

Manufacturers:

Greenheck Fan Corporation, PO Box 410, 400 Ross Ave, Schofield, WI 54476
The Airolite Company, LLC, PO Box 410, 400 Ross Ave, Schofield, WI 54476

Product Line(s):

Greenheck Louver Model EVH-302D, and equivalent nameplate Airolite Louver Model SCV302MD.

Compliance Method:

The above mentioned products have been evaluated for compliance with the requirements of the Florida Department of Business and Professional Regulation for Statewide Acceptance per Rule 61G20-3 of the FL Administrative Code, and comply with the 8th Edition (2023) Florida Building Code.

Product Description:

Aluminum louvers with vertical fixed blades and butt-type frame corner construction with blade/frame material as noted in its Miami-Dade NOA.

Performance Summary (for entire product line):

Tested design pressure is +/- 100 PSF. Passed ANSI/AMCA Standard 540-13 at Basic Impact Missile Level D (50 fps impact speed). Passed ANSI/AMCA Standard 550-15 (Rev. 09-18) with blades fully open. Passed TAS 201-94 (large missile, 50 fps impact speed), TAS 202-94, and TAS 203-94. Product can be used inside and outside of the HVHZ and is impact resistant.

Performance Standards:

1. ANSI/AMCA Standard 540-13, Test Method for Louvers Impacted by Wind Borne Debris.
2. ANSI/AMCA Standard 550-15 (Rev. 09-18), Test Method for High Velocity Wind Driven Rain Resistant Louvers (with louver blades in the fully open position).
3. FBC TAS 201-94, Impact Test Procedures, Basic Impact Missile Level D (50 fps impact speed).
4. FBC TAS 202-94, Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure.
5. FBC TAS 203-94, Criteria for Testing Products Subject to Cyclic Wind Pressure Loading.

Supporting Technical Documents:

1. Approval Documents:
 - a. NOA 23-1101.05 for EVH-302D, approved on 11/22/2023
 - b. NOA 23-1101.06 for SCV302MD, approved on 11/22/2023
2. Listing Documents:
 - a. AMCA License Agreement to use the AMCA Listing Label for ANSI/AMCA Standard 540 (Basic Impact Missile Level E, 50 fps) and ANSI/AMCA Standard 550:
 - i. EVH-302D, issued 04/12/2019
 - ii. SCV302MD, issued 04/12/2019
3. Test Reports:
 - a. QCT18-5153.01, signed and sealed on 01/08/2019 by Brian Sasman, P.E., Quast Consulting & Testing, Inc., Mosinee, WI
 - i. FBC TAS 201-94, FBC TAS 202-94, and FBC TAS 203-94
 - b. QCT18-5093.01-R1, signed and sealed on 11/17/2018 by Brian Sasman, P.E., Quast Consulting & Testing, Inc., Mosinee, WI
 - i. ANSI/AMCA Standard 550-15 (Rev. 09-18)
 - c. QCT18-5093.02-R1, signed and sealed on 11/17/2018 by Brian Sasman, P.E., Quast Consulting & Testing, Inc., Mosinee, WI
 - i. ANSI/AMCA Standard 540-13

Limits and Conditions Use:

1. Limits/Conditions are as per their Miami-Dade NOA and AMCA Listing documents.
2. Maximum Design Pressure is +/- 100 PSF.
3. Maximum Panel Size is 60" wide x 96" high.
4. Rated to be used inside and outside of the HVHZ.
5. Impact resistant for Basic Impact Missile Level D (50 fps).
6. With blades fully open, the louver may be installed in a location where the room behind the louver is NOT designed to drain water penetrating into the room and the room may house NON-water resistant/proof equipment, components, and/or supplies.

Installation:

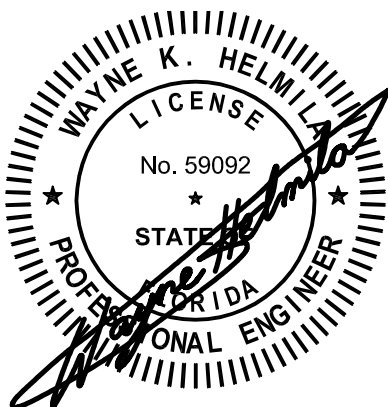
Must be installed in accordance with the Miami-Dade NOA documents (NOA 23-1101.05 for EVH-302D and NOA 23-1101.06 for SCV302MD) along with the following Anchor substitutions on Sheet 7 of each NOA:

1. Concrete Anchors – In lieu of Hilti Kwik Bolt TZ
 - a. Use 3/8" Dia Hilti Kwik Bolt TZ2 – SS 316/304.
 - i. Min. Embed = 2-1/2"
 - ii. Min. Edge Dis. = 3"
 - iii. Min. F'c = 2,500 psi Normal Weight Concrete.
 - iv. Min. Concrete Thickness = 6"
2. Masonry Anchors – In lieu of Hilti Hit-Hy 270 Adhesive Anchors
 - a. Use 1/2" Dia Hilti Hit-Hy 100 Adhesive Anchors – SS 316/304.
 - i. Min. Embed = 4-1/2"
 - ii. Min. Edge Dis. = 1-3/4"
 - iii. Min. F'm = 1,500 psi Grout Filled CMU

Certification of Independence:

Rice Engineering, Inc. and Wayne K Helmila, P.E. do not have and will not acquire a financial interest in any company manufacturing or distributing the products for which this report is being issued. Rice Engineering, Inc. and Wayne K Helmila, P.E., do not have and will not acquire a financial interest in any other entity involved in the approval process of the above listed products.

Evaluation Report By and PE Stamp:



02/12/2024
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

Wayne K Helmila



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

Greenheck Fan Corporation
P.O. Box 410
Schofield, WI 54476

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 EVH-302D Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **EVH-302D**, titled "EVH-302D Aluminum Louver", sheets 1 through 9 of 9, dated 05/16/2019, prepared by Greenheck Fan Corporation, signed and sealed by Wayne K. Helmila, P.E. on 09/09/2021, bearing the Miami-Dade County Product Control renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

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

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

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

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

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA **revises & renews** NOA # **21-0917.12**, 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 **Ishaq I. Chanda, P.E.**

Ishaq I. Chanda



NOA No. 23-1101.05
Expiration Date: June 06, 2029
Approval Date: November 22, 2023
Page 1

11/27/23

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under NOA # 19-0708.12

A. DRAWINGS

1. Drawing No. **EVH-302D**, titled “EVH-302D ALUMINUM LOUVER”, sheets 1 through 9 of 9, dated 05/16/2019, with revision date 06/21/2019, prepared by Greenheck Fan Corporation, signed and sealed by Wayne K. Helmila, P.E.

B. TESTS

1. Test report on 1) Uniform Static Air Pressure Test per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94,
3) Cyclic Wind Pressure Test per FBC, TAS 203-94,
along with marked-up drawings and installation diagram of Model EVH-302D aluminum louvers, prepared by Quast Consulting & Testing, Inc., Test Report No. **QCT18-5153.01**, dated 01/02/2019, signed and sealed by Brian M. Sasman, P.E.
2. Test report on AMCA 550 Performance Test Report
along with marked-up drawings and installation diagram of Model EVH-302D aluminum louvers, prepared by Quast Consulting & Testing, Inc., Test Report No. **QCT18-5093.01-R1**, dated 10/23/2018, signed and sealed by Brian M. Sasman, P.E.

C. CALCULATIONS

1. Structural and anchors calculations prepared by Rice Engineering, dated 04/02/2019, 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

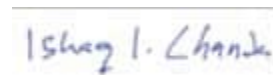
1. None.

F. STATEMENTS

1. Statement letter of code compliance to the 6th edition (2017) FBC, and of no financial interest, issued by Rice Engineering, dated 04/02/2019, signed and sealed by Wayne K. Helmila, P.E.

G. OTHERS

1. Notice of Acceptance No. 19-0409.02, issued to Greenheck Fan Corporation for their Model “EVH-302D” Aluminum Louver, approved on 06/06/2019 and expiring on 06/06/2024.



Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-1101.05
Expiration Date: June 06, 2029
Approval Date: November 22, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under #21-0917.12

A. DRAWINGS

1. Drawing No. **EVH-302D**, titled “EVH-302D Aluminum Louver”, sheets 1 through 9 of 9, dated 05/16/2019, prepared by Greenheck Fan Corporation, signed and sealed by Wayne K. Helmila, P.E. on 09/09/2021.

B. TESTS

1. None.

C. CALCULATIONS

1. Structural load calculations prepared by Rice Engineering, dated 09/09/2021, signed and sealed by Wayne K. Helmila, P.E.

D. QUALITY ASSURANCE

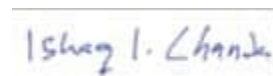
1. Miami-Dade Department of Regulatory and Economic Resources (RER).

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code compliance to 7th edition (2020) of the FBC and of no financial interest, dated 09/09/2021, issued by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.



NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. New Evidence submitted

A. DRAWINGS (submitted under previous submittal)

1. Drawing No. **EVH-302D**, titled "EVH-302D Aluminum Louver", sheets 1 through 9 of 9, dated 05/16/2019, prepared by Greenheck Fan Corporation, signed and sealed by Wayne K. Helmila, P.E. on 09/09/2021.

B. TESTS (submitted under previous submittal)

1. None.

C. CALCULATIONS (submitted under previous submittal)

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

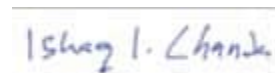
1. None.

F. STATEMENTS

1. Statement letter dated 10/26/23 from Greenheck Corp./Aerolite, LLC requesting renewal with no changes, signed by Mike Steele, Product Development Engineer II.
2. Statement letter of code compliance to 8th edition (2023) of the FBC and of no financial interest, dated 10/26/2023, issued by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.
3. Statement letter of code compliance to 7th edition (2020) of the FBC and of no financial interest, dated 09/09/2021, issued by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.

E. OTHER

1. This NOA **revises & renews** NOA # **21-0917.12**, expiring 06/06/29.



Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-1101.05
Expiration Date: June 06, 2029
Approval Date: November 22, 2023

96.00 MAX, ACTUAL LOUVER SECTION HEIGHT
(SEE PAGE NOTES FOR MULTI-HIGH ASSEMBLIES)

UNLIMITED OVERALL LOUVER LENGTH (MULTIPLE SECTIONS WIDE)

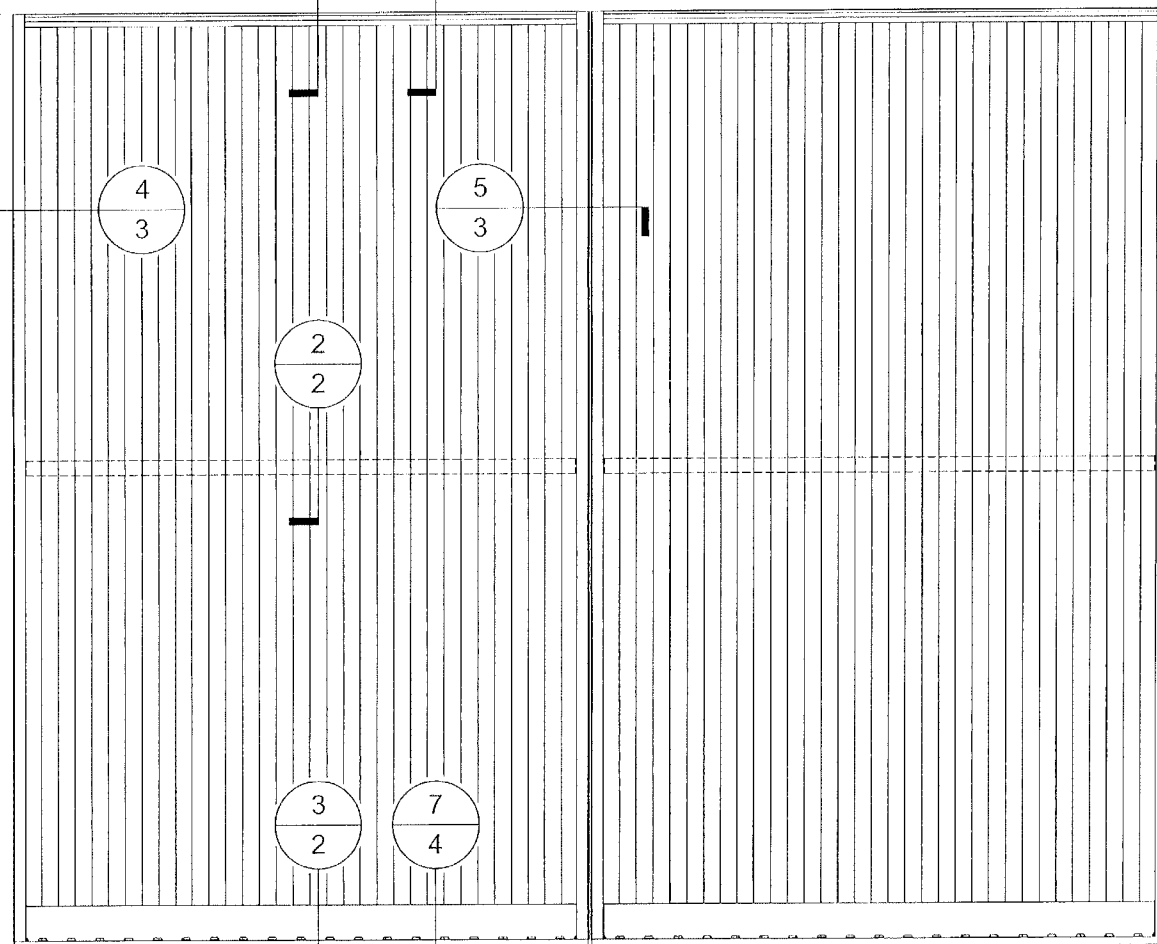
DETAIL #

PAGE #

1
2

6
4

60.00 MAX,
ACTUAL LOUVER SECTION WIDTH



(EVERY OTHER BLADE REMOVED FOR CLARITY)

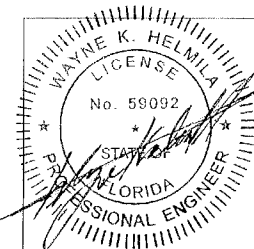
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Certificate of Authorization #9090
Wayne K. Helmila
Registration No. 59092

DESIGN PRESSURE
RATING
+/- 100 PSF

①

SEP 09 2021



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **21-0917.12**
Expiration Date **06/06/2024**
By *[Signature]*
Miami-Dade Product Control

(FOR MIAMI-DADE D.R.E.R. USE ONLY)

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. **23-1101.05**
Expiration Date **06/06/2029**
By *[Signature]*
Miami-Dade Product Control

(FOR MIAMI-DADE D.R.E.R. USE ONLY)

DATE	5/16/2019
DRAWN BY	MES
SCALE	1:6.37
SHEET NO.	1 OF 9
QAD DRAWING NO.	EVH-302D
MODEL	EVH-302D ALUMINUM LOUVER
DESC.	ELEVATION & SECTION CUTS

REVISIONS:

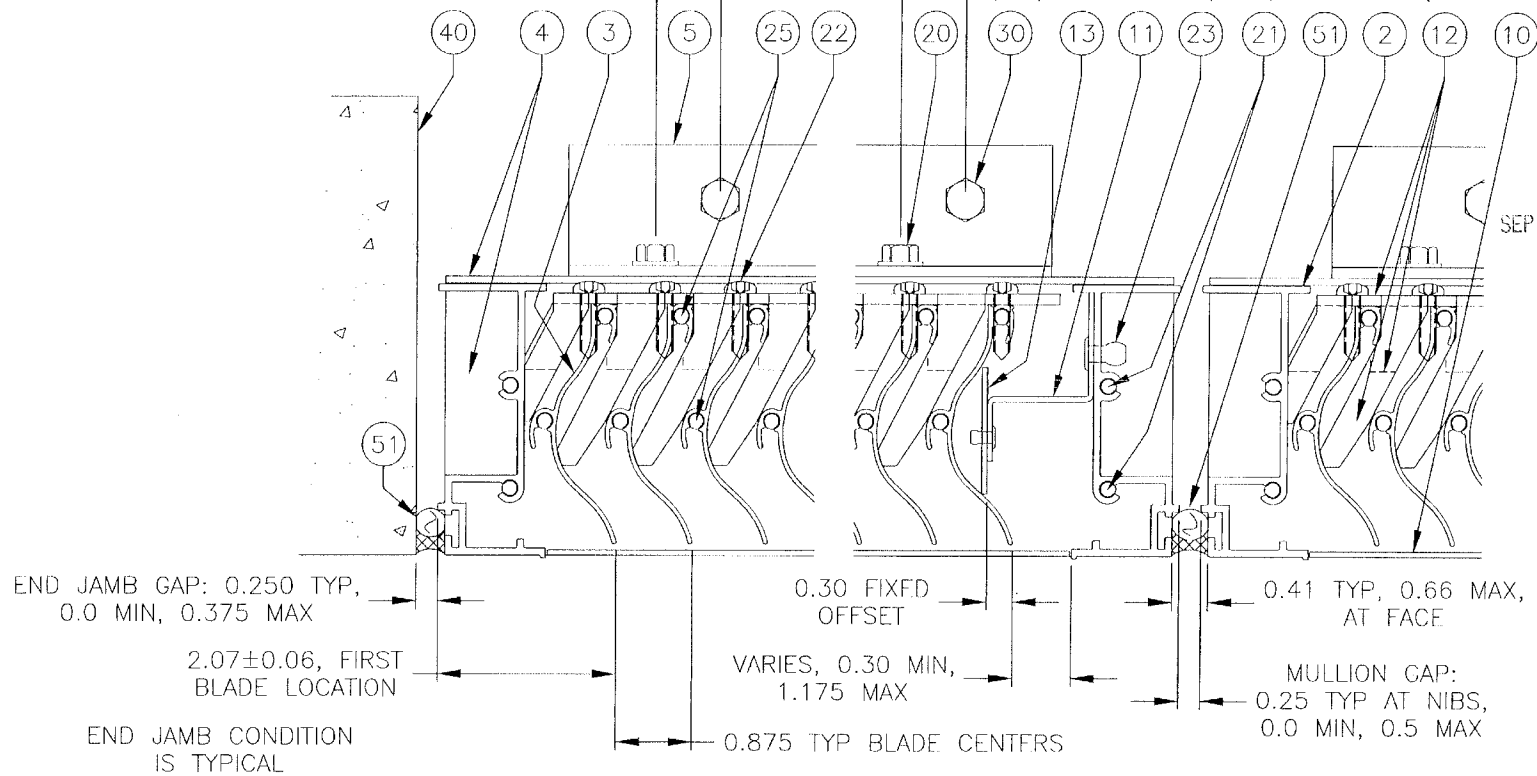
① 6/21/2019 REMOVED IMPACT LEVEL & SPEED

8.0 MAX O.C. IF ACTUAL HEIGHT IS ≤ 48
 4.0 MAX O.C. IF ACTUAL HEIGHT IS > 48

8.0 MAX O.C. IF ACTUAL HEIGHT IS ≤ 48
 4.0 MAX O.C. IF ACTUAL HEIGHT IS > 48

CONTINUOUS MOUNTING ANGLE (ITEM 5 OR 5B), FASTENERS (ITEM 20), AND ANCHORS (ITEM 30) ARE TYPICAL AT HEAD & SILL

0.750 ± 0.25 , PREVENTS INTERFERENCE
 2/BLADE END
 1/BLADE, SECURES ITEM 12
 SEE SUBSTRATE & ANCHOR TABLE
 18.0 MAX CENTERS
 2/SILL END
 IF ACTUAL SECTION HEIGHT IS > 48



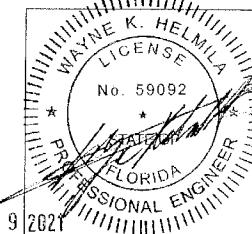
4
3 JAMB

5
3 MULLION

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 Wayne K. Helmila
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PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. 21-0917.12
 Expiration Date 06/06/2024
 By [Signature]
 Miami-Dade Product Control

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 NOA-No. 23-1101.05
 Expiration Date 06/06/2029
 By [Signature]
 Miami-Dade Product Control

DATE	5/16/2019
DESIGN	MES
SCALE	1:0.713
SHEET NO.	3 OF 9
QUANTITY NO.	EVH-302D
MODEL	EVH-302D ALUMINUM LOUVER
DESC.	JAMB & MULLION DETAILS

CAUTION! THE MANUFACTURER PROVIDED STANDARD CONTINUOUS MOUNTING ANGLES (ITEM 5) CAN ONLY BE USED IN THE INVERTED POSITION IF ONLY ONE OF THE STANDARD ANGLES IS INVERTED. EITHER AT THE HEAD OR AT THE SILL, NOT BOTH.

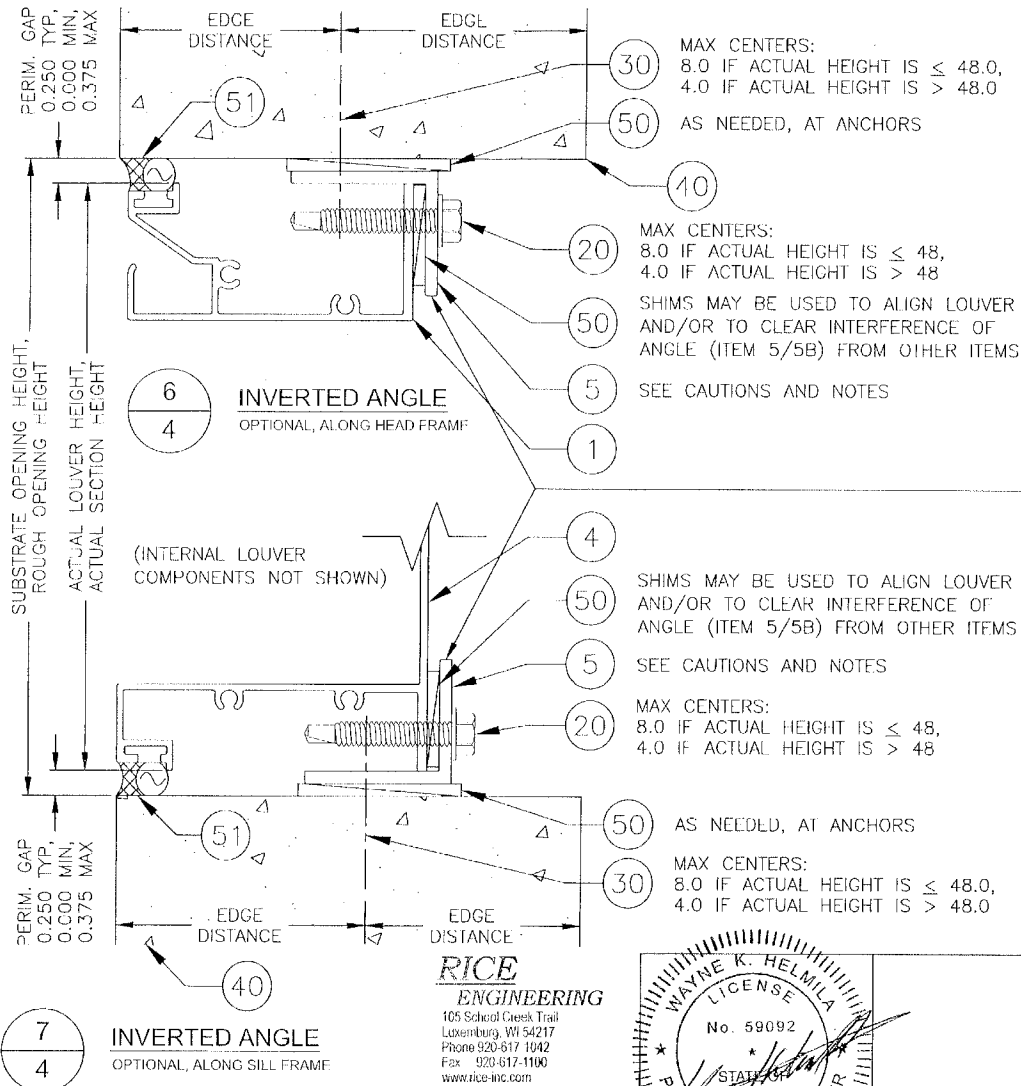
WHY: DUE TO REQUIRED OFFSETS, USE OF THE FACTORY PUNCHED HOLES IN THE STANDARD CONTINUOUS MOUNTING ANGLE (ITEM 5) WILL POSITION THE HORIZONTAL LEG OF THE STANDARD ANGLE UP AGAINST THE HEAD/SILL FRAME MEMBER (AS SHOWN ON THIS PAGE). THEREFORE, IT IS IMPOSSIBLE TO PRE-MOUNT BOTH STANDARD ANGLES TO THE SUBSTRATE IN THE INVERTED POSITION AND STILL HAVE CLEARANCE FOR THE LOUVER HEAD AND/OR SILL FRAME TO SLIDE OVER AND PAST THE ANCHOR HEADS (ITEM 30) ON THE INVERTED ANGLES.

SOLUTION: TO OVERCOME THE ABOVE ISSUE, AN ALTERNATE CONTINUOUS MOUNTING ANGLE (ITEM 5B, NOT BY MANUFACTURER) MUST BE USED AT EITHER THE HEAD AND/OR SILL. THE ALTERNATE ANGLE CAN SPAN A LARGER GAP BETWEEN THE LOUVER FRAME AND THE SUBSTRATE, WHICH ALLOWS FOR MORE CLEARANCE BETWEEN THE LOUVER FRAME AND THE ANCHOR. REFER TO THE "ALTERNATE CONTINUOUS MOUNTING ANGLE ALLOWABLE SETUPS" TABLE FOR DESIGN INFORMATION. NOTE THAT THE STANDARD CONTINUOUS MOUNTING ANGLE (ITEM 5) CAN HAVE ITS FRAME FASTENER (ITEM 20) BOLTS DRILLED IN A NEW LOCATION OF UP TO 0.75 IN. AWAY FROM THE OUTSIDE CORNER OF THE STANDARD ANGLE (SEE NOTES 1 & 2 ON THE "ALTERNATE CONTINUOUS MOUNTING ANGLE ALLOWABLE SETUPS" TABLE).

CAUTION! NO MATTER WHAT TYPE OF CONTINUOUS MOUNTING ANGLE (ITEM 5 OR 5B) IS USED IN AN INVERTED SETUP, A LARGER THAN TYPICAL HEAD/SILL SUBSTRATE GAP CLEARANCE SHOULD BE CONSIDERED WHEN SIZING THE LOUVER IN ORDER TO MAKE SURE THE HEAD/SILL FRAME CAN SLIDE OVER AND PAST THE ANCHOR HEADS (ITEM 30) ON THE INVERTED MOUNTING ANGLE(S).

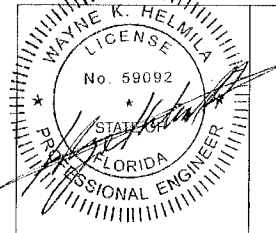
ANGLE PROVIDER: THE MANUFACTURER PROVIDES STANDARD CONTINUOUS MOUNTING ANGLES (ITEM 5) ONLY. ANY NEEDED ALTERNATE CONTINUOUS MOUNTING ANGLE (ITEM 5B) IS BY OTHERS.

OPTIONAL INVERTED CONTINUOUS MOUNTING ANGLE: SETUPS, CAUTIONS, & NOTES



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Wayne K. Helmila
Registration No. 59092
SEP 6 9 2021



NOTES: INVERTED ANGLE OPTION SHOWN UTILIZING THE THE MANUFACTURER PROVIDED STANDARD CONTINUOUS MOUNTING ANGLE (ITEM 5) AT THE HEAD/SILL. THE STANDARD ANGLE SHALL NOT EXTEND MORE THAN 0.125 IN. PAST THE TOP OF THE HEAD/SILL.

THE STANDARD CONTINUOUS MOUNTING ANGLE (ITEM 5) CANNOT BE USED IN THE INVERTED POSITION AT BOTH THE HEAD AND SILL LOCATIONS. SEE CAUTION NOTES.

AN ALTERNATE CONTINUOUS MOUNTING ANGLE (ITEM 5B) MAY BE USED FOR OTHER NEEDED SETUPS. AN ALTERNATE ANGLE CAN EXTEND MORE THAN 0.125 IN. PAST THE TOP OF THE HEAD/SILL. REFER TO THE "ALTERNATE CONTINUOUS MOUNTING ANGLE ALLOWABLE SETUPS" TABLE FOR ALLOWABLE DESIGNS OF THE ALTERNATE ANGLE.

(FOR MIAMI-DADE D.R.E.R. USE ONLY)

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 21-0917.12
Expiration Date 06/06/2024

By *[Signature]*
Miami-Dade Product Control

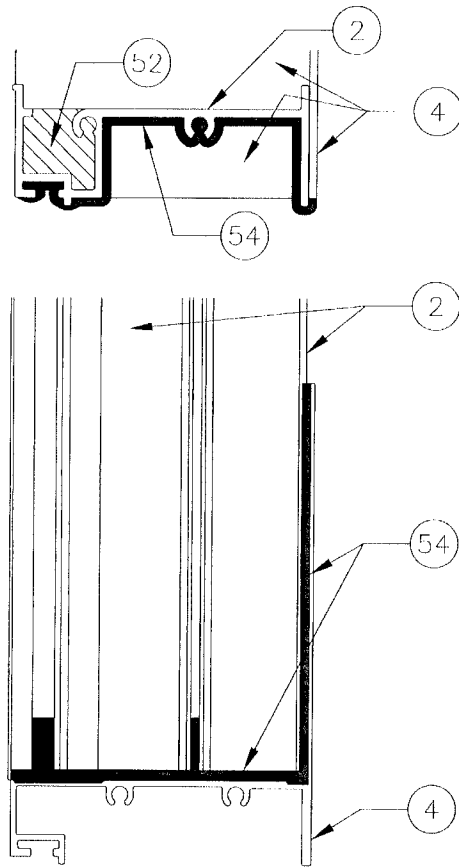
(FOR MIAMI-DADE D.R.E.R. USE ONLY)

PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 23-1101.05
Expiration Date 06/06/2029

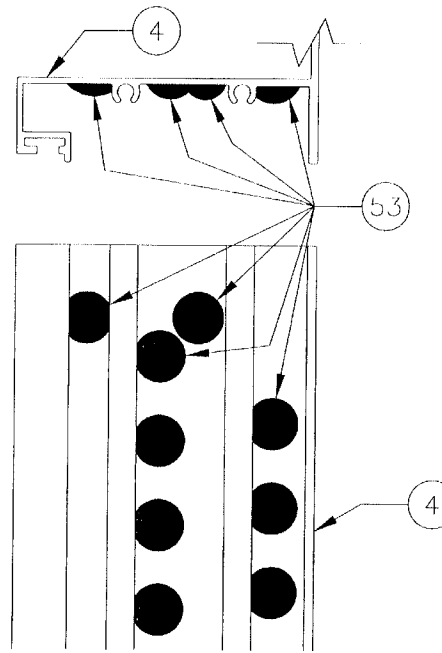
By *[Signature]*
Miami-Dade Product Control

DATE	5/16/2019
DRAWN BY	MES
SCALE	1/8" = 1'-0"
SHEET NO.	4 OF 9
CAD DRAWING NO.	EVH-302D
PROJECT NO.	EVH-302D ALUMINUM LOUVER
DESCRIPTION	OPTIONAL INVERTED ANGLE DETAILS

TYP CORNER SEALING,
TOP AND SIDE VIEW OF JAMB



TYP SILL SEALING,
SIDE AND BOTTOM VIEW OF SILL



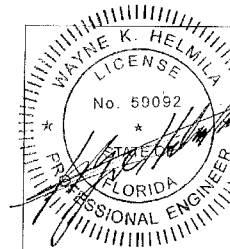
SEP 09 2021

THIS PAGE: ALL SHOWN SEALING IS BY MANUFACTURER,
AND IS REQUIRED (ALONG WITH PERIMETER SEALING, BY
OTHERS) TO PASS ANSI/AMCA 550.

**RICE
ENGINEERING**

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Certificate of Authorization #9090
Wayne K. Helmila
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(FOR MIAMI-DADE D.P.E.R. USE ONLY)

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as complying with the Florida
Building Code

NOA-No. **21-0917.12**

Expiration Date **06/06/2024**

By *[Signature]*
Miami-Dade Product Control

(FOR MIAMI-DADE D.P.E.R. USE ONLY)

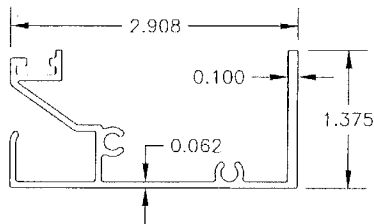
PRODUCT RENEWED
as complying with the Florida
Building Code

NOA-No. **23-1101.05**

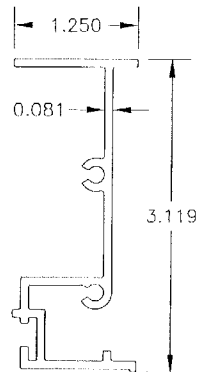
Expiration Date **06/06/2029**

By *[Signature]*
Miami-Dade Product Control

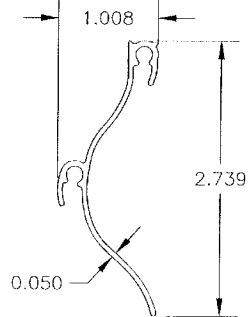
DATE	5/16/2019
DRAWN BY	MES
SCALE	1:0.649
SHEET NO.	5 OF 9
PROJECT NO.	EVH-302D ALUMINUM LOUVER
DATE	5/16/2019
DESCRIPTION	FACTORY SEALING



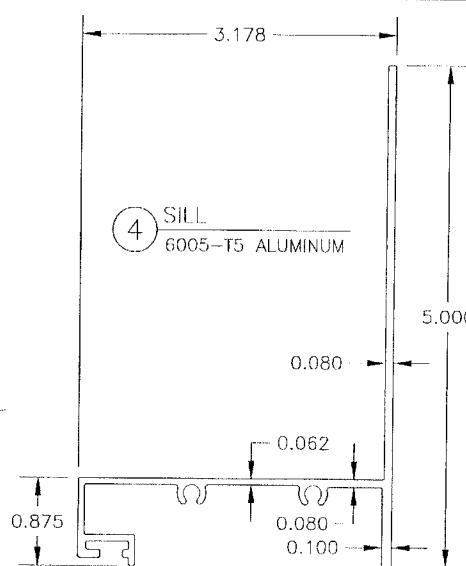
① HEAD
6005-T5 ALUMINUM



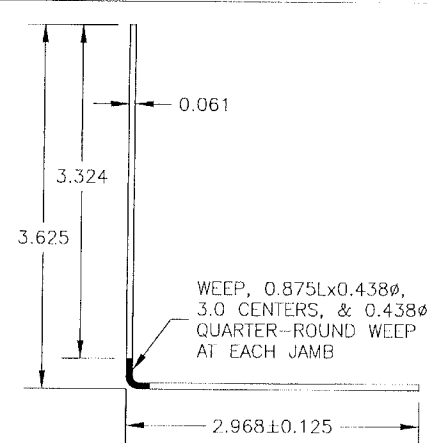
② JAMB
6005-T5 ALUMINUM



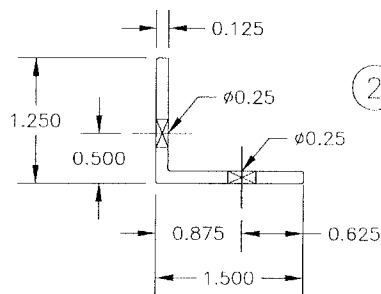
③ BLADE
6005-T5 ALUMINUM



④ SILL
6005-T5 ALUMINUM

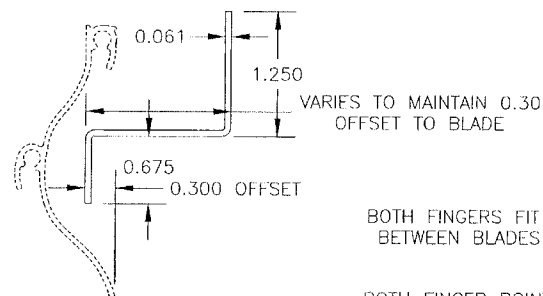


⑩ SILL BAFFLE
5052-H32 ALUMINUM

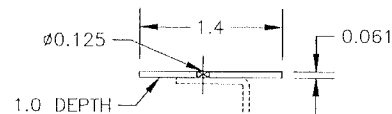


⑤ STANDARD CONTINUOUS MOUNTING ANGLE
6061-16 OR 6005-T5 ALUMINUM

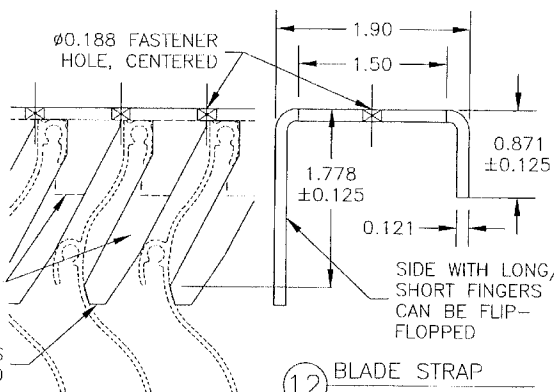
THE ABOVE SHOWN ITEM 5 DEPICTS THE STANDARD PART AS IT IS SUPPLIED BY THE MANUFACTURER, OTHER "ALTERNATE CONTINUOUS MOUNTING ANGLE" (ITEM 5B) SETUPS ARE ALLOWED IF THEY CONFORM TO THIS NOA.



⑪ JAMB BLANK OFF
5052-H32 ALUMINUM



⑬ BLADE STRAP END PLATE
OPTIONAL, 5052-H32 ALUMINUM

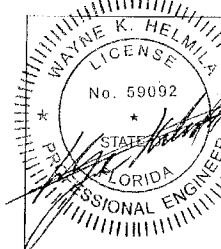


⑫ BLADE STRAP
5052-H32 ALUMINUM

RICE
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105 School Creek Trail
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Florida Firm No. F-01000005081
Certificate of Authorization #9090
Wayne K. Helmila
Registration No. 59092

SEP 09 2021



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PRODUCT REVISED
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NOA-No. **21-0917.12**
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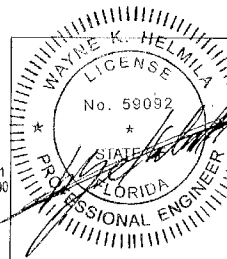
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NOA-No. **23-1101.05**
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REVISIONS:

DATE	5/16/2019
DRAWN BY	VES
SCALE	1:0.625
SHEET NO.	6 OF 9
CAD DRAWING NO.	EVH-302D
MODEL	EVH-302D ALUMINUM LOUVER
DESC.	PART PROFILES

SUBSTRATE & ANCHOR TABLE			MAX. ANCHOR SPACING IS BASED ON ACTUAL HEIGHT: 8.0 IN. FOR ≤ 48.0 IN., & 4.0 IN. FOR > 48.0 IN.						
SUBSTRATE (ITEM 40)			ANCHOR (ITEM 30)	ANCHOR MINIMUMS					
TYPE	THICKNESS MIN. (IN.)	PROPERTY MINIMUM		LENGTH (IN.)	THREADED LENGTH (IN.)	EMBEDMENT (IN.)	TO EDGE (IN.)	Fy, Fu (KSI)	
WOOD	3	SG 0.42	1/4 IN. LAG SCREW, COATED STEEL (6) ①	3	2 1/2	2 1/2	1 1/2	70, 105	
			1/4 IN. LAG SCREW, 300 SERIES STAINLESS (1)					65, 100	
			1/4 IN. SPAX POWERLAG, HEX OR T-STAR WASHER HEAD, COATED STEEL (6) ①		1 3/4				
			6 MM SPAX TIMBER SCREW, WASHER HEAD, 300 SERIES STAINLESS	80 MM	61 MM	2 11/16		-	
STEEL	16 GA	Fy 33 KSI	1/4-14 DEWALT/ELCO BI-FLEX SCREW OR EQUAL 1/4-14 18-8 SS SCREW ①	VARIES (2)	VARIES (2)	FULL	1/2	65, -	
			1/4-20 BOLT, 300 SERIES STAINLESS (1)			BOLTED			
ALUMINUM	1/8	Fy 25 KSI (6063-T6)	1/4-20 DEWALT/ELCO BI-FLEX SCREW OR EQUAL 1/4-20 18-8 SS SCREW ①	VARIES (2)	VARIES (2)	FULL	1/2	65, -	
			1/4-20 SCREW OR THRU BOLT, 300 SERIES STAINLESS (1)			FULL / BOLTED			
CONCRETE (3)	4	Fc 2.5 KSI	3/8 IN. HILTI KWIK BOLT T2 EXPANSION, 304 OR 316 STAINLESS (5) ①	VARIES (2)	VARIES (2)	2 5/16 NOM.	3	-	
GROUT FILLED CMU (4)	4x4x16	Fm 1.5 KSI	3/8 IN. DEWALT SCREW-BOLT+, COATED STEEL (5) (6) ①	VARIES (2)	VARIES (2)	3 1/4 NOM.	1 1/2	-	
			1/2 IN. THREADED ROD W/ HIT-HY 270 ADHESIVE, 300 SERIES STAINLESS (5)			4 1/2 EFF.	1 3/4	65, -	
1) ANCHOR MANUFACTURING PROCESS IS COLD-WORKED.									
2) AS NEEDED TO COMPLY WITH THE EMBEDMENT WHILE ACCOUNTING FOR THE THICKNESS OF THE CONTINUOUS MOUNTING ANGLE, SHIM(S), ETC.									
3) ANCHOR QUALIFIED FOR NON-CRACKED AND CRACKED CONCRETE SUBSTRATES, NORMAL WEIGHT CONCRETE, INCLUDING PRE-CAST. ①									
4) LIGHT/MEDIUM/NORMAL-WEIGHT CMU CONFORMING TO ASTM C90, TYPE II, GROUT FILLED CONFORMING TO C476.									
5) THE 1/4 IN. DIAMETER ANCHOR CLEARANCE HOLES IN THE MANUFACTURER PROVIDED STANDARD CONTINUOUS MOUNTING ANGLE (ITEM 5) WILL NEED TO BE FIELD ENLARGED TO ACCEPT THE ANCHOR.									
6) WITH GALVANIZED COATING OR FIELD SEALED POST INSTALLATION WITH LIQUID PROSOLO FLASHING. ①									

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REVISIONS:

1) 8/20/21 ADDED SEVERAL CALLOUTS TO REFERENCE NOTE 6, REPLACED 2 STEEL SUBSTRATE OR EQUAL ROWS OF 1/4-14 SCREW WITH A SINGLE ROW OF 1/4-14 DEWALT/ELCO BI-FLEX OR EQUAL, REPLACED ALUMINUM SUBSTRATE ANCHOR 1/4-20 COATED STEEL SCREW WITH 1/4-20 DEWALT/ELCO BI-FLEX OR EQUAL, COMBINED CRACKED CONCRETE AND CONCRETE ROWS INTO SINGLE ROW, QUALIFIED CONCRETES TO NOTE 3, AND REPLACED NOTE 6 WITH COMPLETELY NEW CONTENT.



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DATE 5/16/2019

DESIGN BY MES

SCALE 1:0.684

SHEET NO.

7 OF 9

CONTAINER NO.

EVH-302D

EVH-302D ALUMINUM LOUVER

SUBSTRATE & ANCHOR TABLE

ALTERNATE CONTINUOUS MOUNTING ANGLE ALLOWABLE SETUPS

USE OF AN ALTERNATE CONTINUOUS MOUNTING ANGLE (ITEM 5B) OTHER THAN THAT PROVIDED BY THE MANUFACTURE (ITEM 5) IS PERMITTED BUT SHALL ALSO CONFORM TO THIS TABLE. AT MINIMUM, THE PROVIDER OF THE ALTERNATE CONTINUOUS MOUNTING ANGLE SHALL: 1) BE AWARE THAT THE SUBSTRATE (ITEM 40) AND/OR ANCHOR (ITEM 30) BEING USED MAY ADDITIONALLY LIMIT THE BELOW ALLOWANCES (SEE TABLE: ALLOWABLE OFFSETS OF THE LOUVER FRAME FASTENER ON THE ALTERNATE CONTINUOUS MOUNTING ANGLE), 2) ENSURE THAT THE CHOSEN LOCATION OF THE LOUVER FASTENER (ITEM 20), FALLS WITHIN THE "ACCEPTABLE INSTALLATION ZONE" ON THE LOUVER FRAME MEMBER (ITEM 1 AND/OR 4), AND 3) TAKE INTO CONSIDERATION ANY LOUVER ACCESSORY (SCREEN, BLANK OFF, ETC.) THAT MAY INTERFERE WITH THE PLACEMENT OF THE ALTERNATE CONTINUOUS MOUNTING ANGLE. SHIMS (ITEM 50) ARE PERMITTED TO FILL GAPS BETWEEN LOUVER FRAME AND ALTERNATE CONTINUOUS MOUNTING ANGLE.

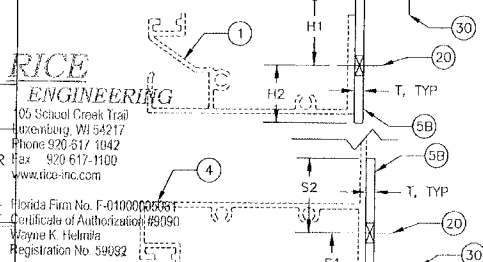
ALTERNATE CONTINUOUS MOUNTING ANGLE (ITEM 5B)			AT THE HEAD OR SILL (IN.)		AT THE HEAD ONLY (IN.)			AT THE SILL ONLY (IN.)		
MATERIAL TYPE	MINIMUM MATERIAL PROPERTIES	"T" MINIMUM THICKNESS	"L" MINIMUM OVERALL SUBSTRATE LEG LENGTH	"L1" MIN. TO SUBSTRATE HOLE, FROM CORNER OR FREE EDGE	"H1" MIN. TO LOUVER FASTENER FROM CORNER	"H1" MAX. TO LOUVER FASTENER FROM CORNER	"H2" MIN. TO LOUVER FASTENER FROM FREE EDGE	"S1" MIN. TO LOUVER FASTENER FROM CORNER	"S1" MAX. TO LOUVER FASTENER FROM CORNER	"S2" MIN. TO LOUVER FASTENER FROM FREE EDGE
ALUMINUM (1)	6061-T6 OR 6005-T5	1/8	1 1/2	5/8	13/32	3/4	1/2	13/32	3/4	1/2
ALUMINUM	5052-H32 OR 6063-T6	1/8	2	1	13/32	1 1/8	1/2	13/32	1 1/8	1/2
	6061-T6 OR 6005-T5					1 3/8			1 3/8	
STEEL	A36 1008 HOT ROLLED	1/8	2	1	13/32	1 3/8	1/2	13/32	1 3/8	1/2
		12 GA				3/4			3/4	
		11 GA				1 3/32			1 3/32	
		10 GA				1 3/8			1 3/8	

ALLOWABLE OFFSETS OF THE LOUVER FRAME FASTENER ON THE ALTERNATE CONTINUOUS MOUNTING ANGLE

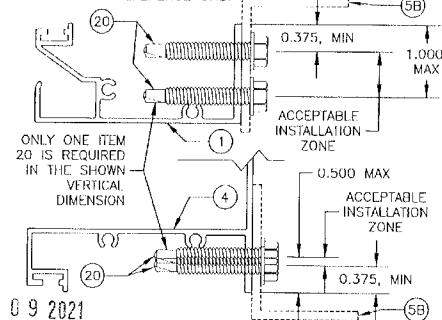
SUBSTRATE (ITEM 40), SEE "SUBSTRATE & ANCHOR TABLE" FOR SPECIFIC REQUIREMENTS		MAXIMUM "H1" AND "S1" OFFSET (IN INCHES) OF THE LOUVER FRAME FASTENER (ITEM 20) ON THE ALTERNATE CONTINUOUS MOUNTING ANGLE (ITEM 5B) BASED ON: 1) THE MINIMUM THICKNESS AND MINIMUM ALLOY OF THE ALTERNATE CONTINUOUS MOUNTING ANGLE, 2) THE SUBSTRATE (ITEM 40), AND 3) THE ANCHOR TYPE (ITEM 30)							
TYPE	THICKNESS MIN. (IN.)	ANCHOR TYPE (ITEM 30), SEE "SUBSTRATE & ANCHOR TABLE" FOR SPECIFIC REQUIREMENTS	1/8 IN. 6061-T6 OR 6005-T5 ALUM. W/ L < 2 IN. (2)	1/8 IN. 6061-T6 OR 6005-T5 ALUM. W/ L ≥ 2 IN.	1/8 IN. 5052-H32 OR 6063-T6 ALUM.	1/8 IN. A36 STEEL	12 GA 1008 HR STEEL	11 GA 1008 HR STEEL	10 GA 1008 HR STEEL
WOOD	3	LAG SCREW	3/4	1 3/8	1 1/8	1 3/8	3/4	1 3/32	1 3/8
		SPAX ANCHOR	3/4	1 3/8	1 1/8	1 3/8	3/4	1 3/32	1 1/4
STEEL	16 GA	SCREW	1/2	13/16	13/16	13/16	3/4	13/16	13/16
	14 GA		11/16	1 1/8	1 1/8	1 1/8	3/4	1 3/32	1 1/8
	12 GA		3/4	1 3/8	1 1/8	1 3/8	3/4	1 3/32	1 3/8
	16 GA	BOLT	3/4	1 3/8	1 1/8	1 3/8	3/4	1 3/32	1 3/8
ALUMINUM	1/8	SCREW OR BOLT	3/4	1 3/8	1 1/8	1 3/8	3/4	1 3/32	1 3/8
CONCRETE	3 OR 4	SCREW-BOLT+ OR TZ EXPANSION ANCHOR	3/4	1 3/8	1 1/8	1 3/8	3/4	1 3/32	1 3/8
CRACKED CONCRETE	4	TZ EXPANSION ANCHOR	3/4	1 3/8	1 1/8	1 3/8	3/4	1 3/32	1 3/8
GROUT FILLED CMU	4x4x16	SCREW-BOLT+	5/8	1	1	1	3/4	1	1
		THREADED ROD W/ 270 ADHESIVE	3/4	1 3/8	1 1/8	1 3/8	3/4	1 3/32	1 3/8

1) & 2) IS THE BASIS OF DESIGN FOR THE MANUFACTURER PROVIDED STANDARD CONTINUOUS MOUNTING ANGLE (ITEM 5). AT THE DISCRETION OF THE MANUFACTURER, THE MANUFACTURER MAY CHOOSE TO PROVIDE ANY ANGLE SETUP THAT MEETS THE ABOVE REQUIREMENTS.

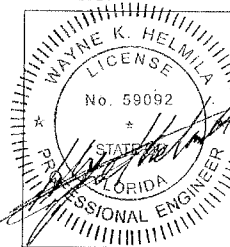
BELOW: ACCEPTABLE FASTENER LOCATIONS ON THE OPTIONAL CONTINUOUS MOUNTING ANGLE (ITEM 5B). HEAD AND SILL ARE SHOWN FOR REFERENCE ONLY



BELOW: ACCEPTABLE FASTENER LOCATIONS ON THE HEAD & SILL (ITEMS 1 & 4). OPTIONAL CONTINUOUS MOUNTING ANGLE IS SHOWN FOR REFERENCE ONLY



SEP 09 2021



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NOA-No. **23-1101.05**

Expiration Date **06/06/2029**

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Miami-Dade Product Control

REVISIONS:

DATE	5/18/2019
DESIGNED BY	ME
CHECKED BY	110.869
SCALE	1:1
SHEET NO.	8 OF 9
PROJECT NO.	EVH-302D ALUMINUM LOUVER
DESCRIPTION	ALTERNATE CONTINUOUS MOUNTING ANGLE



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LOUVER@GREENHECK.COM

1. IT IS THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THE LOUVER ASSEMBLY. THE LOUVER MANUFACTURER DOES NOT DETERMINE THE STRUCTURAL INTEGRITY OF THE SUBSTRATE STRUCTURE.
2. THIS LOUVER HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PROTOCOLS (AND QUALIFIED IN ACCORDANCE WITH THE CURRENT FLORIDA BUILDING CODE AND TEST PROTOCOLS/STANDARDS THEREIN): TAS 201 (LARGE MISSILE IMPACT, 50 FT/S IMPACT SPEED), TAS 202 (UNIFORM STATIC WIND PRESSURE), TAS 203 (UNIFORM CYCLIC WIND PRESSURE), AND ANSI/AMCA STANDARD 550-15 [REV. 09-18] (HIGH VELOCITY WIND DRIVEN RAIN). (2)
3. THE LOUVER HAS BEEN DESIGNED, TESTED, AND APPROVED TO WITHSTAND DESIGN PRESSURES OF UP TO AND INCLUDING +/-100 PSF.
4. THE MAXIMUM SINGLE SECTION SIZE IS 60.0 IN. WIDE BY 96.0 IN. HIGH. SECTIONS MAY BE MOUNTED TO CREATE A MULTI-WIDE ASSEMBLY WITHOUT ANY ADDITIONAL FIELD SUPPORT. SINGLE OR MULTI-WIDE ASSEMBLIES MAY BE STACKED VERTICALLY TO CREATE A MULTI-HIGH ASSEMBLY ONLY IF THERE IS ADEQUATE SUBSTRATE (DESIGNED AND BY OTHERS) AT THE HEAD AND SILL OF EACH LOUVER PANEL SECTION TO SECURE THE HEAD AND SILL MOUNTING ANGLES TO THE SUBSTRATE AS NOTED HEREIN.
5. GENERAL LOUVER CONSTRUCTION: HEAD, SILL, JAMBS, AND BLADES ARE EXTRUDED ALUMINUM. BLADE SPACING IS 0.875 IN., BLADES, HEADS, JAMBS, AND SILLS ARE SECURED WITH TWO SCREWS PER END.
6. THIS LOUVER PASSED ANSI/AMCA STANDARD 550, AND IS DESIGNED TO SIGNIFICANTLY DETER RAIN FROM PENETRATING THE SPACE BEHIND THE LOUVER. PER MIAMI-DADE D.R.E.R.: THE LOUVER MAY BE INSTALLED IN A LOCATION WHERE THE SPACE BEHIND THE LOUVER IS NOT DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM OR THE ROOM WILL HOUSE NON-WATER RESISTANT/PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES.
7. INSTALLER TO PROVIDE SEPARATION OF DIS-SIMILAR MATERIALS AS REQUIRED (SEE CURRENT FLORIDA BUILDING CODE). SEE OLDER 2010 FL BUILDING CODE, BUILDING, CHAPTER 20, SECTION 2003.8.4, FOR ADDITIONAL INFORMATION ON SEPARATION OF DIS-SIMILAR MATERIALS.
8. ALL ALUMINUM, STAINLESS STEEL (SS), AND PLATED/COATED STEEL PARTS PROVIDED BY MANUFACTURER ARE INHERENTLY CORROSION RESISTANT OR HAVE A CORROSION RESISTANT COATING.
9. STEEL, STAINLESS STEEL, AND ALUMINUM PARTS MAY BE MADE OUT OF ALTERNATE ALLOYS THAT HAVE EQUAL OR GREATER YIELD STRENGTH. PART DIMENSIONS ARE MINIMUMS UNLESS DEFINED OTHERWISE.
10. THE ITEM ID NUMBERS SHOWN ON THIS PAGE ARE FOR FACTORY USE AND INTERNAL TRACKING PURPOSES AND MAY BE UPDATED AT ANY TIME. ANY UPDATES WILL NOT ALTER THE ITEM AS DESCRIBED HEREIN. ALL DIMENSIONS ARE IMPERIAL/USCS UNLESS NOTED OTHERWISE.

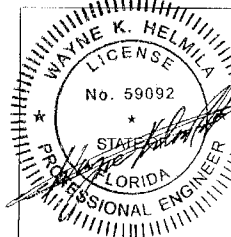
(2)

BILL OF MATERIALS					
ITEM	DESCRIPTION	MATERIAL	ID #	NOTES	
1	LOUVER HEAD	6005-T5 ALUM	126145	---	
2	LOUVER JAMB	6005-T5 ALUM	126147	---	
3	LOUVER BLADE	6005-T5 ALUM	126200	0.875 BLADE SPACING	
4	LOUVER SILL	6005-T5 ALUM	126204	---	
5	STANDARD CONTINUOUS MOUNTING ANGLE, TYPICAL AS PROVIDED BY MANUFACTURER	6061-T6 OR 6005-T5 ALUM	125811	ALONG HEAD AND SILL ONLY, MINIMUM LENGTH IS SECTION WIDTH MINUS 3.0, 0.125 MAX OFFSET FROM FRAME AT HEAD/SILL	
5B	ALTERNATE CONTINUOUS MOUNTING ANGLE, NOT PROVIDED BY MANUFACTURER	VARIES	N/A	ALONG HEAD AND/OR SILL ONLY, AS AN ALTERNATE TO ITEM 5, MINIMUM LENGTH IS SECTION WIDTH MINUS 3.0, SEE 'ALTERNATE CONTINUOUS MOUNTING ANGLE ALLOWABLE SETUPS' TABLE	
---	---	---	---	---	
10	LOUVER SILL BAFFLE	5052-H32 ALUM	100172	CONTINUOUS ALONG SILL, BETWEEN JAMBS	
11	LOUVER JAMB BLANK OFF	5052-H32 ALUM	100172	CONTINUOUS ALONG ONE JAMB, BETWEEN HEAD AND SILL	
12	LOUVER BLADE STRAP	5052-H32 ALUM	100172	48.0 MAX OFFSET FROM EITHER CUT END OF BLADE, STRAP IS APPROXIMATELY CENTERED AND NOT CONNECTED TO EITHER JAMB	
13	LOUVER BLADE STRAP END PLATE	5052-H32 ALUM	100172	OPTIONAL BY MANUFACTURER, MAY BE PRESENT WITH BLADE STRAP, DESIGN MAY VARY, SECURED WITH 1/8 DIA. ALUM RIVET	
---	---	---	---	---	
20	ANGLE TO LOUVER FASTENER, 1/4-20, DEWALT/ELCO BI-FLEX OR EQUAL	18-8 SS HEAD & SHANK	(2) ---	8.0 MAX O.C. IF ACTUAL HEIGHT IS ≤ 48.0, 4.0 MAX O.C. IF ACTUAL HEIGHT IS > 48.0, FIRST AND LAST END SPACE VARIES	
21	LOUVER FRAME CORNER SCREW, #10x3/4	300 SERIES SS	416108	2 PER FRAME CORNER	
22	LOUVER BLADE STRAP SCREW, #10x3/4	300 SERIES SS	416108	1 PER BLADE, SCREWS ARE PINCHED BETWEEN THE BLADE STRAP AND BLADE (EXCEPT FOR THE LAST BLADE WHERE SCREW GOES THROUGH THE BLADE)	
23	LOUVER BLANK OFF RIVET, #3/16	ALUM	415224	18.0 MAX O.C., 10.875 MAX TO FIRST HOLE (FROM EACH END)	
25	LOUVER BLADE SCREW, #10x3/4	300 SERIES SS	416108	2 PER BLADE END	
---	---	---	---	---	
30	ANCHOR, TYPE VARIES BY SUBSTRATE, SEE 'SUBSTRATE & ANCHOR TABLE'	VARIES	N/A	8.0 MAX O.C. IF ACTUAL HEIGHT IS ≤ 48.0, 4.0 MAX O.C. IF ACTUAL HEIGHT IS > 48.0, FIRST AND LAST END SPACE VARIES	
---	---	---	---	---	
40	SUBSTRATE: WOOD, STEEL, ALUMINUM, CONCRETE, CRACKED CONCRETE, GROUT FILLED CMU	VARIES	N/A	BY OTHERS, MORE THAN ONE SUBSTRATE TYPE CAN BE USED. ONLY REQUIRED ALONG THE HEAD AND SILL. JAMB SUBSTRATE CAN BE ANY APPROPRIATE SUBSTRATE DEEMED SUITABLE PER AUTHORITY HAVING JURISDICTION. SEE 'SUBSTRATE & ANCHOR TABLE' FOR REQUIREMENTS.	
---	---	---	---	---	
50	NON-COMPRESSIBLE SHIM	VARIES	N/A	BY OTHERS, SHALL BE USED TO TAKE UP GAP (IF ANY) BETWEEN ANGLE AND SUBSTRATE. 'U' SHAPED SHIMS AT ANCHORS ONLY IS ACCEPTABLE (SHIM NEED NOT BE CONTINUOUS). THE ALTERNATE ANGLE (ITEM 5B) DOES NOT REQUIRE THE USE OF SHIMS IF THE ANGLE CAN SPAN THE HEAD/SILL GAP TO THE SUBSTRATE.	
51	PERIMETER SEALANT / BACKER ROD	VARIES	N/A	BY OTHERS, REQUIRED TO PASS ANSI/AMCA 550	
52	JAMB DRAIN SEALANT	SILICONE	N/A	AT HEAD-JAMB CORNERS ONLY, CLOSES OFF TOP OF JAMB DRAIN	
53	BLADE SCREW SEALANT	SILICONE	N/A	ON ALL BLADE/JAMB SCREW HEADS UNDER SILL	
54	FRAME JOINT SEALANT	SILICONE	N/A	ON JAMB-SILL JOINTS ONLY	

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Wayne K. Helmila
Registration No. 59092



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By *[Signature]*
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DATE	9/16/2019
DES	
SCALE	NA
SHEET NO.	9 OF 9
PROJECT NAME	EVH-302D
PROJECT NO.	EVH-302D
PROJECT DESCRIPTION	ALUMINUM LOUVER
PROJECT LOCATION	PART INDEX & NOTES
PROJECT OWNER	
PROJECT ARCHITECT	
PROJECT ENGINEER	
PROJECT INSPECTOR	
PROJECT REVIEWER	
PROJECT APPROVER	
PROJECT SIGNATURE	
PROJECT DATE	
PROJECT TIME	
PROJECT LOCATION	
PROJECT OWNER	
PROJECT ARCHITECT	
PROJECT ENGINEER	
PROJECT INSPECTOR	
PROJECT REVIEWER	
PROJECT APPROVER	
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