



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/building

Greenheck Fan Corporation
1110 Greenheck Drive (PO 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-501D Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **EVH-501D**, titled "EVH-501D", sheets 1 through 9 of 9, dated 04/01/15, prepared by the manufacturer, signed and sealed by Chander P. Nangia, 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: Each unit shall bear a permanent label with the manufacturer's name or logo, Schofield, WI or Shelby, NC, model/ series, and the statement reading: "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 No. **21-0526.10** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

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



12/04/23

NOA No. 23-1030.04
Expiration Date: August 06, 2025
Approval Date: December 14, 2023
Page 1

Greenheck Fan Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA's

A. DRAWINGS

1. Manufacturer's die drawings and sections.
(Submitted under NOA No. 15-0415.05)
2. Drawing No. **EVH-501D**, titled "EVH-501D", sheets 1 through 9 of 9, dated 04/01/15, prepared by the manufacturer, signed and sealed by Chander P. Nangia, P.E.
(Submitted under NOA No. 15-0415.05)

B. TESTS

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Model EVH-501D aluminum vertical louvers, prepared by Intertek/Architectural Testing, Inc, Report No. **E4766.02-602-18**, dated 03/13/15, signed and sealed by Shawn G. Collins, P.E.
(Submitted under NOA No. 15-0415.05)
2. Test Report on High Velocity Wind Driven Rain Resistance per AMCA 550-09 of a Model EVH-501D aluminum vertical louver, prepared by Intertek/Architectural Testing, Inc, Test Report No. **E4766.01-602-44**, dated 02/06/15, signed and sealed by Shawn G. Collins, P.E.
(Submitted under NOA No. 15-0415.05)

C. CALCULATIONS

1. Structural load calculations prepared by manufacturer, dated 04/01/15, signed and sealed by Chander P. Nangia, P.E.
(Submitted under NOA No. 15-0415.05)

D. QUALITY ASSURANCE

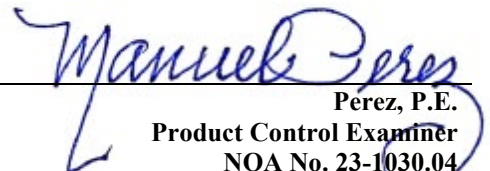
1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to the **FBC 7th Edition (2020)** and of no financial interest, dated May 13, 2021, issued by manufacturer, signed and sealed by Chander P. Nangia, P.E.
(Submitted under NOA No. 21-0526.10)


Perez, P.E.
Product Control Examiner
NOA No. 23-1030.04
Expiration Date: August 06, 2025
Approval Date: December 14, 2023

Greenheck Fan Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

G. OTHERS

1. Notice of Acceptance No. **20-0602.02**, issued to Greenheck Fan Corporation for their Model EVH-501D Aluminum Louver, approved on 06/25/20 and expiring on 08/06/25.

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. None.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

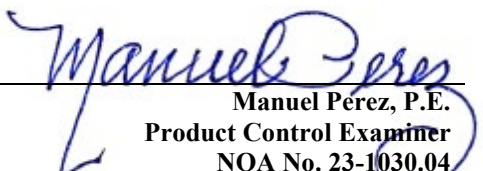
1. None.

F. STATEMENTS

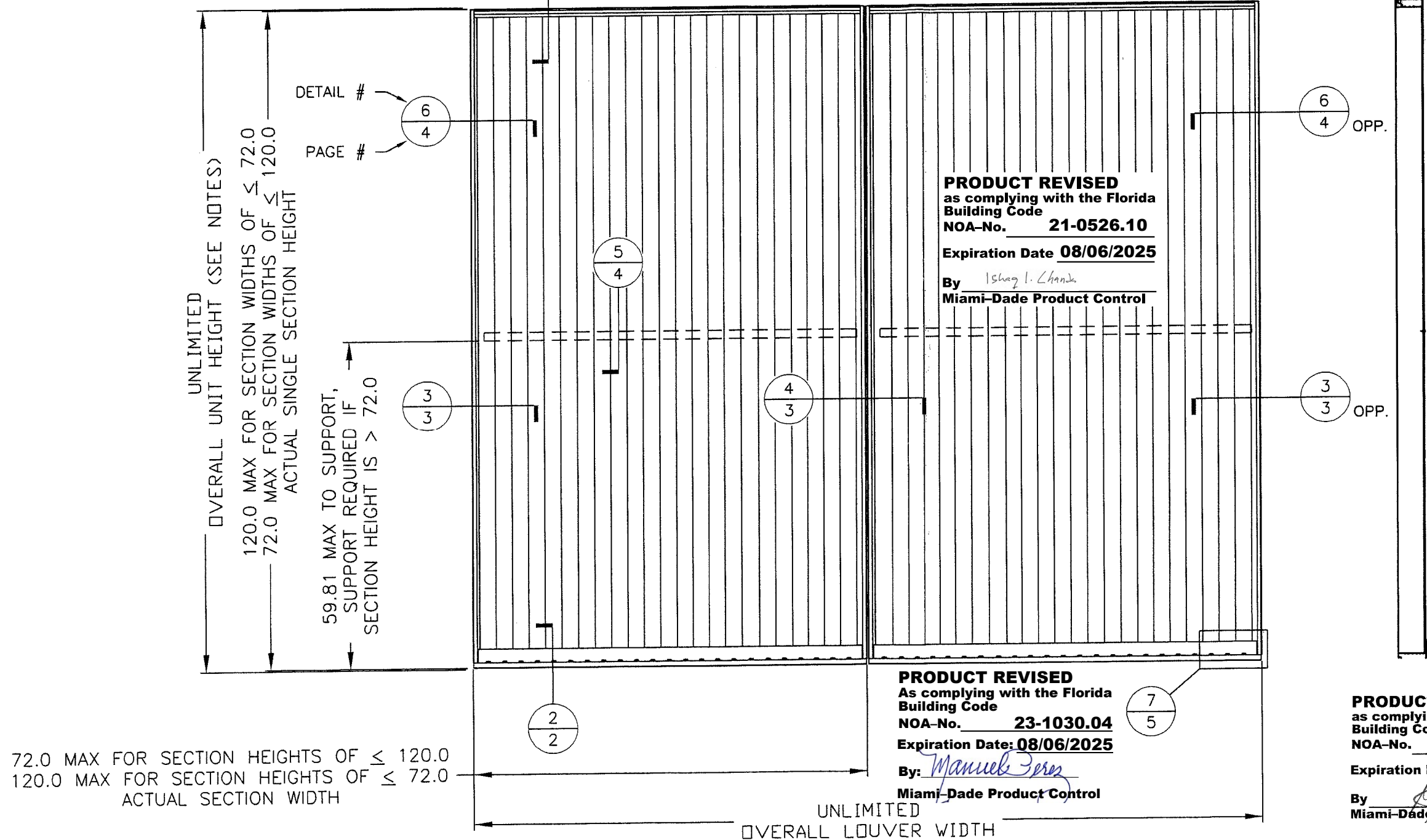
1. Statement letter of code conformance to the **FBC 8th Edition (2023)** and of no financial interest, dated October 16, 2023, issued by manufacturer, signed and sealed by Robert V. Nangia, P.E.

G. OTHERS

1. Notice of Acceptance No. **21-0526.10**, issued to Greenheck Fan Corporation for their Model EVH-501D Aluminum Louver, approved on 08/12/21 and expiring on 08/06/25.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 23-1030.04
Expiration Date: August 06, 2025
Approval Date: December 14, 2023

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 20-0602.02
Expiration Date 08/06/2025
By [Signature]
Miami-Dade Product Control



- NOTES:
- SINGLE-WIDE BY MULTI-HIGH ASSEMBLIES ARE PERMITTED AS LONG AS EACH SECTION'S HEIGHT/WIDTH ARE WITHIN THE ALLOWABLE MAXIMUMS, AND HEAD/SILL MOUNTING IS FOLLOWED AS SHOWN HEREIN.
 - MULTI-WIDE BY SINGLE-HIGH ASSEMBLIES ARE PERMITTED AS LONG AS EACH SECTION'S HEIGHT/WIDTH ARE WITHIN THE ALLOWABLE MAXIMUMS, AND HEAD/SILL MOUNTING IS FOLLOWED AS SHOWN HEREIN. MULLION SPACING IS 72.25 MAX ON CENTER.
 - MULTI-WIDE BY MULTI-HIGH ASSEMBLIES ARE PERMITTED AS LONG AS THE ABOVE TWO NOTES ARE FOLLOWED, AND THERE IS SUITABLE LOAD-BEARING STRUCTURE (BY OTHERS) AT EACH SECTION'S HEAD/SILL LOCATION AND HEAD/SILL MOUNTING IS FOLLOWED AS SHOWN HEREIN.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0526.10
Expiration Date 08/06/2025
By Ishag I. Chande
Miami-Dade Product Control

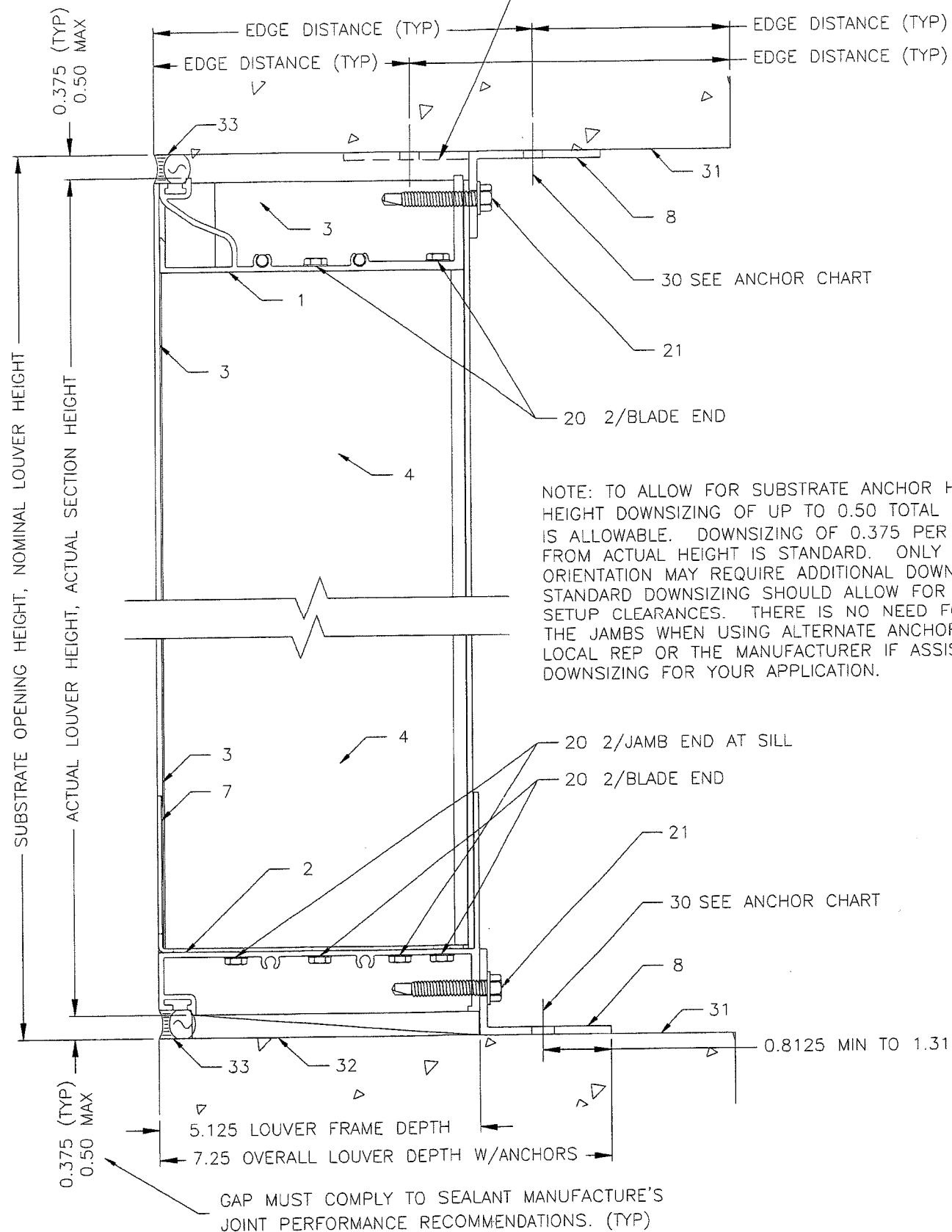
PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. 23-1030.04
Expiration Date: 08/06/2025
By: Manuel Perez
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 19-0116.03
Expiration Date 08/06/2020
By [Signature]
Miami-Dade Product Control

DRAWN BY MES	DATE 4/1/15	SHEET NO. 1 OF 9	CAD DRAWING NO. EVH-501D
	SCALE		
GREENHECK P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410		EVH-501D NOA DRAWINGS ELEVATION	
TITLE [Signature]		Approved as complying with the Florida Building Code Date <u>08/06/2015</u> NOA# <u>15-0415.05</u> Miami-Dade Product Control By <u>[Signature]</u>	
[Signature]		CHANDER P. NANGIA LICENSE No. 21938 STATE OF FLORIDA PROFESSIONAL ENGINEER MAY 21 2015	

DETAIL # 1 2 PAGE # **HEAD DETAIL**

ALTERNATE ORIENTATION OF ITEM 8, HEAD OR SILL, SEE DOWNSIZING NOTE



2 2 **SILL DETAIL**

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **23-1030.04**
Expiration Date: **08/06/2025**
By: Manuel Perez
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **21-0526.10**
Expiration Date **08/06/2025**
By: Ishaq I. Chank
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **19-0116.03**
Expiration Date **08/06/2020**
By: [Signature]
Miami-Dade Product Control

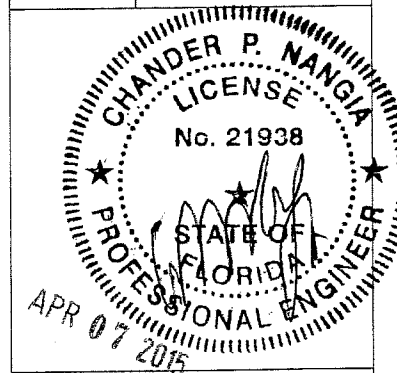
PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. **20-0602.02**
Expiration Date **08/06/2025**
By: [Signature]
Miami-Dade Product Control

DRAWN BY MES	DATE 4/1/15
	SCALE
SHEET NO. 2 OF 9	CAD DRAWING NO. EVH-501D

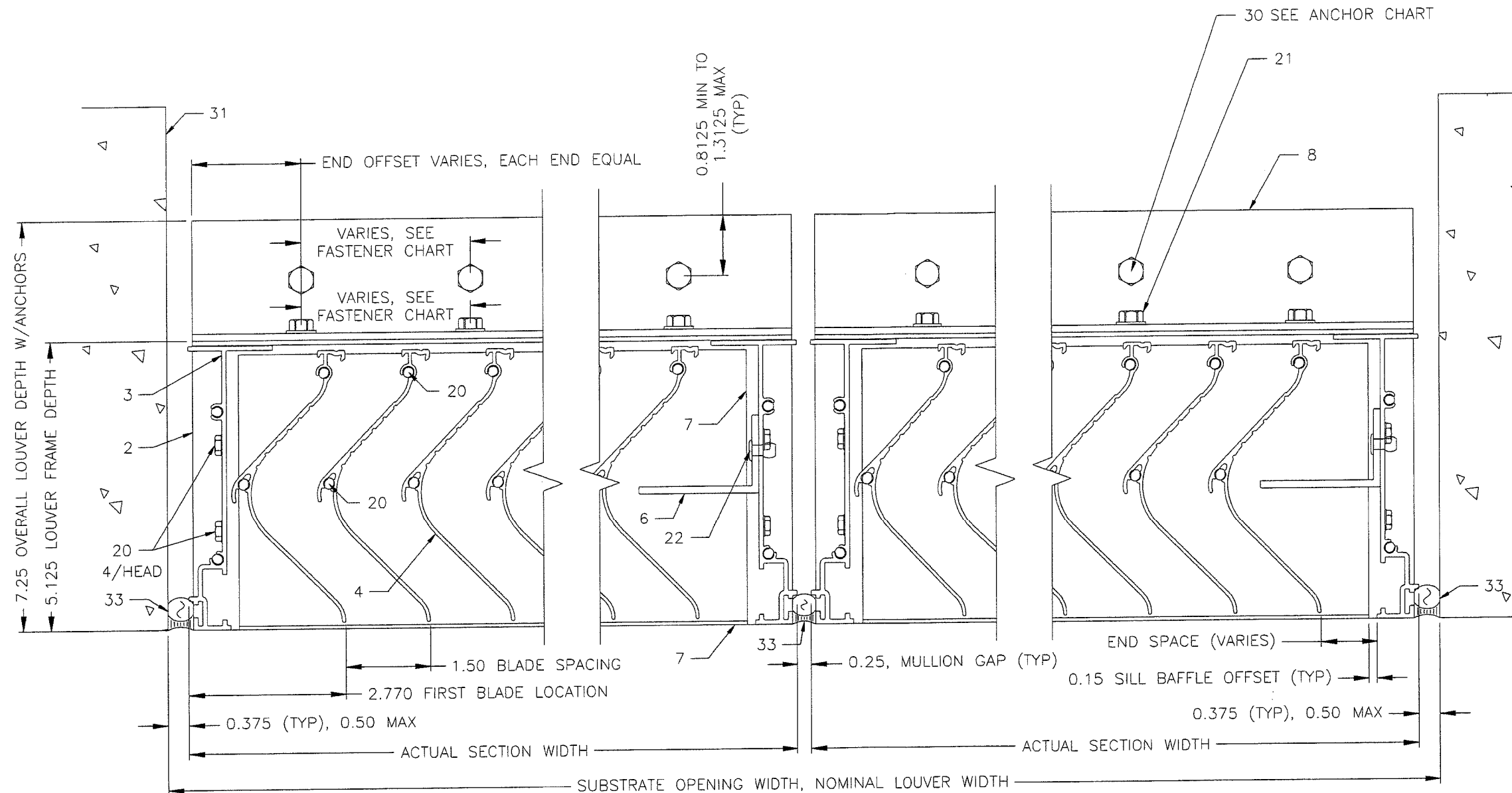
GREENHECK
P.O. BOX 410 SCHOFIELD,
WISCONSIN 54476-0410

EVH-501D
NOA DRAWINGS
DETAILS

TITLE



Approved as complying with the
Florida Building Code
Date 08/06/2015
NOA# 15-0415.05
Miami-Dade Product Control
By: [Signature]



3 3 JAMB DETAIL

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. 23-1030.04
Expiration Date: 08/06/2025
By: Manuel Perez
Miami-Dade Product Control

4 3 MULLION DETAIL

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 21-0526.10
Expiration Date 08/06/2025
By: Ishaq I. Chande
Miami-Dade Product Control

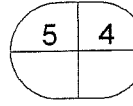
3 3 JAMB DETAIL (OPP)

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 19-0116.03
Expiration Date 08/06/2020
By: [Signature]
Miami-Dade Product Control

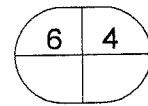
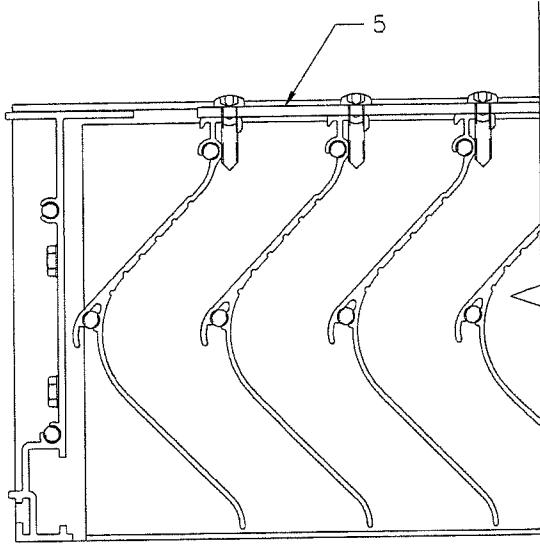
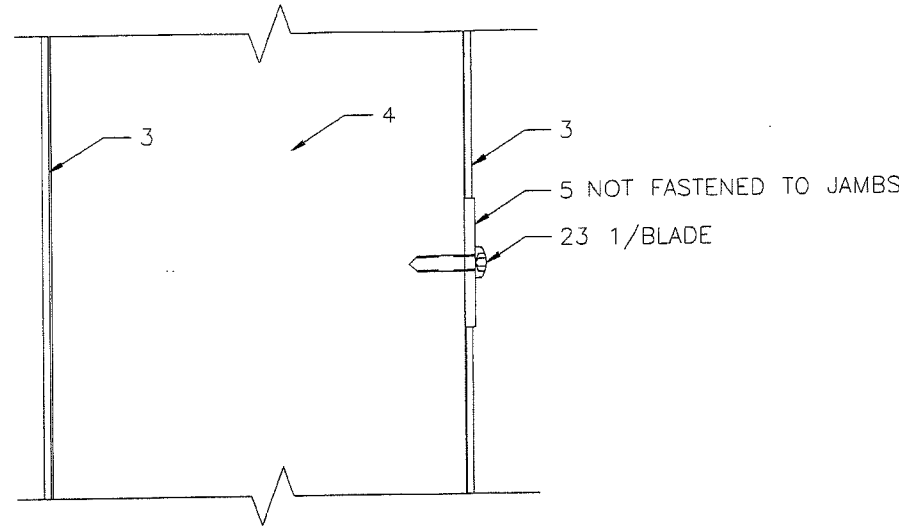
 GREENHECK P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410	DRAWN BY MES	DATE 4/1/15
	SCALE	SHEET NO. 3 OF 9
TITLE EVH-501D NOA DRAWINGS DETAILS		
CAD DRAWING NO. EVH-501D		

Approved as complying with the Florida Building Code
 Date 08/06/2015
 NOA# 15-0415.05
 Miami Dade Product Control
 By: [Signature]

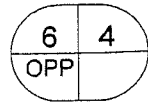
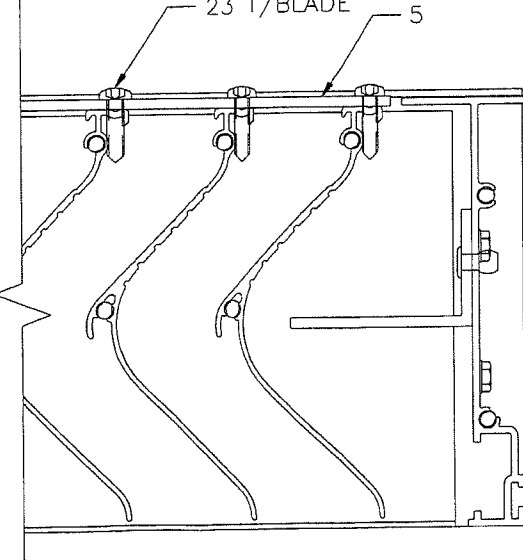
THIS PAGE DEPICTS DETAILS OF THE SUPPORT STRAP ONLY, SEE PAGE D2 FOR OTHER ITEMS



BLADE STRAP DETAIL
WHEN SECTION HEIGHT > 72.0"



BLADE STRAP AT JAMB DETAIL
WHEN SECTION HEIGHT > 72.0"



BLADE STRAP AT JAMB DETAIL (OPP)
WHEN SECTION HEIGHT > 72.0"

PRODUCT REVISED
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By: Manuel Perez
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 21-0526.10
Expiration Date 08/06/2025

By: Ishag I. Chande
Miami-Dade Product Control

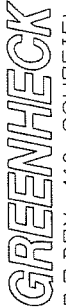
PRODUCT RENEWED
as complying with the Florida Building Code
NOA-No. 20-0602.02
Expiration Date 08/06/2025

By: R. P. Thomas
Miami-Dade Product Control

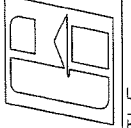
PRODUCT REVISED
as complying with the Florida Building Code
NOA-No. 19-0116.03
Expiration Date 08/06/2020

By: [Signature]
Miami-Dade Product Control

DRAWN BY	MES	DATE	4/1/15
SCALE			
SHEET NO.	4 OF 9		
CAD DRAWING NO.	EVH-501D		

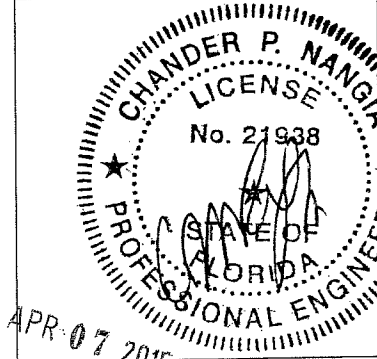


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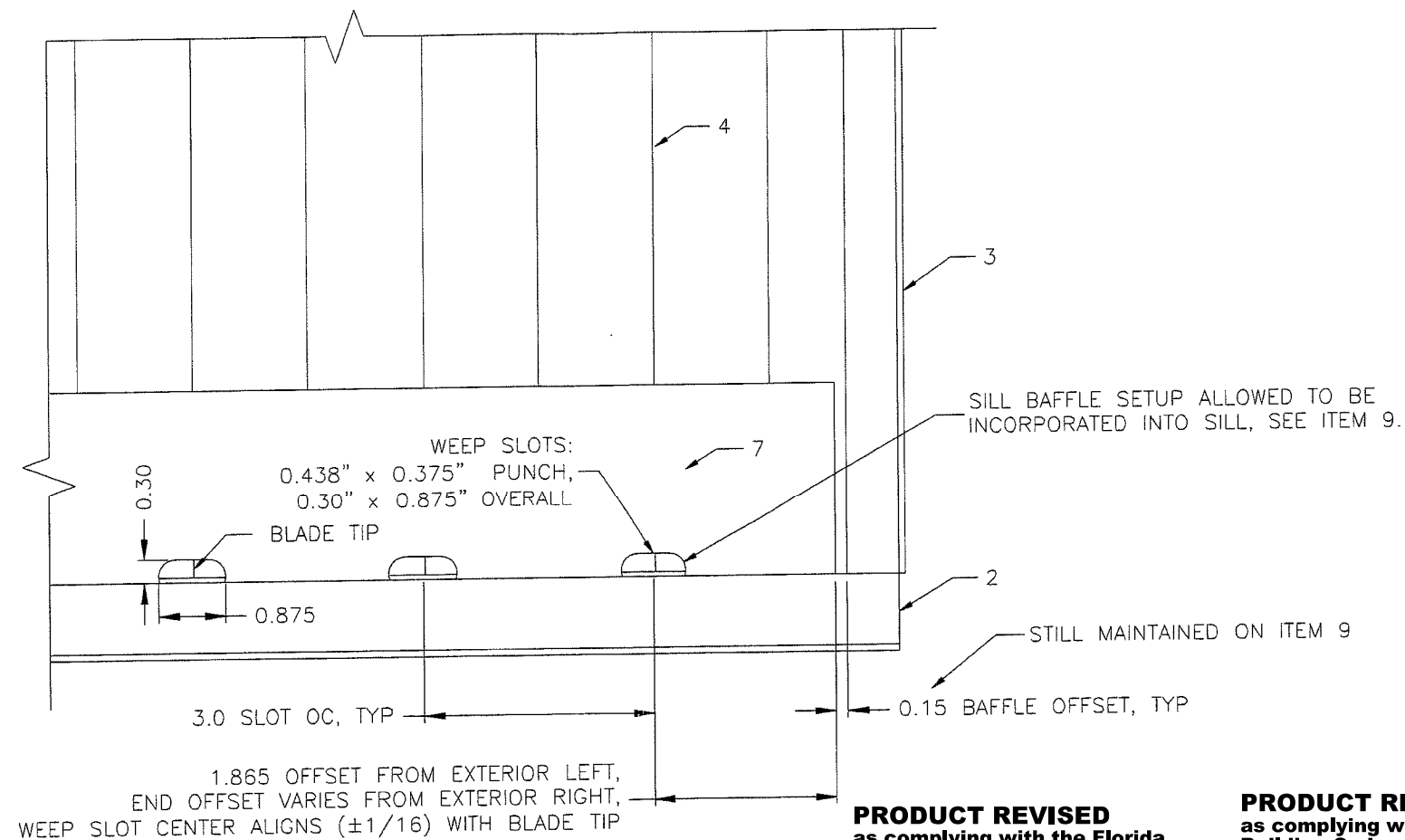


TITLE

EVH-501D
NOA DRAWINGS
DETAILS



Approved as complying with the Florida Building Code
Date 08/06/2015
NOA# 15-0415.25
Miami Dade Product Control
By: [Signature]



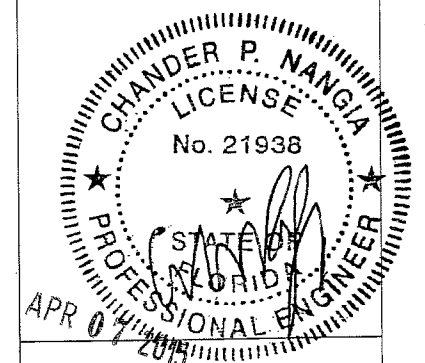
7 5 BAFFLE/WEEP DETAIL

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **21-0526.10**
Expiration Date **08/06/2025**
By Ishaq I. Chanda
Miami-Dade Product Control

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **23-1030.04**
Expiration Date: **08/06/2025**
By: Manuel Torres
Miami-Dade Product Control

PRODUCT RENEWED
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Building Code
NOA-No. **20-0602.02**
Expiration Date **08/06/2025**
By R. P. Torres
Miami-Dade Product Control

PRODUCT REVISED
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Building Code
NOA-No. **19-0116.03**
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By R. P. Torres
Miami-Dade Product Control

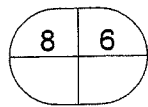
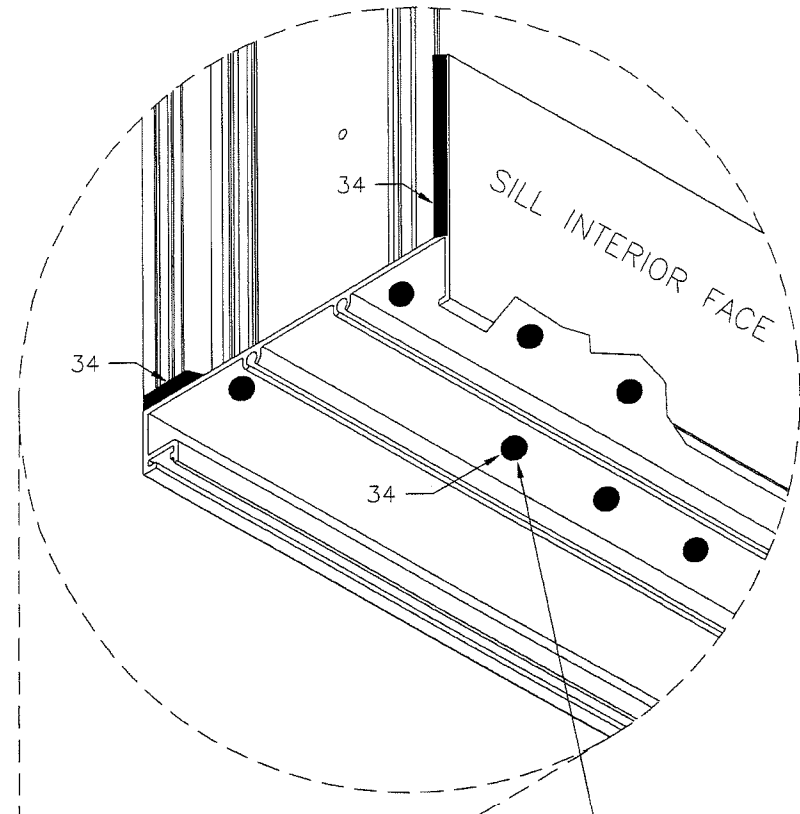
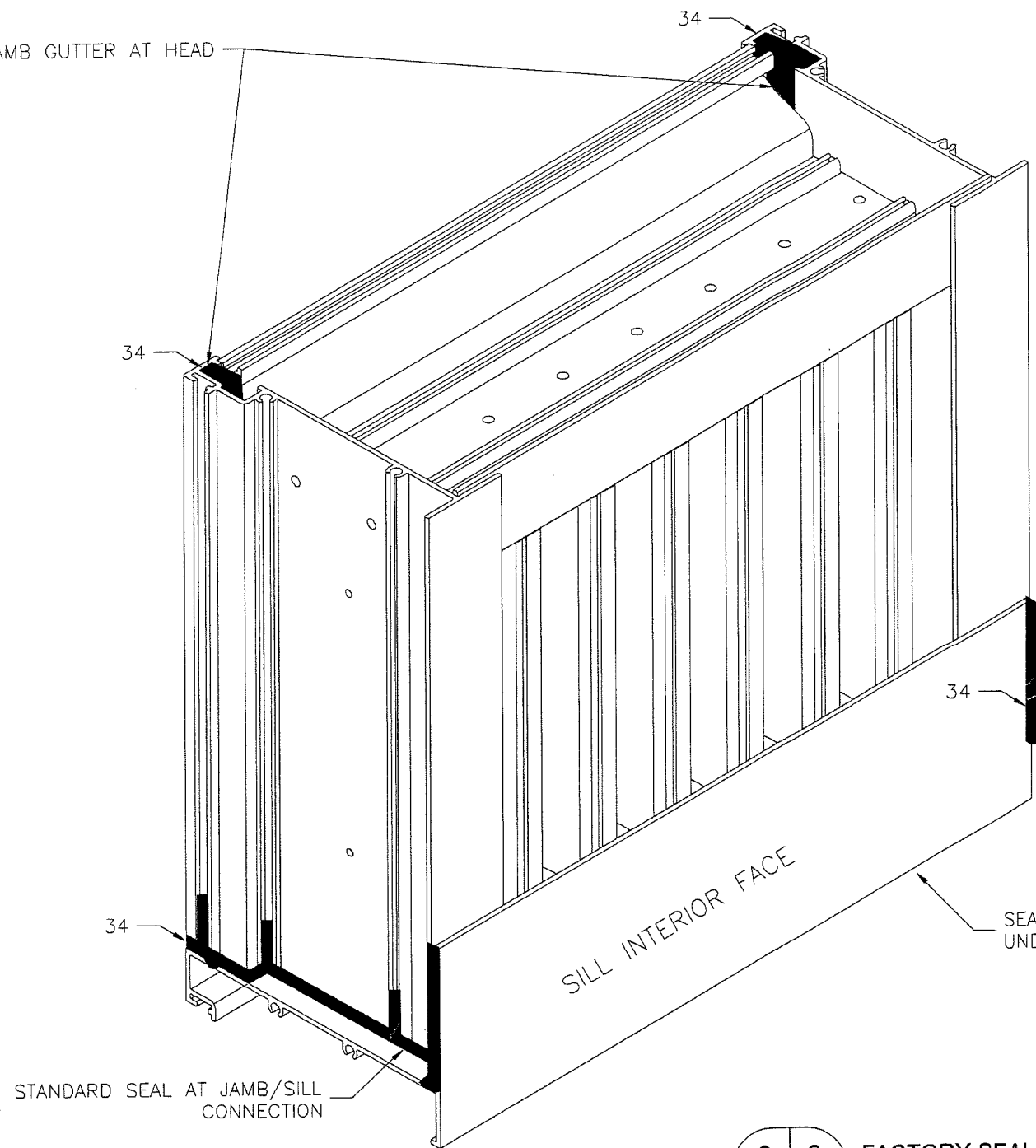


Approved as complying with the
Florida Building Code
Date 08/06/2015
NOA# 15-0415-05
Miami-Dade Product Control
By R. P. Torres

DRAWN BY MES
DATE 4/1/15
SCALE
SHEET NO. 5 OF 9
CAD DRAWING NO. EVH-501D

GREENHECK
P.O. BOX 410 SCHOFIELD,
WISCONSIN 54476-0410
EVH-501D
NOA DRAWINGS
DETAILS

SEAL JAMB GUTTER AT HEAD



FACTORY SEALING DETAIL

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0526.10
Expiration Date 08/06/2025
By Ishaq I. Chandra
Miami-Dade Product Control

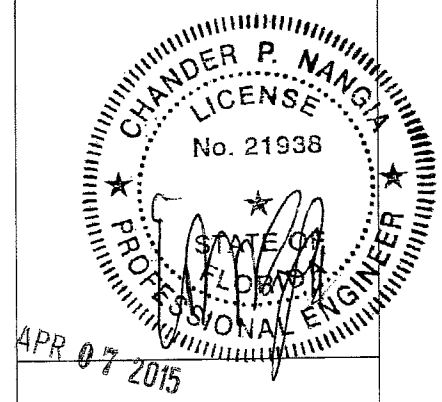
PRODUCT REVISED
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Miami-Dade Product Control

PRODUCT RENEWED
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Building Code
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Expiration Date 08/06/2025
By R. P. Thomas
Miami-Dade Product Control

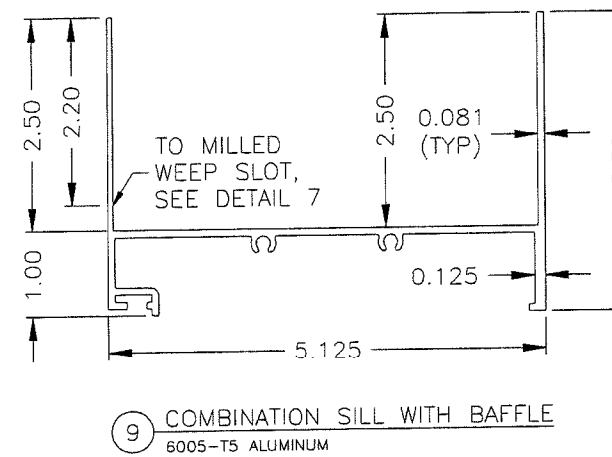
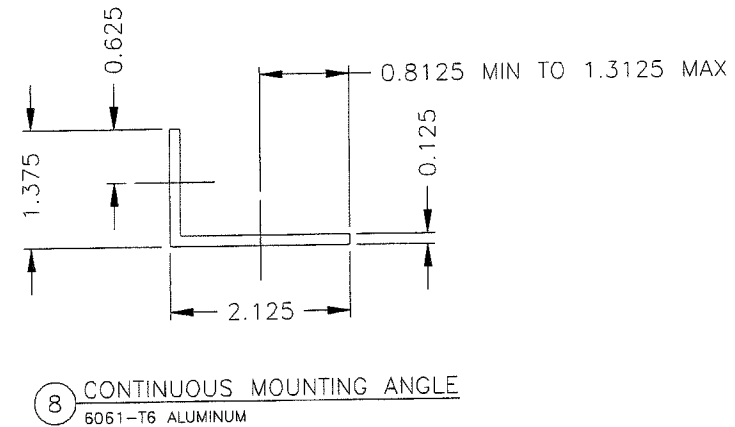
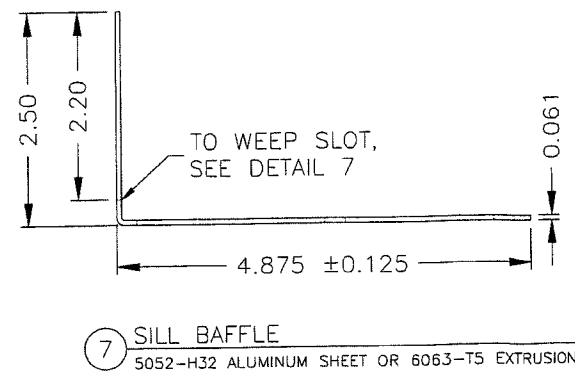
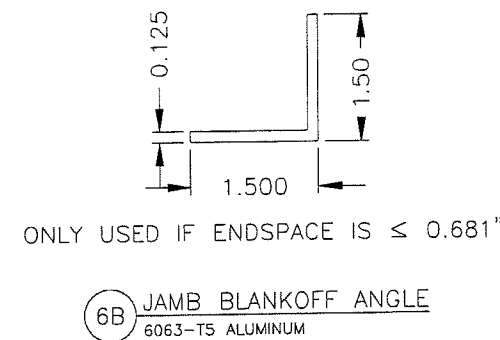
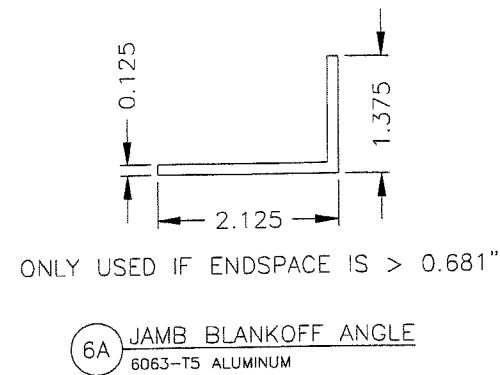
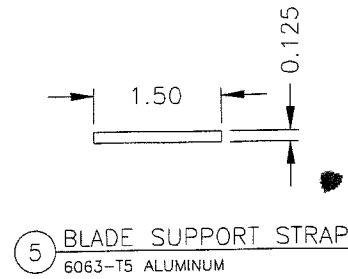
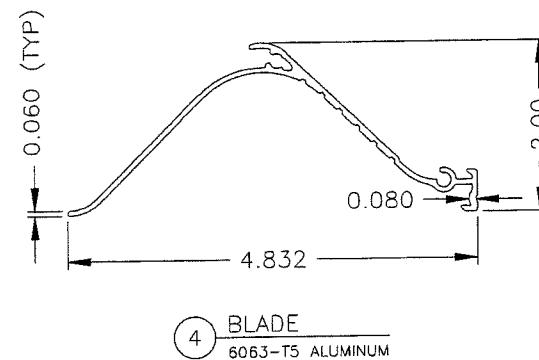
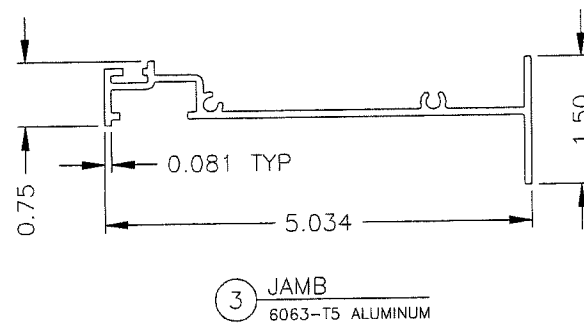
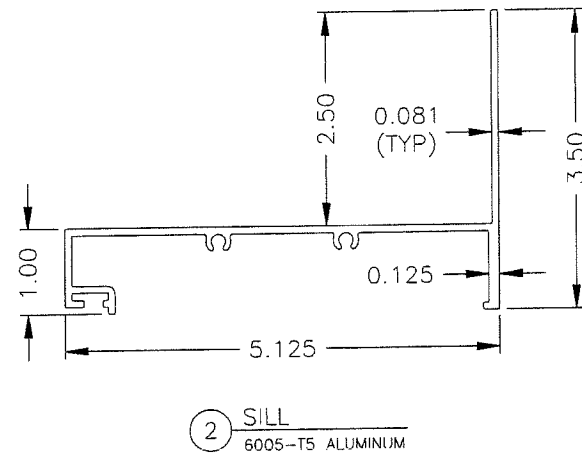
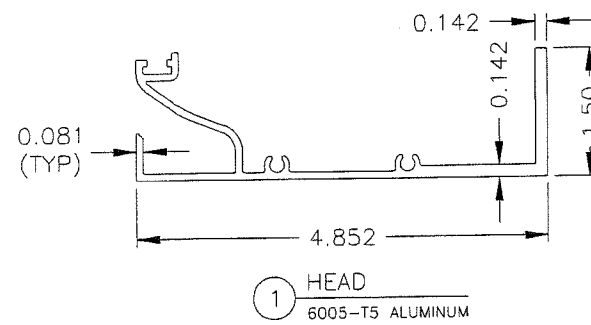
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 19-0116.03
Expiration Date 08/06/2020
By R. P. Thomas
Miami-Dade Product Control

DRAWN BY MES	DATE 4/1/15
SCALE	
SHEET NO. 6 OF 9	
CAD DRAWING NO. EVH-501D	

GREENHECK P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410	EVH-501D NOA DRAWINGS DETAILS
TITLE	



Approved as complying with the
Florida Building Code
Date 08/06/2015
NOA# 15-0415.05
Miami-Dade Product Control
By R. P. Thomas



PRODUCT REVISED
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NOA-No. **21-0526.10**
Expiration Date **08/06/2025**
By Isheq I. Chande
Miami-Dade Product Control

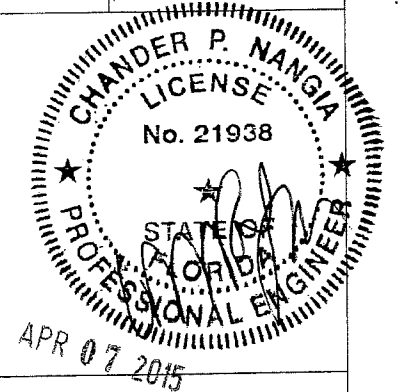
PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **23-1030.04**
Expiration Date: **08/06/2025**
By: Manuel Perez
Miami-Dade Product Control

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. **20-0602.02**
Expiration Date **08/06/2025**
By RPT
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **19-0116.03**
Expiration Date **08/06/2020**
By RPT
Miami-Dade Product Control

DRAWN BY MES	DATE 4/1/15
SCALE	
SHEET NO. 7 OF 9	
CAD DRAWING NO. EVH-501D	

GREENHECK P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410 EVH-501D NOA DRAWINGS PART PROFILES	EVH-501D NOA DRAWINGS PART PROFILES
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Approved as complying with the
Florida Building Code
Date **08/06/2015**
NOA# **15-0415.05**
Miami-Dade Product Control
By RPT

ITEM	DESCRIPTION	MATERIAL	INTERNAL ID#	NOTES
1	HEAD	6005-T5 ALUM	126069	
2	SILL	6005-T5 ALUM	126070	
3	JAMB	6063-T5 ALUM	126015	
4	BLADE	6063-T5 ALUM	126016	1.5" CENTERS/SPACING
5	BLADE SUPPORT STRAP	6063-T5 ALUM	130311	REQUIRED IF SECTION HEIGHT IS > 72.0", NOT FASTENED TO JAMBS
6	JAMB BLANKOFF ANGLE	6063-T5 ALUM	125151 OR 125967	ONLY ON RIGHT JAMB (FROM EXTERIOR VIEW)
7	SILL BAFFLE	5052-H32 ALUM	NA	EXTRUDED ANGLE ALLOWED
8	CONTINUOUS MOUNTING ANGLE	6061-T6 ALUM	125967	AT HEAD AND SILL ONLY
9	COMBINATION SILL WITH BAFFLE	6005-T5 ALUM	NA	ALLOWED TO REPLACE ITEMS 2 AND 7
--	--	--	--	--
20	#10-16 x 2.25" SCREW	300 SERIES SS	416351	AT FRAME CORNERS AND BLADE ENDS
21	1/4-20 x 1.5" SCREW, HILTI KWIK FLEX, PROVIDED BY LOUVER MANUFACTURER	COATED STEEL	416581	5.0" MAX CENTERS IF SECTION HEIGHT IS ≤ 72"
				3.0" MAX CENTERS IF SECTION HEIGHT IS ≤ 120"
22	3/16" Ø RIVET	300 SERIES SS	416588	ONLY ON ITEM 6 AT 8" MAX CENTERS
23	#10-16 x 0.75" SCREW	300 SERIES SS	416108	ONLY ON ITEM 5, ONE PER BLADE
--	--	--	--	--
30	SUBSTRATE FASTENER, SEE ANCHOR CHART	300/400 SS, OR COATED STEEL	NA	BY OTHERS, MINIMUM OF ONE TYPE REQUIRED, SEE ANCHOR CHART FOR ADDITIONAL DETAILS
31	SUBSTRATE, GROUT FILLED CMU	GROUT FILLED CMU	NA	BY OTHERS, MINIMUM OF ONE TYPE REQUIRED, SEE ANCHOR CHART FOR ADDITIONAL DETAILS
	SUBSTRATE, CONCRETE	CONCRETE		
	SUBSTRATE, STEEL STUD	STEEL		
	SUBSTRATE, STRUCTURAL STEEL	STEEL		
	SUBSTRATE, WOOD	WOOD		
	SUBSTRATE, ALUMINUM	ALUMINUM		
32	SHIM, NON-COMPRESSIBLE	VARIOUS	-	BY OTHERS, OPTIONAL, AS NEEDED
33	SEALANT & BACKER ROD	VARIOUS	-	BY OTHERS, REQUIRED TO PASS AMCA 550
34	SEALANT, FACTORY APPLIED	VARIOUS	NA	FACTORY APPLIED

6. GENERAL LOUVER CONSTRUCTION: HEAD, SILL, JAMBS, AND BLADES ARE EXTRUDED ALUMINUM. BLADE SPACING IS 1.5 INCHES. BLADES ARE SECURED TO THE HEAD/SILL WITH (2) SCREWS PER BLADE END. HEAD IS SECURED TO THE JAMB WITH (2) SCREWS PER HEAD END. SILL IS SECURED TO THE JAMB WITH (2) SCREWS PER SILL END. BLADE SUPPORT STRAP IS SECURED TO BLADES BY (1) SCREW PER BLADE. BLADE SUPPORT STRAP IS REQUIRED IF ACTUAL LOUVER HEIGHT IS > 72 INCHES.
7. INSTALLER TO PROVIDE SEPARATION OF DISSIMILAR MATERIALS AS REQUIRED. SEE FL BLDG CODE SECTION 2003.8.4 FOR DETAILS.
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/ALUMINUM PARTS MAY BE MADE OUT OF ALTERNATE ALLOY THAT HAS EQUAL OR GREATER YIELD STRENGTH. PART DIMENSIONS ARE MINIMUMS UNLESS DEFINED OTHERWISE.
10. THE INTERNAL ID# SHOWN ON PAGE 8 IS FOR FACTORY USE AND TRACKING PURPOSES ONLY AND MAY BE UPDATED AT ANY TIME. ANY UPDATES WILL NOT ALTER THE ITEM AS DESCRIBED HEREIN.

GENERAL NOTES:

1. 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 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 (FBC) AND TEST PROTOCOLS/STANDARDS]:
- TAS-201 (LARGE MISSILE IMPACT TEST)
TAS-202 (UNIFORM STATIC WIND PRESSURE TEST)
TAS-203 (UNIFORM CYCLIC WIND PRESSURE TEST)
ANSI/AMCA STANDARD 550 (HIGH VELOCITY WIND DRIVEN RAIN TEST)
3. THIS LOUVER HAS BEEN DESIGNED, TESTED, AND APPROVED TO WITHSTAND DESIGN PRESSURES OF UP TO AND INCLUDING +/-130 PSF.
4. DUE TO PASSING ANSI/AMCA STANDARD 550, THE LOUVER IS DESIGNED TO PREVENT WIND DRIVEN RAIN FROM PENETRATING THE SPACE BEHIND THE LOUVER. AS SUCH, THE LOUVER MAY BE INSTALLED IN A LOCATION WHERE THE SPACE/ROOM 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.
5. THE MAXIMUM SINGLE SECTION SIZE IS 120 WIDE BY 72 HIGH OR 72 WIDE BY 120 HIGH. THE MAXIMUM OVERALL/ASSEMBLED SIZE IS UNLIMITED WIDE BY USE OF MULTIPLE SECTIONS. 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 MOUNTING ANGLES TO THE SUBSTRATE.

PRODUCT REVISED

As complying with the Florida Building Code

NOA-No. 23-1030.04

Expiration Date: 08/06/2025

By: Manuel Fernandez

Miami-Dade Product Control

PRODUCT REVISED

as complying with the Florida Building Code

NOA-No. 21-0526.10

Expiration Date: 08/06/2025

By: Ishag I. Chandra

Miami-Dade Product Control

PRODUCT RENEWED

as complying with the Florida Building Code

NOA-No. 20-0602.02

Expiration Date: 08/06/2025

By: [Signature]

Miami-Dade Product Control

PRODUCT REVISED

as complying with the Florida Building Code

NOA-No. 19-0116.03

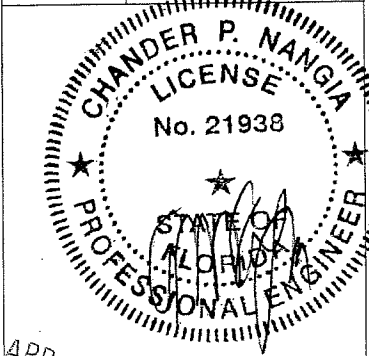
Expiration Date: 08/06/2020

By: [Signature]

Miami-Dade Product Control

DRAWN BY	DATE
MES	4/1/15
SCALE	
SHEET NO.	8 OF 9
CAD DRAWING NO.	EVH-501D

GREENHECK	EVH-501D
P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410	NOA DRAWINGS
	ITEM DESCRIPTIONS & GENERAL NOTES



APR 07 2015

Approved as complying with the Florida Building Code
Date: 08/06/2015
NOA# 15-0415.05
Miami-Dade Product Control
By: [Signature]

ITEM 31, SUBSTRATE			ITEM 30, SUBSTRATE FASTENER														
TYPE	MATERIAL MIN.	THICKNESS MIN.	TYPE (ALL FASTENERS ARE HEX HEAD STYLE)	MAT'L	DIA.	HEIGHT MAX.	SPACING MAX.	EDGE MIN.	EMBED. MIN.	WASHER/FLANGE MIN.	ANGLE HOLE MAX	SUBSTRATE HOLE, MAX.					
WOOD	G OF 0.42	3	LAG SCREW	**	1/4	72 120	6 3 *	1 1/2	2 7/8	NA	1/4	SEE FASTENER MANUFACTURER INSTRUCTIONS					
					3/8	72 120	9 6			13/16 AT HEAD	3/8						
STEEL	A36	16 GA	BOLT W/ NUT OR THREAD CUTTING/TAPPING SCREW	**	1/4-20	72 120	6 3 *	3/4	SHOWN GAGE VALUE	NA	5/16	5/16, FOR USE WITH NUT CONNECTION ONLY					
		14 GA			3/8-16	72 120	9 6				1	13/32	3/8, FOR USE WITH NUT CONNECTION ONLY				
ALUMINUM	6063-T5	1/8	BOLT W/ NUT OR THREAD CUTTING/TAPPING SCREW	**	1/4-20	72 120	6 3 *	1/2	1/8	NA	5/16	1/4					
					3/8-16	72 120	9 6			3/4	3/4 AT NUT	13/32	3/8				
CONCRETE	3 KSI	VARIES WITH SIZE OF FASTENER USED, SEE FASTENER MANUFACTURER INSTRUCTIONS	BUILDEX TAPCON (BLUE, WHITE, OR 410 SS)	VARIES	1/4	72	6	2 1/8	1 3/4	NA	1/4	SEE FASTENER MANUFACTURER INSTRUCTIONS					
	2.3 KSI		ELCO AGGRE-GATOR	300 SS				1 1/2	1 3/4		1/4						
	2.9 KSI		ELCO ULTRACON SS4	410 SS				2 1/2	1 3/4		1/4						
	3.4 KSI		ELCO CRETE-FLEX SS4, SMALL HEAD	410 SS				1 3/4	1 3/4		1/4						
	3.4 KSI		ELCO CRETE-FLEX SS4, FLANGED HEAD	410 SS				1	1 3/4		1/4						
	2.5 KSI		POWERS 316 STAINLESS STEEL WEDGE-BOLT	316 SS				2 1/2	1 7/8		5/16						
	2 KSI		POWERS WEDGE-BOLT PLUS	STEEL				1 3/4	1 1/2		5/16						
	2 KSI		BUILDEX TAPCON (BLUE, WHITE, OR 410 SS)	VARIES				2 3/8	1 1/2		1/4						
	3 KSI		BUILDEX TAPCON (BLUE, WHITE, OR 410 SS)	VARIES				1 1/2	1 3/4		1/4						
	2.3 KSI		ELCO AGGRE-GATOR	300 SS				1 1/2	1 3/8		1/4						
	2.9 KSI		ELCO ULTRACON SS4	410 SS		120	3 *	2 1/2	1 3/4		1/4						
	3.4 KSI		ELCO CRETE-FLEX SS4, SMALL HEAD	410 SS				2 1/2	1 3/4		1/4						
	3.4 KSI		ELCO CRETE-FLEX SS4, FLANGED HEAD	410 SS				2 1/2	1 3/4		1/4						
	2.5 KSI		POWERS 316 STAINLESS STEEL WEDGE-BOLT	316 SS				2	1 7/8		5/16						
	2 KSI		POWERS WEDGE-BOLT PLUS	STEEL				1 1/2	1 1/2		5/16						
	2.5 KSI		POWERS 316 STAINLESS STEEL WEDGE-BOLT	316 SS		72	9	2 3/4	2 3/8		7/16						
	2 KSI		POWERS WEDGE-BOLT PLUS	STEEL				2 1/4	1 1/2		7/16						
	2.5 KSI		POWERS 316 STAINLESS STEEL WEDGE-BOLT	316 SS				1 1/4	2 3/8		7/16						
	2 KSI		POWERS WEDGE-BOLT PLUS	STEEL				1 1/8	1 1/2		7/16						
	GROUT FILLED CMU		NOTE 1			ELCO AGGRE-GATOR	300 SS	1/4	72		6		2	2	NA	1/4	SEE FASTENER MANUFACTURER INSTRUCTIONS
						ELCO AGGRE-GATOR	300 SS	1/4	120		3 *		2	2		1/4	
			NOTE 2			ELCO ULTRACON SS4	410 SS						2 1/2	2		1/4	
			NOTE 3			POWERS WEDGE-BOLT PLUS	STEEL	3/8	120		6		2	2 1/2		7/16	

NOTE *: ALL 0.25" DIAMETER 3.0" CENTER FASTENER SETUPS (LOUVERS WITH HEIGHT < 120") CAN HAVE THEIR CENTERS INCREASED TO 5.0" AND BE USED ON A LOUVER WITH HEIGHT OF < 72" AS LONG AS NO OTHER ITEMS OF THE ORIGINAL SELECTED 0.25" DIAMETER 3.0" CENTER FASTENER SETUP CHANGE (I.E. SUBSTRATE, EMBEDMENT, ETC.).

NOTE **: LAG SCREWS SHALL HAVE STRENGTHS OF MINIMUM GRADE 1 STEEL, OTHER BOLT AND SCREWS SHALL HAVE STRENGTHS OF MINIMUM GRADE 2 STEEL.

NOTE 1: CONCRETE MASONRY (CMU) SHALL BE > THE FOLLOWING; 6" WIDE, CMU CONFORMING TO ASTM C-90 FILLED WITH 4,747 KSI GROUT.

NOTE 2: CONCRETE MASONRY (CMU) SHALL BE > THE FOLLOWING; 6" WIDE, 2 KSI CMU CONFORMING TO ASTM C-90 WITH 1624 KSI GROUT.

NOTE 3: CONCRETE MASONRY (CMU) SHALL BE > THE FOLLOWING; 6" WIDE, GRADE N, TYPE II, LIGHT-WEIGHT/MEDIUM-WEIGHT/NORMAL-WEIGHT CMU CONFORMING TO ASTM C-90. MORTAR MUST BE TYPE N.

PRODUCT REVISED

As complying with the Florida Building Code

NOA-No. 23-1030.04

Expiration Date: 08/06/2025

By: Manuel Perez

Miami-Dade Product Control

PRODUCT REVISED

as complying with the Florida Building Code

NOA-No. 21-0526.10

Expiration Date 08/06/2025

By: Ishaq I. Chanku

Miami-Dade Product Control

PRODUCT RENEWED

as complying with the Florida Building Code

NOA-No. 20-0602.02

Expiration Date 08/06/2025

By: R. Torres

Miami-Dade Product Control

PRODUCT REVISED

as complying with the Florida Building Code

NOA-No. 19-0116.03

Expiration Date 08/06/2020

By: R. Torres

Miami-Dade Product Control

DATE 4/1/15

DRAWN BY MES

SCALE

SHEET NO. 9 OF 9

CAD DRAWING NO. EVH-501D

GREENHECK

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

TITLE

EVH-501D

NOA DRAWINGS

SUBSTRATE REQUIREMENTS & SUBSTRATE ANCHOR CHART

Approved as complying with the Florida Building Code

Date 08/06/2015

NOA# 15-0415.05

Miami Dade Product Control

By: [Signature]

CHANDER P. NANGIA

LICENSE

No. 21938

PROFESSIONAL ENGINEER

STATE OF FLORIDA

JUN 1 2