



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)

**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-660D Aluminum Louver**

**APPROVAL DOCUMENT:** Drawing No. **EVH-660D**, titled "EVH-660D", sheets 1 through 9 of 9, dated 12/06/2011, prepared by the manufacturer, signed and sealed by Chander P. Nangia, P.E. on 07/19/2012, 02/13/2014 and 01/12/2016, bearing the Miami-Dade County Product Control revision stamp with the NOA 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, city, state, 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 NOA # 14-0224.10** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**



*Handwritten signature and date: 05/23/2016*

NOA No. 16-0201.07  
 Expiration Date: October 4, 2017  
 Approval Date: June 2, 2016  
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. **DRAWINGS** *“Submitted under NOA # 12-0418.06”*
1. Drawing No. **EVH-660D**, titled “EVH-660D”, sheets 1 through 9 of 9, dated 12/06/2011, prepared by the manufacturer, signed and sealed by Chander P. Nangia, P.E. on 07/19/2012, 02/13/2014 and 01/12/2016.
- B. **TESTS** *“Submitted under NOA # 12-0418.06”*
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 marked-up drawings and installation diagram of Model EVH-660D Aluminum Vertical Louvers, prepared by Architectural Testing, Inc, Report No. **B5211.01-602-18**, dated 03/21/2012, signed and sealed by Shawn G. Collins, P.E.
  2. Test Report on Wind Driven Rain Resistance per TAS 100(A)-95 of a Model EVH-660D Aluminum Vertical Louvers, prepared by Architectural Testing, Inc, Test Report No. **B5211.02-602-18**, dated 03/21/2012, signed and sealed by Shawn G. Collins, P.E.
- C. **CALCULATIONS** *“Submitted under NOA # 12-0418.06”*
1. Stress, deflection and anchorage calculations prepared by Greenheck Fan Corporation, dated 02/08/2012, signed and sealed by Chander P. Nangia, 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 5<sup>th</sup> edition (2014) FBC issued by Chander P. Nangia, P.E., dated 01/11/2016, signed and sealed by Chander P. Nangia, P.E.  
  
*“Submitted under NOA # 14-0224.10”*
  2. Statement letter of code conformance to 2010 FBC, issued by Chander P. Nangia, P.E., dated 02/13/2014, signed and sealed by Chander P. Nangia, P.E.  
  
*“Submitted under NOA # 12-0418.06”*
  3. No financial interest letter issued by Chander P. Nangia, P.E., dated 04/02/2012, signed and sealed by Chander P. Nangia, P.E.



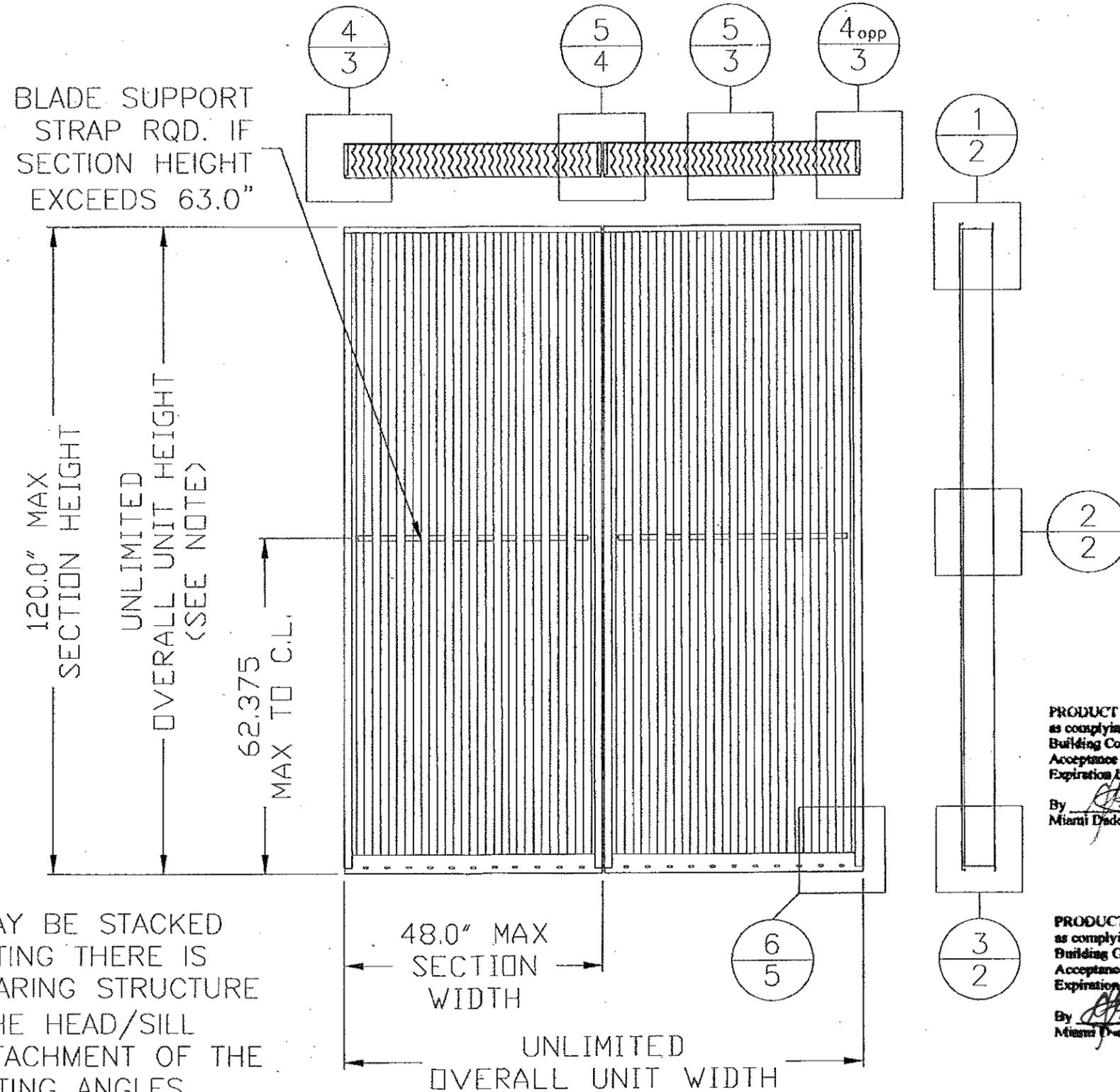
05/23/2016

Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 16-0201.07  
Expiration Date: October 4, 2017  
Approval Date: June 2, 2016

DETAIL CALLOUT (TYPICAL)

DETAIL #  
PAGE #

LOUVER ELEV.



BLADE SUPPORT STRAP RQD. IF SECTION HEIGHT EXCEEDS 63.0"

120.0" MAX SECTION HEIGHT

UNLIMITED OVERALL UNIT HEIGHT (SEE NOTE)

62.375 MAX TO C.L.

48.0" MAX SECTION WIDTH

UNLIMITED OVERALL UNIT WIDTH

NOTE: SECTIONS MAY BE STACKED VERTICALLY PERMITTING THERE IS SUITABLE LOAD-BEARING STRUCTURE (BY OTHERS) AT THE HEAD/SILL LOCATIONS FOR ATTACHMENT OF THE CONTINUOUS MOUNTING ANGLES.

PRODUCT REVISED as complying with the Florida Building Code  
 Acceptance No 14-0224.10  
 Expiration Date 10/04/2017  
 By *[Signature]*  
 Miami Dade Product Control

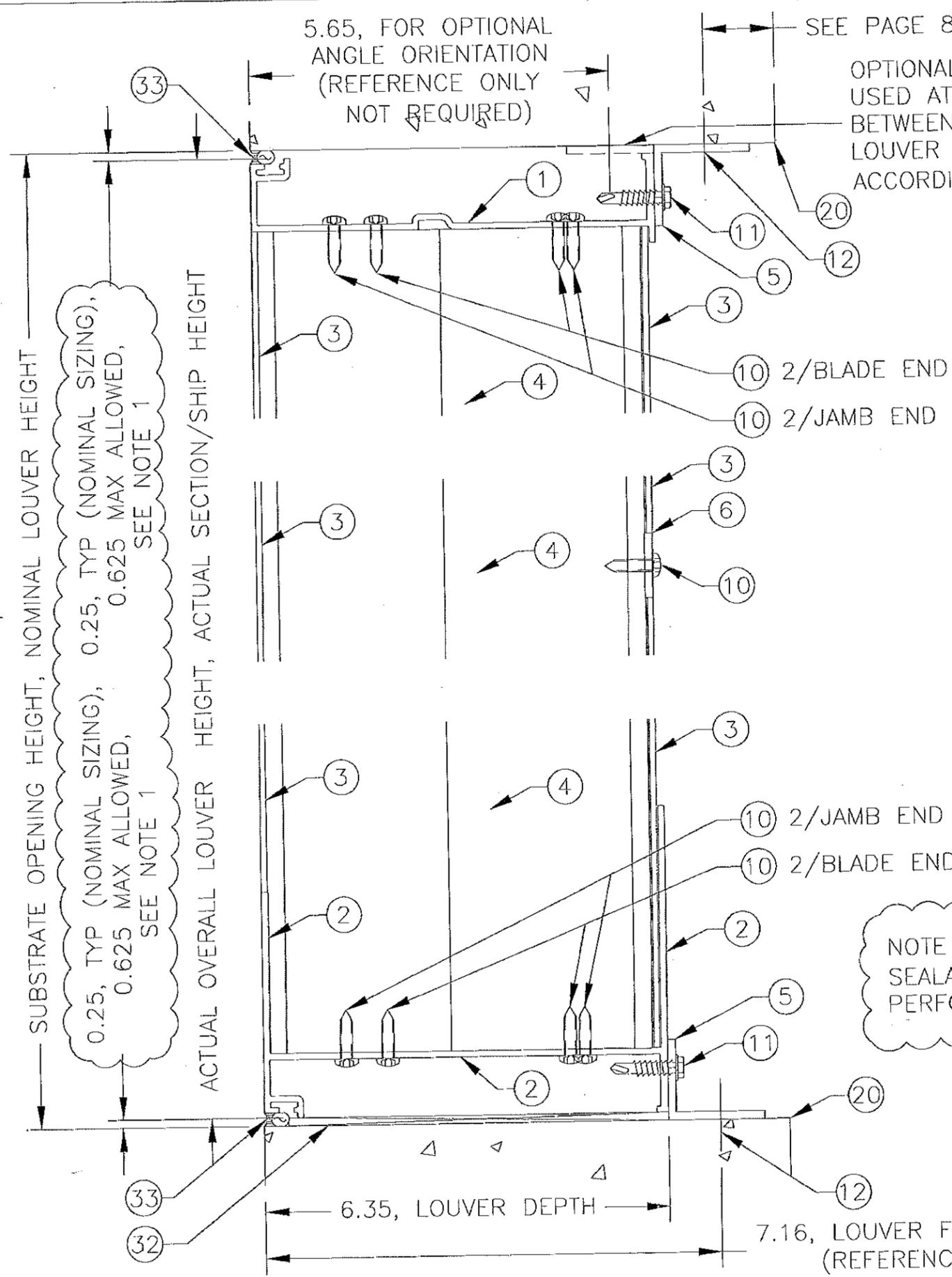
PRODUCT REVISED as complying with the Florida Building Code  
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 By *[Signature]*  
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 P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410	DRAWN BY: MES DATE: 12/6/11
	SCALE: 1:24 SHEET NO.: 1 OF 9
TITLE: EVH-660D ELEVATION	CAD DRAWING NO.: EVH-660D
Approved as complying with the Florida Building Code Date 10/04/2017 NOA# 12-0418.06 Miami Dade Product Control By <i>[Signature]</i>	

1  
2  
HEAD DETAIL  
SCALE: 1:2

2  
2  
SUPPORT DETAIL  
SCALE: 1:2

3  
2  
SILL DETAIL  
SCALE: 1:2



SUBSTRATE OPENING HEIGHT, NOMINAL LOUVER HEIGHT  
 0.25, TYP (NOMINAL SIZING), 0.25, TYP (NOMINAL SIZING),  
 0.625 MAX ALLOWED, 0.625 MAX ALLOWED,  
 SEE NOTE 1 SEE NOTE 1

5.65, FOR OPTIONAL ANGLE ORIENTATION (REFERENCE ONLY NOT REQUIRED)

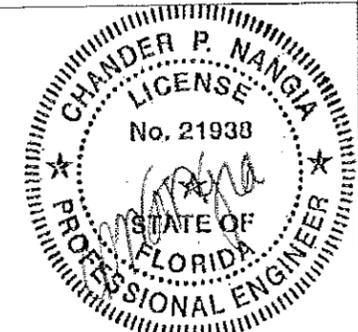
SEE PAGE 8 FOR MIN. EDGE DISTANCE

OPTIONAL ANGLE ORIENTATION. MAY BE USED AT HEAD OR SILL. CHECK CLEARANCE BETWEEN SUBSTRATE FASTENER HEAD AND LOUVER FRAME AND ADJUST LOUVER SIZE ACCORDINGLY IF NEEDED)

NOTE 1: END GAP MUST COMPLY TO SEALANT MANUFACTURE'S JOINT PERFORMANCE RECOMMENDATIONS.

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 as complying with the Florida Building Code  
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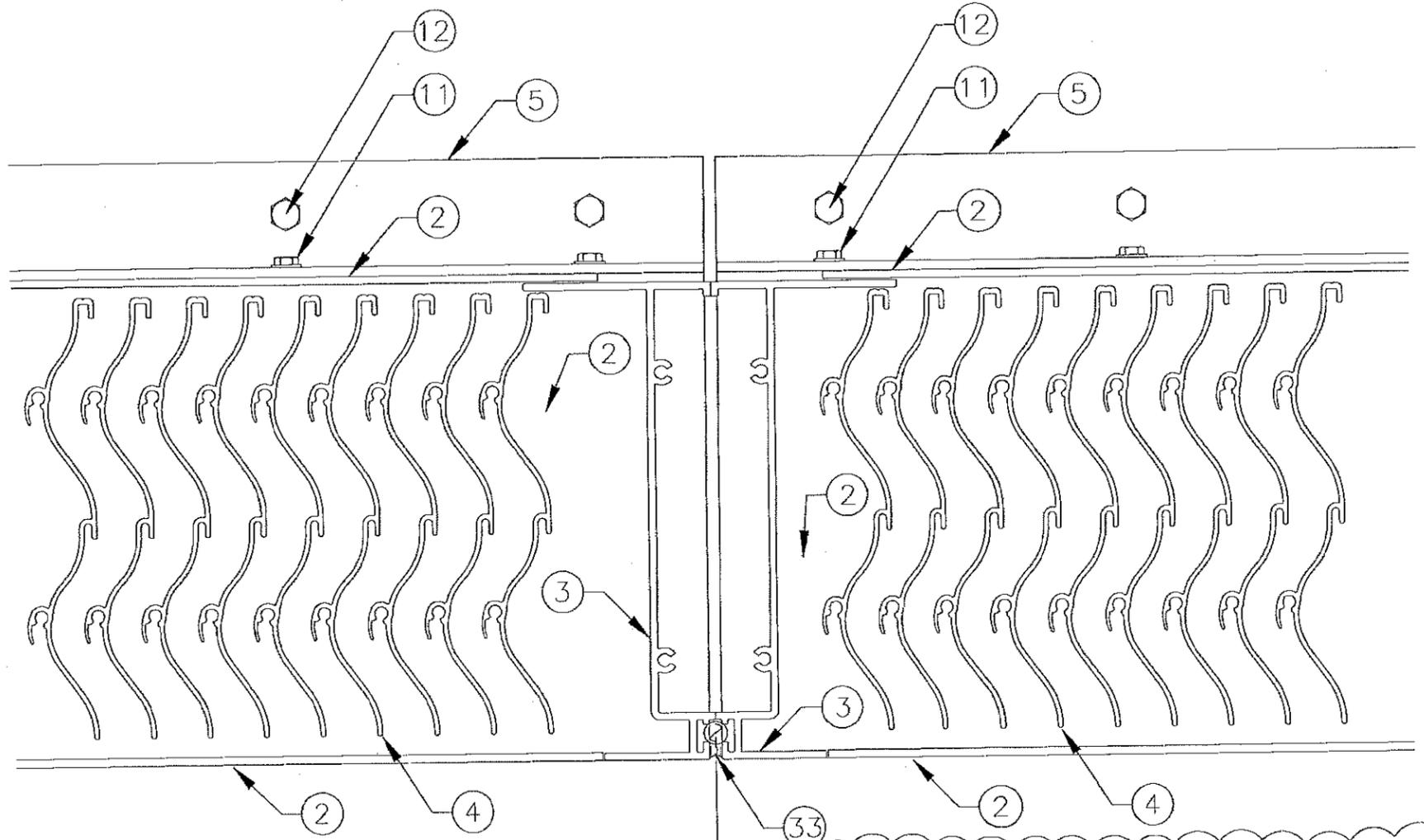
DESCRIPTION	REV #	DATE
GAP NOTE & SEALING NOTE	1	02/05/2014

**GREENHECK**  
 P.O. BOX 410 SCHOFIELD,  
 WISCONSIN 54476-0410

DRAWN BY	MES	DATE	12/6/11
SCALE	1:2	SHEET NO.	2 OF 9
TITLE			EVH-660D
CAD DRAWING NO.			EVH-660D

FEB 13 2014





ACTUAL LOUVER WIDTH  
ACTUAL SECTION/SHIP WIDTH

0.00, TYP (NOMINAL SIZING), SEE NOTE 1

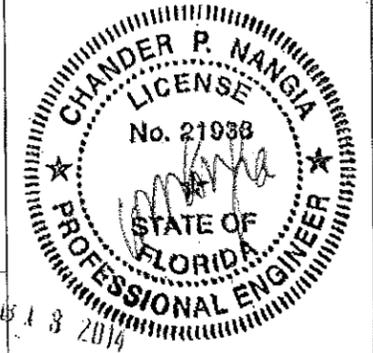
ACTUAL LOUVER WIDTH  
ACTUAL SECTION/SHIP WIDTH

SUBSTRATE OPENING WIDTH, NOMINAL LOUVER WIDTH

5  
4 MULLION DETAIL  
SCALE: 1:2

NOTE 1: END GAP MUST COMPLY TO SEALANT MANUFACTURE'S JOINT PERFORMANCE RECOMMENDATIONS.

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Expiration Date 10/04/2017  
By *[Signature]*  
Miami Dade Product Control

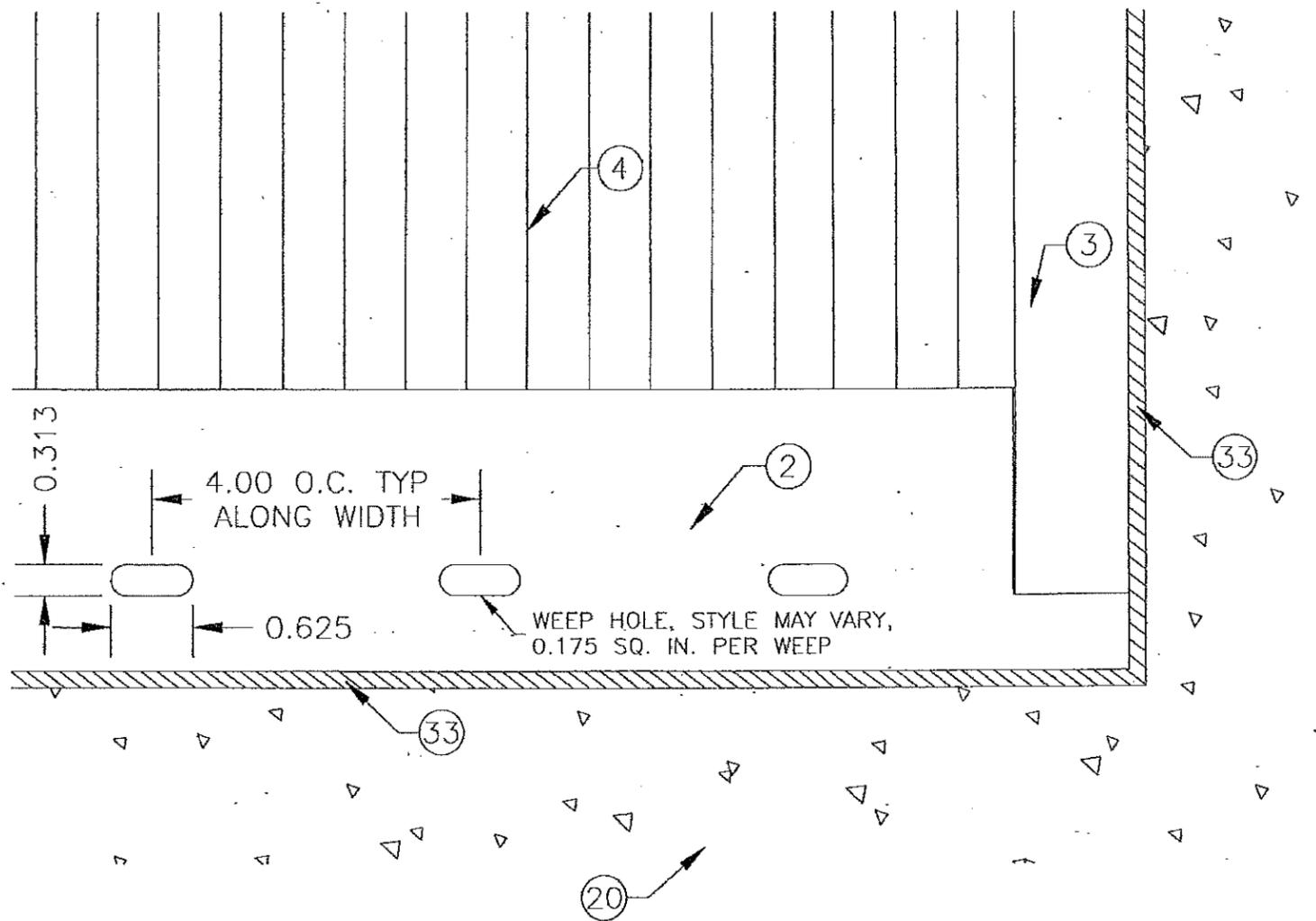


DESCRIPTION	REV #	DATE
GAP NOTE & SEALING NOTE	1	02/05/2014

 P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410	DRAWN BY	DATE
	MES	12/6/11
TITLE EVH-660D MULLION DETAIL	SCALE	SHEET NO.
	1:2	4 OF 9
CAD DRAWING NO. EVH-660D		

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Expiration Date 10/04/2017  
By *[Signature]*  
Miami Dade Product Control

DESCRIPTION	REV #	DATE
GAP NOTE & SEALING NOTE	1	02/05/2014



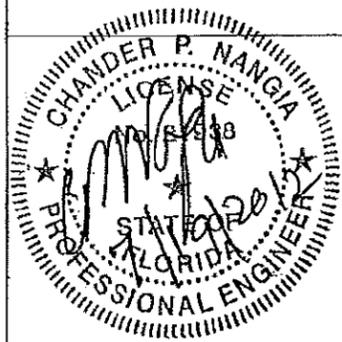
VIEW OF EXTERIOR FACE OF LOUVER,  
LOWER RIGHT CORNER

6  
5 WEEP DETAIL  
SCALE: 1:2

PRODUCT REVISED  
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Miami Dade Product Control

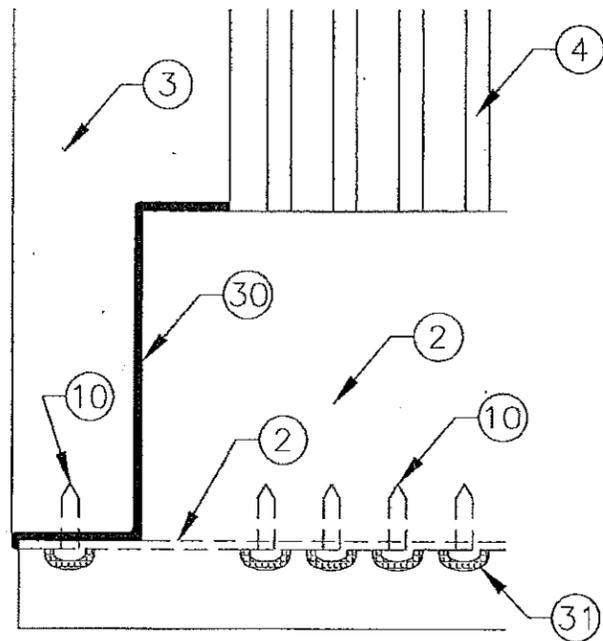
Approved as complying with the  
Florida Building Code  
Date 10/04/2012  
NOAH 12-0418.06  
Miami Dade Product Control  
By *[Signature]*

PRODUCT REVISED  
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Expiration Date 10/04/2017  
By *[Signature]*  
Miami Dade Product Control



 <b>GREENHECK</b> P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410	DRAWN BY MES	DATE 12/6/11
	SCALE 1:2	
TITLE E.V.H.-660D WEEP HOLE DETAIL	SHEET NO. 5 OF 9	CAD DRAWING NO. E.V.H.-660D

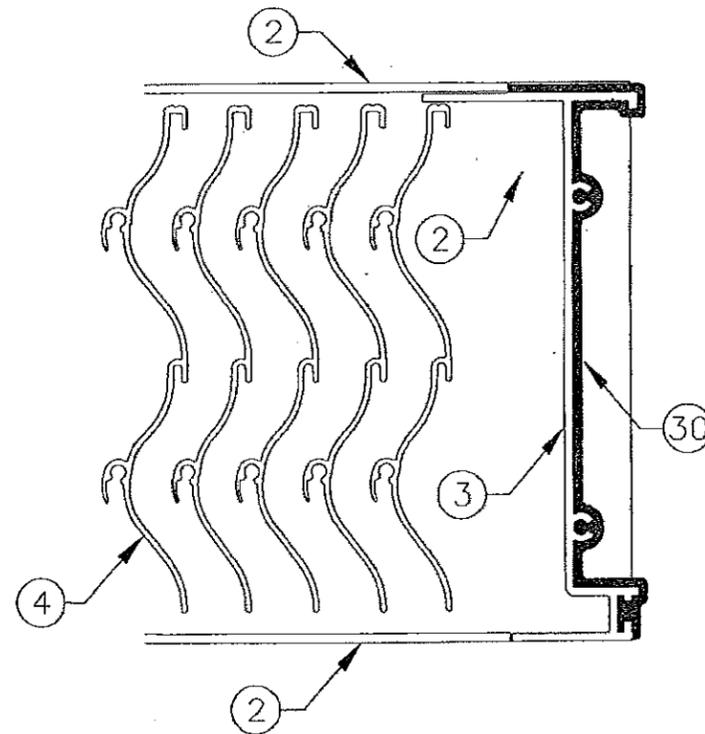
DARKENED AREAS INDICATE AREAS SEALED BY FACTORY, TYP AT BOTH SILL ENDS AND ALL BLADE-SILL AND JAMB-SILL FASTENERS. SCREWS ALLOWED TO USE A GASKET FOR SEALING VS A "WET" APPLIED SEAL OVER THE TOP OF THE SCREW.



VIEW OF INTERIOR FACE OF LOUVER, LOWER LEFT CORNER

7  
6 SEALING DETAIL 1  
SCALE: 1:2

DARKENED AREAS INDICATE AREAS SEALED BY FACTORY, TYP AT BOTH SILL ENDS.



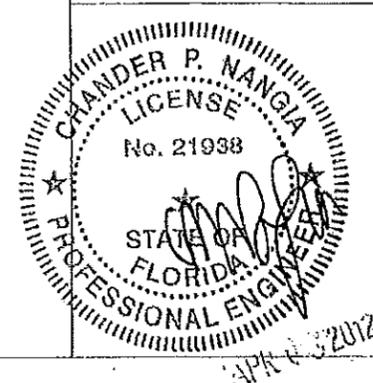
SECTIONAL VIEW, LOOKING AT SILL

8  
6 SEALING DETAIL 2  
SCALE: 1:2

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Date 10/04/2012  
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By *[Signature]*



DRAWN BY	MES	DATE	12/6/11
SCALE	1:2		
SHEET NO.	6 OF 9		
CAD DRAWING NO.	EVH-660D		

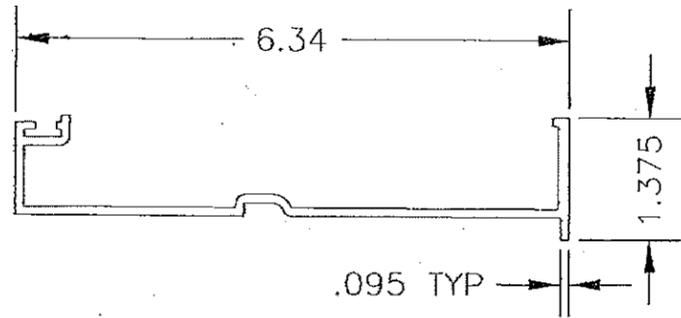
**GREENHECK**  
P.O. BOX 410 SCHOFIELD,  
WISCONSIN 54476-0410

EVH-660D

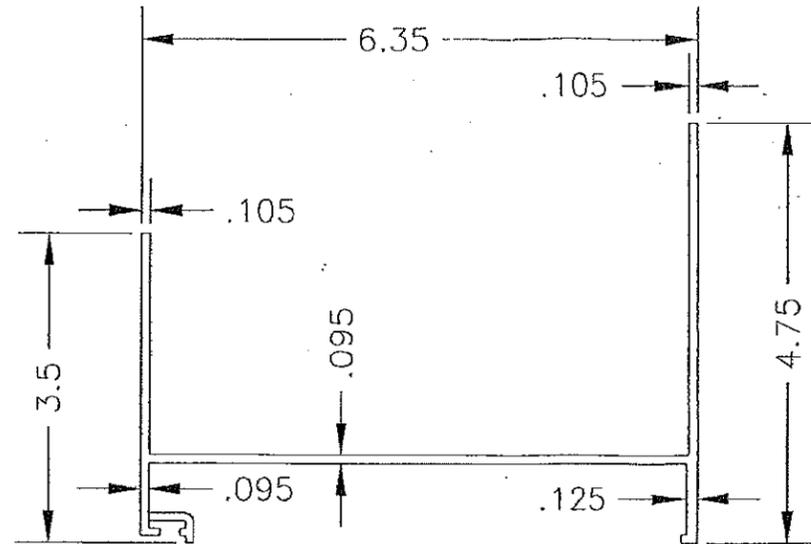
SEALING DETAILS

TITLE

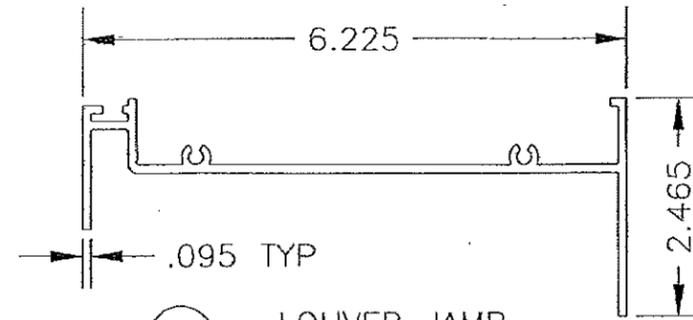
APR 13 2012



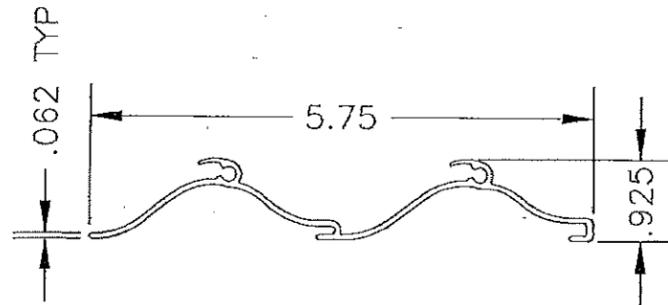
1 LOUVER HEAD  
6063-T5 ALUMINUM



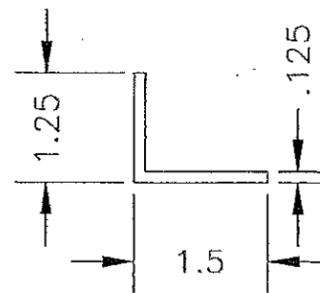
2 LOUVER SILL  
6063-T5 ALUMINUM



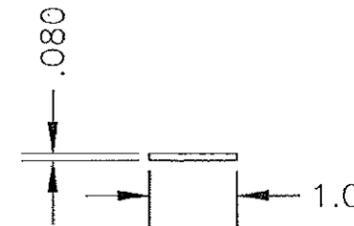
3 LOUVER JAMB  
6063-T5 ALUMINUM



4 LOUVER BLADE  
6063-T5 ALUMINUM



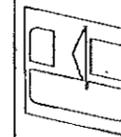
5 CONTINUOUS MOUNTING ANGLE  
6061-T6 ALUMINUM



6 BLADE SUPPORT STRAP  
6061-T6, 5052-H32,  
3003-H14, OR 1100-H14  
ALUMINUM

DRAWN BY MES	DATE 12/6/11
SCALE 1:2	SHEET NO. 7 OF 9
CAD DRAWING NO. EVH-660D	

**GREENHECK**  
P.O. BOX 410 SCHOFIELD,  
WISCONSIN 54476-0410



EVH-660D

PROFILE DETAILS

Approved as complying with the  
Florida Building Code  
Date 10/04/2012  
NOA# 12-0418-06  
Miami Dade Product Control

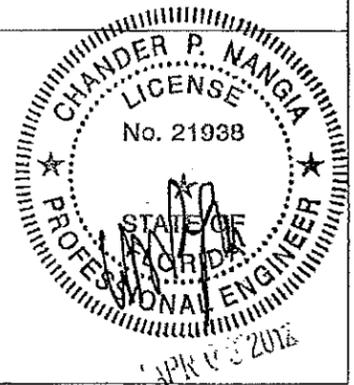
By *[Signature]*

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By *[Signature]*  
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Expiration Date 10/04/2017

By *[Signature]*  
Miami Dade Product Control



ALL SHOWN DIMENSIONS ARE MINIMUMS

3/8" POWERS WEDGE BOLT FASTENER TABLE					
FASTENER NUMBER	12A				
DESCRIPTION	3/8" POWERS WEDGE BOLT				
SUBSTRATE	NORMAL WEIGHT CONCRETE		CMU (1.5 KSI GROUT FILLED)		
MINIMUM	2.5 KSI		6" WIDE, GRADE N, TYPE II, LIGHT/MEDIUM/NORMAL WEIGHT CMU CONFORMING TO ASTM C90		
EDGE DISTANCE (MIN)	2 IN.	3 IN.	4-1/2 IN.	1-1/2 IN.	2 IN.
PENETRATION (MIN)	2-1/8 IN.		2-1/2 IN.		
LOUVER HEIGHT (IN.)	SPACING (IN.)			SPACING (IN.)	
>108 & ≤120	4	6	6	NOT ALLOWED	NOT ALLOWED
>72 & ≤108	6	6	6	NOT ALLOWED	NOT ALLOWED
>36 & ≤72	6	6	6	NOT ALLOWED	6
>0 & ≤36	6	6	6	6	6

1/4" TAPCON SCREW FASTENER TABLE			
FASTENER NUMBER	12B		
DESCRIPTION	1/4" TAPCON		
SUBSTRATE	CONCRETE OR CMU (GROUT FILLED)		
MINIMUM	3,192 KSI CONCRETE OR 3,192 KSI GROUT		
EDGE DISTANCE (MIN)	1 IN.	1-1/2 IN.	2-1/2 IN.
PENETRATION (MIN)	1-3/4 IN.		
LOUVER HEIGHT (IN.)	SPACING (IN.)		
>108 & ≤120	2	2	4
>96 & ≤108	2	4	4
>72 & ≤96	2	4	6
>48 & ≤72	4	6	6
>0 & ≤48	6	6	6

LAG SCREW, SCREW, & BOLT W/NUT FASTENER TABLE				
FASTENER NUMBER	12C	12D	12E	
DESCRIPTION	3/8" LAG SCREW	1/4" LAG SCREW	1/4"-20 SCREW OR BOLT W/NUT	
SUBSTRATE	WOOD		STEEL	
MINIMUM	G=42		A36 STEEL OR Fy>=36 KSI	
EDGE DISTANCE (MIN)	1-1/2 IN.		1/2 IN.	
PENETRATION (MIN)	2-3/4 IN.		16GA (0.06 IN.)	3/16 IN.
LOUVER HEIGHT (IN.)	SPACING (IN.)		SPACING (IN.)	
>84 & ≤120	6	4	6	6
>0 & ≤84	6	6	6	6

CONTINUOUS ANGLE TO LOUVER FRAME SCREW (FASTENER # 11)	
LOUVER HEIGHT (IN.)	SPACING (IN.)
>84 & ≤120	2
>0 & ≤84	4

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 16-0221-07  
Expiration Date 10/09/2017  
By *[Signature]*  
Miami Trade Product Control

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 14-0224-10  
Expiration Date 10/04/2017  
By *[Signature]*  
Miami Trade Product Control

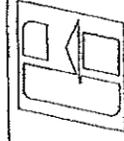
REVISION: ALL FOUR FASTENER TABLES ARE  
UPDATED TO LIMIT MAX ON CENTER SPACING TO  
4" FOR FRAME FASTENERS (ITEM 11) AND 6"  
FOR SUBSTRATE FASTENERS (ITEM 12).

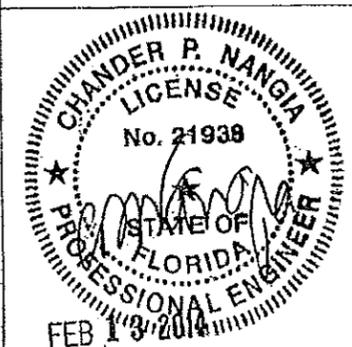
DESCRIPTION	REV #	DATE
SEE REVISION NOTE	1	02/05/2014

DRAWN BY: MES DATE: 12/6/11  
SCALE: NTS  
SHEET NO.: 8 OF 9  
CAD DRAWING NO.: EVH-660D

**GREENHECK**  
P.O. BOX 410 SCHOFIELD,  
WISCONSIN 54476-0410

EVH-660D  
FASTENER TABLES

TITLE: 



ITEM	DESCRIPTION	MATERIAL	NOTES
1	LOUVER HEAD	ALUM	
2	LOUVER SILL	ALUM	
3	LOUVER JAMB	ALUM	
4	LOUVER BLADE	ALUM	3/4" SPACING
5	CONTINUOUS MOUNTING ANGLE	ALUM	AT HEAD AND SILL ONLY
6	BLADE SUPPORT STRAP, FOR HEIGHTS > 60.875" ONLY	ALUM	NOT ATTACHED TO JAMBS
10	#10-24 x 3/4" MIN SCREW	STEEL* /SS	
11	1/4-20 x 1" MIN SCREW	STEEL* /SS	
12A	3/8" POWERS WEDGE BOLT	STEEL* /SS	SEE FASTENER TABLE PAGE
12B	1/4" TAPCON SCREW	STEEL* /SS	SEE FASTENER TABLE PAGE
12C	3/8" LAG SCREW	STEEL* /SS	SEE FASTENER TABLE PAGE
12D	1/4" LAG SCREW	STEEL* /SS	SEE FASTENER TABLE PAGE
12E	1/4-20 SCREW OR 1/4-20 BOLT W/NUT	STEEL* /SS	SEE FASTENER TABLE PAGE
20A	CONCRETE, 2.5 KSI MIN	CONCRETE	NOT BY MANUFACTURER
20B	CMU, 1.5 KSI MIN GROUT FILLED	CONCRETE	NOT BY MANUFACTURER
20C	STRUCTURAL STEEL, 3/16" MIN	STEEL	NOT BY MANUFACTURER
20D	STEEL STUD, 16GA MIN	STEEL	NOT BY MANUFACTURER
20E	WOOD SUBSTRATE, G=0.42 MIN DENSITY	WOOD	NOT BY MANUFACTURER
30	SEALANT, FACTORY APPLIED	VARIES	FACTORY APPLIED
31	SEALED SCREW HEAD, FACTORY APPLIED	VARIES	FACTORY APPLIED
32	SHIMS, OPTIONAL, AS REQUIRED, INCOMPRESSIBLE	VARIES	NOT BY MANUFACTURER
33	SEALANT AND BACKER ROD	VARIES	NOT BY MANUFACTURER

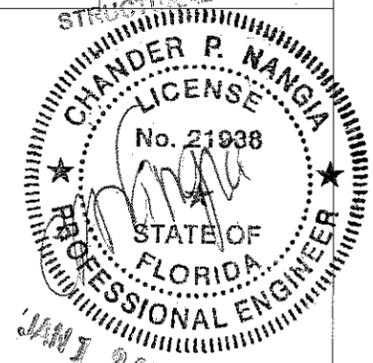
(STEEL/STAINLESS-STEEL/ALUMINUM PARTS MAY BE MADE OUT OF ALTERNATE ALLOY THAT HAS EQUAL OR GREATER YIELD STRENGTH)

\* STEEL MUST HAVE CORROSION RESISTANT COATING.

GENERAL NOTES:

- IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THE PENTHOUSE ASSEMBLY.
- THIS LOUVER HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PROTOCOLS [AND QUALIFIED IN ACCORDANCE WITH THE CURRENT FLORIDA BUILDING CODE (FBC) AND TEST PROTOCOLS/STANDARDS]:
  - TAS-201 (LARGE MISSILE IMPACT)
  - TAS-202 (UNIFORM STATIC PRESSURE)
  - TAS-203 (CYCLIC FATIGUE)
  - TAS-100(A) (WIND-DRIVEN RAIN)
  - AMCA STANDARD 550 (WIND-DRIVEN RAIN)
- THIS LOUVER HAS BEEN DESIGNED, TESTED, AND APPROVED TO WITHSTAND DESIGN PRESSURES OF UP TO AND INCLUDING +/-150 PSF.
- THE LOUVER MAY BE INSTALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVER IS NOT DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM OR THE ROOM WILL HOUSE NON-WATER RESISTANT OR WATER PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES.
- THE MAXIMUM SINGLE SECTION SIZE IS 48" WIDE BY 120" HIGH. THE MAXIMUM OVERALL/ASSEMBLED SIZE IS UNLIMITED WIDE (BY USE OF MULTIPLE SECTIONS OF 48" WIDE OR LESS) BY 120" HIGH. SECTIONS/ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDED THERE IS SUITABLE STRUCTURAL SUPPORT (DESIGNED AND INSTALLED BY OTHERS) TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER HEAD AND/OR SILL TO THE SUBSTRATE.
- A HORIZONTAL BLADE SUPPORT STRAP IS REQUIRED IF SECTION HEIGHT IS GREATER THAN 63".
- ALL WOOD SUBSTRATE SHALL BE G = 0.42 DENSITY OR BETTER.
- ALL STEEL STUD SUBSTRATE SHALL BE MIN. 16 GA. FY = 36 KSI.
- ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MIN. 3/16" THICK FY = 36 KSI.
- ALL CONCRETE SUBSTRATE SHALL BE MIN. 2,500 PSI.
- CONCRETE MASONRY SHALL BE MINIMUM OF: 6" WIDE, GRADE N, TYPE II, LIGHT/MEDIUM/NORMAL WEIGHT CMU CONFORMING TO ASTM C90, AND MIN. 1,500 PSI GROUT-FILLED.
- LOUVER CONSTRUCTION: HEAD, SILL, JAMBS, AND BLADES ARE SQUARE CUT AT BOTH ENDS. BLADE SPACING IS 3/4" MAX. BLADES ARE SECURED TO THE HEAD/SILL WITH (2) SCREWS PER BLADE END. EACH JAMB IS SECURED TO THE SILL AND HEAD WITH (2) SCREWS PER JAMB END.
- THE LOUVER MANUFACTURER DOES NOT DETERMINE THE STRUCTURAL INTEGRITY OF THE SUBSTRATE STRUCTURE.
- INSTALLER TO PROVIDE SEPARATION OF DISSIMILAR MATERIALS AS REQUIRED. SEE FL BLDG CODE SECTION 2003.8.4 FOR DETAILS.

REVISION	BY	DATE	SYM
REVISED NOTE 2 FBC REFERENCE	MES	01/11 2016	(2)

DRAWN BY MES	DATE 12/6/11	SCALE NTS	SHEET NO. 9 OF 9	CAD DRAWING NO. EVH-660D
 P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410		EVH-660D DESCRIPTIONS & GENERAL NOTES		
				
<b>PRODUCT REVISED</b> as complying with the Florida Building Code Acceptance No 16-0201.07 Expiration Date 10/04/2017 By  Manager, Product Control				