

Manufacturers:

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

Product Line(s):

Greenheck Louver Model EVH-660D, and equivalent nameplated Airolite Louver Model SCV660MD.

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 61G20-3 of the FL Administrative Code and comply with the 8th Edition (2023) Florida Building Code.

Product Description:

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

Performance Summary (for entire product line):

Tested design pressure is +/- 150 PSF. Passed ANSI/AMCA Standard 540-08 at Enhanced Impact Missile Level E (80 fps impact speed). Passed ANSI/AMCA Standard 550-09. Passed TAS 100(A)-95, TAS 201-94 (large missile, 50 fps impact speed), TAS 202-94, and TAS 203-94. Product can be used inside and outside of the HVHZ and is impact resistant.

Performance Standards:

1. ANSI/AMCA Standard 540-08, Test Method for Louvers Impacted by Wind Borne Debris.
2. ANSI/AMCA Standard 550-09, Test Method for High Velocity Wind Driven Rain Resistant Louvers.
3. FBC TAS 100(A)-95 (Modified), Test Procedure For Wind and Wind Driven Rain Resistance and/or Increases Windspeed Resistance of Soffit Ventilation Strip and Continuous or Intermittent Ventilation System Installed at the Ridge Area (Modified in accordance with Miami-Dade County Building Code Compliance Office Checklist #240 for the Approval of Louvers).
4. FBC TAS 201-94, Impact Test Procedures.
5. FBC TAS 202-94, Criteria for Testing Impact & Non-Impact Resistant Building Envelope Components Using Uniform Static Air Pressure.
6. FBC TAS 203-94, Criteria for Testing Products Subject to Cyclic Wind Pressure Loading.

Supporting Technical Documents:

1. Approval Documents:
 - a. NOA 23-1030.05 for EVH-660D, approved on 2/1/2024
 - b. NOA 23-1030.08 for SCV660MD, approved on 2/1/2024
2. Listing Documents:
 - a. AMCA License Agreement to use the AMCA Listing Label for AMCA 540 (Enhanced Impact Missile Level E, 80 fps) and ANSI/AMCA 550:
 - i. EVH-660D, dated 7/21/2021
 - ii. SCV660MD, dated 7/21/2021
3. Test Reports:
 - a. B5211.01-602-18, signed and sealed on 03/21/2012 by Shawn G. Collins, P.E., Architectural Testing, Inc., Schofield, WI
 - i. FBC TAS 201-94, FBC TAS 202-94, and FBC TAS 203-94
 - b. B5211.02-602-18, signed and sealed on 03/21/2012 by Shawn G. Collins, P.E., Architectural Testing, Inc., Schofield, WI
 - i. FBC TAS 100(A)-95, and ANSI/AMCA 550-09
 - c. B7037.01-602-44, signed and sealed on 05/18/2012 by Shawn G. Collins, P.E., Architectural Testing, Inc., Schofield, WI
 - i. ANSI/AMCA Standard 540-08

- d. QCT22-6695.01, signed and sealed on 07/05/2022 by Arlen Fisher, P.E., Quast Consulting & Testing, Inc., Mosinee, WI
i. FBC TAS 201-94 and FBC TAS 203-94

Limits and Conditions Use:

1. Limits/Conditions are as per their Miami-Dade NOA and AMCA Listing documents.
2. Constructed from materials as noted in the NOA Approval Document.
3. Maximum Design Pressure is +/- 150 PSF.
4. Maximum Panel Sizes are 48" wide x 120" high, 60" wide by 96" high, and 96" wide by 60" high.
5. Rated to be used inside and outside of the HVHZ.
6. Impact resistant for both Basic Impact Missile Level D (50 fps) and Enhanced Impact Missile Level E (80 fps).
7. With blades fully open, the louver may be installed in a location where the room behind the louver is NOT designed to drain water penetrating into the room and the room may house NON-water resistant/proof equipment, components, and/or supplies.

Installation:

Must be installed in accordance with its Miami-Dade NOA document.

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 Standard Equivalency:

The requirements of ANSI/AMCA 540-08 (as tested) meet or exceed the requirements of ANSI/AMCA 540-13 for the purpose of evaluating the above referenced product testing for Enhanced Missile Impact per the 8th Edition (2023) Florida Building Code.

The requirements of TAS 100(A)-95 Modified for Louvers (as tested) as well as ANSI/AMCA 550-09 (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:

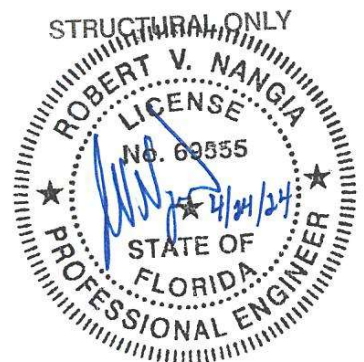
Prepared by:



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

Reviewed by:

Robert V. Nangia, PE



Robert
Nangia

Digitally signed by
Robert Nangia
DN: c=US, st=Texas,
l=Cypress, o=Robert
Nangia, cn=Robert
Nangia,
email=rvnangia@gmail.
com
Date: 2024.04.24
16:25:30 -05'00'

This item has been electronically signed and sealed by Robert V Nangia PE 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



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

The Airolite Company, LLC
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 SCV660MD Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **SCV660MD**, titled "SCV660MD", sheets 1 through 9 of 9, dated 12/11/23, prepared by the manufacturer, signed and sealed by Robert V. Nangia, P.E., 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 # 22-0707.09** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**



Ishaq I. Chanda

NOA No. 23-1030.08
Expiration Date: October 4, 2027
Approval Date: February 01, 2024
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOAs

A. DRAWINGS “Submitted under NOA # 12-0418.05”

1. Drawing No. **SCV660MD**, titled “SCV660MD”, sheets 1 through 9 of 9, dated 12/06/2011, prepared by the manufacturer, signed and sealed by Chander P. Nangia, P.E. on 04/06/2012, and 07/19/2012.

B. TESTS “Submitted under NOA # 12-0418.05”

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 and High Velocity Wind Driven Rain Resistance per AMCA 550-09 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 # 12-0418.05”

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

“Submitted under NOA #16-0201.16”

1. Statement letter of code conformance to the 5th 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 # 14-0224.09”

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 # 12-0418.05”

3. Statement letter of code conformance to 2010 FBC, issued by Chander P. Nangia, P.E., dated 04/02/2012, signed and sealed by Chander P. Nangia, P.E.
4. No financial interest letter issued by Chander P. Nangia, P.E., dated 04/02/2012, signed and sealed by Chander P. Nangia, P.E.
5. Private label agreement dated 01/17/2007.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-1030.08
Expiration Date: October 4, 2027
Approval Date: February 01, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED UNDER NOA # 17-0807.21

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 5th Edition (2014) and 6th Edition (2017) of the FBC, and of no financial interest issued by Chander P. Nangia, P.E., dated 07/28/2017, signed and sealed by Chander P. Nangia, P.E.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-1030.08
Expiration Date: October 4, 2027
Approval Date: February 01, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. EVIDENCE SUBMITTED UNDER NOA # 21-0526.12

A. DRAWINGS

1. Drawing No. **SCV660MD**, titled “SCV660MD”, sheets 1 through 9 of 9, dated 12/06/2011, prepared by the manufacturer, signed and sealed by Chander P. Nangia, P.E. on 04/06/2012, 07/19/2012, 02/13/2014, and 01/12/2016.

B. TESTS

2. 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 7th Edition (2020) of the FBC, and of no financial interest, issued by Chander P. Nangia, P.E., dated May 13, 2021, signed and sealed by Chander P. Nangia, P.E.

G. OTHER

1. This NOA revises **NOA # 17-0807.21**, expiring **10/04/22**.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-1030.08
Expiration Date: October 4, 2027
Approval Date: February 01, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **SCV660MD**, titled “SCV660MD”, sheets 1 through 9 of 9, dated 06/24/2022, prepared by the manufacturer, signed and sealed by Chander P. Nangia, P.E.

B. TESTS *Evidence submitted under NOA# 22-0707.08*

1. Test reports on 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of Model EVH-660D Aluminum Vertical Louver, prepared by Quast Consulting & Testing, Inc, Report No. **QCT22-6695.01**, dated 07/01/2022, signed and sealed by Arlen Fisher, P.E.

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 7th Edition (2020) of the FBC, and of no financial interest, issued by Chander P. Nangia, P.E., dated 06/24/2022, signed and sealed by Chander P. Nangia, P.E.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-1030.08
Expiration Date: October 4, 2027
Approval Date: February 01, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **SCV660MD**, titled “SCV660MD”, sheets 1 through 9 of 9, dated 12/11/23, prepared by the manufacturer, signed and sealed by Robert V. Nangia, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. None.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

1. Statement letter of code conformance to FBC 2023 (8th Edition) and of no financial interest issued by Robert V. Nangia, P.E., dated 10/26/23, signed and sealed by Robert V. Nangia, P.E.

D. OTHER

1. *This NOA revises NOA # 22-0707.09, updates to FBC 2023, expiring 10/04/27.*

Ishaq I. Chanda

Ishaq I. Chanda, P.E.
Product Control Unit Supervisor
NOA No. 23-1030.08
Expiration Date: October 4, 2027
Approval Date: February 01, 2024

DESIGN PRESSURE:
+/- 150 PSF

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.

MAXIMUM SECTION SIZES:
 WIDTH HEIGHT
 48.0" X 120.0" (AS SHOWN)
 60.0" X 96.0"
 96.0" X 60.0"

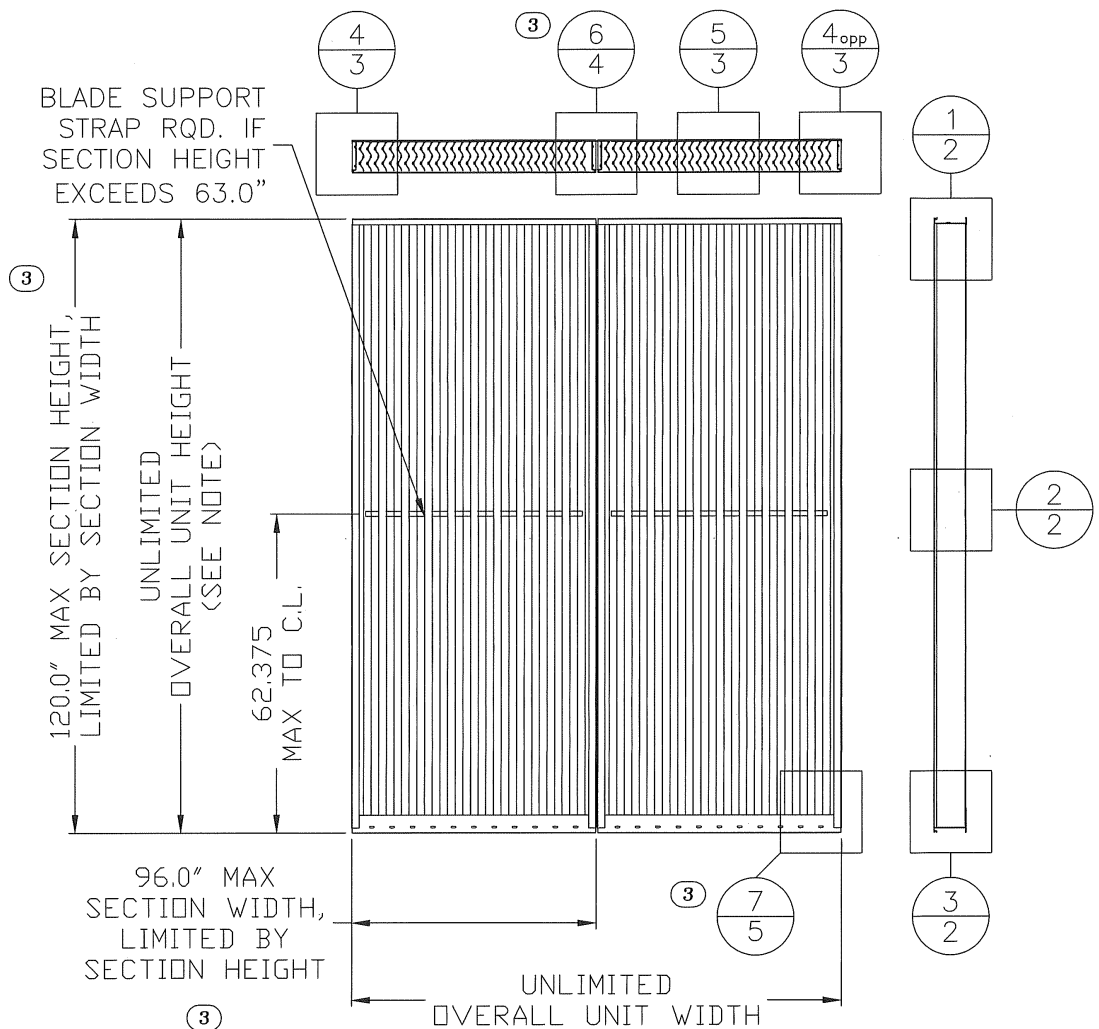
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SCALE		SHEET NO.	1 OF 9	CAD DRAWING NO.
TITLE			SCV660MD	ELEVATION

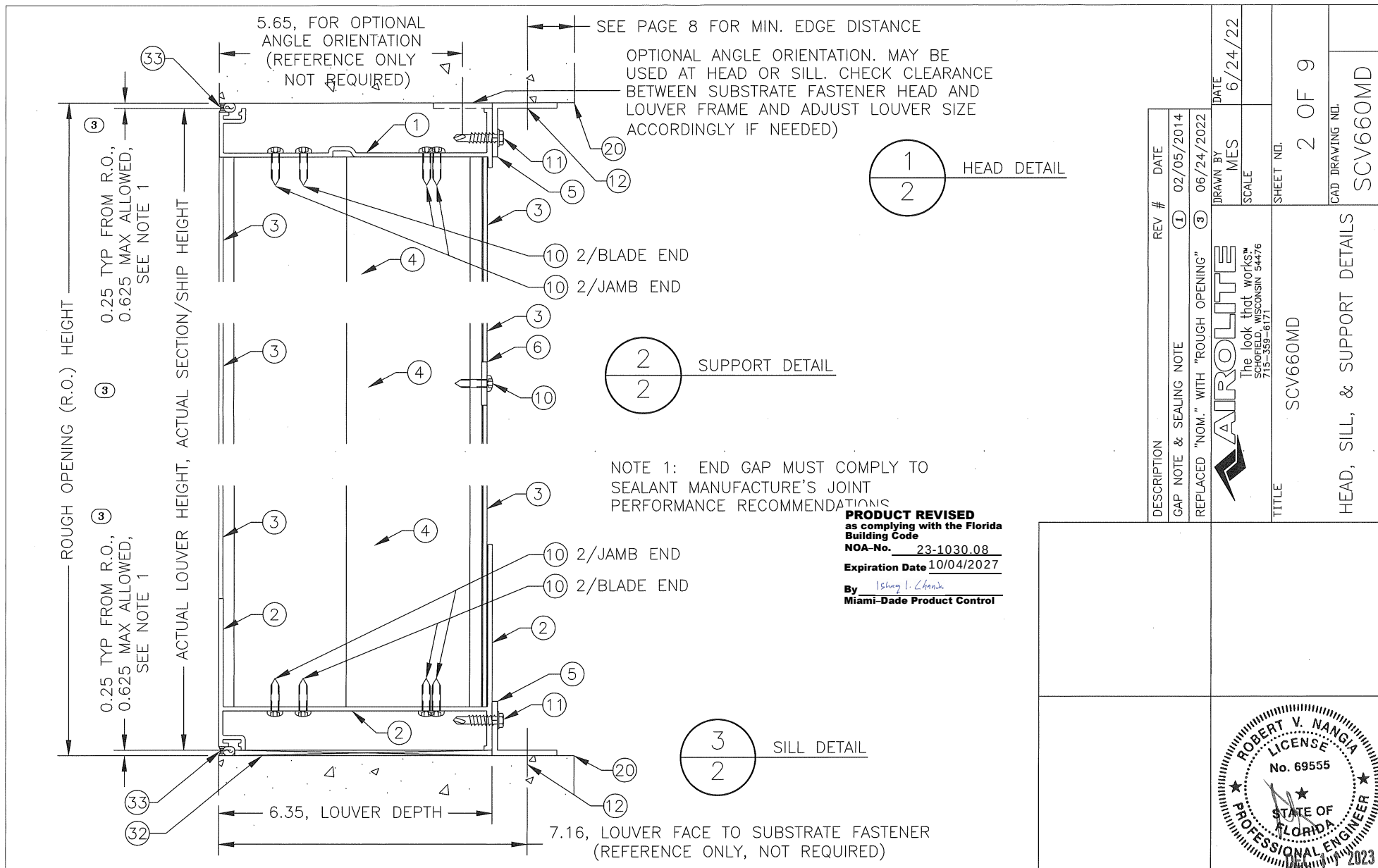
PRODUCT REVISED
 as complying with the Florida Building Code
 NOA-No. 23-1030.08
 Expiration Date 10/04/2027
 By Shang L. Chan
 Miami-Dade Product Control

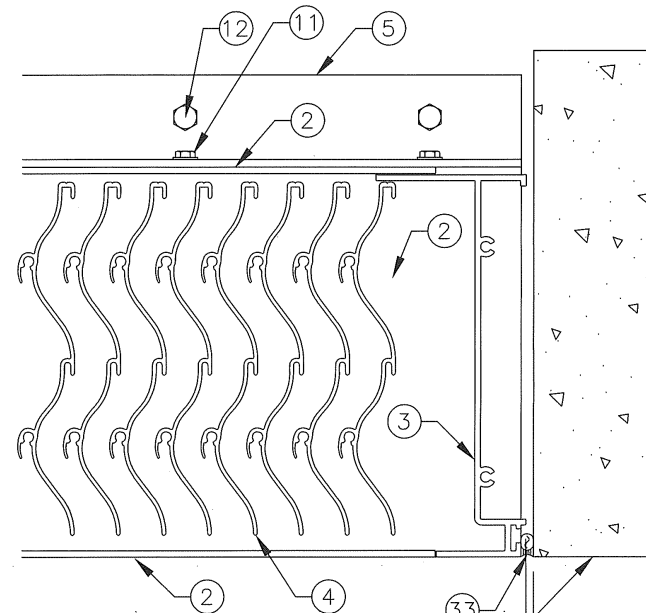
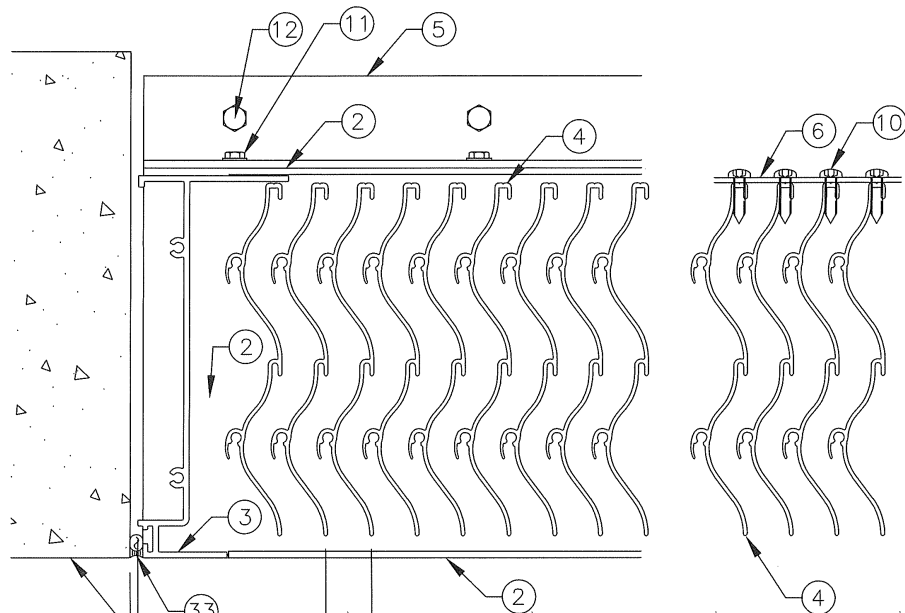
Robert V. Nangia P.E.
 7423 Hollow Ridge Drive
 Houston, Texas 77065

DESCRIPTION	REV #	DATE
ADDED PSF RATING, ADDED MAX SIZES, RE-NUMBERED DETAIL CALLOUTS, RE-WORDED HEIGHT & WIDTH DIM.	3	06/24/2022

DEC 11 2023







.75 BLADE SPACING, TYP

ACTUAL LOUVER WIDTH, ACTUAL SECTION/SHIP WIDTH

0.25 TYP FROM R.O., (3)
0.625 MAX ALLOWED, SEE NOTE 1

0.25 TYP FROM R.O., (3)
0.625 MAX ALLOWED, SEE NOTE 1

ROUGH OPENING (R.O.) WIDTH

4
3 JAMB DETAIL

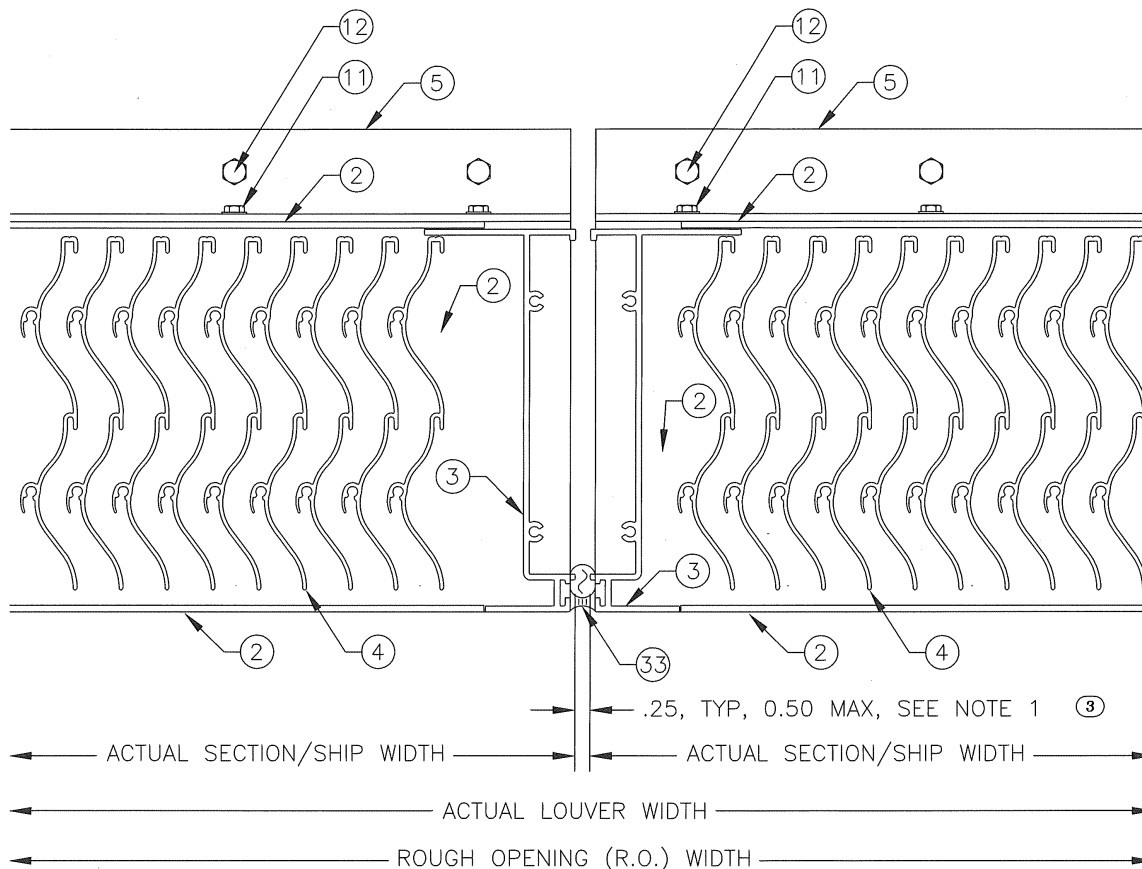
5
3 SUPPORT DETAIL

4opp
3 JAMB DETAIL OPPOSITE

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

DESCRIPTION	REV #	DATE
GAP NOTE & SEALING NOTE	(1)	02/05/2014
REPLACED "NOM." WITH "ROUGH OPENING"	(3)	06/24/2022

AIROLITE The look that works™ SHOREFIELD, WISCONSIN 54476 715-389-8171	DRAWN BY MES	DATE 6/24/22
	SCALE	
SHEET NO. 3 OF 9		CAD DRAWING NO. SCV660MD
TITLE SCV660MD JAMB & SUPPORT DETAILS		
PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-1030.08 Expiration Date 10/04/2027 By Isheng I. Chanok Miami-Dade Product Control		



(3)

6
4

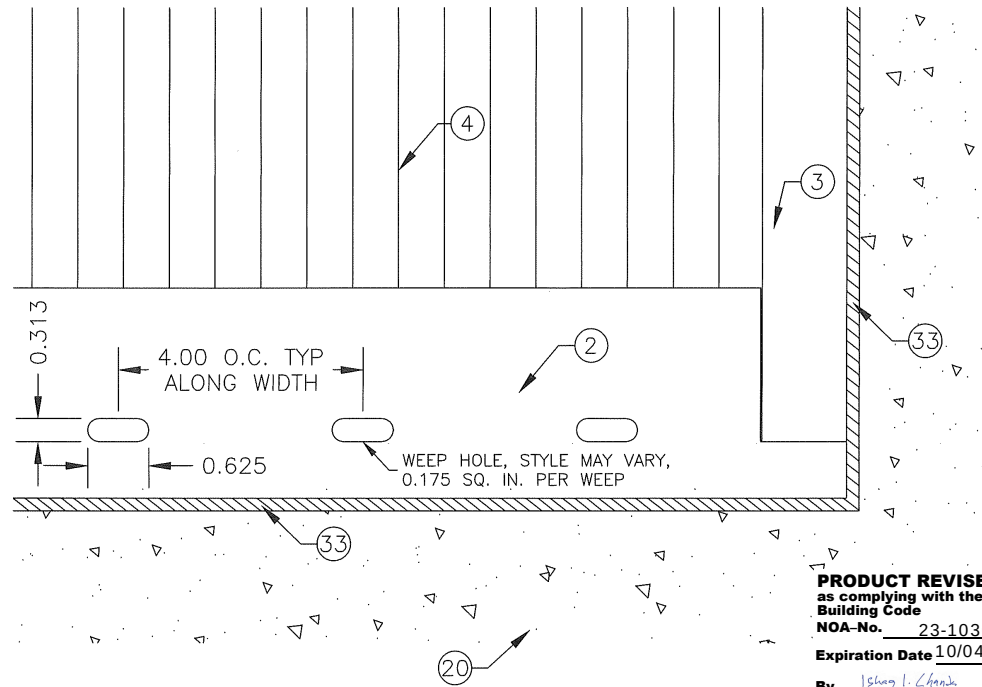
 MULLION DETAIL

(3) NOTE 1: GAP MUST COMPLY TO SEALANT MANUFACTURE'S JOINT PERFORMANCE RECOMMENDATIONS.

DESCRIPTION	REV #	DATE
GAP NOTE & SEALING NOTE	(1)	02/05/2014
WAS DETAIL 5, UPDATED GAP FROM TO 0.25" AND ADDED 0.50 MAX, MOVED ACTUAL WIDTH TO NEW LINE, REPLACED "NOM." WITH "ROUGH OPENING", CORRECTED NOTE 1 WORDING	(3)	06/24/2022

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-1030.08
Expiration Date 10/04/2027
By Isling I. Chande
(3) **Miami-Dade Product Control**

 The look that works. SPECIFIED BY: 913-389-6171 54476	DRAWN BY MES	DATE 6/24/22	SHEET NO. 4 OF 9 CAD DRAWING NO. SCV660MD
	SCALE		
TITLE SCV660MD MULLION DETAIL			



PRODUCT REVISED
 as complying with the Florida
 Building Code
 NOA-No. 23-1030.08
 Expiration Date 10/04/2027
 By Ishag I. Chanh
 Miami-Dade Product Control

VIEW OF EXTERIOR FACE OF LOUVER,
 LOWER RIGHT CORNER

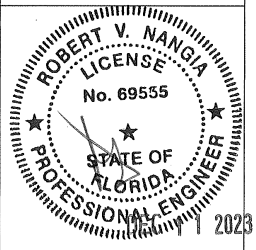
(3)

7
5

 WEEP DETAIL

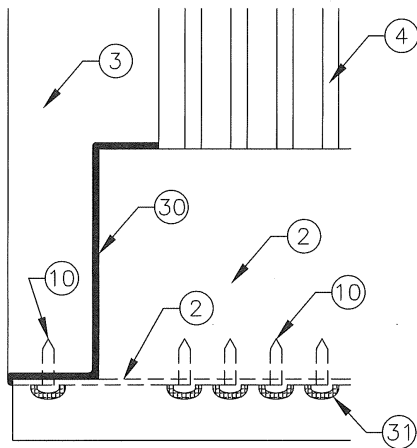
DESCRIPTION	REV #	DATE
WAS DETAIL 6	(3)	06/24/2022

AIROLITE The look that works. 9700 N. W. 13th Ave. Suite 54476 Fort Lauderdale, FL 33305-6171	DRAWN BY MES	DATE 6/24/22
	SCALE	
TITLE SCV660MD WEEP HOLE DETAIL	SHEET NO. 5 OF 9	
	CAD DRAWING NO. SCV660MD	

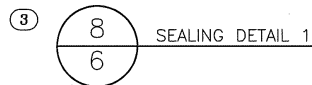


11 2023

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 SREW.

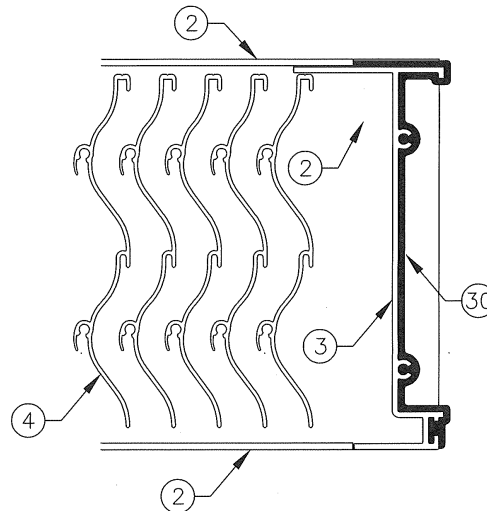


VIEW OF INTERIOR FACE OF LOUVER,
LOWER LEFT CORNER

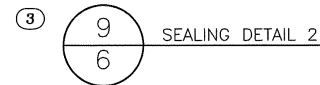


SEALING DETAIL 1

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



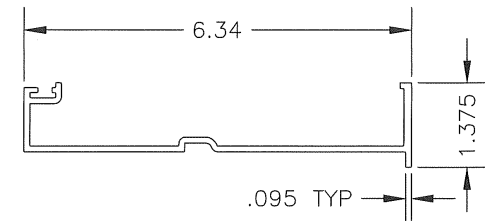
SECTIONAL VIEW,
LOOKING AT SILL



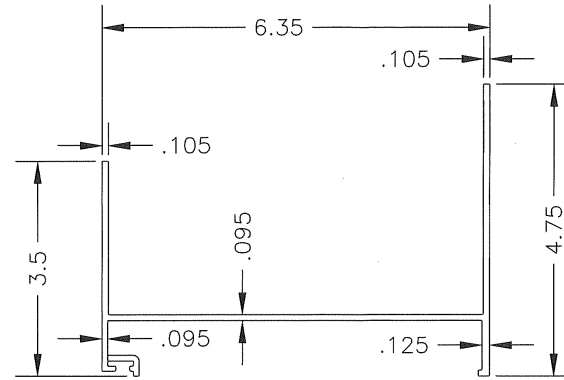
SEALING DETAIL 2

DESCRIPTION	REV #	DATE
PREVIOUSLY DETAILS 7 & 8	③	06/24/2022

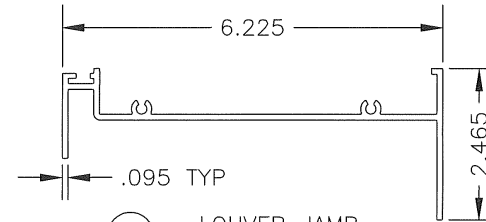
AIROLITE The look that works™ SCOTTSDALE, WISCONSIN 54476 715-389-8171	DRAWN BY MES	DATE 6/24/22
	SCALE	SHEET NO. 6 OF 9
TITLE SCV660MD		CAD DRAWING NO. SCV660MD
SEALING DETAILS		
PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-1030.08 Expiration Date 10/04/2027 By Ishag I. Chanh Miami-Dade Product Control		



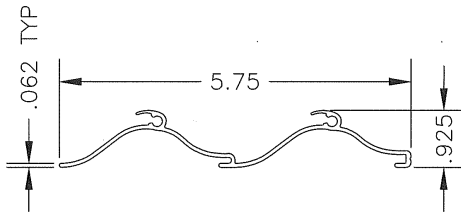
① LOUVER HEAD
6063-T5 ALUMINUM



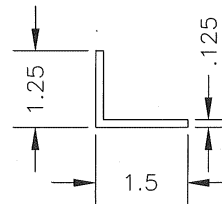
② LOUVER SILL
6063-T5 ALUMINUM



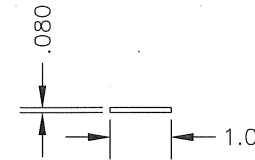
③ LOUVER JAMB
6063-T5 ALUMINUM



④ LOUVER BLADE
6063-T5 ALUMINUM



⑤ CONTINUOUS MOUNTING ANGLE
6061-T6 ALUMINUM

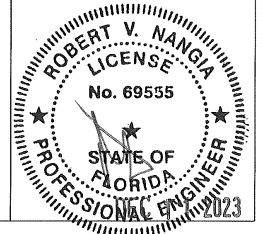


⑥ BLADE SUPPORT STRAP
6061-T6, 5052-H32,
3003-H14, OR 1100-H14
ALUMINUM

ALL SHOWN DIMENSIONS ARE MINIMUMS

DRAWN BY MES	DATE 6/24/22	 The look that works™ SPECIALTIES, INC. 713-389-8171	SCALE	SHEET NO. 7 OF 9	TITLE SCV660MD PROFILE DETAILS
CAD DRAWING NO.	SCV660MD		SCV660MD		

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-1030.08
Expiration Date 10/04/2027
By *Ishtay L. Chanin*
Miami-Dade Product Control



CONTINUOUS ANGLE TO LOUVER FRAME SCREW	
FASTENER NUMBER	11
DESCRIPTION	1/4"-14 OR 1/4"-20 SCREW, 300 OR 400 SERIES SS, OR COATED STEEL
LOUVER HEIGHT (IN.)	SPACING (IN.)
>84 & ≤120	2
>0 & ≤84	4

③

③

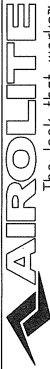
1/4" TAPCON SCREW FASTENER TABLE			
FASTENER NUMBER	12B		
DESCRIPTION	1/4" TAPCON, 410 SS		
SUBSTRATE	CONCRETE OR CMU (GROUT FILLED)		
MINIMUM	3.192 KSI CONCRETE OR 3.192 KSI GROUT		
EDGE DISTANCE (MIN)	1 IN.	1-1/2 IN.	2-1/2 IN.
PENETRATION (MIN)	1-3/4 IN.		
LOUVER HEIGHT (IN.)	SPACING (IN.)		
>108 & ≤120	2	2	4
>96 & ≤108	2	4	4
>72 & ≤96	2	4	6
>48 & ≤72	4	6	6
>0 & ≤48	6	6	6

③

LAG SCREW, SCREW, & BOLT W/NUT FASTENER TABLE				
FASTENER NUMBER	12C	12D	12E	
DESCRIPTION	3/8" LAG SCREW, 300 SERIES SS	1/4" LAG SCREW, 300 SERIES SS	1/4"-20 SCREW OR BOLT W/NUT, 300 SERIES SS	
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

③

DESCRIPTION	REV #	DATE
REVISED LIMITS OF MAX SPACING	①	02/05/2014
REFORMATTED FASTENER 11 TABLE ADDED 1/4-14 TO ITEM 11, ADDED STAINLESS STEEL TO ALL DESCRIPTIONS, DELETED POWERS WEDGE BOLT TABLE	③	06/24/2022



The look that works™
SPECIFIED IN:
SCS-555-8171
F13-383-8171

SCV660MD

FASTENER TABLES

8 OF 9

CAD DRAWING NO.
SCV660MD

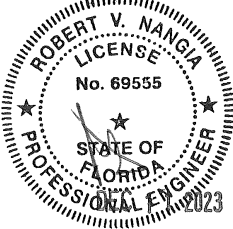
DRAWN BY
MES

DATE
6/24/22

SCALE

SHEET NO.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 23-1030.08
Expiration Date 10/04/2027
By Isheng I. Chan
Miami-Dade Product Control



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	#10-16 x 3/4" MIN SCREW (3)	300 SS**	-
11	1/4-20 x 1" MIN SCREW	STEEL* SS	300 OR 400 SERIES SS, OPTIONAL: 1/4-14 (9)
12A	ITEM DELETED	-	-
12B	1/4" TAPCON SCREW	410 SS	SEE FASTENER TABLE PAGE
12C	3/8" LAG SCREW	300 SS**	SEE FASTENER TABLE PAGE
12D	1/4" LAG SCREW	300 SS**	SEE FASTENER TABLE PAGE
12E	1/4-20 SCREW OR 1/4-20 BOLT W/NUT	300 SS**	SEE FASTENER TABLE PAGE
-	-	-	-
20A	CONCRETE, 3,192 KSI MIN (3)	CONCRETE	NOT BY MANUFACTURER
20B	CMU, 3,192 KSI MIN GROUT FILLED (3)	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.

** 300 SERIES STAINLESS STEEL (3)

DESCRIPTION	REV #	DATE
REVISED NOTE 2 FBC REFERENCE	(2)	01/11/2016
CORRECTED ITEM 10 THREADS, ADDED 1/4-14 OPTION TO ITEM 11, DELETED STEEL OPTIONS FROM ITEMS 10 AND 12, DELETED ITEM 12A POWERS WEDGE BOLT, UPDATED ITEMS 20A & 20B & NOTE 10 MIN PSI VALUE, ADDED ** NOTE, SIMPLIFIED NOTE 3, UPDATED NOTE 5 MAX SIZES, DELETED FBC REFERENCE FROM NOTE 14	(3)	06/24/2022

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 PENTHOUSE ASSEMBLY.
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)
TAS-202 (UNIFORM STATIC PRESSURE)
TAS-203 (CYCLIC FATIGUE)
TAS-100(A) (WIND-DRIVEN RAIN)
AMCA STANDARD 550 (WIND-DRIVEN RAIN)
3. THIS LOUVER HAS BEEN DESIGNED, TESTED, AND APPROVED TO WITHSTAND DESIGN PRESSURES OF +/-150 PSF. (3)
4. 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.
5. THE MAXIMUM SINGLE SECTION SIZES ARE 48"x120", 60"x96", AND 96"x60" (WxH). THE MAXIMUM OVERALL/ASSEMBLED SIZE IS UNLIMITED WIDE (BY USE OF MULTIPLE SECTIONS) 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. (3)
6. A HORIZONTAL BLADE SUPPORT STRAP IS REQUIRED IF SECTION HEIGHT IS GREATER THAN 63".
7. ALL WOOD SUBSTRATE SHALL BE G = 0.42 DENSITY OR BETTER.
8. ALL STEEL STUD SUBSTRATE SHALL BE MIN. 16 GA. FY = 36 KSI.
9. ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MIN. 3/16" THICK FY = 36 KSI.
10. ALL CONCRETE SUBSTRATE SHALL BE MIN. 3,192 PSI. (3)
11. 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.
12. 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.
13. THE LOUVER MANUFACTURER DOES NOT DETERMINE THE STRUCTURAL INTEGRITY OF THE SUBSTRATE STRUCTURE.
14. INSTALLER TO PROVIDE SEPARATION OF DISSIMILAR MATERIALS AS REQUIRED. (3)

 The look that works™ SCHOOLFIELD, WISCONSIN 54476 715-389-6171	DRAWN BY MES	DATE 6/24/22	SHEET NO. 9 OF 9 CAD DRAWING NO. SCV660MD
	SCALE		
TITLE SCV660MD		DESCRIPTIONS & GENERAL NOTES	
PRODUCT REVISED as complying with the Florida Building Code NOA-No. 23-1030.08 Expiration Date 10/04/2027 By <u>Ishag I. Chandra</u> Miami-Dade Product Control			
