

Engineering Evaluation Report
Report FL #: 19665 for Greenheck model EHH-601DE
Report FL #: 19673 for Airolite model SCH601MDE

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 Lines: Greenheck Louver Model EHH-601DE (Channel Frame and Sleeve Frame setups), and equivalent nameplate Airolite Louver Model SCH601MDE (Channel Frame and Sleeve Frame setups).

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

Product Description: Aluminum louvers with fixed blades and butt-type frame corner construction. Blades for all setups are 6063-T5 material. Frame of channel frame setups is 6063-T5 material, and frame of sleeve frame setups is 6005-T5 and 5052-H32 materials.

Performance Summary (for entire product line): Products tested design pressure was +/- 150 PSF, allowable stress design, (ASD). Products passed ANSI/AMCA Standard 540-13 (including TAS 203-94) at Enhanced Impact Missile Level E (80 fps impact speed). Products passed ANSI/AMCA Standard 550-22 with attached VCD-40 Damper with blades in the fully closed position. Products passed TAS 201-94, TAS 202-94, and TAS 203-94. Products can be used inside and outside of the HVHZ and are impact resistant.

Performance Standards:

1. ANSI/AMCA Standard 540-13 (including TAS 203-94), Test Method for Louvers Impacted by Wind Borne Debris.
2. ANSI/AMCA Standard 550-22, Test Method for High Velocity Wind Driven Rain Resistant Louvers (with attached VCD-40 Damper with blades in the fully closed position).
3. FBC TAS 201-94, Impact Test Procedures.
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 25-0214.03 for EHH-601DE w/ and w/o VCD-40 Damper (Channel Frame and Sleeve Frame setups), approved on 03/13/2025
 - b. NOA 25-0214.03 (same as above) for SCH601MDE w/ and w/o VCD-40 Damper (Channel Frame and Sleeve Frame setups), approved on 03/13/2025
2. Listing Documents:
 - a. AMCA License Agreement to use the AMCA Listing Label for ANSI/AMCA 540 (Enhanced Impact Missile Level E, 80 fps):
 - i. EHH-601DE, Channel Frame, Appendix No. 415 dated 04/10/2019
 - ii. EHH-601DE, Sleeve Frame, Appendix No. 416 dated 03/05/2020
 - iii. SCH601MDE, Channel Frame, Appendix No. 143 dated 03/09/2020
 - iv. SCH601MDE, Sleeve Frame, Appendix No. 144 dated 03/09/2020
 - b. AMCA License Agreement to use the AMCA Listing Label for ANSI/AMCA 540 (Enhanced Impact Missile Level E, 80 fps) as well as the AMCA Listing Label for ANSI/AMCA 550 (with attached VCD-40 Damper with blades in the fully closed position):
 - i. EHH-601DE w/ VCD-40 Damper, Channel Frame, Appendix No. 497 dated 06/23/2025
 - ii. EHH-601DE w/ VCD-40 Damper, Sleeve Frame, Appendix No. 496 dated 06/23/2025
 - iii. SCH601MDE w/ VCD-40 Damper, Channel Frame, Appendix No. 171 dated 06/23/2025
 - iv. SCH601MDE w/ VCD-40 Damper, Sleeve Frame, Appendix No. 170 dated 06/23/2025
3. Test Reports:
 - a. Channel Frame:
 - i. F0139.01-602-18, signed and sealed on 08/28/2015 by Justin P. McDonald, P.E., Architectural Testing, Inc., Schofield, WI
 1. FBC TAS 201-94, FBC TAS 202-94, and FBC TAS 203-94
 - ii. F0141.01-602-44, Rev. 2, signed and sealed on 12/1/2015 by Justin P. McDonald, P.E., Architectural Testing, Inc., Schofield, WI
 1. ANSI/AMCA Standard 540-13, and FBC TAS 203-94
 - iii. QCT23-7159.01, signed and sealed on 01/28/2024 by Brian M. Sasman, P.E., Quast Consulting and Testing, Inc., Mosinee, WI
 1. ANSI/AMCA Standard 550-22

b. Sleeve Frame:

- i. F0138.01-602-18, signed and sealed on 09/11/2015 by Justin P. McDonald, P.E., Architectural Testing, Inc., Schofield, WI
 1. FBC TAS 201-94, FBC TAS 202-94, and FBC TAS 203-94
- ii. F0140.01-602-44, Rev. 1, signed and sealed on 11/18/2015 by Justin P. McDonald, P.E., Architectural Testing, Inc., Schofield, WI
 1. ANSI/AMCA Standard 540-13, and FBC TAS 203-94
- iii. QCT23-7159.02, signed and sealed on 01/28/2024 by Brian M. Sasman, P.E., Quast Consulting and Testing, Inc., Mosinee, WI
 1. ANSI/AMCA Standard 550-22
- iv.

Limits and Conditions Use:

1. Limits/Conditions are as per in above approval and listing documents.
2. Products have a Maximum Design Pressure of +/- 150 PSF, Allowable Stress Design (ASD).
3. Products have a Maximum Panel Size of 48" wide x 48" high.
4. Products are rated to be used inside and outside of the HVHZ.
5. Products are impact resistant for both Basic Impact Missile Level D (50 fps) and Enhanced Impact Missile Level E (80 fps).
6. Products have 6063-T5 blade material. Frames of channel frame setups are 6063-T5 material, and frames of sleeve frame setups are 6005-T5 and 5052-H32 materials.
7. Products without attached VCD-40 Damper:
 - a. Per Miami-Dade D.R.E.R., the product may be installed in a location where the space behind the product is designed to drain water penetrating into the space and the space will house water resistant/proof equipment, components, and/or supplies.
8. Products with attached VCD-40 Damper:
 - a. The VCD-40 Damper blades must be in the fully closed position for the assembly to comply with passing ANSI/AMCA 550.
 - b. Per Miami-Dade D.R.E.R., the product with VCD-40 Damper may be installed in a location where the space behind the product is not designed to drain water penetrating into the space and the space will house non-water resistant/proof equipment, components, and/or supplies.
9. Products may be installed into cracked concrete substrate only if the "sleeve" installation method is used.

Installation:

Products must be installed in accordance with the above NOA approval documents.

Certification of Independence: Design Dynamics, Inc. and Robert V. Nangia, 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. Design Dynamics, Inc. and Robert V. Nangia, 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.

Statement of Equivalency: The requirements of ANSI/AMCA 550-22 (as tested) meet or exceed the requirements of ANSI/AMCA 550-15 (Rev 9-18) for the purpose of evaluating the above referenced product testing for High Velocity Wind Driven Rain per the 8th Edition (2023) Florida Building Code.

Evaluation Report By and PE Stamp:

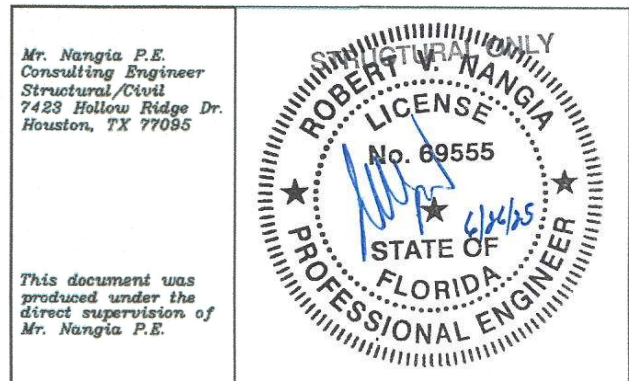
Prepared by:


Jeffrey T. Shingler, M.ASCE, M.CFSEI
President
Design Dynamics, Inc.

Robert Nangia
Digitally signed by Robert Nangia
Date: 2025.06.26 16:42:08 -05'00'

This item has been electronically signed and sealed by Robert V Nangia PE/SE using a Digital Signature and data. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies

Reviewed by:





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
1110 Greenheck Drive (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 "EHH-601DE" Aluminum Louver w/ and w/o VCD-40 Damper

APPROVAL DOCUMENT: Drawing No. **EHH-601DE**, titled "EHH-601DE", sheets 1 through 17 of 17, dated 09/30/15, with revision 01 dated 12/11/24, prepared by manufacturer, signed and sealed by Robert V. 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 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.

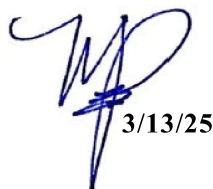
TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this 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 and renews NOA No. 20-0929.06** 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.**




3/13/25

NOA No. 25-0214.03
Expiration Date: December 14, 2030
Approval Date: March 13, 2025
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. 15-1013.12)
2. Drawing No. **EHH-601DE**, titled "EHH-601DE NOA Drawings", sheets 1 through 9 of 9, dated 09/30/15, prepared by the manufacturer, signed and sealed by Chander P. Nangia, P.E.
(Submitted under NOA No. 15-1013.12)

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 EHH-601ED (sleeved) aluminum louvers, prepared by Architectural Testing, Inc., Test Report No. **F0138.01-602-18**, dated 09/08/15, signed and sealed by Justin P. McDonald, P.E.
(Submitted under NOA No. 15-1013.12)
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Model EHH-601ED (non-sleeved) aluminum louvers, prepared by Architectural Testing, Inc., Test Report No. **F0139.01-602-18**, dated 08/27/15, signed and sealed by Justin P. McDonald, P.E.
(Submitted under NOA No. 15-1013.12)

C. CALCULATIONS

1. Structural and anchor calculations, dated 09/30/15, prepared by manufacturer, signed and sealed by Chander P. Nangia, P.E.
(Submitted under NOA No. 15-1013.12)

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 6th Edition (2017)** and **FBC 7th Edition (2020)** and of no financial interest, issued by manufacturer, dated 08/26/20, signed and sealed by Chander P. Nangia, P.E.
(Submitted under NOA No. 20-0929.06)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 25-0214.03
Expiration Date: December 14, 2030
Approval Date: March 13, 2025

Greenheck Fan Corporation

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

G. OTHERS

1. Notice of Acceptance No. **19-0516.07**, issued to Greenheck Fan Corporation for their Model EHH-601DE Aluminum Louver, approved on 06/27/19 and expiring on 12/24/20.

2. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **EHH-601DE**, titled "EHH-601DE", sheets 1 through 17 of 17, with revision 01 dated 12/11/24, prepared by manufacturer, signed and sealed by Robert V. Nangia, P.E.

B. TESTS

1. Test Report on High Velocity Wind Driven Rain Resistance per AMCA 550-22 of a Model EHH-601DE (Channel Frame) Aluminum Louver with VCD-40 Damper, prepared by Quast Consulting and Testing, Inc., Test Report No. **QCT23-7159.01**, dated 12/19/23, signed and sealed by Brian M. Sasman, P.E.
2. Test Report on High Velocity Wind Driven Rain Resistance per AMCA 550-22 of a Model EHH-601DE (Sleeve Frame) Aluminum Louver with VCD-40 Damper, prepared by Quast Consulting and Testing, Inc., Test Report No. **QCT23-7159.02**, dated 12/19/23, signed and sealed by Brian M. Sasman, P.E.

C. CALCULATIONS

1. Structural and anchor calculations, dated 01/13/25, prepared, signed and sealed by Robert V. Nangia, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

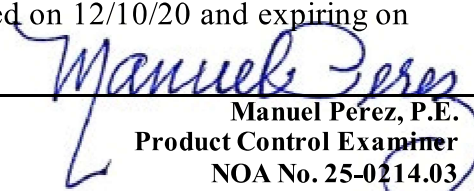
1. None.

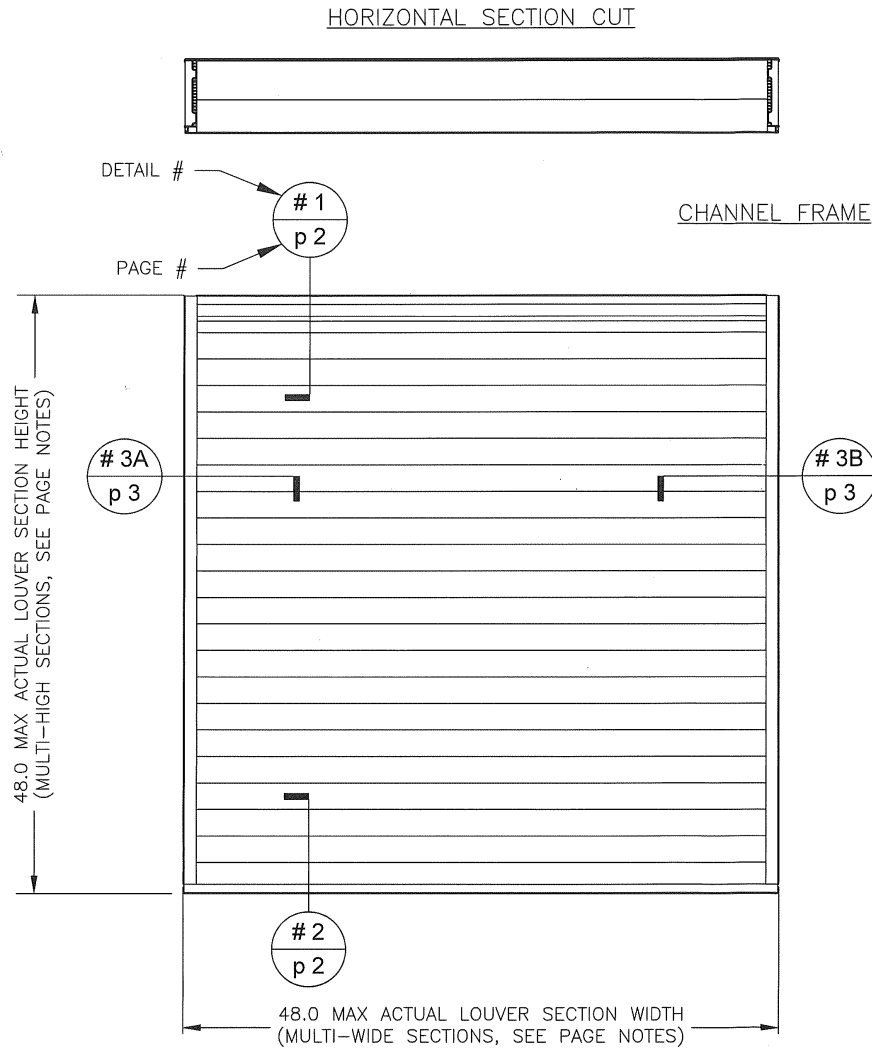
F. STATEMENTS

1. Statement letter of code conformance to the **FBC 6th Edition (2017)**, to the **FBC 7th Edition (2020)**, to the **FBC 8th Edition (2023)** and no financial interest, dated 01/28/25, issued by manufacturer, signed and sealed by Robert V. Nangia, P.E.

G. OTHERS

1. Notice of Acceptance No. **20-0929.06**, issued to Greenheck Fan Corporation for their Model EHH-601DE Aluminum Louver, approved on 12/10/20 and expiring on 12/24/25.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 25-0214.03
Expiration Date: December 14, 2030
Approval Date: March 13, 2025

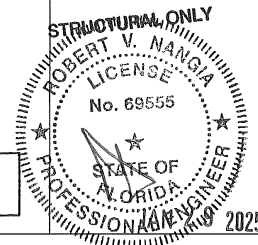


MODEL NAME EQUIVALENTS			DATE	STEEL	SCALE	SHEET NO.	1 OF 17	DO NOT DRAWING NO.
BRAND	GREENHECK	AIRDLITE	9/30/15		1:5			
MODEL	EHH-601DE	SCH601MDE						
DESIGN PRESSURE	+/- 150 PSF							



EHH-601DE
CHANNEL FRAME ELEVATION

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **25-0214.03**
Expiration Date: **12/14/2030**
By: *Manuel Fern*
Miami-Dade Product Control



Robert V. Nangia P.E.
7423 Hollow Ridge Drive
Houston, Texas 77095

PAGE NOTES:
• MULTI-WIDE AND/OR MULTI-HIGH ASSEMBLIES ARE PERMITTED AS-LONG-AS EACH LOUVER SECTION'S WIDTH/HEIGHT ARE WITHIN THE ALLOWABLE MAXIMUMS AND SUITABLE SUBSTRATE SURROUNDS EACH LOUVER SECTION'S PERIMETER AND EACH LOUVER SECTION IS INSTALLED PER DETAILS HEREIN.

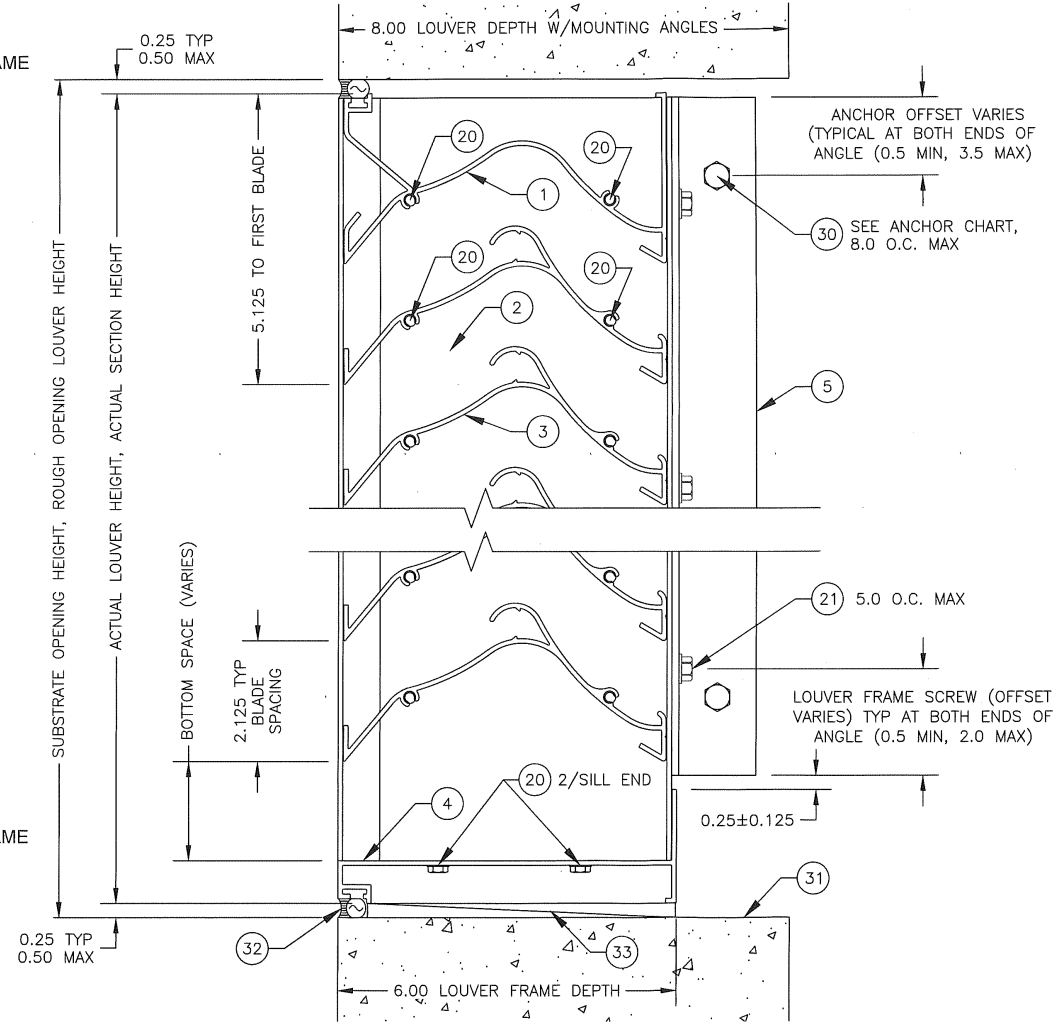
DETAIL #
PAGE #

1 2
DET. PAGE

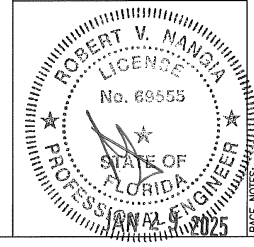
HEAD,
CHANNEL FRAME

2 2
DET. PAGE

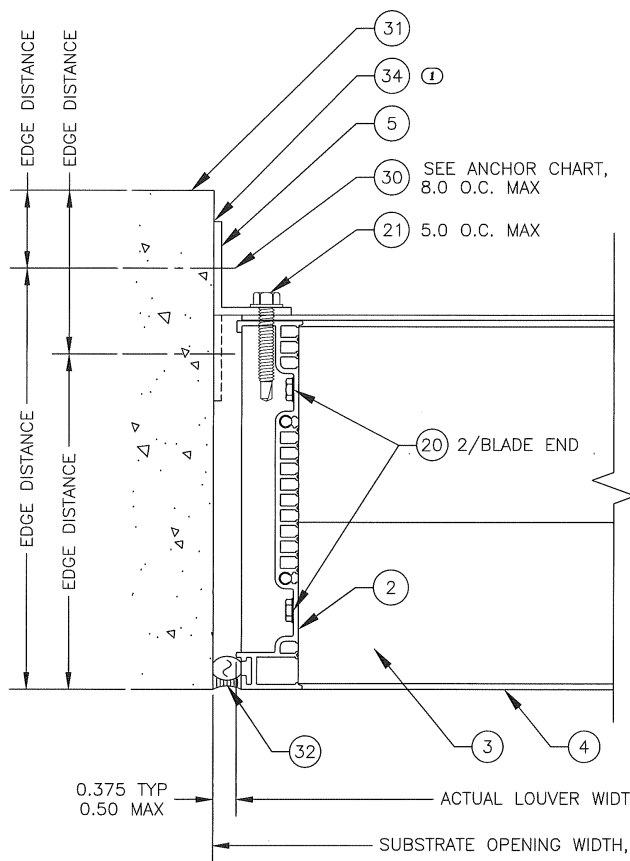
SILL,
CHANNEL FRAME



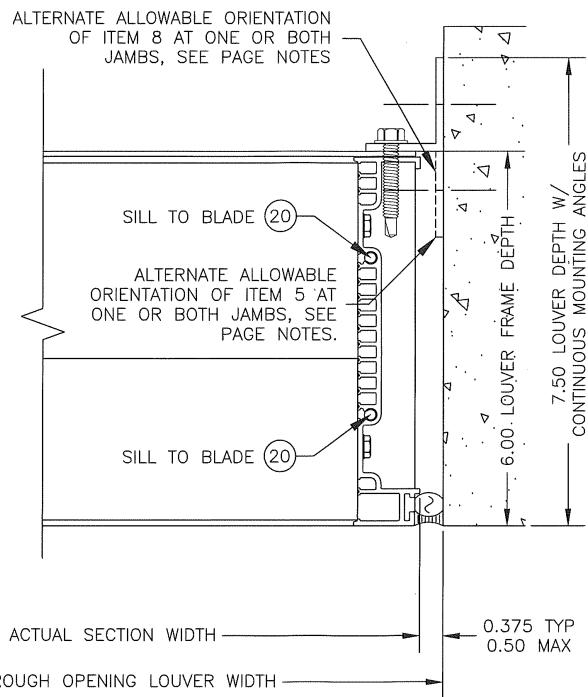
PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **25-0214.03**
Expiration Date: **12/14/2030**
By: *Manuel Fern*
Miami-Dade Product Control



DATE	9/30/15
DRAWN BY	STEEL
SCALE	1:1
SHEET NO.	2 OF 17
CDR DRAWING NO.	EHH-601DE
TITLE: CHANNEL FRAME DETAILS	
STANDARD LOUVER HEIGHT DOWN SIZING IS 0.25 PER END (0.50 OVERALL TOTAL) WHEN ORDERED BASED ON ROUGH OPENING SIZING.	



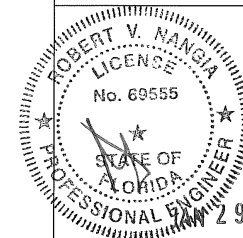
3A 3 JAMB, CHANNEL FRAME
DET. PAGE



3B 3 JAMB, OPPOSITE, CHANNEL FRAME
DET. PAGE

REV 01: 12/11/24, ADDED ITEM 34 CALLOUT.

PRODUCT REVISED
As complying with the Florida
Building Code
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Expiration Date: **12/14/2030**
By: *Manuel Fern*
Miami-Dade Product Control

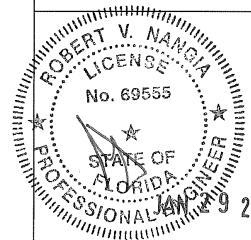
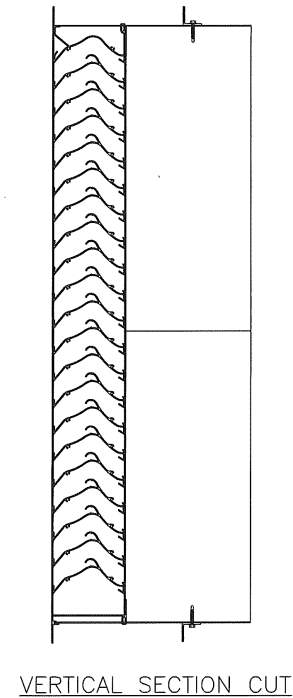
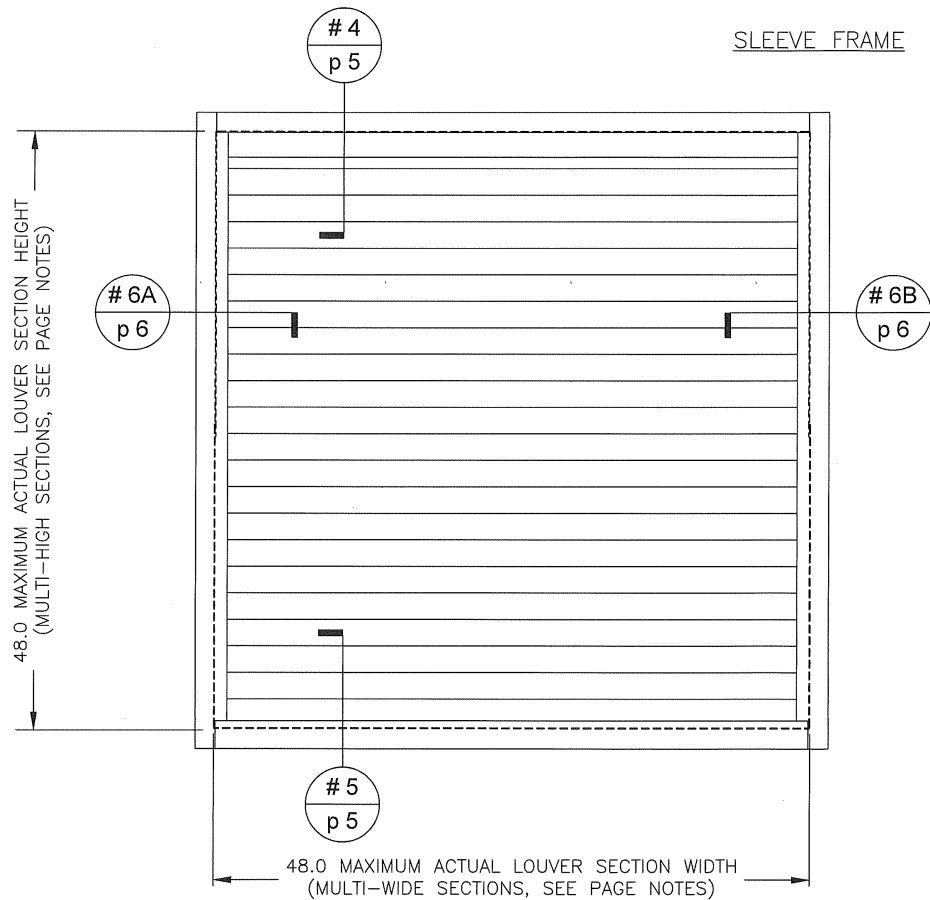


NOTES:
• TO ALLOW FOR SUBSTRATE ANCHOR HEAD CLEARANCE, STANDARD LOUVER WIDTH DOWNSIZING IS 0.375 PER END (0.75 OVERALL TOTAL) WHEN ORDERED BASED ON ROUGH OPENING SIZING. THERE IS NO NEED FOR ADDITIONAL DOWNSIZING AT THE JAMBS WHEN USING THE ALTERNATE ANCHOR ORIENTATION.

DATE 9/30/15
STEEL
SCALE 1:1
SHEET NO. 3 OF 17
JOB DRAWING NO. EHH-601DE

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

TITLE:
EHH-601DE
CHANNEL FRAME DETAILS



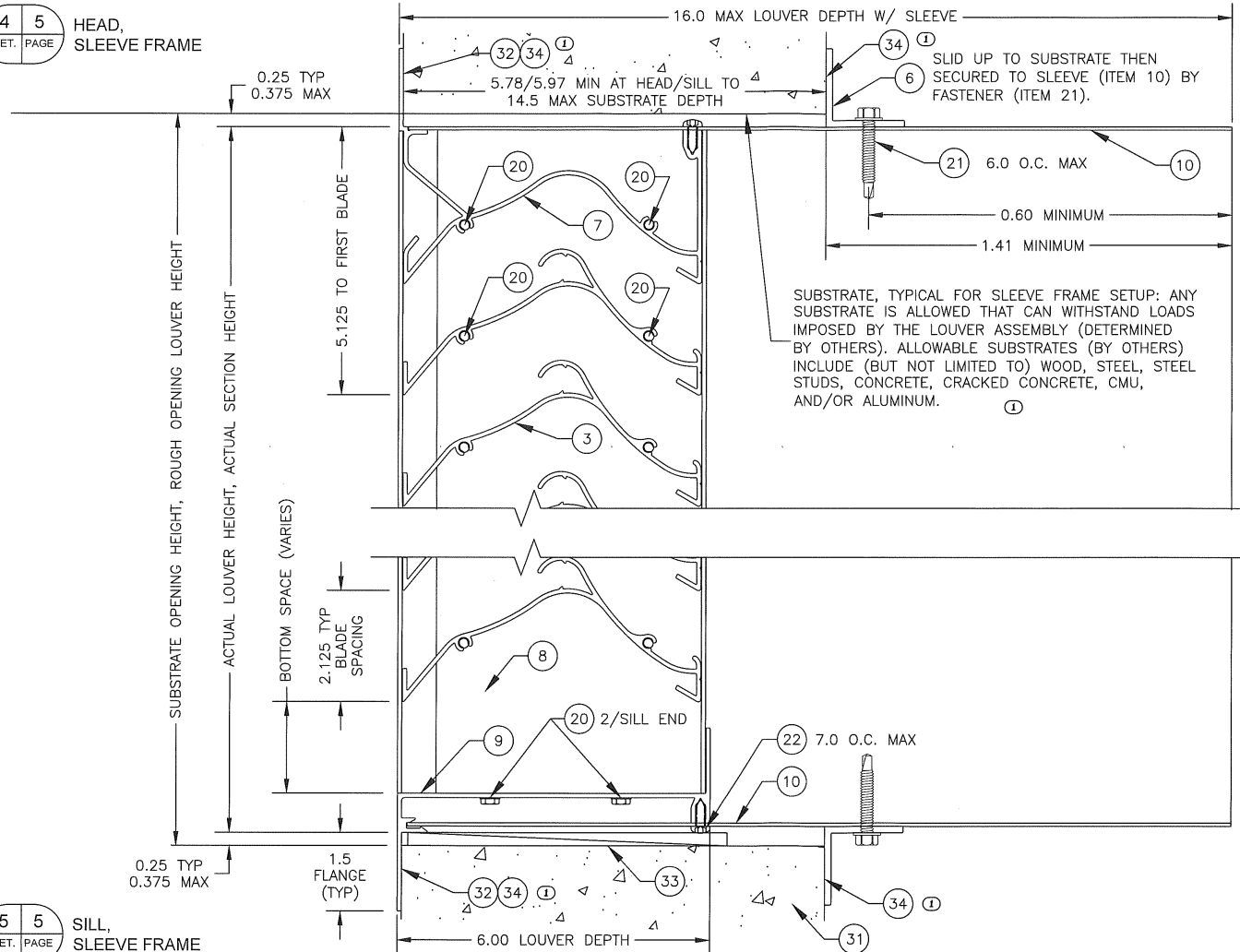
PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **25-0214.03**
Expiration Date: **12/14/2030**
By: *Manuel Fern*
Miami-Dade Product Control

PAGE NOTES:
• MULTI-WIDE AND/OR MULTI-HIGH ASSEMBLIES ARE PERMITTED AS-LONG-AS EACH LOUVER SECTION'S WIDTH/HEIGHT ARE WITHIN THE ALLOWABLE MAXIMUMS AND SUITABLE SUBSTRATE SURROUNDS EACH LOUVER SECTION'S PERIMETER AND EACH LOUVER SECTION IS INSTALLED PER DETAILS HEREIN.

DESIGN BY	DATE
STEEL	9/30/15
SCALE	1:5
SHEET NO.	4 OF 17
DATE DRAWING NO.	EHH-601DE
TITLE:	
SLEEVE FRAME ELEVATION	

4 5
DET. PAGE

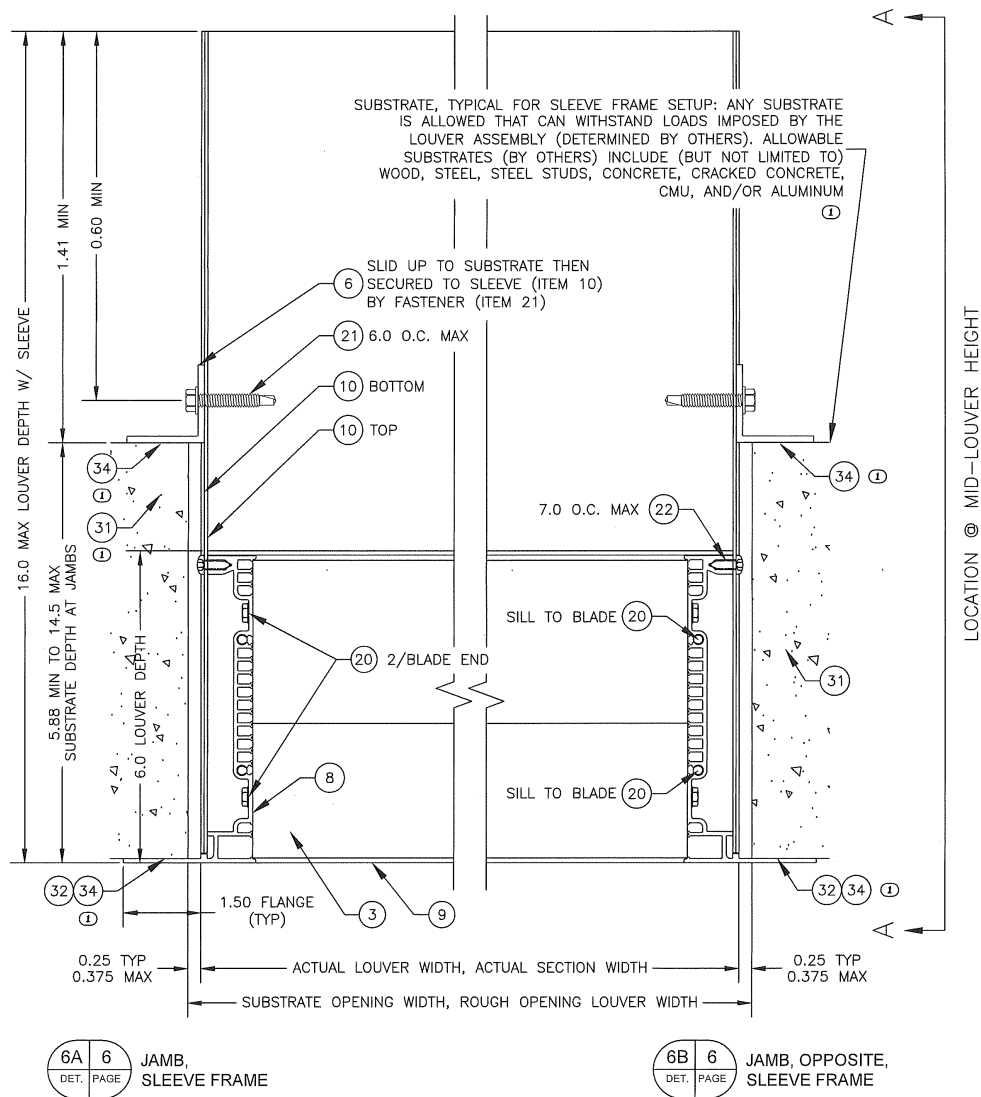
HEAD,
SLEEVE FRAME



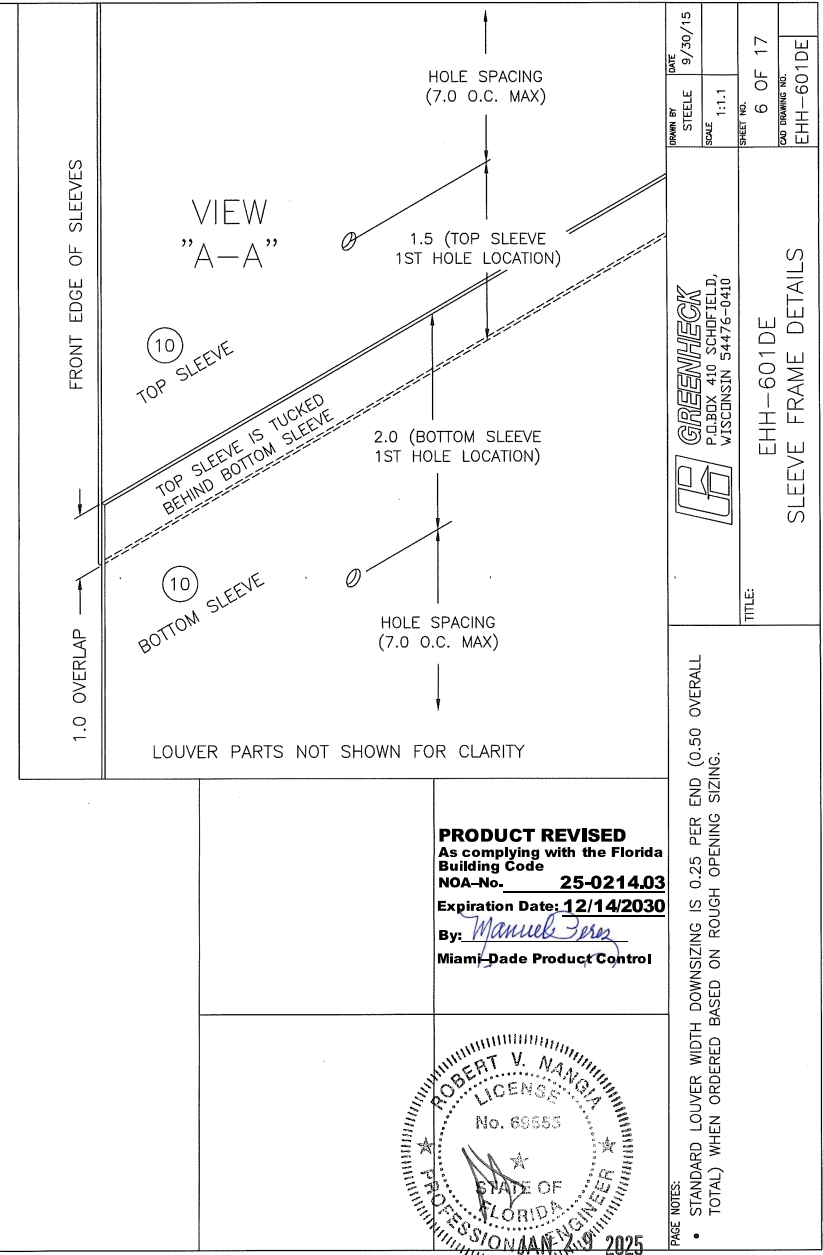
5 5
DET. PAGE

SILL,
SLEEVE FRAME

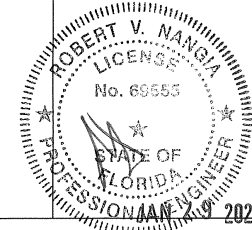
DATE 9/30/15	SCALE 1:1	SHEET NO. 5 OF 17	DO NOT SCALE THIS EHH-601DE
GREENHECK P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410			
TITLE: EHH-601DE SLEEVE FRAME DETAILS			
PRODUCT REVISED As complying with the Florida Building Code NOA-No. 25-0214.03 Expiration Date: 12/14/2030 By: <i>Manuel Fern</i> Miami-Dade Product Control			
ROBERT V. MANGIA LICENSE No. 69555 STATE OF FLORIDA PROFESSIONAL ENGINEER			



REV 01: 12/11/24, ADDED ITEM 31 CALLOUT, & ITEM 34 CALLOUT (X4).

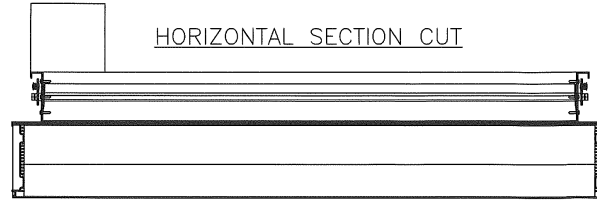


PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **25-0214.03**
Expiration Date: **12/14/2030**
By: Manuel Perez
Miami-Dade Product Control

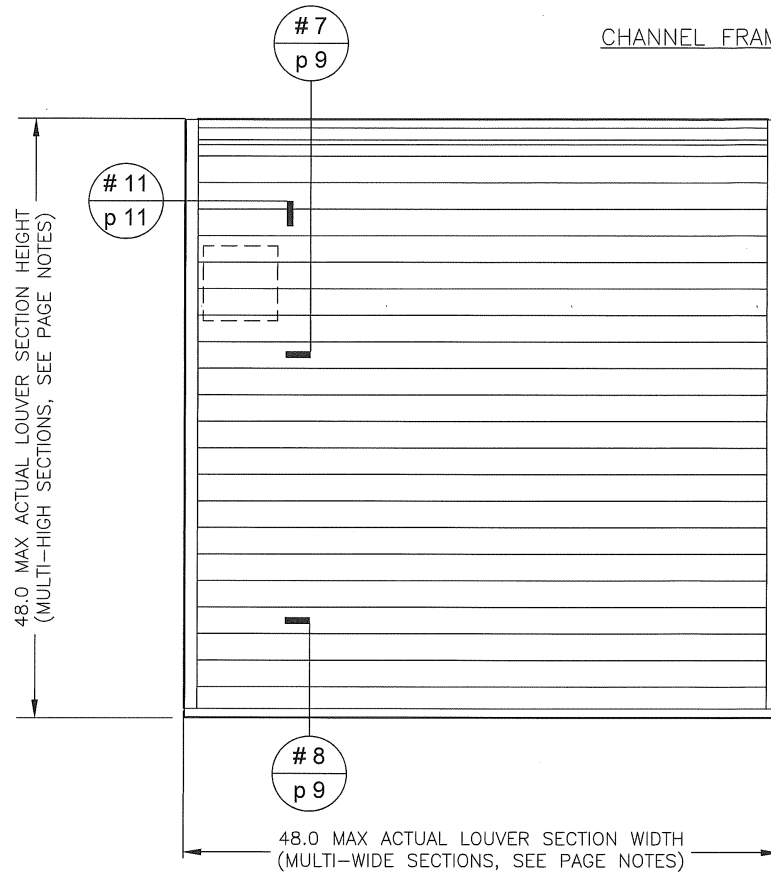


PAGE NOTES:

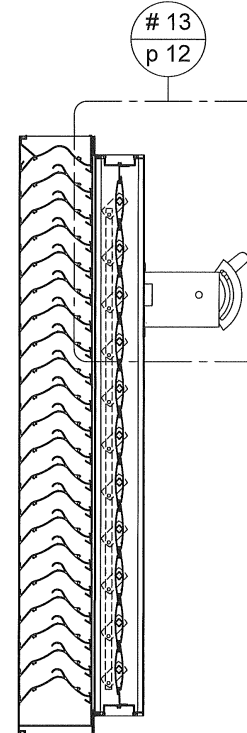
- STANDARD LOUVER WIDTH DOWNSIZING IS 0.25 PER END (0.50 OVERALL TOTAL) WHEN ORDERED BASED ON ROUGH OPENING SIZING.



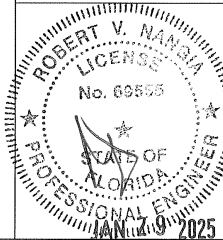
HORIZONTAL SECTION CUT



CHANNEL FRAME W/ DAMPER



VERTICAL SECTION CUT



PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **25-0214.03**
Expiration Date: **12/14/2030**
By: *Manuel Fern*
Miami-Dade Product Control

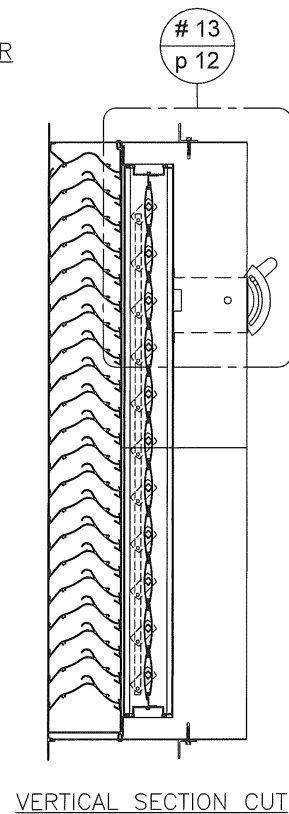
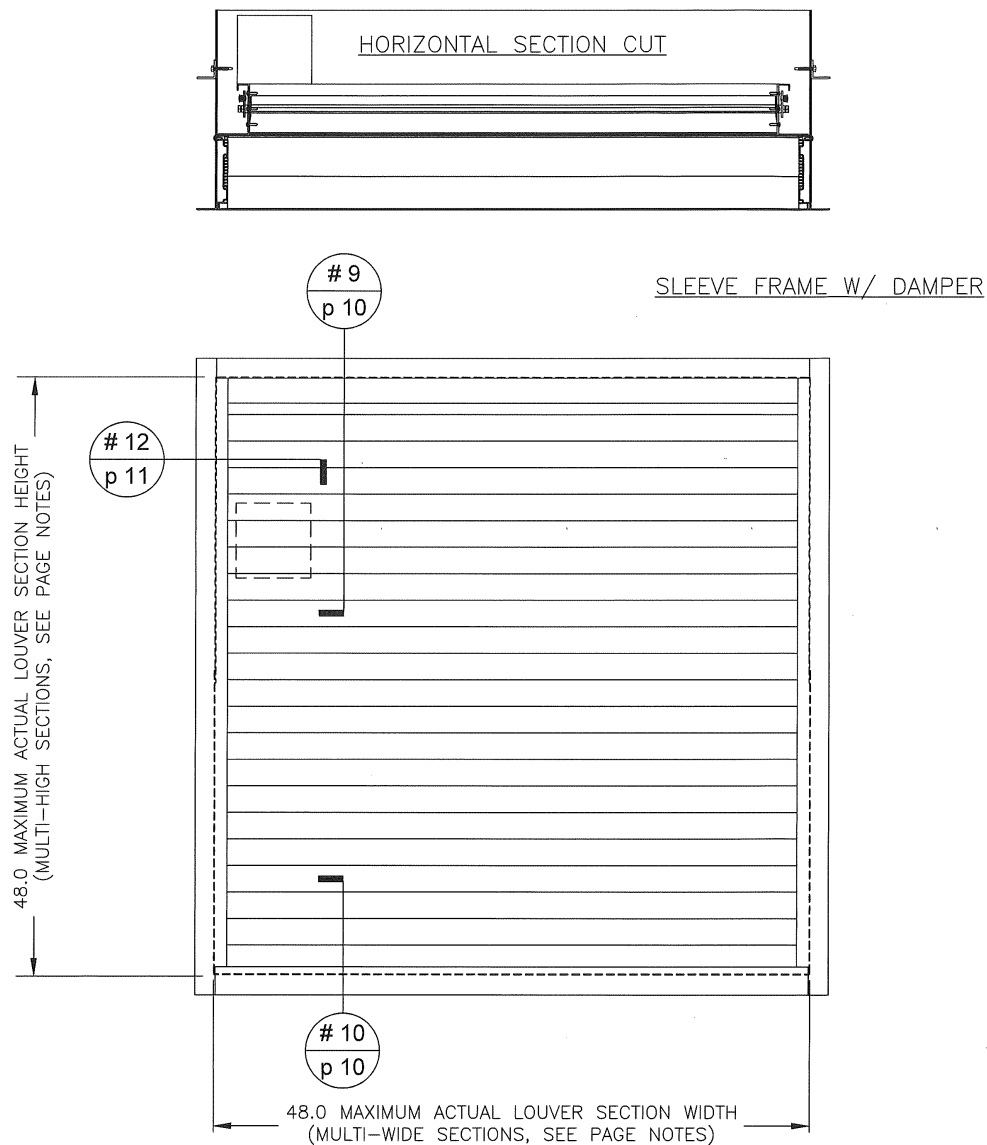
PAGE NOTES:

- MULTI-WIDE AND/OR MULTI-HIGH ASSEMBLIES ARE PERMITTED AS LONG-AS EACH LOUVER SECTION'S WIDTH/HEIGHT ARE WITHIN THE ALLOWABLE MAXIMUMS AND SUITABLE SUBSTRATE SURROUNDS EACH LOUVER SECTION'S PERIMETER AND EACH LOUVER SECTION IS INSTALLED PER DETAILS HEREIN.



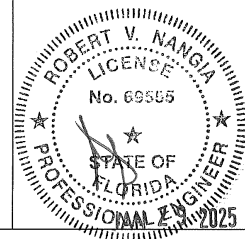
TITLE:
EHH-601DE W/ VCD-40 DAMPER
CHANNEL FRAME ELEVATION

DESIGNED BY	DATE
STEEL	9/30/15
SCALE	1:5
SHEET NO.	7 OF 17
CDP DRAWING NO.	EHH-601DE



REV 01: 12/11/24, ADDED THIS NEW PAGE TO SHOW DAMPER ON SLEEVE FRAME.

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **25-0214.03**
Expiration Date: **12/14/2030**
By: *Manuel Fern*
Miami-Dade Product Control



PAGE NOTES:
• MULTI-WIDE AND/OR MULTI-HIGH ASSEMBLIES ARE PERMITTED AS-LONG-AS EACH LOUVER SECTION'S WIDTH/HEIGHT ARE WITHIN THE ALLOWABLE MAXIMUMS AND SUITABLE SUBSTRATE SURROUNDS EACH LOUVER SECTION'S PERIMETER AND EACH LOUVER SECTION IS INSTALLED PER DETAILS HEREIN.



TITLE:
EHH-601DE W/ VCD-40 DAMPER
SLEEVE FRAME ELEVATION

DRAWN BY: STEELE
SCALE: 1:5
DATE: 9/30/15
SHEET NO.: 8 OF 17
JOB DRAWING NO.: EHH-601DE

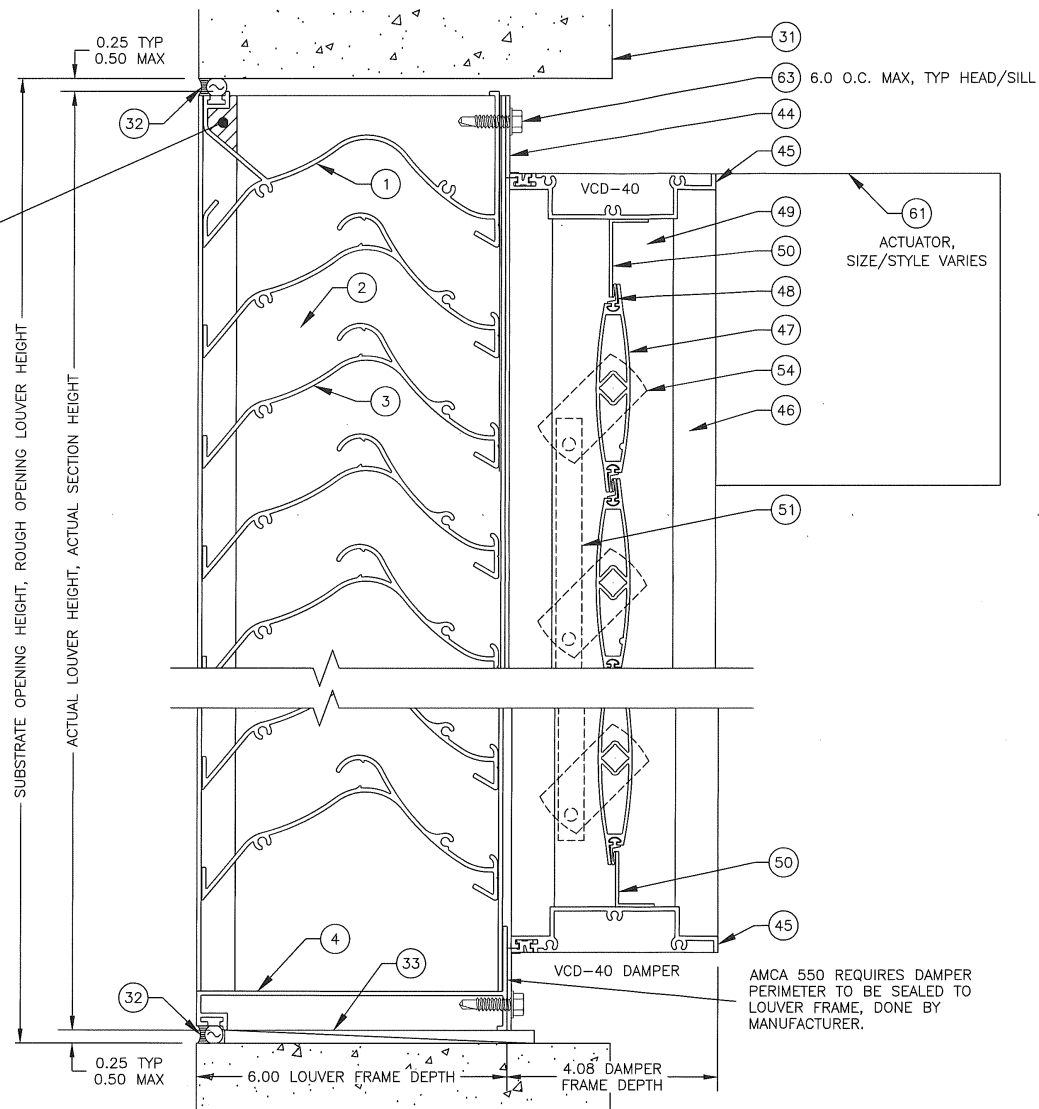
7 9
DET. PAGE

DAMPER HEAD, CHANNEL FRAME

AMCA 550 REQUIRES
JAMB DRAIN ABOVE
HEAD TO BE SEALED
CLOSED, DONE BY
MANUFACTURER.

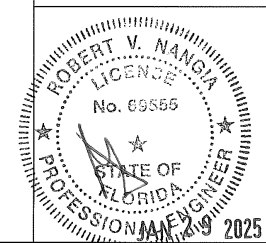
8 9
DET. PAGE

DAMPER SILL, CHANNEL FRAME



REV 01: 12/11/24, ADDED THIS NEW PAGE TO SHOW DAMPER ON CHANNEL FRAME.

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **25-0214.03**
Expiration Date: **12/14/2030**
By: *Manuel Fern*
Miami-Dade Product Control



PAGE NOTES:

- STANDARD LOUVER HEIGHT DOWNSIZING IS 0.25 PER END (0.50 OVERALL TOTAL) WHEN ORDERED BASED ON ROUGH OPENING SIZING.

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

TITLE: EHH-601DE W/ VCD-40 DAMPER
CHANNEL FRAME DETAILS

DATE: 9/30/15
DRAWN BY: STEEL
SCALE: 1:1
SHEET NO.: 9 OF 17
CUT DRAWING NO.: EHH-601DE

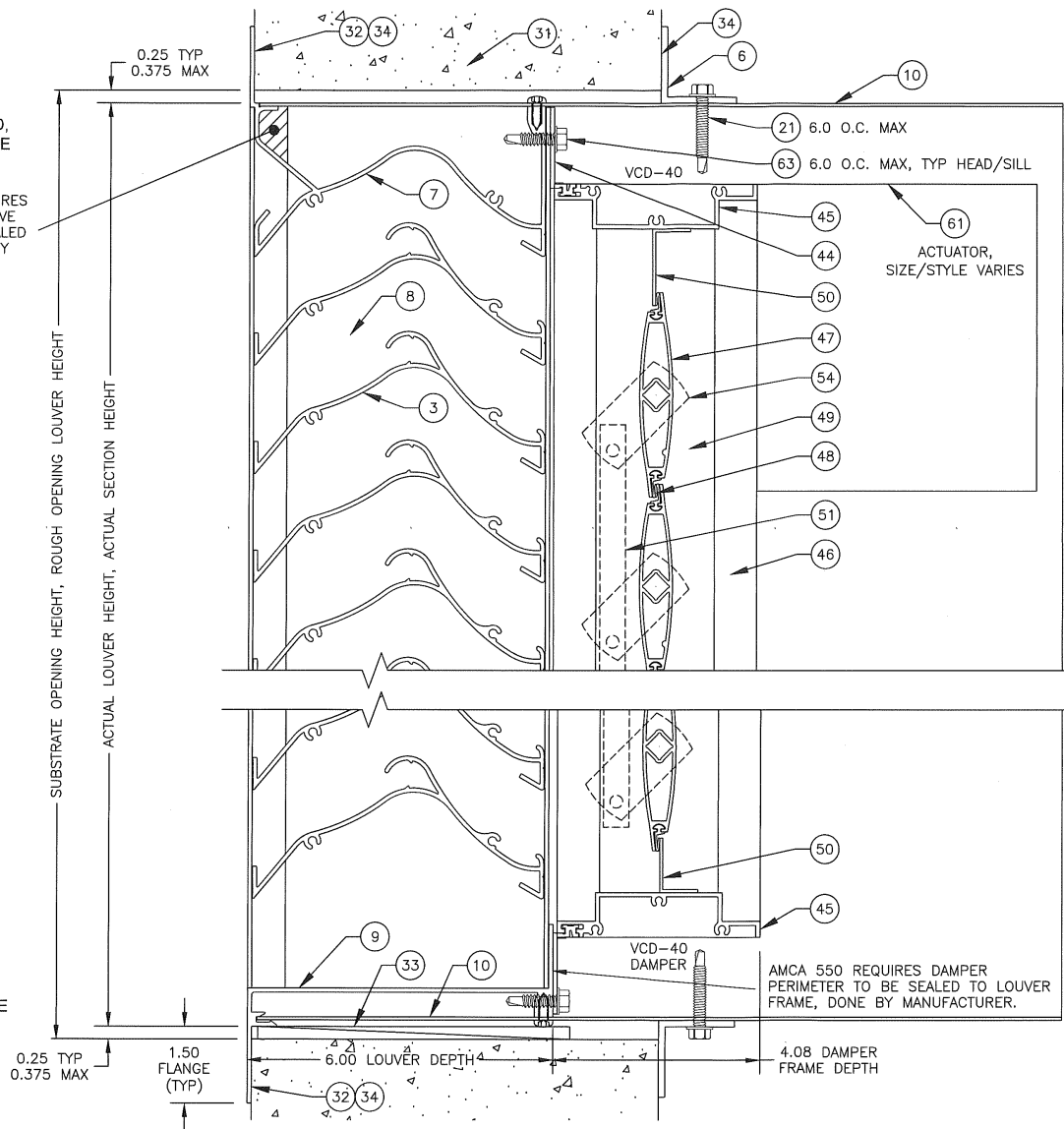
9 10
DET. PAGE

DAMPER HEAD,
SLEEVE FRAME

AMCA 550 REQUIRES
JAMB DRAIN ABOVE
HEAD TO BE SEALED
CLOSED, DONE BY
MANUFACTURER.

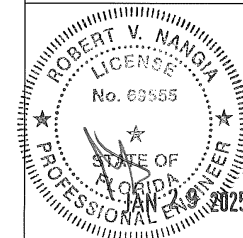
10 10
DET. PAGE

DAMPER SILL,
SLEEVE FRAME



REV 01: 12/11/24, ADDED THIS NEW PAGE TO SHOW DAMPER ON SLEEVE FRAME.

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **25-0214.03**
Expiration Date: **12/14/2030**
By: *Manuel Fern*
Miami-Dade Product Control



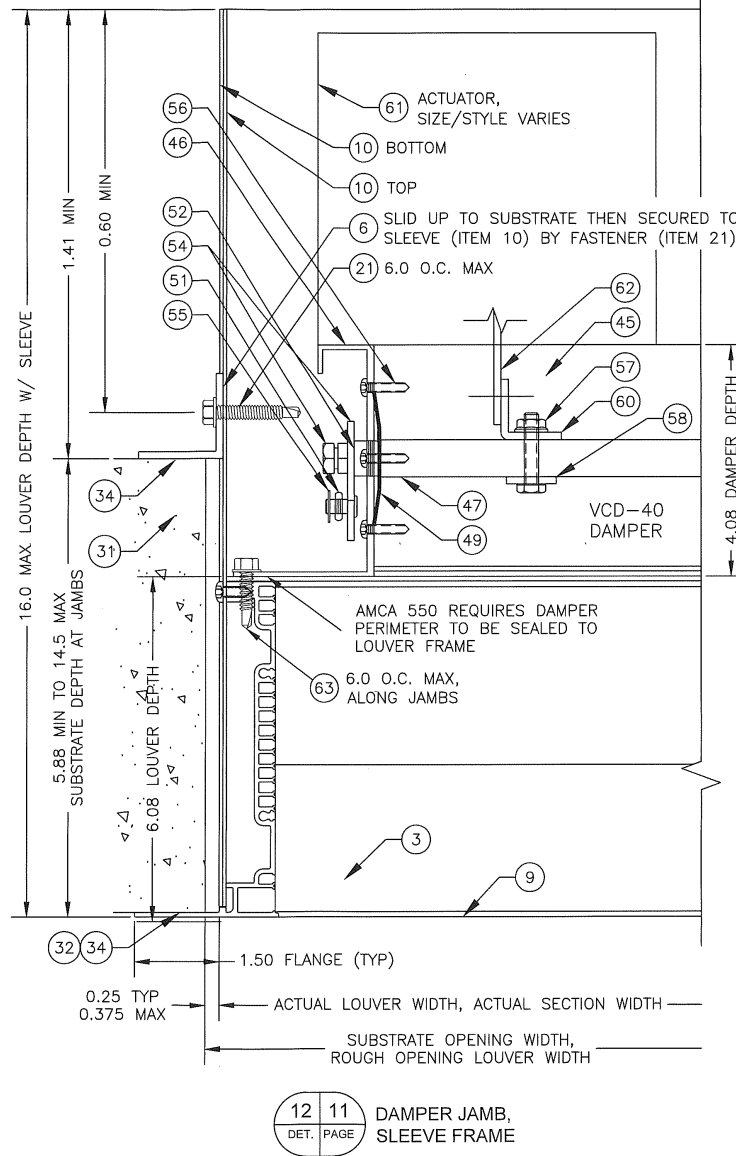
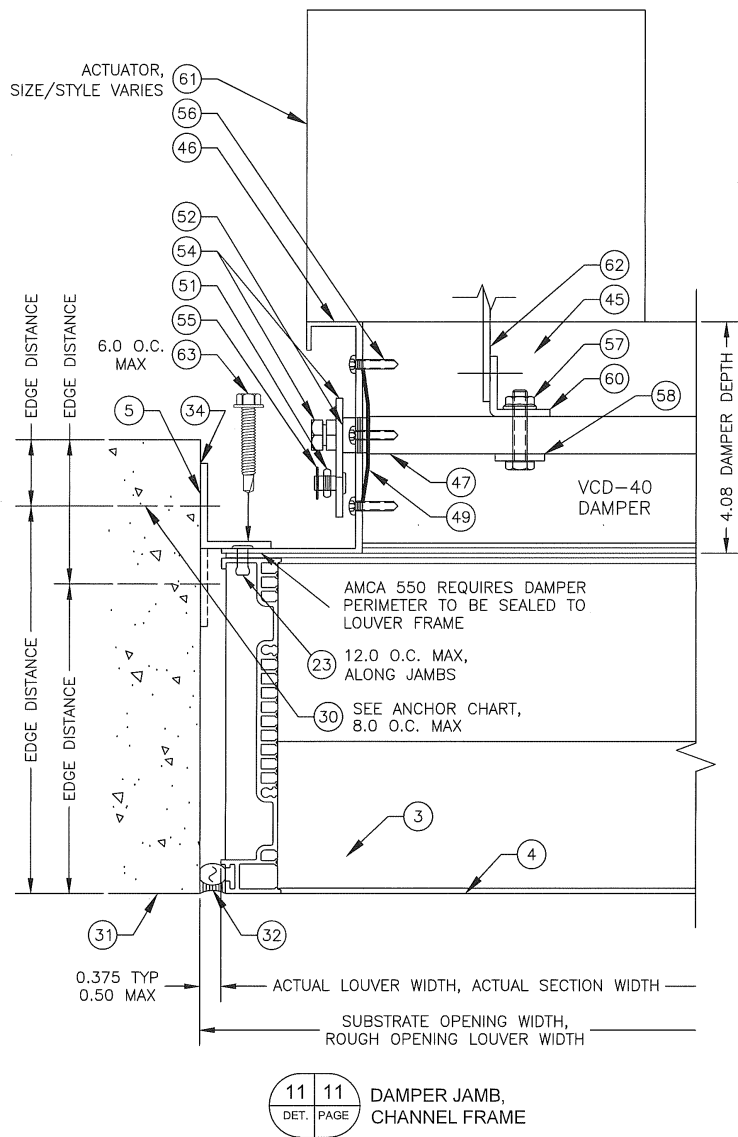
PAGE NOTES:

STANDARD LOUVER HEIGHT DOWNSIZING IS 0.25 PER END (0.50 OVERALL TOTAL) WHEN ORDERED BASED ON ROUGH OPENING SIZING.

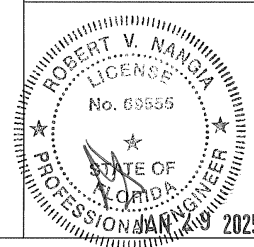
GREENHECK
P.O. BOX 410 SCHOFIELD,
WISCONSIN 54476-0410

TITLE:
EHH-601DE W/ VCD-40 DAMPER
SLEEVE FRAME DETAILS

DATE: 9/30/15
DRAWN BY: STEELE
SCALE: 1:1
SHEET NO.: 10 OF 17
COP. DRAWING NO.: EHH-601DE



PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **25-0214.03**
Expiration Date: **12/14/2030**
By: *Manuel Fern*
Miami-Dade Product Control

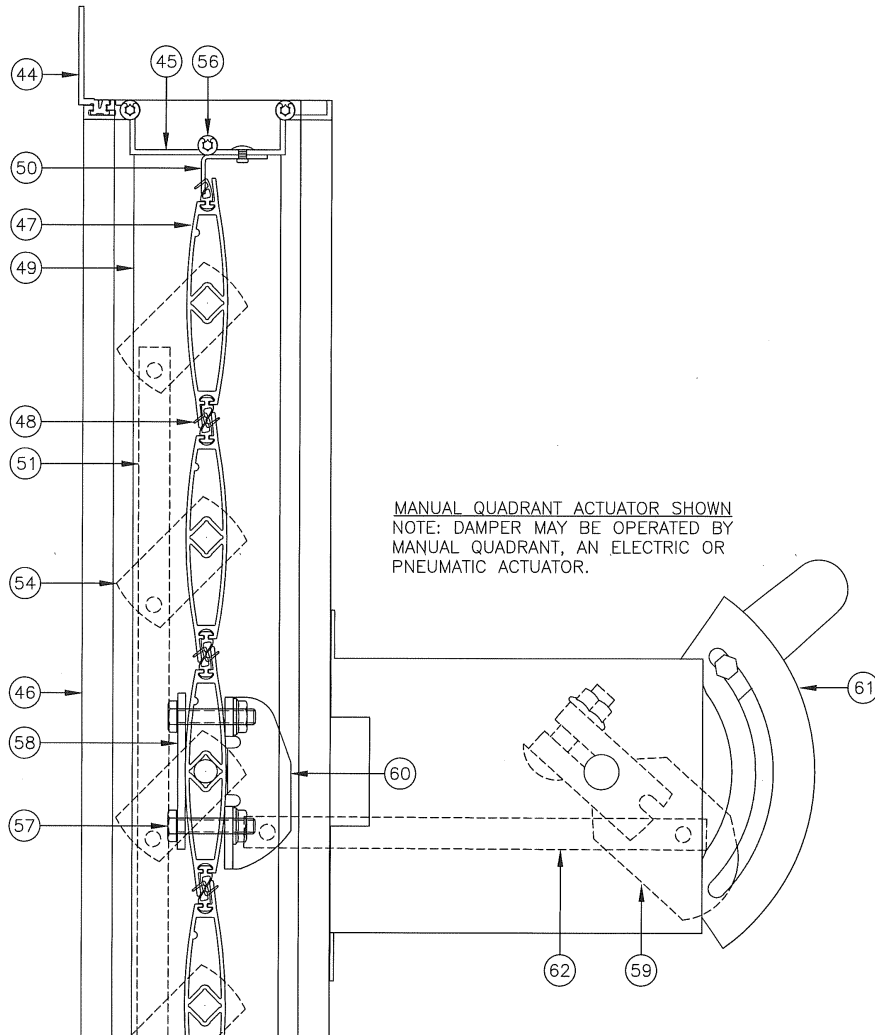


NOTES:

- CHANNEL FRAME: TO ALLOW FOR SUBSTRATE ANCHOR HEAD CLEARANCE, STANDARD LOUVER WIDTH DOWNSIZING IS 0.375 PER END (0.75 OVERALL TOTAL) WHEN ORDERED BASED ON ROUGH OPENING SIZING. THERE IS NO NEED FOR ADDITIONAL DOWNSIZING AT THE JAMBS WHEN USING THE ALTERNATE ANCHOR ORIENTATION.
- SLEEVE FRAME: STANDARD LOUVER WIDTH DOWNSIZING IS 0.25 PER END (0.50 OVERALL TOTAL) WHEN ORDERED BASED ON ROUGH OPENING SIZING.

DATE 9/30/15
DRAWN BY STEELE
SCALE 1:1
SHEET NO. 11 OF 17
JOB DRAWING NO. EHH-601DE

TITLE: EHH-601DE W/ VCD-40 DAMPER CHANNEL & SLEEVE FRAME DETAILS

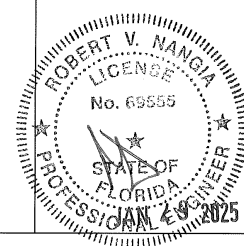


13	12
DET.	PAGE

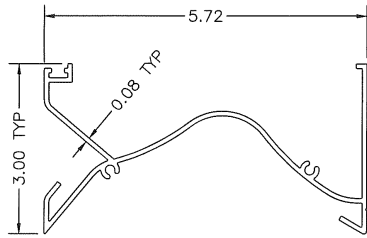
VCD-40 DAMPER & ACTUATOR,
CHANNEL & SLEEVE FRAME

REV 01: 12/11/24, ADDED THIS NEW PAGE TO SHOW DAMPER.

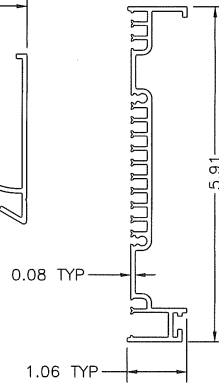
PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **25-0214.03**
Expiration Date: **12/14/2030**
By: *Manuel Fern*
Miami-Dade Product Control



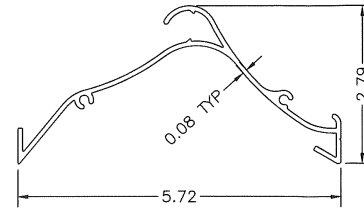
PAGE NOTES:		GREENHECK P.O. BOX 410 SCHOFIELD, WISCONSIN 54476-0410			
		DRAWN BY	STEEL	DATE	9/30/15
		SCALE	1:1.1		
		SHEET NO.			12 OF 17
TITLE:		VCD-40 DAMPER			
		CHANNEL & SLEEVE FRAME DETAIL			
		CADD DRAWING NO.		EHH-601DE	



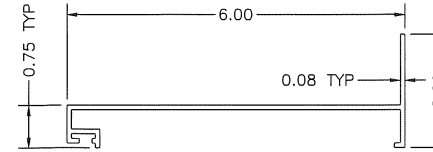
① HEAD (CHANNEL FRAME)
6063-T5 ALUMINUM



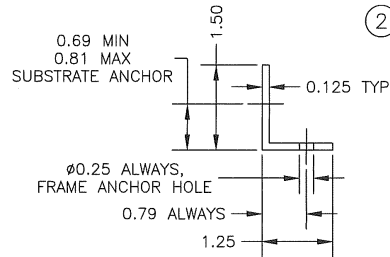
② JAMB (CHANNEL FRAME)
6063-T5 ALUMINUM



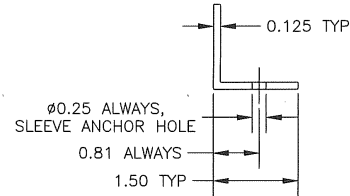
③ BLADE (CHANNEL & SLEEVE FRAMES)
6063-T5 ALUMINUM



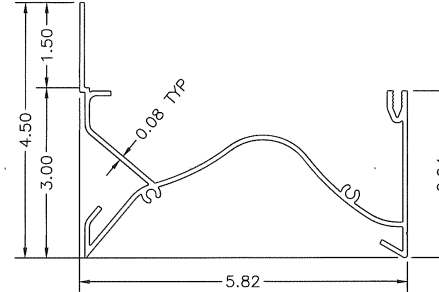
④ SILL (CHANNEL FRAME)
6063-T5 ALUMINUM



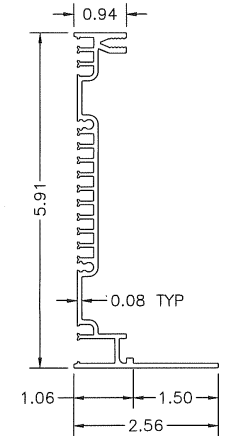
⑤ MOUNTING ANGLE (CHANNEL FRAME)
6061-T6 ALUMINUM



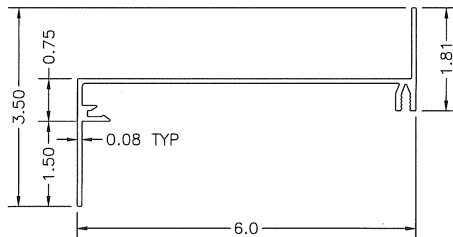
⑥ MOUNTING ANGLE (SLEEVE FRAME)
6063-T5 ALUMINUM



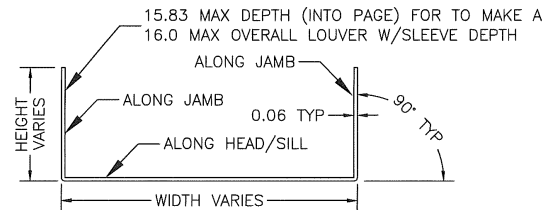
⑦ HEAD (SLEEVE FRAME)
6005-T5 ALUMINUM



⑧ JAMB (SLEEVE FRAME)
6005-T5 ALUMINUM

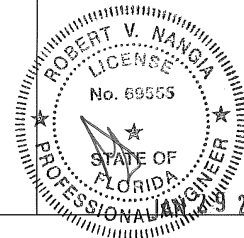


⑨ SILL (SLEEVE FRAME)
6005-T5 ALUMINUM



⑩ FORMED SLEEVE (SLEEVE FRAME)
5052-H32 ALUMINUM

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **25-0214.03**
Expiration Date: **12/14/2030**
By: *Manuel Fern*
Miami-Dade Product Control

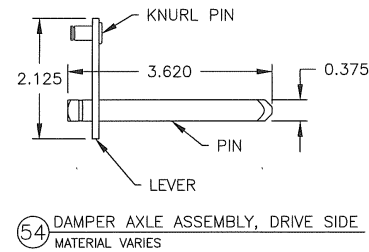
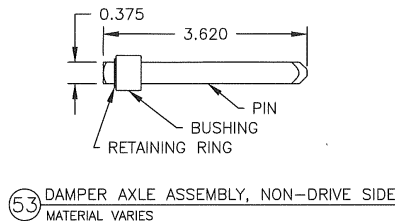
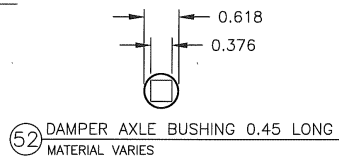
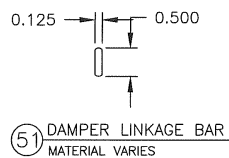
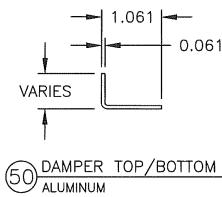
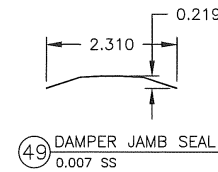
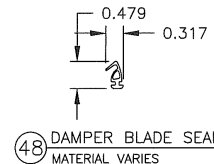
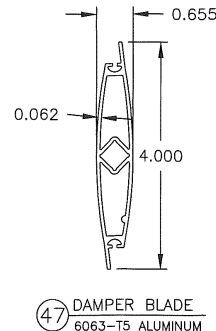
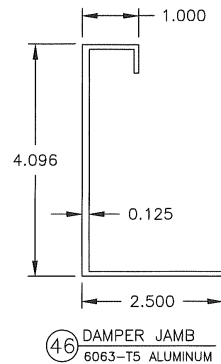
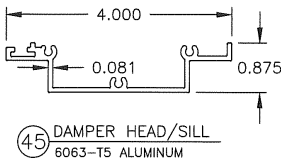
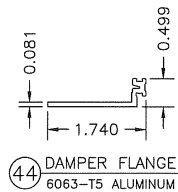


ALL SHEET METAL PARTS ARE SHOWN AT ACTUAL THICKNESS

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

TITLE:
EHH-601DE
PART DETAILS

DATE
9/30/15
DRAWN BY
STEEL
SCALE
1:1
SHEET NO.
13 OF 17
JOB DRAWING NO.
EHH-601DE



REV 01: 12/11/24, ADDED THIS NEW PAGE TO SHOW DAMPER PARTS.

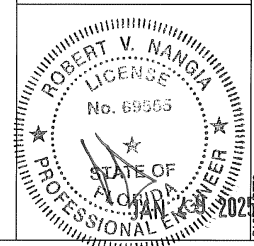
DATE	9/30/15
DRAWN BY	STEEL
SCALE	1:1
SHEET NO.	14 OF 17
DATE	9/30/15
DESIGNED BY	EHH-601DE

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

VCD-40 DAMPER
PART DETAILS

TITLE:

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **25-0214.03**
Expiration Date: **12/14/2030**
By: *Manuel Fern*
Miami-Dade Product Control



PAGE NOTES:

ITEM	DESCRIPTION	MATERIAL	INTERNAL ID#	NOTES
1	HEAD, CHANNEL FRAME	6063-T5 ALUM.	125320	---
2	JAMB, CHANNEL FRAME	6063-T5 ALUM.	125321	---
3	BLADE, CHANNEL & SLEEVE FRAME	6063-T5 ALUM.	125309	---
4	SILL, CHANNEL FRAME	6063-T5 ALUM.	125044	---
5	MOUNTING ANGLE, CHANNEL FRAME	6061-T6 ALUM.	125811	AT JAMBS ONLY
6	MOUNTING ANGLE, SLEEVE FRAME	6063-T5 ALUM.	125151	AROUND PERIMETER
7	HEAD, SLEEVE FRAME	6005-T5 ALUM.	126101	---
8	JAMB, SLEEVE FRAME	6005-T5 ALUM.	126103	---
9	SILL, SLEEVE FRAME	6005-T5 ALUM.	126102	---
10	FORMED SLEEVE, SLEEVE FRAME	5052-H32 ALUM.	100172	---
---	---	---	---	---
20	#10-16x2.25L SCREW	300 SERIES STAINLESS STEEL	416351	---
21	1/4-14 DEWALT/ELCO BI-FLEX, PROVIDED BY LOUVER MANUFACTURER ①	300 SS HEAD & SHANK W/ COATED STEEL TIP ①	---	CHANNEL FRAME: 5.0 O.C. MAX SLEEVE FRAME: 6.0 O.C. MAX ①
22	#10-16x0.5L SCREW	300 SERIES SS	417207	---
23	1/8"Ø RIVET	ALUMINUM	---	---
---	---	---	---	---
30	SUBSTRATE FASTENER - SEE ANCHOR TABLE	SEE ANCHOR TABLE	---	BY OTHERS, MINIMUM OF ONE TYPE REQUIRED, SEE ANCHOR TABLE FOR ADDITIONAL INFORMATION
31	SUBSTRATE - GROUT FILLED CMU	GROUT FILLED CMU	---	BY OTHERS, IT IS THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY AND TO FACILITATE SEPARATION OF DISSIMILAR MATERIALS. SLEEVE FRAME IS NOT LIMITED TO SUBSTRATE TYPES SHOWN. CHANNEL FRAME IS LIMITED TO MINIMUM OF ONE OF THE SUBSTRATE TYPES SHOWN. ①
	SUBSTRATE - CONCRETE	CONCRETE	---	
	SUBSTRATE - STEEL STUD	STEEL	---	
	SUBSTRATE - STRUCTURAL STEEL	STEEL	---	
	SUBSTRATE - WOOD	WOOD	---	
32	SUBSTRATE - ALUMINUM	ALUMINUM	---	
	SEALANT (AND BACKER ROD AS NEEDED)	VARIES	---	BY OTHERS, OPTIONAL, PERIMETER SEALANT REQUIRED FOR AMCA 550 COMPLIANCE ①
33	SHIM, NON-COMPRESSIBLE	VARIES	---	BY OTHERS, OPTIONAL
34	SHIM/SEPARATE DISSIMILAR MATERIALS	VARIES	---	BY OTHERS, AS NEEDED ①
---	DAMPER PARTS SHOWN BELOW			①
44	DAMPER FLANGE	6063-T5 ALUM.	125147	---
45	DAMPER HEAD/SILL	6063-T5 ALUM.	125139	---
46	DAMPER JAMB	6063-T5 ALUM.	125084	---
47	DAMPER BLADE	6063-T5 ALUM.	125181	3.75 MAX SPACING
48	DAMPER BLADE SEAL	VARIES	---	VINYL/SILICONE/RUBBER
49	DAMPER JAMB SEAL	SS	190217	SS = STAINLESS STEEL
50	DAMPER TOP/BOTTOM CLOSURE	ALUMINUM	100166	---
51	DAMPER LINKAGE BAR	SS OR ZP	175685	ZP = ZINC PLATED OR GALV.
52	DAMPER AXLE BUSHING	DELTRIN OR BRONZE	---	---
53A	DAMPER AXLE ASSEMBLY, NON-DRIVE SIDE	ZP STEEL & DELTRIN	---	ZP STEEL PIN W/ DELTRIN BUSHING
53B		ZP STEEL & BRONZE	---	ZP STEEL PIN W/ BRONZE BUSHING
53C		SS & DELTRIN	---	SS PIN W/ DELTRIN BUSHING
53D		SS & BRONZE	---	SS PIN W/ BRONZE BUSHING
54	DAMPER AXLE ASSEMBLY, DRIVE SIDE	SS OR ZP	---	---
55	1/4 DIA. E-CLIP	SS OR ZP	451588	---
56	#8 x 0.75 SCREW	SS	---	DAMPER FRAME CORNER SCREW
57	1/4-20 BOLT & NUT	SS OR ZP	---	BLADE LEVER ATTACHMENT
58	REINFORCING STRAP	SS OR ALUM.	---	OPTIONAL
59	DAMPER ACTUATOR CRANK ARM	SS OR ZP	---	---
60	DAMPER BLADE DRIVE LEVER	SS OR ZP	---	---
61	DAMPER MANUAL QUADRANT ACTUATOR	VARIES	---	OTHER STYLES/TYPES ALLOWED
62	LINKAGE BAR/ROD	SS OR ZP	---	CONNECTS ACTUATOR TO BLADE
63	1/4 SCREW	SS	416708	DAMPER FLANGE MOUNTING SCREW

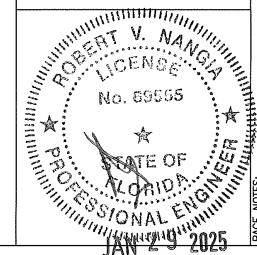
REV 01: 12/11/24, WAS PAGE 8, MOVED GENERAL NOTES TO A NEW PAGE, ADDED ITEMS 23 & 34, REPLACED BRAND NAME OF ITEM 21, UPDATED THREADS OF ITEM 21, CLARIFIED MATERIAL OF ITEM 21, ADDED MAX O.C. OF ITEM 21, UPDATED AND ADDED FRAME TYPE NOTES TO ITEM 31, ADDED TO NOTE OF ITEM 32, ADDED DAMPER PART ITEMS 44-63.

DATE 9/30/15	SCALE 1:1	SHEET NO. 15 OF 17	DOOR DRAWING NO. EHH-601DE
-----------------	--------------	-----------------------	-------------------------------



TITLE: EHH-601DE & VCD-40 DAMPER
ITEM DESCRIPTIONS

PRODUCT REVISED
As complying with the Florida Building Code
NOA-No. **25-0214.03**
Expiration Date: **12/14/2030**
By: *Manuel Fern*
Miami-Dade Product Control



PAGE NOTES:

GENERAL NOTES:

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. THE 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 TEST, 50 FT/S IMPACT SPEED) ①
 - TAS-202 (UNIFORM STATIC WIND PRESSURE TEST)
 - TAS-203 (UNIFORM CYCLIC WIND PRESSURE TEST)
 - AMCA 550 (HIGH VELOCITY WIND DRIVEN RAIN RESISTANCE, WITH OPTIONAL VCD-40 DAMPER AND DAMPER BLADES FULLY CLOSED) ①
3. THIS LOUVER HAS BEEN DESIGNED, TESTED, AND APPROVED TO WITHSTAND DESIGN PRESSURES OF UP TO AND INCLUDING +/-150 PSF ALLOWABLE STRESS DESIGN (ASD). ①
4. THE MAXIMUM SINGLE SECTION SIZE IS 48 INCHES WIDE BY 48 INCHES HIGH. MULTIPLE SECTIONS MAY BE MOUNTED TOGETHER TO CREATE A MULTI-WIDE AND/OR MULTI-HIGH ASSEMBLY PROVIDED THERE IS ADEQUATE SUBSTRATE ON ALL FOUR SIDES OF EACH SINGLE SECTION AND SECURED TO THE SUBSTRATE AS NOTED HEREIN.
5. GENERAL LOUVER CONSTRUCTION: HEAD, SILL, JAMBS, AND BLADES FOR ALL CASES ARE EXTRUDED ALUMINUM. BLADE SPACING IS 2.125 INCHES. BLADES AND HEAD ARE SECURED TO JAMBS WITH TWO SCREWS PER END. SILLS ARE SECURED TO JAMBS WITH TWO SCREWS PER SILL END.
6. INSTALLER TO PROVIDE SEPARATION OF DIS-SIMILAR MATERIALS AS REQUIRED PER THE FLORIDA BUILDING CODE. ①
7. ALL ALUMINUM, STAINLESS STEEL, AND PLATED/COATED STEEL PARTS PROVIDED BY THE LOUVER MANUFACTURER ARE INHERENTLY CORROSION RESISTANT OR HAVE A CORROSION RESISTANT COATING.
8. STEEL, STAINLESS STEEL, AND ALUMINUM PARTS MAY BE MADE OUT OF ALTERNATE ALLOY THAT HAS EQUAL OR GREATER YIELD STRENGTH. PART DIMENSIONS ARE MINIMUMS UNLESS DEFINED OTHERWISE.
9. THE INTERNAL ID NUMBERS SHOWN ARE FOR FACTORY PURPOSES ONLY AND MAY BE UPDATED AT ANY TIME. ANY UPDATES WILL NOT ALTER THE ITEM AS DESCRIBED HEREIN.
10. ALL DIMENSION UNITS ARE IMPERIAL.
11. WITHOUT THE OPTIONAL VCD-40 DAMPER, THE LOUVER IS NOT DESIGNED TO PREVENT WIND DRIVEN RAIN FROM PENETRATING INTO THE SPACE BEHIND THE LOUVER. THE LOUVER SHALL BE INSTALLED IN A LOCATION WHERE THE SPACE BEHIND THE LOUVER IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM OR THE ROOM WILL HOUSE WATER RESISTANT/PROOF EQUIPMENT, COMPONENTS, AND/OR SUPPLIES. ①
12. WITH THE OPTIONAL VCD-40 DAMPER AND THE DAMPER BLADES FULLY CLOSED, THE LOUVER-DAMPER ASSEMBLY IS DESIGNED TO PREVENT WIND-DRIVEN RAIN FROM PENETRATING INTO THE SPACE BEHIND THE LOUVER-DAMPER ASSEMBLY, AND THE ASSEMBLY MAY BE IN STALLED IN A LOCATION WHERE THE ROOM BEHIND THE LOUVER IS NOT DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM AND THE ROOM CAN HOUSE NON-WATER RESISTANT/PROOF EQUIPMENT, COMPONENTS, AND/OR SUPPLIES. ①
13. THE VCD-40 MAY BE OPERATED BY THE MANUAL QUADRANT SHOWN OR BY ANY TYPE OF ACTUATOR AND ANY TYPE OF LINKAGE/ASSEMBLY COMPONENTS. ①
14. THE "SLEEVE" FRAME SETUP IS APPROVED FOR INSTALLATION INTO "CRACKED CONCRETE" SUBSTRATE, WHEREAS THE "CHANNEL" FRAME SETUP IS APPROVED FOR INSTALLATION INTO "CONCRETE" SUBSTRATE. ①
15. SUBSTRATE FOR SLEEVE FRAME SETUP: ANY SUBSTRATE IS ALLOWED THAT CAN WITHSTAND LOADS IMPOSED BY THE LOUVER ASSEMBLY (DETERMINED BY OTHERS). ALLOWABLE SUBSTRATES (BY OTHERS) INCLUDE (BUT NOT LIMITED TO) WOOD, STEEL, STEEL STUDS, CONCRETE, CRACKED CONCRETE, CMU, AND/OR ALUMINUM. ①
16. SUBSTRATE FOR CHANNEL FRAME SETUP: LIMITED TO WOOD, STEEL, STEEL STUDS, CONCRETE (NON-CRACKED), GROUT FILLED CMU, AND/OR ALUMINUM. SUBSTRATES SHALL MEET THE MINIMUMS AS NOTED IN THE "SUBSTRATE AND FASTENER TABLE". ①

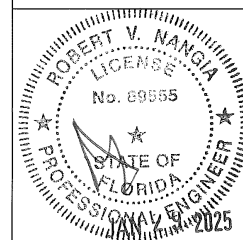
REV 01: 12/11/24, MOVED GENERAL NOTES TO THIS NEW PAGE, ADDED IMPACT SPEED AND AMCA 550 TO #2, ADDED ASD TO #3, REMOVED STRAP FROM #5, CONDENSED #6 TO ONE SENTENCE, UPDATED #11 TO STATE W/O THE DAMPER, & ADDED #12-#16.

DATE	9/30/15
DRAWN BY	STEEL
SCALE	1:1
SHEET NO.	16 OF 17
OLD DRAWING NO.	EHH-601DE



TITLE: EHH-601DE & VCD-40 DAMPER
GENERAL NOTES

PRODUCT REVISED
As complying with the Florida
Building Code
NOA-No. **25-0214.03**
Expiration Date: **12/14/2030**
By: *Manuel Fern*
Miami-Dade Product Control



PAGE NOTES:

SUBSTRATE AND FASTENER TABLE

ITEM 31, SUBSTRATE			ITEM 30, SUBSTRATE FASTENER									
TYPE	THICKNESS MIN	MATERIAL MIN	TYPE (ALL FASTENERS ARE HEX HEAD STYLE)	MAT'L	DIA.	EDGE MIN	EMBED. MIN	SPACING MAX *	SPACING MIN *	HEAD DIA. MIN	ANGLE HOLE ITEM 5, MAX	SUBSTRATE HOLE, MAX
WOOD ①	3	G OF 0.42	LAG SCREW, 3 INCH MIN LENGTH	300 SS	1/4	1 1/2	23/32	5 3/4	3	1/2	5/16	SEE FASTENER MANUFACTURER INSTRUCTIONS
					3/8	1 1/2	23/32	6 1/4	①	5/8	7/16	
STEEL ①	16 GA (0.056)	Fy 33 KSI Fu 45 KSI	1/4-20 BOLT W/ NUT	300 SS	1/4	5/8	0.056	8	1	1/2 HEAD 9/16 NUT	5/16	5/16
	1/4-14 DEWALT/ELCO BI-FLEX SCREW, 300 SS HEAD & SHANK W/ COATED STEEL TIP		MULTI	0.070			6 3/4	1/2		SEE FASTENER MANUFACTURER INSTRUCTIONS		
				0.099			8					
ALUMINUM ①	1/8	6063-T5	1/4-20 BOLT W/ NUT	300 SS	1/4	1/2	1/8	8	1	1/2 HEAD 9/16 NUT	5/16	1/4
			1/4-14 DEWALT/ELCO BI-FLEX SCREW, 300 SS HEAD & SHANK W/ COATED STEEL TIP	MULTI				7 ①		1/2		SEE FASTENER MANUFACTURER INSTRUCTIONS
CONCRETE ①	VARIES WITH SIZE OF FASTENER USED, SEE FASTENER MANUFACTURER INSTRUCTIONS	2 KSI	BUILDEX TAPCON, STAINLESS	410 SS	1/4	1 1/2	1 1/2	5 1/4	2	AS MANUFACTURED	1/4	SEE FASTENER MANUFACTURER INSTRUCTIONS
							2 1/4	6				
							2 1/2	6 3/8				
							3	6 3/4				
							1 1/2	4 1/4				
		3 KSI	BUILDEX TAPCON, STAINLESS	410 SS	1/4	1 1/2	1 1/4	2	5			
								3	6			
								1 1/2	6 1/4			
								3	7 1/2			
								1 3/4	6 1/2			
		2.3 KSI	DEWALT/ELCO AGGRE-GATOR	300 SS	1/4	1 1/2	1 3/8	6 1/2	3		1/4	
							1 3/4	6 7/8	3			
		2.9 KSI	DEWALT/ELCO ULTRA CON SS4	410 SS	1/4	1	1 3/4	4 3/8	3		1/4	
							2 1/2	8	6			
		3.4 KSI	DEWALT/ELCO CRETE-FLEX SS4, SMALL HEAD	410 SS	1/4	1	1 3/4	6 3/4	6		1/4	
DEWALT/ELCO CRETE-FLEX SS4, FLANGED HEAD					8							
2.5 KSI	DEWALT/POWERS 316 STAINLESS STEEL WEDGE-BOLT	316 SS	1/4	1 1/2	1 7/8	4 5/8	1	5/16				
						2			6 1/8			
						2 3/4			7			
						1 1/2			5 1/2			
						2			7 1/4			
GROUT FILLED CMU ①	NOTE 1	DEWALT/ELCO AGGRE-GATOR	300 SS	1/4	2	2	8	3	AS MANUFACTURED	1/4	SEE FASTENER MANUFACTURER INSTRUCTIONS	
	NOTE 2	DEWALT/ELCO ULTRA CON SS4	410 SS			2	1 3/4					6 3/4

NOTE *: MANUFACTURER MAY PROVIDE PILOT HOLES IN MOUNTING ANGLE AT 2" O.C. FOR SUBSTRATE ANCHOR. INSTALLER SHALL USE HOLES WHICH DO NOT VIOLATE SHOWN MIN & MAX SPACING. ①

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.

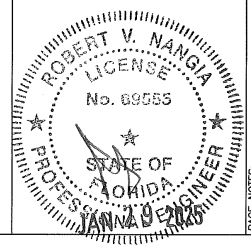
REV 01: 12/11/24, WAS PAGE 9, REMOVED ALL NON-STAINLESS STEEL ANCHORS, ADDED SS ALLOY TO WOOD/STEEL/ALUMINUM/TAPCON ANCHORS (X4), UPDATED WOOD ANCHOR MIN SPACING, THREAD CUTTING ANCHORS NOW A SPECIFIC TYPE (X2), UPDATED ALUMINUM SCREW MAX ON CENTER, ADDED DEWALT BRAND NAME TO ALL ELCO/POWERS CONCRETE & CMU ANCHORS (X7), ADDED ASTERISK TO MIN & MAX SPACING COLUMN, & DELETED OLD ASTERISK NOTE AND REPLACED WITH A NEW NOTE.

DATE	9/30/15
STEEL	
SCALE	1:1.2
SHEET NO.	17 OF 17
DATE DRAWING NO.	EHH-601DE



EHH-601DE
SUBSTRATE AND ANCHOR TABLE

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