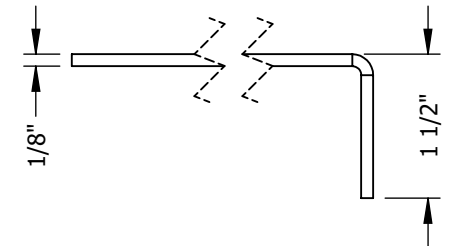


***RICE***  
***ENGINEERING***

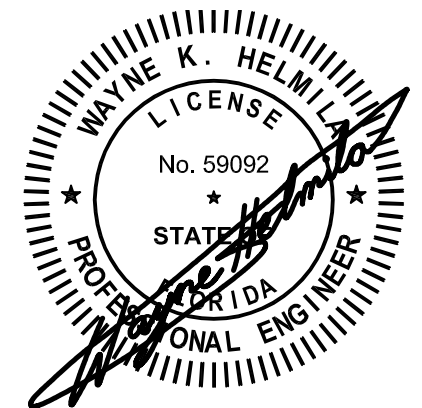
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com

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

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



**P.E. STAMP**

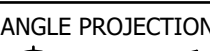


03/25/2021  
COA: 9090

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. 20-1222.03


**Expiration Date** 01/22/2025

By *[Signature]*  
Miami-Dade Product Control

8	UPDATED FOR NOA RENEWAL	3/22/2021	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>ALL-LITE</b>  <b>ARCHITECTURAL PRODUCTS</b>	DRAWING DESCR: BILL OF MATERIALS				
7	REVISED PER MIAMI DADE COUNTY	7/30/2019	NWW				PROJECT: ECV-645-MD				
6	UPDATED FOR NOA RENEWAL & REVISION	4/23/2019	JMR / NW		LOCATION:						
5	CHANGED LOUVER MATERIAL TO 6063-T6	10/13/2014	NW		CUSTOMER:						
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG		THIRD ANGLE PROJECTION  	PROJ. MGR:		DRAWN BY: LGH			
3	REVISED PER RICE MARKUPS	4/23/2014	JG			DATE: 8/27/2013	CHK'D BY: NW	ORDER NUMBER	P.O. NUMBER	DRAWING NUMBER	
2	REVISED INSTALLATION DETAILS	1/27/2014	JG			SHEET: 11 of 12	SCALE: AS NOTED			ECV-645-MD NOA	
REV.	DESCRIPTION	DATE	DRAWN BY								

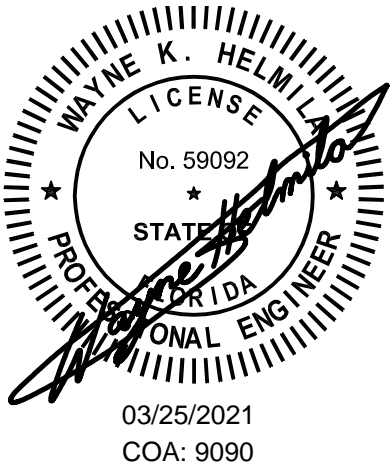
BILL OF MATERIALS

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 DRÍL-FLEX)

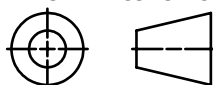
**PRODUCT REVISED**  
**as complying with the Florida**  
**Building Code**  
**NOA-No.** 20-1222.03  
**Expiration Date** 01/22/2025  
**By**   
**Miami-Dade Product Control**

**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-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

P.E. STAMP



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

8	UPDATED FOR NOA RENEWAL	3/22/2021	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>ALL-LITE</b> ARCHITECTURAL PRODUCTS	DRAWING DESCR: BILL OF MATERIALS				
7	REVISED PER MIAMI DADE COUNTY	7/30/2019	NWW				PROJECT: ECV-645-MD				
6	UPDATED FOR NOA RENEWAL & REVISION	4/23/2019	JMR / NW				LOCATION:				
5	CHANGED LOUVER MATERIAL TO 6063-T6	10/13/2014	NW				CUSTOMER:				
4	REVISED PER MIAMI DADE COUNTY	8/22/2014	JG		THIRD ANGLE PROJECTION 		PROJ. MGR:		DRAWN BY: LGH		
3	REVISED PER RICE MARKUPS	4/23/2014	JG				DATE: 8/27/2013	CHK'D BY: NW	ORDER NUMBER	P.O. NUMBER	DRAWING NUMBER
2	REVISED INSTALLATION DETAILS	1/27/2014	JG				SHEET: 12 of 12	SCALE: AS NOTED			ECV-645-MD NOA
REV.	DESCRIPTION	DATE	DRAWN BY								