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

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

NOTICE OF ACCEPTANCE (NOA)

Nailor Industries Inc.
4714 Winfield Road
Houston, TX 77039

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 1603WDVM Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **1603WDVM-NOA**, titled "1603WDVM Louver", sheets 1 through 6 of 6, dated 06/10/2025, prepared by manufacturer, signed and sealed by Lucas A. Turner, P.E., bearing the Miami-Dade County Product Control approval 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, Houston, TX, 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 consists of this page 1 and evidence pages E-1, as well as approval document mentioned above.

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

03/10/26

NOA No. 25-0922.02
Expiration Date: March 19, 2031
Approval Date: March 19, 2026

Nailor Industries Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **1603WDVM-NOA**, titled "1603WDVM Louver", sheets 1 through 6 of 6, dated 06/10/2025, prepared by manufacturer, signed and sealed by Lucas A. Turner, P.E.

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 installation diagram of Model 1603 WDVM Louver System, prepared by Intertek, Test Report No. **Q2859.01-801-18 R0**, dated 08/01/2024, signed and sealed by Tyler Westerling, P.E.

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 installation diagram of Model 1603 WDVM Louver System, prepared by Intertek, Test Report No. **Q2859.02-801-18 R0**, dated 09/18/2024, signed and sealed by Tyler Westerling, P.E.

3. Test Report on High Velocity Wind Driven Rain Resistance per ANSI/AMCA 550-22/550-15 on a Model 1603WDVM Vertical Louver, prepared by Intertek, Test Report No. **Q2854.01-801-44 R0,** dated 06/17/2024, signed and sealed by Tyler Westerling, P.E.

C. CALCULATIONS

1. Louver structural calculations, prepared by Turner Engineering Consulting, Inc., dated 09/09/2025, signed and sealed by Lucas A. Turner, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

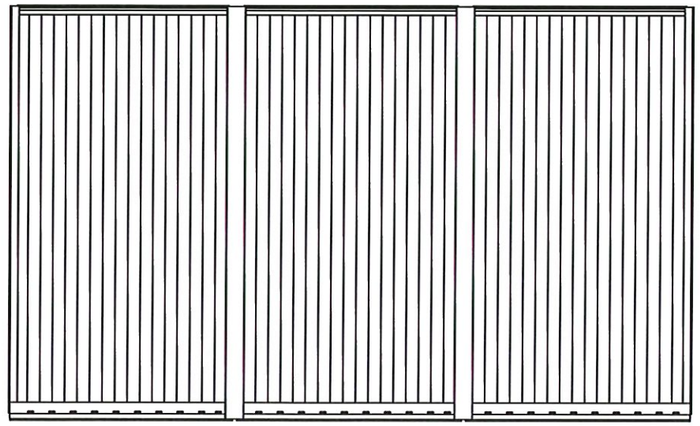
1. Statement letter of code conformance to the 8th edition (2023) of the FBC, issued by Turner Engineering & Consulting, Inc., dated 09/09/2025, signed and sealed by Lucas A. Turner, P.E.

2. Statement letter of no financial interest issued by Turner Engineering & Consulting, Inc., dated 09/09/2025, signed and sealed by Lucas A. Turner, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 25-0922.02
Expiration Date: March 19, 2031
Approval Date: March 19, 2026

GENERAL NOTES

1. THE 1603WDVM LOUVER SYSTEM SHOWN IN THE CONFIGURATIONS HEREIN IS DESIGNED AND MANUFACTURED TO COMPLY WITH THE REQUIREMENTS OF THE 8TH EDITION (2023) FLORIDA BUILDING CODES INCLUDING THE HIGH VELOCITY HURRICANE ZONE PROVISIONS, FOR APPLICATIONS WITH DESIGN PRESSURE (ASD) REQUIREMENTS OF 120 PSF OR LESS.
2. THIS PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH TAS 201, TAS 202, TAS 203, AMCA 540 AND AMCA 550. FOR FULL PRODUCT TESTING DETAILS SEE INTERTEK TEST REPORTS Q2854.01-801-44, Q2859.01-801-18, AND Q2859.02-801-18.
3. THIS PRODUCT AS SHOWN IN THIS DRAWING IS MISSILE LEVEL D LARGE MISSILE IMPACT RESISTANT, AND DOES NOT REQUIRE THE USE OF IMPACT PROTECTIVE DEVICES (SHUTTERS) IN WINDBORNE DEBRIS REGIONS.
4. THIS LOUVER SYSTEM HAS BEEN DESIGNED TO PREVENT WIND-DRIVEN RAIN FROM PENETRATING THE SPACE BEHIND THE LOUVER SO 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/PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES.
5. THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEAD LOADS. THE WEIGHT OF THE LOUVER SYSTEM MUST REST ON AND BE SUPPORTED BY THE OPENING SUBSTRATE AND NOT THE INSTALLATION ANGLES/FASTENERS.
6. THE 4/3 ALLOWABLE STRESS INCREASE FACTOR (SHORT-TERM INCREASE FACTOR) HAS NOT BEEN USED IN THE ANCHOR ANALYSIS FOR THIS SYSTEM. THE 1.6 Cd FACTOR WAS USED IN THE ANALYSIS OF ANCHORAGE INTO WOOD SUBSTRATE.
7. THE OPENING SUBSTRATE MATERIALS (FRAMING, MASONRY, BUCKS) AND ATTACHMENT OF BUCKS TO THE SUBSTRATE ARE BY OTHERS AND SHALL BE VERIFIED BY THE ARCHITECT OR ENGINEER OF RECORD OR AS APPROVED BY THE AUTHORITY HAVING JURISDICTION (AHJ). BUCKING, OPENINGS, & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED BY OTHERS IN ACCORDANCE WITH THE FBC TO TRANSFER SUPERIMPOSED LOADS TO THE STRUCTURE.
8. DISSIMILAR MATERIALS THAT COME INTO CONTACT SHALL BE COATED OR OTHERWISE PROTECTED TO PREVENT GALVANIC REACTIONS. WOOD BUCKS, IF USED, SHALL BE PRESSURE TREATED, WITH EITHER A TREATMENT OR COATING COMPATIBLE WITH THIS PRODUCT.
9. ANCHORAGE NOTES: INSTALL PRODUCTS WITH MAXIMUM SHIM GAP, MINIMUM EDGE DISTANCE AND EMBEDMENT, AND WITH FASTENER TYPE AS SHOWN IN THE DETAILS AND AS INDICATED IN TABLE 1 OR TABLE 2 FOR THE APPROPRIATE SUBSTRATE, OR AS APPROVED, SIGNED, AND SEALED BY A FLORIDA-REGISTERED PROFESSIONAL ENGINEER ON A SITE-SPECIFIC BASIS. ALL ANCHORS USED SHALL BE OF A MATERIAL OR HAVE A COATING COMPATIBLE WITH THE OPENING SUBSTRATE AND ALL OTHER LOUVER MATERIALS. INSTALL SHIMS AT EACH ANCHOR LOCATION WHERE A GAP OF 1/16" OR GREATER EXISTS BETWEEN PRODUCT FRAME AND SUBSTRATE. SHIMS SHALL BE LOAD-BEARING (PLASTIC OR METALLIC) AND CAPABLE OF TRANSFERRING LOADS TO SUBSTRATE. SPECIFIED ANCHOR EMBEDMENT TO SUBSTRATE SHALL BE BEYOND WALL FINISH OR STUCCO.



SAMPLE EXTERIOR ELEVATION
(SEE SIZES/DETAILS SHEET 2)

BILL OF MATERIALS

ITEM	INTERNAL ID	DESCRIPTION
10	C6-242	HEAD
20	C6-243	SILL
30	C6-244	JAMB
40	C6-245	BLADE
50		WATER STOP JAMB
60	C6-160	2" X 2" X 2" X 1/8" JAMB CLIP INSTALL ANGLE
70	C6-160	2" X 2" X 1/8" CONTINUOUS INSTALL ANGLE
80	C6-189	BLADE SCREW
90		INSTALLATION SCREW, SEE TABLE 1, SHEET 1
100	C6-193	#14 X 1-1/2", 401 SS HEX SCREW
110		BLADE SUPPORT
120	C6-179	MULLION COVER
130	C6-179	MULLION BAR
140		#8 X 1-1/2" 410 SS HEX SCREW
150		4" X 2" X 1/4" CONTINUOUS MOUNTING ANGLE
160		HW 10-24 X 1-1/2 410 SS
170		2" X 3" X 3/16" CONTINUOUS INSTALL ANGLE
180		#8 X 3/4", 401 SS HEX SCREW

ALL EXTRUSIONS ARE 6063-T6 ALUMINUM

TABLE 1. INSTALLATION ANCHOR REQUIREMENTS NOTE: THIS TABLE APPLIES TO ANCHORAGE OF 2X2X1/8" ANGLES (BOM ITEMS 60 OR 70) TO SUBSTRATE, AS WELL AS 4X2X1/4" MOUNTING ANGLES (BOM ITEM 150) TO SUBSTRATE

ANCHOR ID	OPENING SUBSTRATE	ANCHOR TO OPENING FASTENER TYPE	MINIMUM EMBEDMENT	MINIMUM EDGE DISTANCE
A	SOLID UNCRACKED CONCRETE (3050 PSI MIN.)	1/4" DEWALT ULTRACON+ OR 1/4" HILTI KWIK-CON+	1 3/4"	2 1/2"
B	GROUT- FILLED CMU (ASTM C-90 WITH 1,500 PSI MIN. GROUT)	1/4" DEWALT ULTRACON+ ATTACHED TO FACE OF MASONRY (FOR ATTACHMENT TO TOP OF MASONRY, SEE TABLE 2)	1 3/4"	2 1/2"
C	1/4" THICK MIN. A36 MIN. STEEL OR 6063-T5 MIN. ALUMINUM	1/4"-20 BOLT, 300 SERIES COND. CW SS (65ksi MIN. YIELD)	1/4"	9/16"
D	SPRUCE-PINE-FIR (SG = 0.42 MIN.)	1/4" LAG SCREW, 300 SERIES COND. CW SS (65ksi MIN. YIELD)	2 3/8"	1 1/2"
E	SOLID UNCRACKED CONCRETE (3000 PSI MIN.)	1/4" ITW TAPCON WITH ADVANCED THREADFORM	1 3/4"	1 1/2"

TABLE 2. ALLOWABLE DESIGN PRESSURES FOR SINGLE OR MULTIPLE MULLED LOUVERS UP TO 60" ACTUAL SECTION WIDTHS USING 2X2 CONTINUOUS INSTALLATION ANGLE AT SILL ATTACHED TO THE TOP OF 6" MIN. WALL DEPTH GROUT-FILLED MASONRY (ASTM C-90 WITH 1500 PSI MIN. GROUT), USING 1/4" DEWALT ULTRACON+ WITH 1-1/2" MIN. EDGE DISTANCE, 1-3/4" MIN. EMBEDMENT, AND 4-1/4" ON-CENTER SPACING.

	ACTUAL LOUVER HEIGHT (in.)					
	71	72	84	96	108	120
DESIGN PRESSURE (psf)	120	118	101	88	79	71

TABLE OF CONTENTS

Lucas A. Turner, PE Ph. 941.380.1574
Turner Engineering & Consulting, Inc.
FL PE #58201 FBPE COA #29779
2428 Old Natchez Trace Trl.
Camden, TN 38320

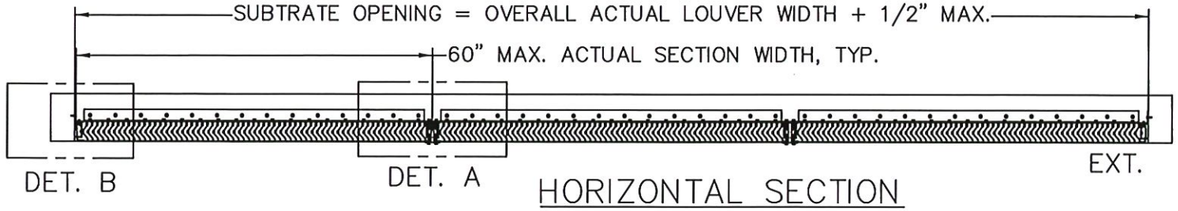
PRODUCT APPROVED
as complying with the Florida Building Code
NOA-No. 25-0922.02
Approval Date 03/19/2026
By
Miami-Dade Product Control

LUCAS A. TURNER LICENSE No 58201 STATE OF FLORIDA PROFESSIONAL ENGINEER

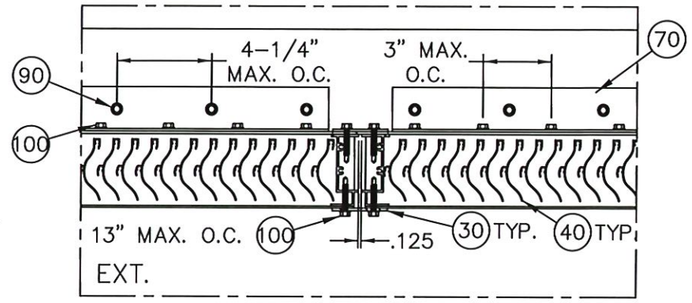
Nailor Industries Inc.
4714 Winfield Road
Houston, TX 77039
TEL: 281-590-1172
FAX: 281-590-3086
www.nailor.com

REV	BY	DESCRIPTION	DATE

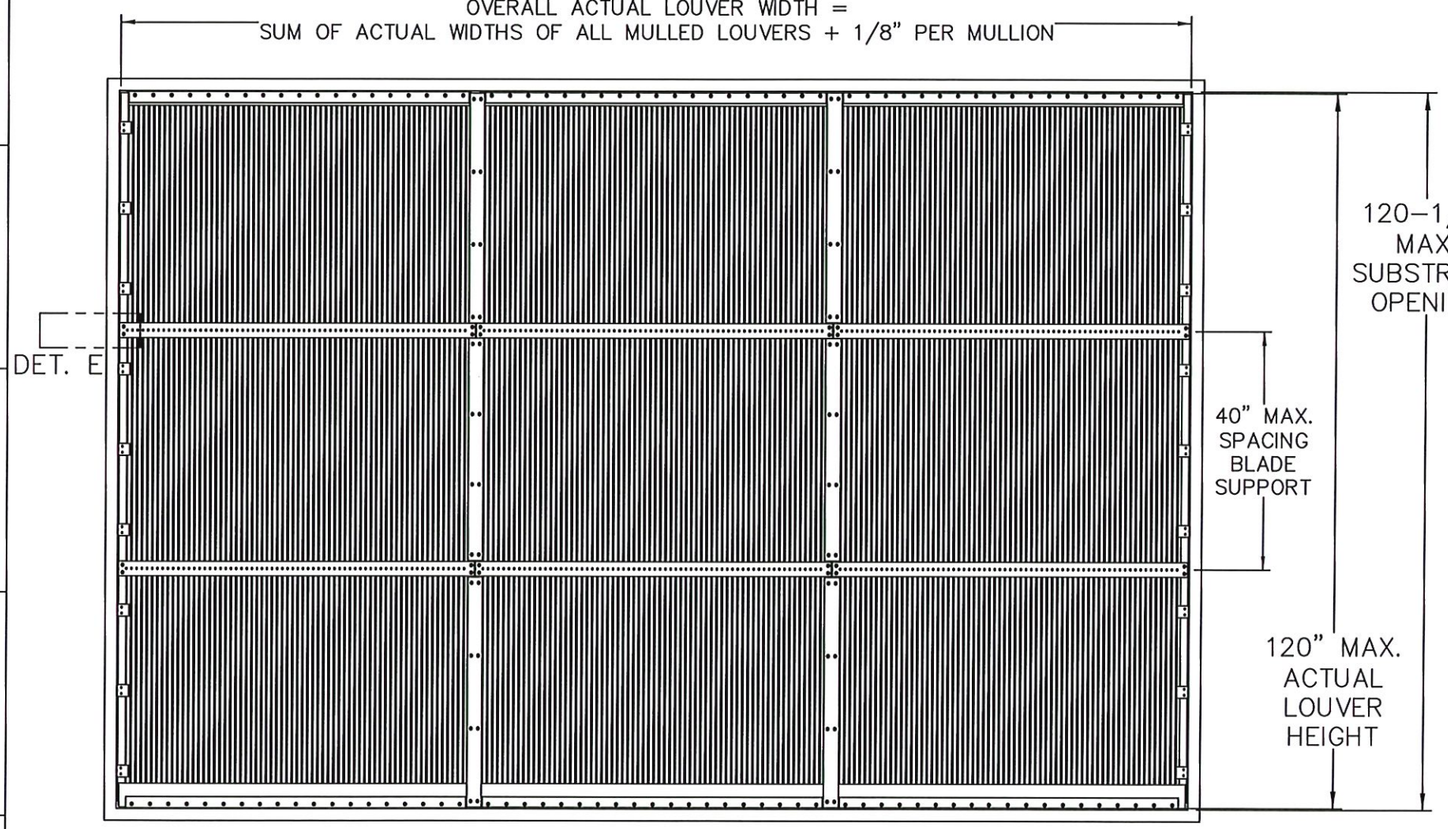
DWN BY: LAT | SCALE: NTS
DATE: 6/10/2025 | SHEET: 1 OF 6
SHEET DESCRIPTION: BOM, NOTES, TABLES | REV 0
DWG: 1603WDVM-NOA



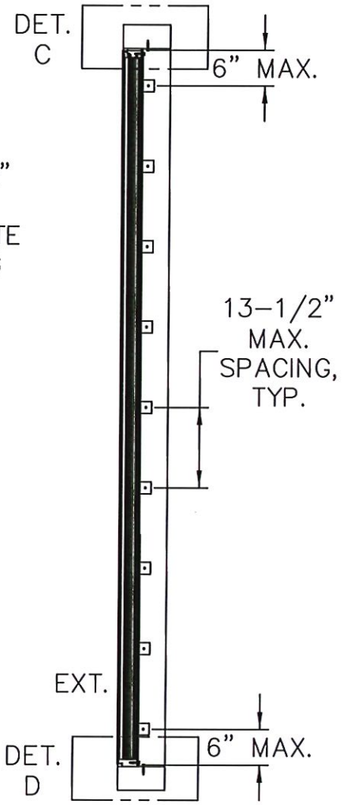
HORIZONTAL SECTION



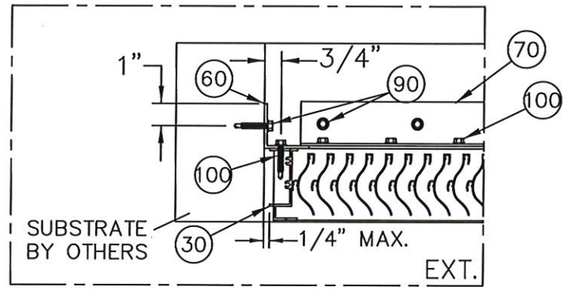
DETAIL A



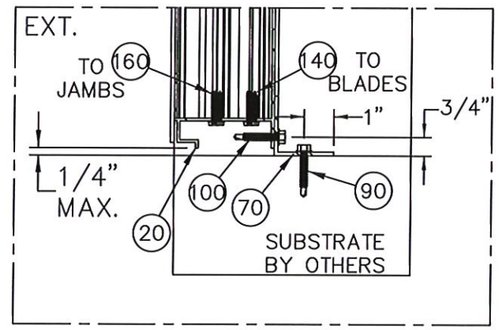
SAMPLE INTERIOR ELEVATION



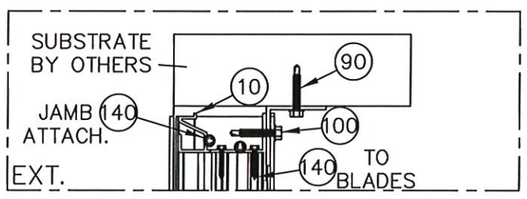
VERTICAL SECTION



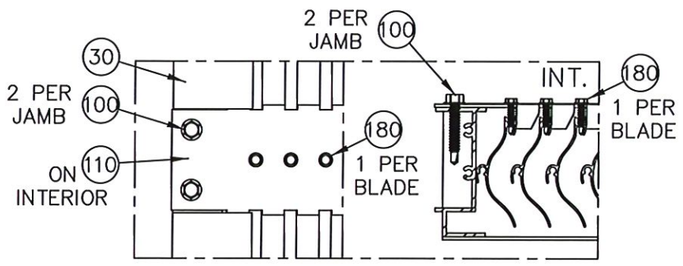
DETAIL B



DETAIL D



DETAIL C



DETAIL E

PRODUCT APPROVED
as complying with the Florida Building Code
NOA-No. 25-0922.02
Approval Date 03/19/2026
By
Miami-Dade Product Control

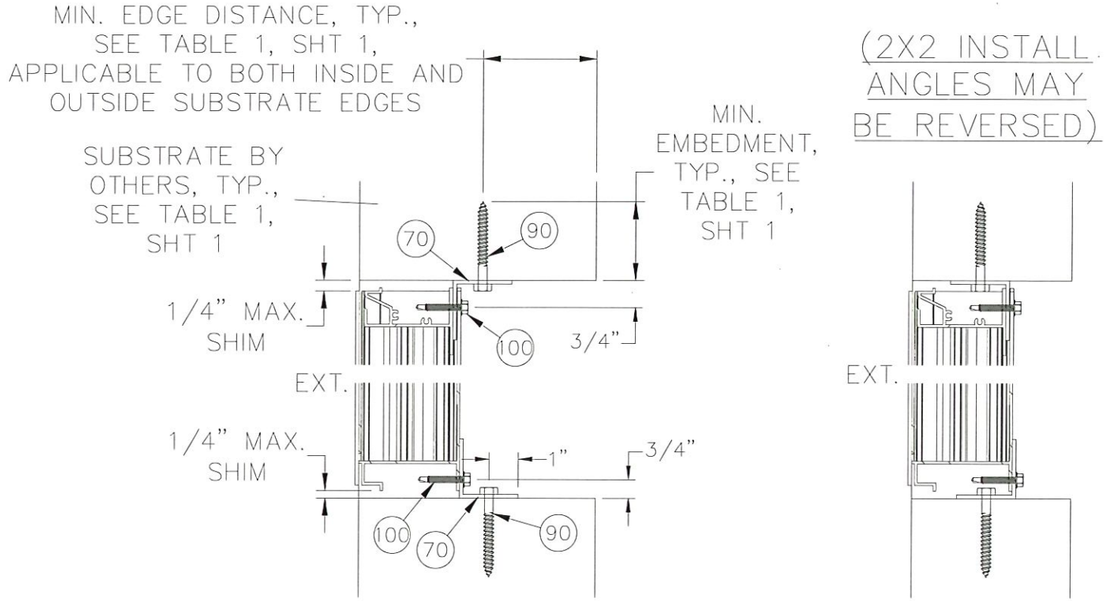
Lucas A. Turner, PE Ph. 941.380.1574
Turner Engineering & Consulting, Inc.
FL PE #58201 FBPE COA #29779
2428 Old Naches Gate Trl.
Sarasota, FL 34240

LUCAS A. TURNER LICENSE No 58201 STATE OF FLORIDA PROFESSIONAL ENGINEER

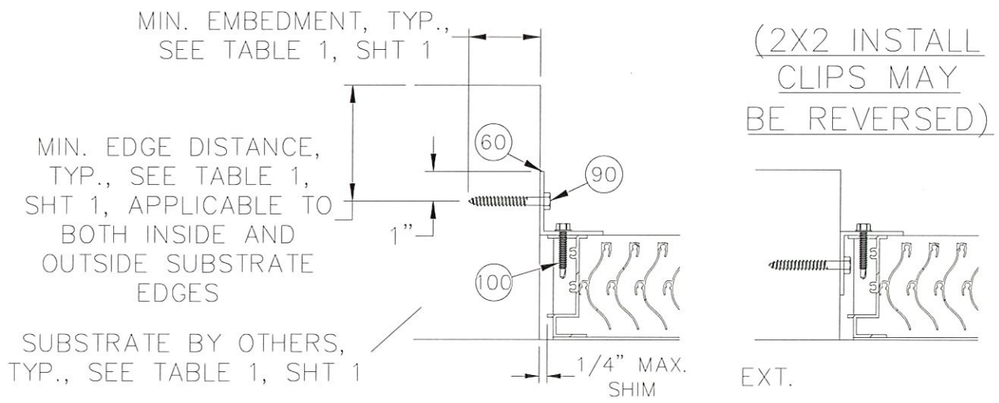
Nailor Industries Inc.
4714 Winfield Road
Houston, TX 77039
TEL: 281–590–1172
FAX: 281–590–3086
www.nailor.com

REV	BY	DESCRIPTION	DATE

DWN BY: LAT | SCALE: NTS
DATE: 6/10/2025 | SHEET: 2 OF 6
SHEET DESCRIPTION: ELEVATION, DETAILS | REV 0
DWG: 1603WDVM–NOA



TYPICAL HEAD/SILL INSTALLATION WITH CONTINUOUS 2X2 (ITEM 70) ANGLE TO SUBSTRATE (SEE ANCHOR SPACING SHEET 2)

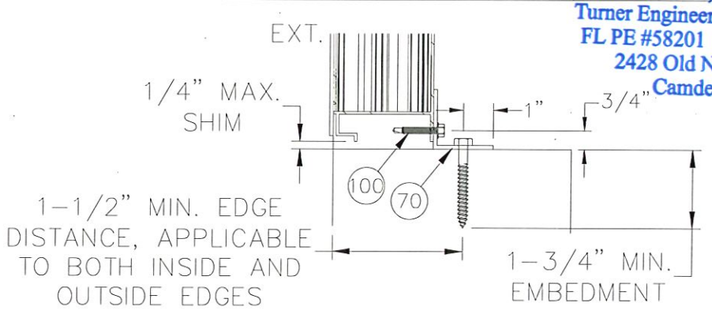


TYPICAL JAMB INSTALLATION WITH 2X2 CLIP (ITEM 60) ANGLE TO SUBSTRATE (SEE ANCHOR SPACING SHEET 2)

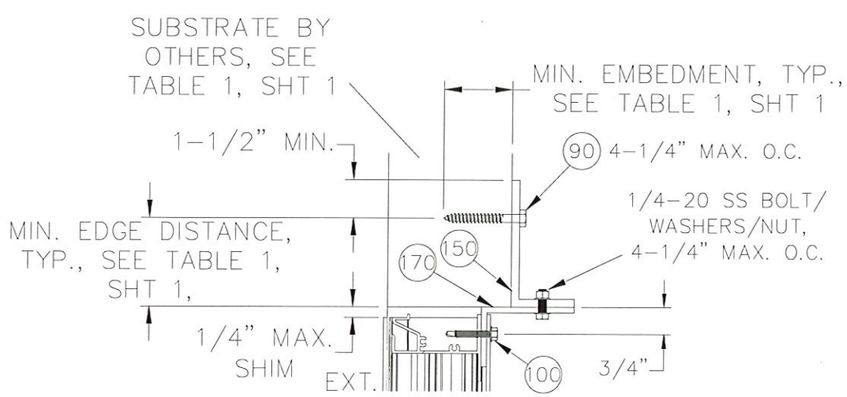
PRODUCT APPROVED
as complying with the Florida Building Code
NOA-No. 25-0922.02
Approval Date 03/19/2026
By
Miami-Dade Product Control

LUCAS A. TURNER LICENSE No 58201 STATE OF FLORIDA PROFESSIONAL ENGINEER

Lucas A. Turner, PE Ph. 941.380.1574
Turner Engineering & Consulting, Inc.
FL PE #58201 FBPE COA #29779
2428 Old Natchez Trace Trl.
Camden, TN 38320



TYPICAL SILL INSTALLATION TO TOP OF 6" MIN. DEPTH GROUT-FILLED MASONRY, SEE TABLE 2, SHEET 1, WITH 1/4" ULTRACON+ THROUGH CONTINUOUS 2X2 (ITEM 70) ANGLE TO SUBSTRATE (SEE ANCHOR SPACING SHEET 2)

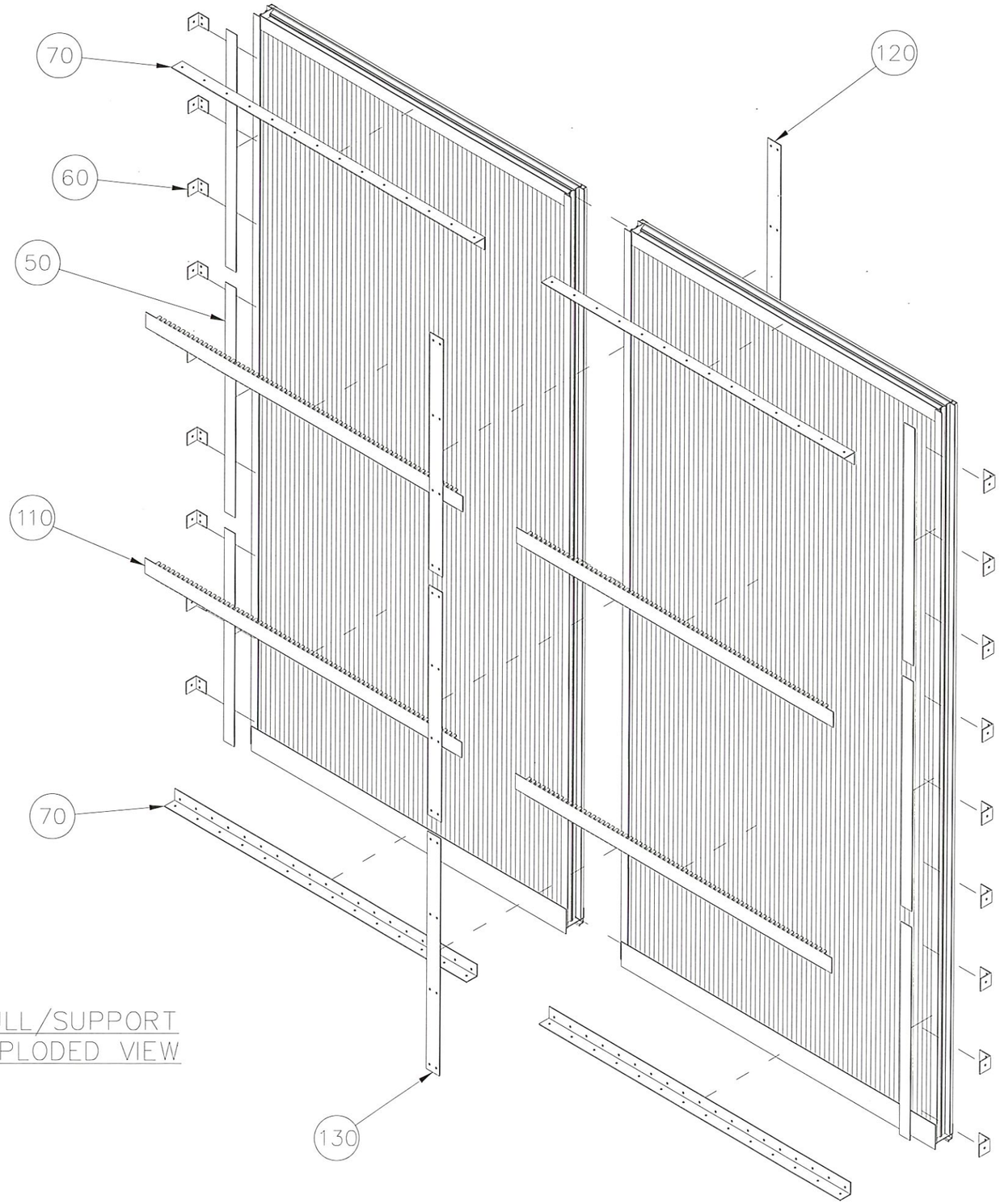


OPTIONAL 4" WALL DEPTH INSTALLATION WITH MOUNTING ANGLE, MAY BE USED HEAD/SILL/JAMB

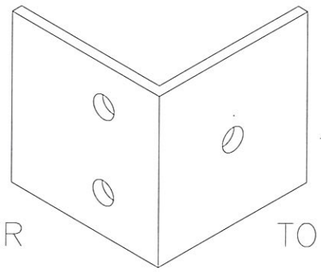
Nailor Industries Inc.
4714 Winfield Road
Houston, TX 77039
TEL: 281-590-1172
FAX: 281-590-3086
www.nailor.com

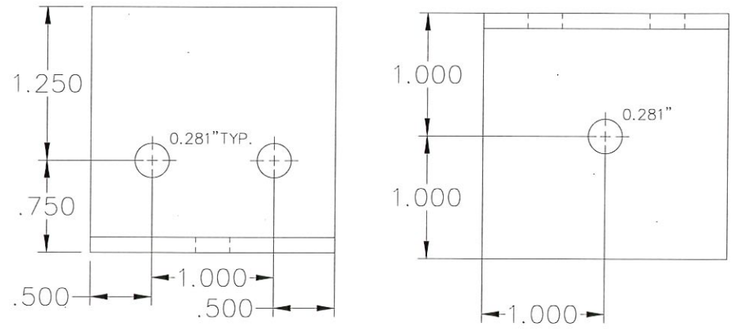
REV	BY	DESCRIPTION	DATE

DWN BY: LAT	SCALE: NTS
DATE: 6/10/2025	SHEET: 3 OF 6
SHEET DESCRIPTION: TYPICAL INSTALLATION	REV 0
DWG: 1603WDVM-NOA	



MULL/SUPPORT
EXPLODED VIEW





60 JAMB CLIP INSTALL
ANGLE DETAIL

Lucas A. Turner, PE Ph. 941.380.1574
Turner Engineering & Consulting, Inc.
FL PE #58201 FBPE COA #29779
2428 Old Natchez Trace Trl.
Camden, TN 38320

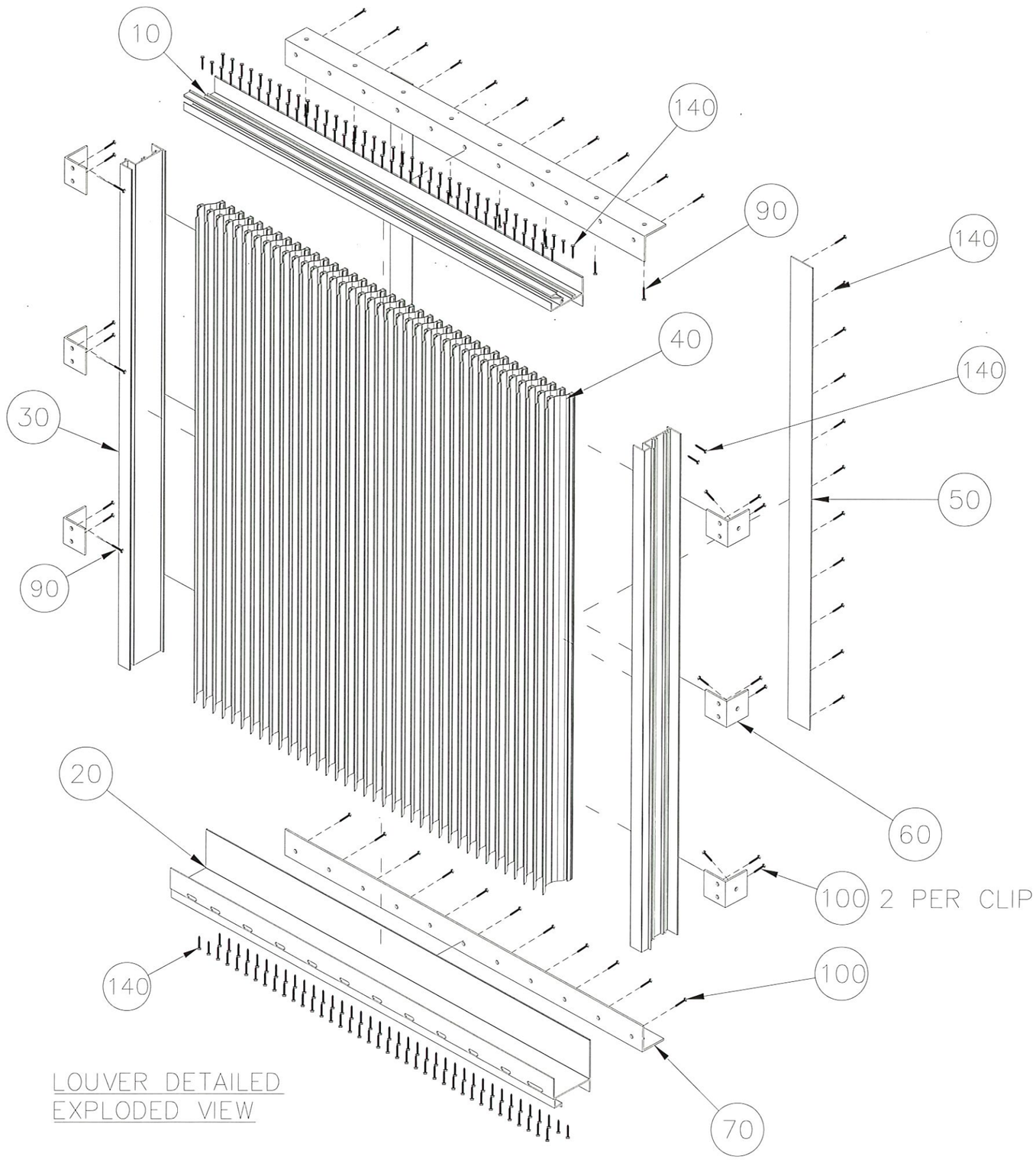
PRODUCT APPROVED
as complying with the Florida Building Code
NOA-No. 25-0922.02
Approval Date 03/19/2026
By
Miami-Dade Product Control

LUCAS A. TURNER LICENSE No 58201 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nailor Industries Inc.
4714 Winfield Road
Houston, TX 77039
TEL: 281-590-1172
FAX: 281-590-3086
www.nailor.com

REV	BY	DESCRIPTION	DATE

DWN BY: LAT	SCALE: NTS
DATE: 6/10/2025	SHEET: 4 OF 6
SHEET DESCRIPTION: EXPLODED VIEW	REV 0
DWG: 1603WDVM-NOA	



LOUVER DETAILED
EXPLODED VIEW

PRODUCT APPROVED
as complying with the Florida Building Code
NOA–No. 25–0922.02
Approval Date 03/19/2026
By RJ Thomas
Miami–Dade Product Control

Lucas A. Turner, PE Ph. 941.380.1574
Turner Engineering & Consulting, Inc.
FL PE #58201 FBPE COA #29779
2428 Old Natchez Trace Trl.
Camden, TN 38320

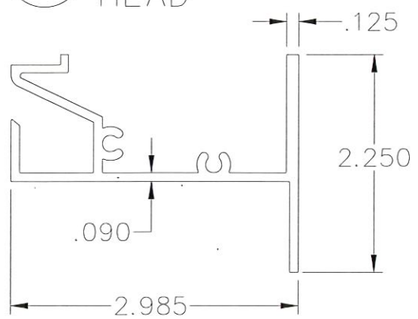
LUCAS A. TURNER LICENSE No 58201 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nailor Industries Inc.
4714 Winfield Road
Houston, TX 77039
TEL: 281–590–1172
FAX: 281–590–3086
www.nailor.com

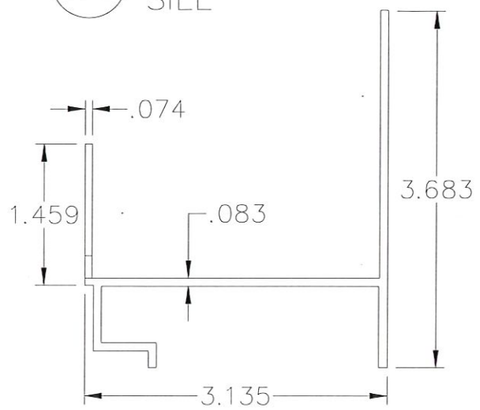
REV	BY	DESCRIPTION	DATE

DWN BY: LAT	SCALE: NTS
DATE: 6/10/2025	SHEET: 5 OF 6
SHEET DESCRIPTION: EXPLODED VIEW	REV 0
DWG: 1603WDVM–NOA	

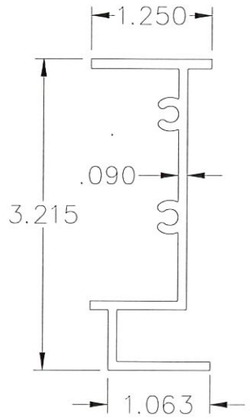
10 C6-242 HEAD



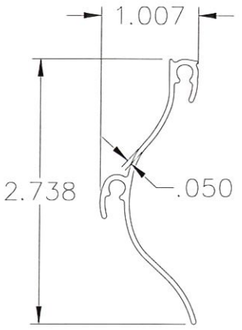
20 C6-243 SILL



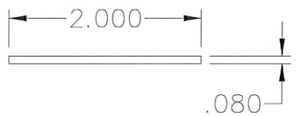
30 C6-244 JAMB



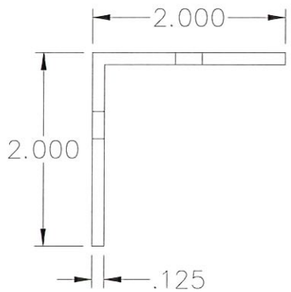
40 C6-245 BLADE



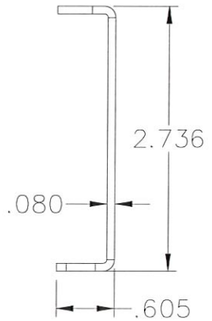
50 WATER STOP JAMB



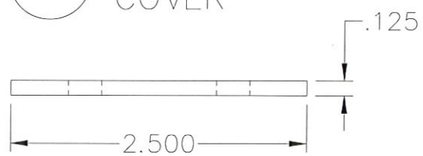
60 70 INSTALL ANGLE



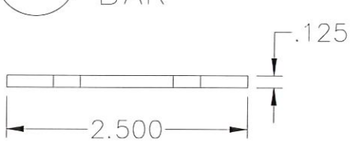
110 BLADE SUPPORT



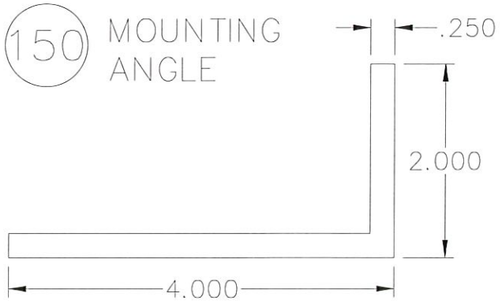
120 MULLION COVER



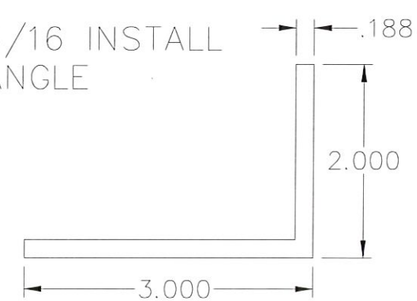
130 MULLION BAR



150 MOUNTING ANGLE



170 3/16 INSTALL ANGLE



Lucas A. Turner, PE Ph. 941.380.1574
Turner Engineering & Consulting, Inc.
FL PE #58201 FBPE COA #29779
2428 Old Natchez Trace Trl.
Camden, TN 38320

PRODUCT APPROVED
as complying with the Florida Building Code
NOA-No. 25-0922.02
Approval Date 03/19/2026
By
Miami-Dade Product Control

LUCAS A. TURNER LICENSE No 58201 STATE OF FLORIDA PROFESSIONAL ENGINEER

Nailor Industries Inc.
4714 Winfield Road
Houston, TX 77039
TEL: 281-590-1172
FAX: 281-590-3086
www.nailor.com

REV	BY	DESCRIPTION	DATE

DWN BY: LAT	SCALE: NTS
DATE: 6/10/2025	SHEET: 6 OF 6
SHEET DESCRIPTION: PROFILES	REV 0
DWG: 1603WDVM-NOA	