



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/building

N.I. Illinois, LLC dba SAFE-AIR DOWCO
1855 South 54th Ave.
Cicero, IL 60804

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 1605WDVM Aluminum Louver– L.M.I.

APPROVAL DOCUMENT: Drawing No. **1605WDVM**, titled "1605WDVM Louver", sheets 1 through 11 of 11, prepared by Rice Engineering, dated 09/11/18, signed and sealed by Wayne K. Helmila, P.E., bearing the Miami-Dade County Product Control Renewal 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, state, model/ series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

LIMITATION: This system is to be installed in a location where the room behind the louver is designed to drain water penetrating into the room, and the room will house water resistant/waterproof equipment, components, or supplies.

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 **renews NOA No. 21-0825.06** 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 **Carlos M. Utrera, P.E.**



NOA No. 23-0928.05
Expiration Date: August 30, 2028
Approval Date: November 9, 2023
Page 1

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. 18-0117.14)
2. Drawing No. **1605WDVM**, titled "1605WDVM Louver", sheets 1 through 11 of 11, dated 09/11/18, prepared by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E. *(Submitted under NOA No. 18-0217.04)*

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 1605 WDVM Louver System, prepared by Intertek, Test Report No. **H4892.01-801-18-R4**, dated 09/25/17 and revised on 05/18/18, signed and sealed by Tyler Westerling, P.E.
(Submitted under NOA No. 18-0217.04)
2. Test Report on Wind Driven Rain Resistance per TAS 100(A)-95 on a Model 1605WDVM Vertical Aluminum Louver, prepared by Intertek, Test Report No. **H0211.02-801-18 R1**, dated 09/27/17 and revised on 11/21/17, signed and sealed by Tyler Westerling, P.E.
(Submitted under NOA No. 18-0217.04)
3. Test Report on High Velocity Wind Driven Rain Resistance per ANSI/AMCA 550-09 on a Model 1605WDVM Vertical Aluminum Louver, prepared by Intertek/ATI, Test Report No. **H0211.01-801-18-R3**, dated 04/20/17 and revised on 11/21/17, signed and sealed by Tyler Westerling, P.E. *(Submitted under NOA No. 18-0217.04)*

C. CALCULATIONS

1. Louver structural calculations dated 11/03/17, prepared by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E. *(Submitted under NOA No. 18-0217.04)*

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 23-0928.05
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

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

F. STATEMENTS

1. Statement letter of code conformance to the **FBC 6th Edition (2017)** issued by Rice Engineering, dated 04/16/18, signed and sealed by Wayne K. Helmila, P.E.
(Submitted under NOA No. 18-0217.04)
2. Statement letter of no financial interest issued by Rice Engineering, dated 04/16/18, signed and sealed by Wayne K. Helmila, P.E.
(Submitted under NOA No. 18-0217.04)
3. Private Labeling Agreement document in conformance to Product Control guidelines dated December 3, 2018, signed by Steve Nailor and David Soden.
(Submitted under NOA No. 18-0217.04)

2. EVIDENCE SUBMITTED UNDER NOA # 21-0825.06

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 **7th edition (2020) FBC**, issued by Rice Engineering, dated 09/16/21, signed and sealed by Wayne K. Helmila, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 23-0928.05
Expiration Date: August 30, 2028
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DRAWING INDEX

- 1. INDEX TO DRAWINGS AND NOTES
- 2. I605WDVM LOUVER - ELEVATION
- 3. I605WDVM LOUVER - HEAD AND SILL DETAIL
- 4. I605WDVM LOUVER - SKINNY WALL APPLICATION HEAD AND SILL DETAIL
- 5. I605WDVM LOUVER - JAMB AND MULLION DETAIL
- 6. I605WDVM LOUVER - BLADE STRAP DETAIL
- 7. I605WDVM LOUVER - BAFFLE/ WEEP DETAIL
- 8. I605WDVM LOUVER - SEALANT DETAIL
- 9. I605WDVM LOUVER - PART PROFILES
- 10. I605WDVM LOUVER - BILL OF MATERIAL AND GENERAL NOTES
- 11. I605WDVM LOUVER - FASTENER SCHEDULE


NOTES:


- 1. THE I605WDVM HAS BEEN TESTED IN ACCORDANCE WITH THE MIAMI-DADE COUNTY PROTOCOLS: TAS-100 A, TAS-201, TAS-202, & TAS-203 FOR WIND DRIVEN RAIN, LARGE MISSILE IMPACE, UNIFORM PRESSURE, AND CYCLIC WIND PRESSURE.
- 2. THIS LOUVER SYSTEM IS APPROVED FOR APPLICATIONS WITH DESIGN PRESSURES OF +/- 130 PSF OR LESS.
- 3. THIS LOUVER SYSTEM IS NON-BEARING AND IS NOT DESIGNED TO WITHSTAND BUILDING DEAD LOADS.
- 4. LOUVER ANCHORS ARE REVIEWED FOR ATTACHMENT INTO STEEL, CONCRETE, MASONRY, OR TIMBER STRUCTURE. MINIMUM EDGE DISTANCE AND EMBEDMENT REQUIREMENTS ARE SHOWN. SAFE AIR DOES NOT DETERMINE THE STRUCTURE INTERGRITY OF THE SUBSTRUCTURE.
- 5. MAXIMUM SINGLE SECTION SIZE: 72" WIDE X 120" HIGH OR 120" WIDE X 72" HIGH.
- 6. MAXIMUM ASSEMBLED LOUVER SIZE UNLIMITED WIDE X 120" HIGH MAX. MULLION SPACING IS 72".
- 7. SECTIONS OR ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDED A SUITIBLE STRUCTURE STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FOR THE LOUVER.

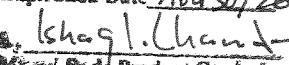
TESTS PREFORMED:
TAS-100 (A) WIND DRIVEN RAIN RESISTANCE
TAS-201 LARGE MISSILE IMPACT
TAS-202 UNIFORM STATIC AIR PRESSURE TEST
TAS-203 CYCLIC WIND PRESUSRE TEST
DESIGN PRESSURE RATING 130 PSF

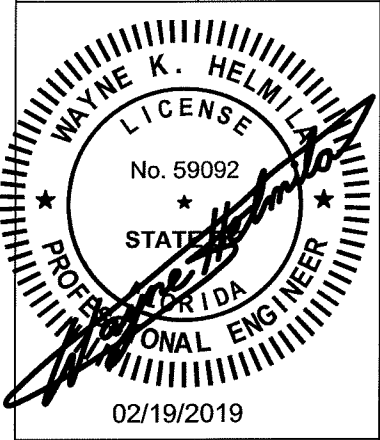
DWN BY: f cortinas	CHK BY: Mastourian
DATE: 9/11/2018	SCALE: NTS
SHEET: 1 OF 11	
DWG NO: I605WDVM	REV -

 DOWCO N ILLINOIS, LLC. 1855 SOUTH 54TH AVE. CICERO, IL 60804 Tel. 708-652-9100 Fax 708-652-9100	TITLE: I605WDVM LOUVER INDEX
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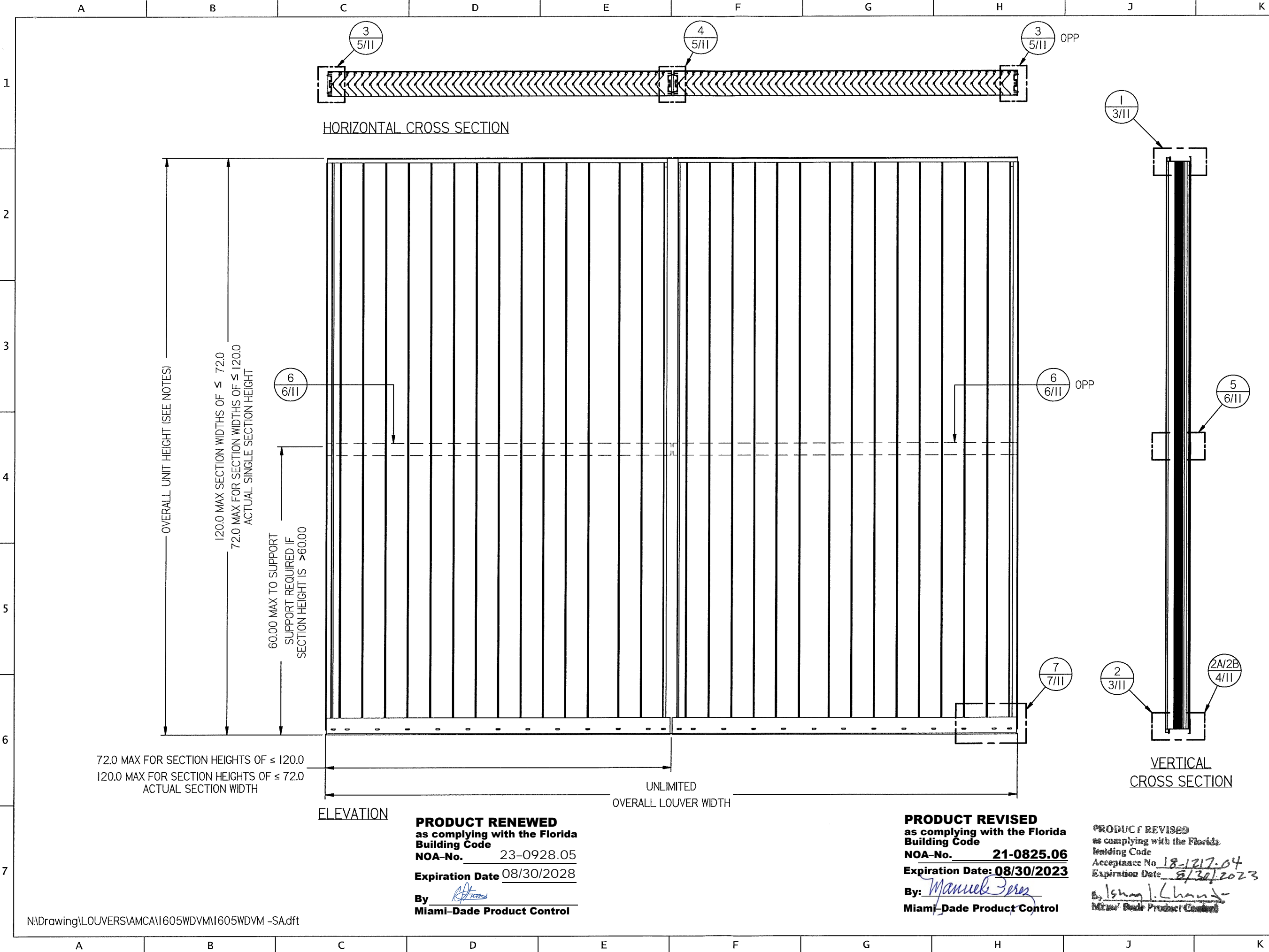
PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 23-0928.05
Expiration Date 08/30/2028
By 
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
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NOA-No. 21-0825.06
Expiration Date: 08/30/2023
By: 
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as complying with the Florida
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Acceptance No. 18-1217-04
Expiration Date 08/30/2023
By: 
Miami-Dade Product Control



RICE ENGINEERING 105 School Creek TrailLuxemburg, WI 54217Phone: (920) 617-1042Fax: (920) 617-1100www.rice-	Florida Firm No: F-01000005061Certificate of Authorization: #9090Wayne K. HelmilaRegistration No: 59092
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HORIZONTAL CROSS SECTION

ELEVATION

VERTICAL CROSS SECTION

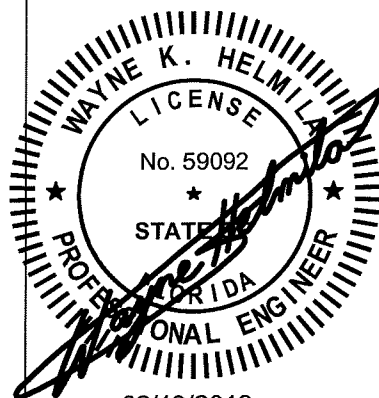
PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 23-0928.05
Expiration Date 08/30/2028
By *[Signature]*
Miami-Dade Product Control

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NI ILLINOIS, LLC.
1855 SOUTH 54TH AVE. CICERO, IL 60804
Tel. 708-652-9100 Fax 708-652-9100



RICE
ENGINEERING

105 School Creek Trail
Luxemburg, WI 54217
Phone: (920) 617-1042
Fax: (920) 617-1100
www.rice-inc.com

Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

DWN BY: fcortinas CHK BY: Mastourian

DATE: 9/11/2018

SCALE: NTS

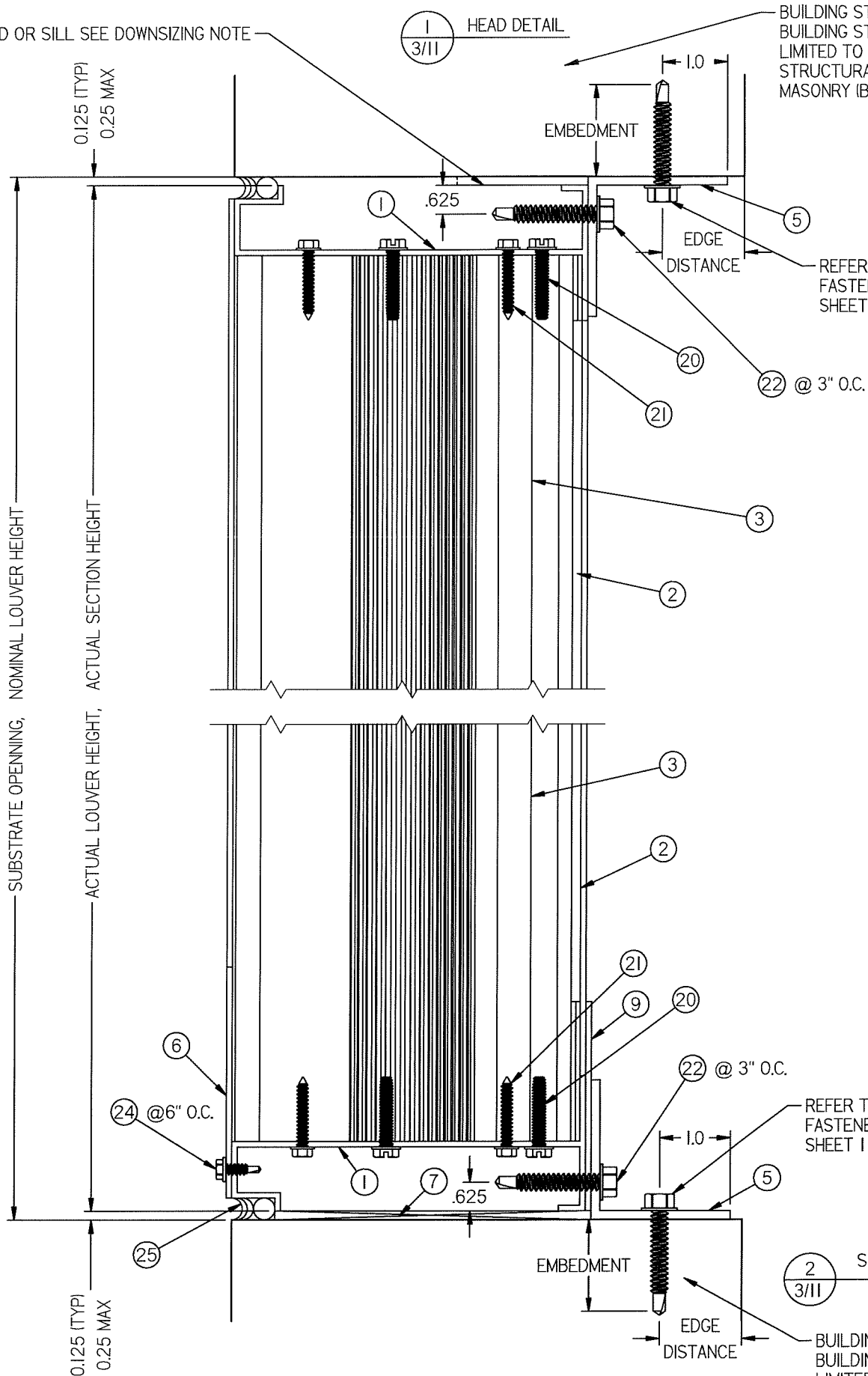
SHEET: 2 OF 11

TITLE:
1605WDVM LOUVER
ELEVATION

DWG NO:

1605WDVM

ALTERNATE ORIENTATION OF ITEM 5. HEAD OR SILL SEE DOWNSIZING NOTE



NOTE:
TO ALLOW FOR SUBSTRATE ANCHOR HEAD CLEARANCE, LOUVER HEIGHT DOWNSIZING (UNDERCUT) OF UP TO 0.25 TOTAL PER END (0.50 OVERALL TOTAL) IS ALLOWABLE. DOWNSIZING OF 0.125 PER END (0.25 OVERALL TOTAL) FROM ACTUAL HEIGHT IS STANDARD. ONLY ENDS WITH ALTERNATE ANCHOR ORIENTATION MAY REQUIRE ADDITIONAL DOWNSIZING, BUT THE 0.125 STANDARD DOWNSIZING SHOULD ALLOW FOR ALTERNATE ANCHOR ORIENTATION SETUP CLEARANCES. THERE IS NO NEED FOR ADDITIONAL DOWNSIZING AT THE JAMBS WHEN USING ALTERNATE ANCHOR ORIENTAION. CONSULT YOUR LOCAL REP OR THE MANUFACTURER IF ASSISTANCE IS NEEDED FOR PROPER DOWNSIZING FOR YOUR APPLICATION.

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Expiration Date: 08/30/2023
By: *[Signature]*
Miami-Dade Product Control

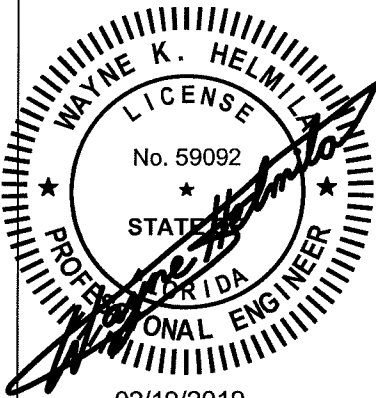
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-1217.04
Expiration Date 8/30/2023
By: *[Signature]*
Miami-Dade Product Control



1855 SOUTH 54TH AVE. CICERO, IL 60804
Tel. 708-652-9100 Fax 708-652-9100

TITLE:

1605WDVM LOUVER
HEAD AND SILL DETAIL

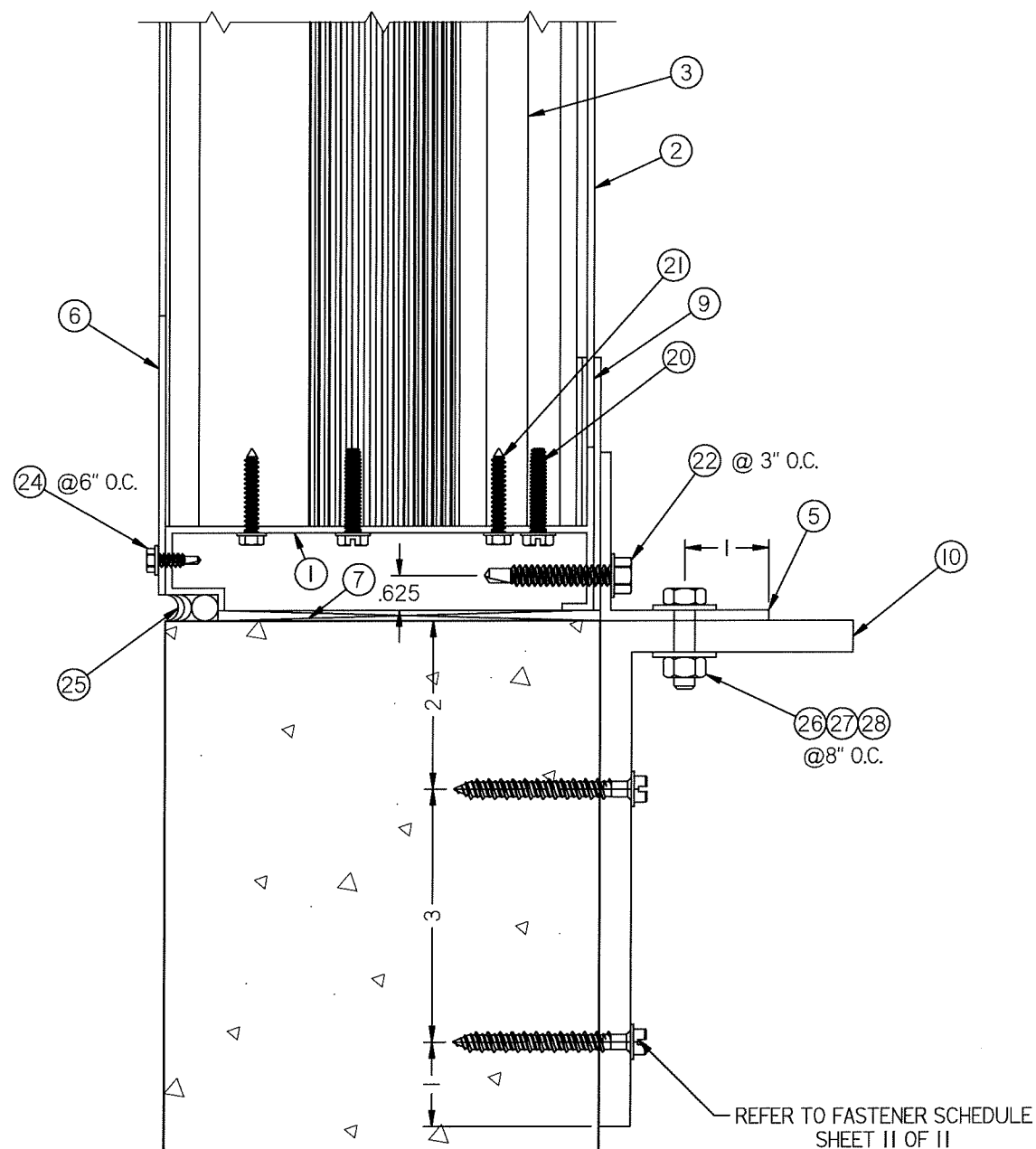


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Certificate of Authorization: #9090
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Registration No: 59092

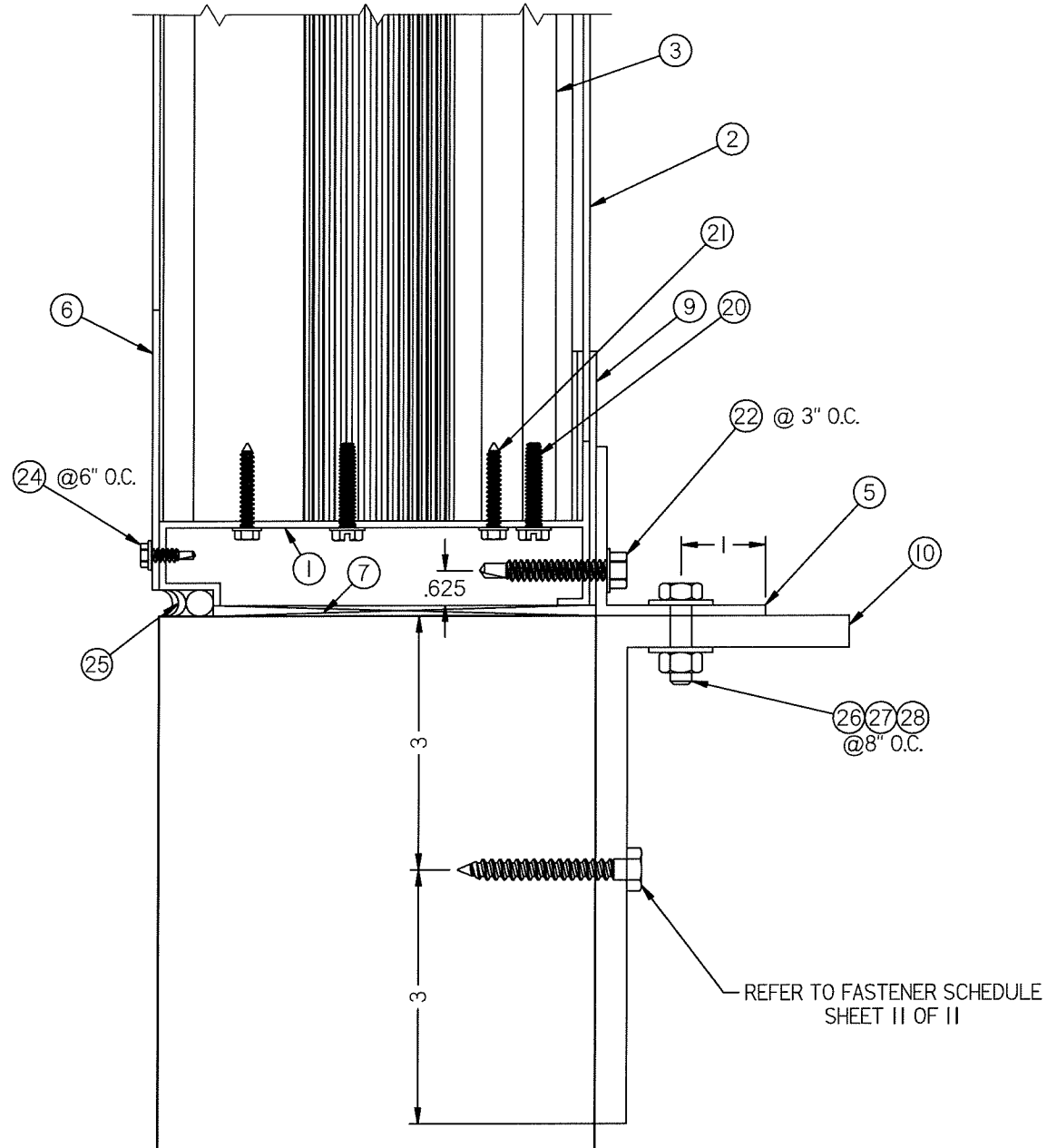
GROUT FILLED CMU
(BY OTHERS)

WOOD / STEEL I6G.A.
STEEL A-36 / CONCRETE
(BY OTHERS)



SILL DETAIL
2A
4/11
SKINNY WALL

PRODUCT RENEWED
as complying with the Florida
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Expiration Date 08/30/2028
By *[Signature]*
Miami-Dade Product Control



SILL DETAIL
2B
4/11
SKINNY WALL

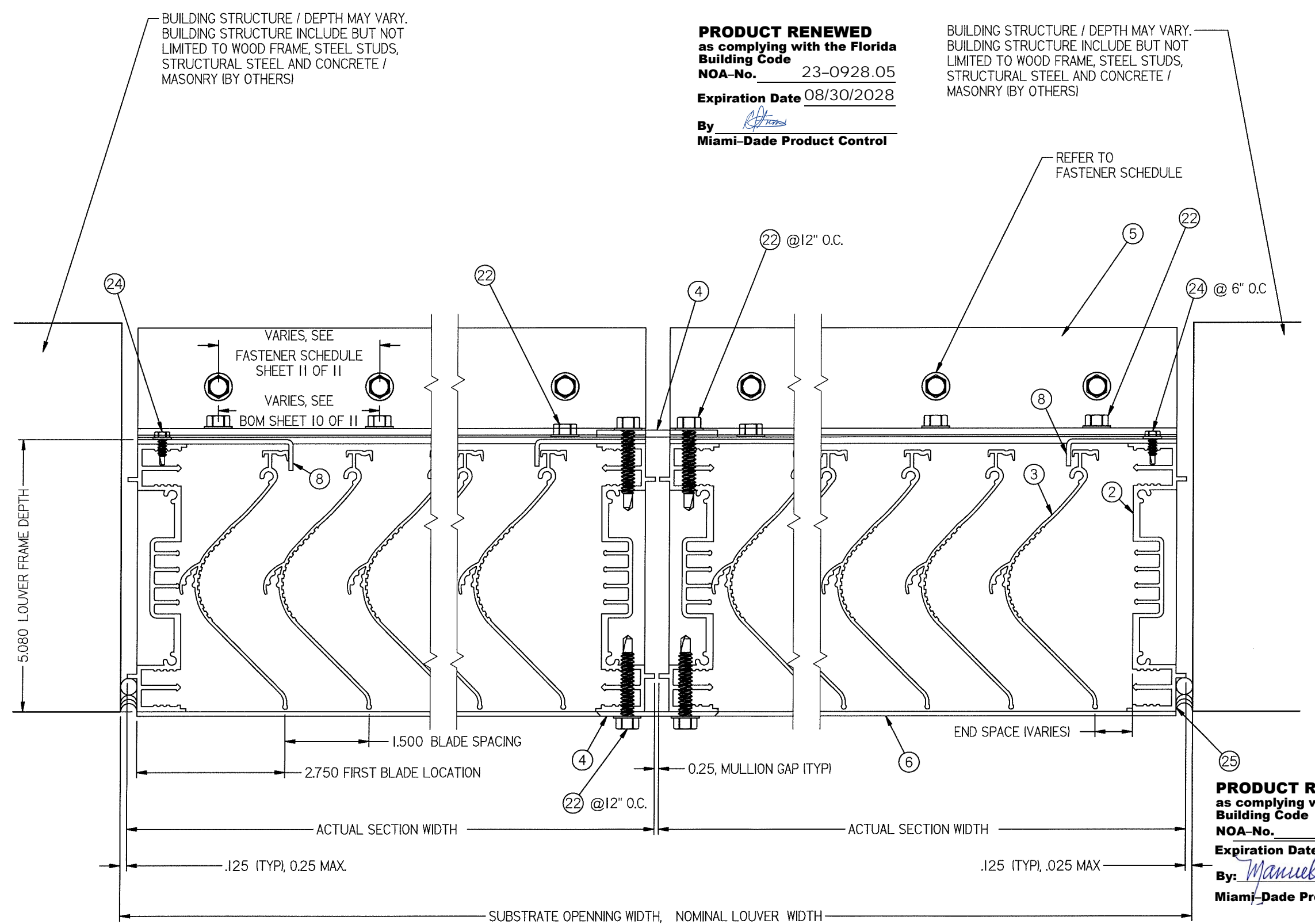
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0825.06
Expiration Date: 08/30/2023
By *[Signature]*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-1217.04
Expiration Date 8/30/2023
By *[Signature]*
Miami-Dade Product Control

DWN BY: fcortinas	CHK BY: Mastourian
DATE: 9/11/2018	SCALE: NTS
SHEET: 4 OF 11	
DWG NO: 1605WDVM	
REV -	

 NI ILLINOIS, LLC. 1855 SOUTH 54TH AVE. CICERO, IL 60804 Tel. 708-652-9100 Fax 708-652-9100	TITLE: 1605WDVM LOUVER SKINNY WALL APPLICATION HEAD AND SILL DETAIL
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COA: 9090
RICE ENGINEERING 105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092



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By *[Signature]*
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BUILDING STRUCTURE / DEPTH MAY VARY.
BUILDING STRUCTURE INCLUDE BUT NOT
LIMITED TO WOOD FRAME, STEEL STUDS,
STRUCTURAL STEEL AND CONCRETE /
MASONRY (BY OTHERS)

3
5/11 JAMB DETAIL

4
5/11 MULLION DETAIL

3
5/11 JAMB DETAIL OPP.

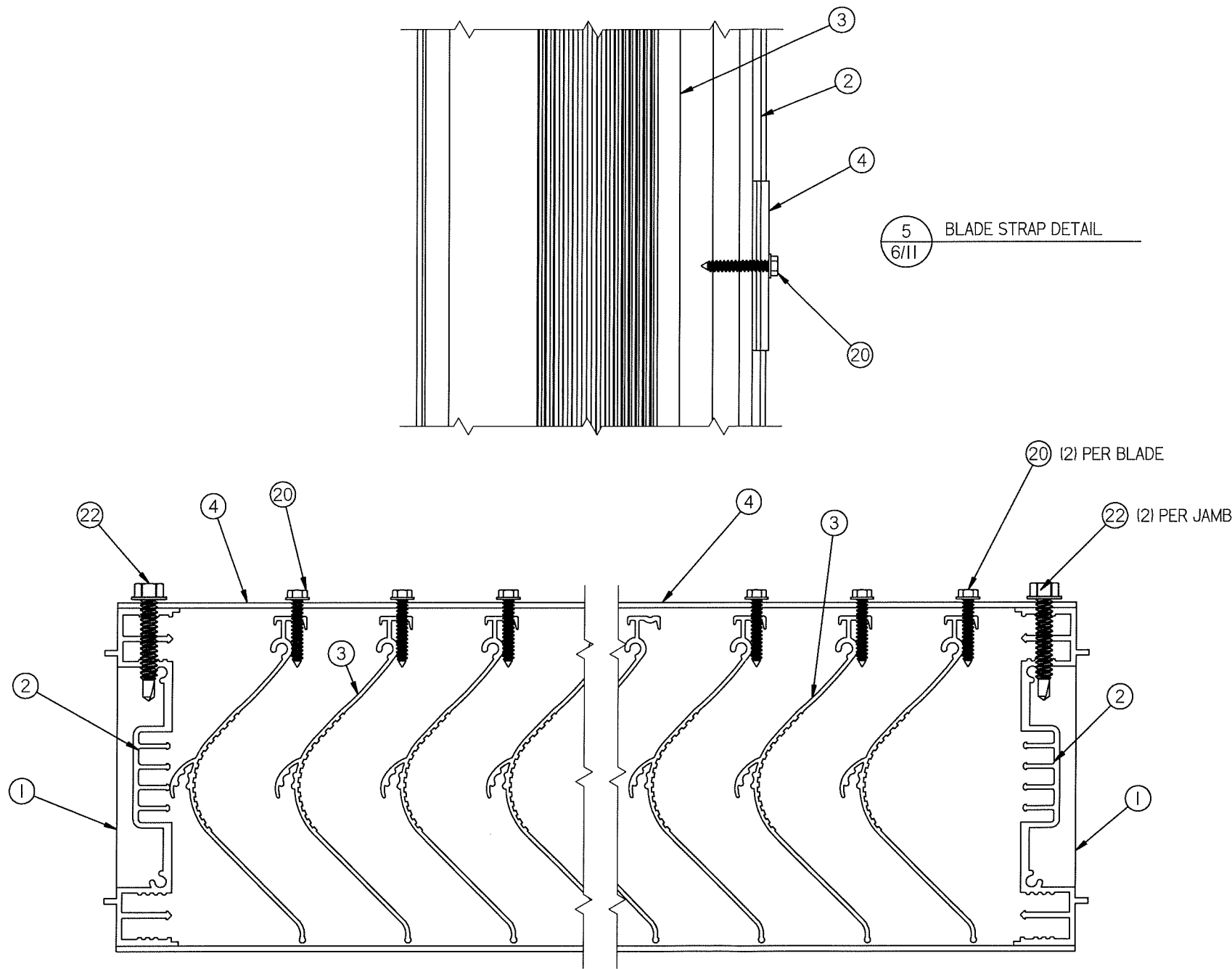
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0825.06
Expiration Date: 08/30/2023
By: *Manuel Perez*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-1217.04
Expiration Date: 8/30/2023
By: *[Signature]*
Miami-Dade Product Control

DWN BY: fcortinas		CHK BY: Mastourian
DATE: 9/11/2018		SCALE: NTS
SHEET: 5 OF 11		
DWG NO: 1605WDVM		
REV -		

 NI ILLINOIS, LLC. 1855 SOUTH 54TH AVE. CICERO, IL 60804 Tel. 708-652-9100 Fax 708-652-9100	TITLE: 1605WDVM LOUVER JAMB AND MULLION DETAIL
--	--

 02/19/2019 COA: 9090	RICE ENGINEERING 105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092
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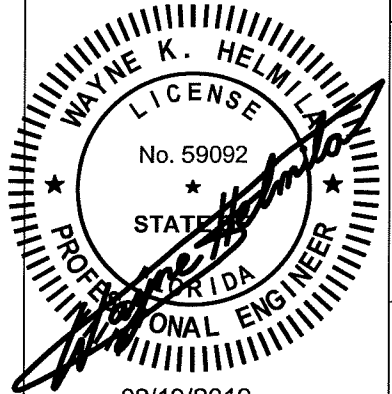
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By: *[Signature]*
Miami-Dade Product Control

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By: *Manuel Perez*
Miami-Dade Product Control

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By: *[Signature]*
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ENGINEERING

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Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

DWN BY: fcoortinas CHK BY: Mastourian

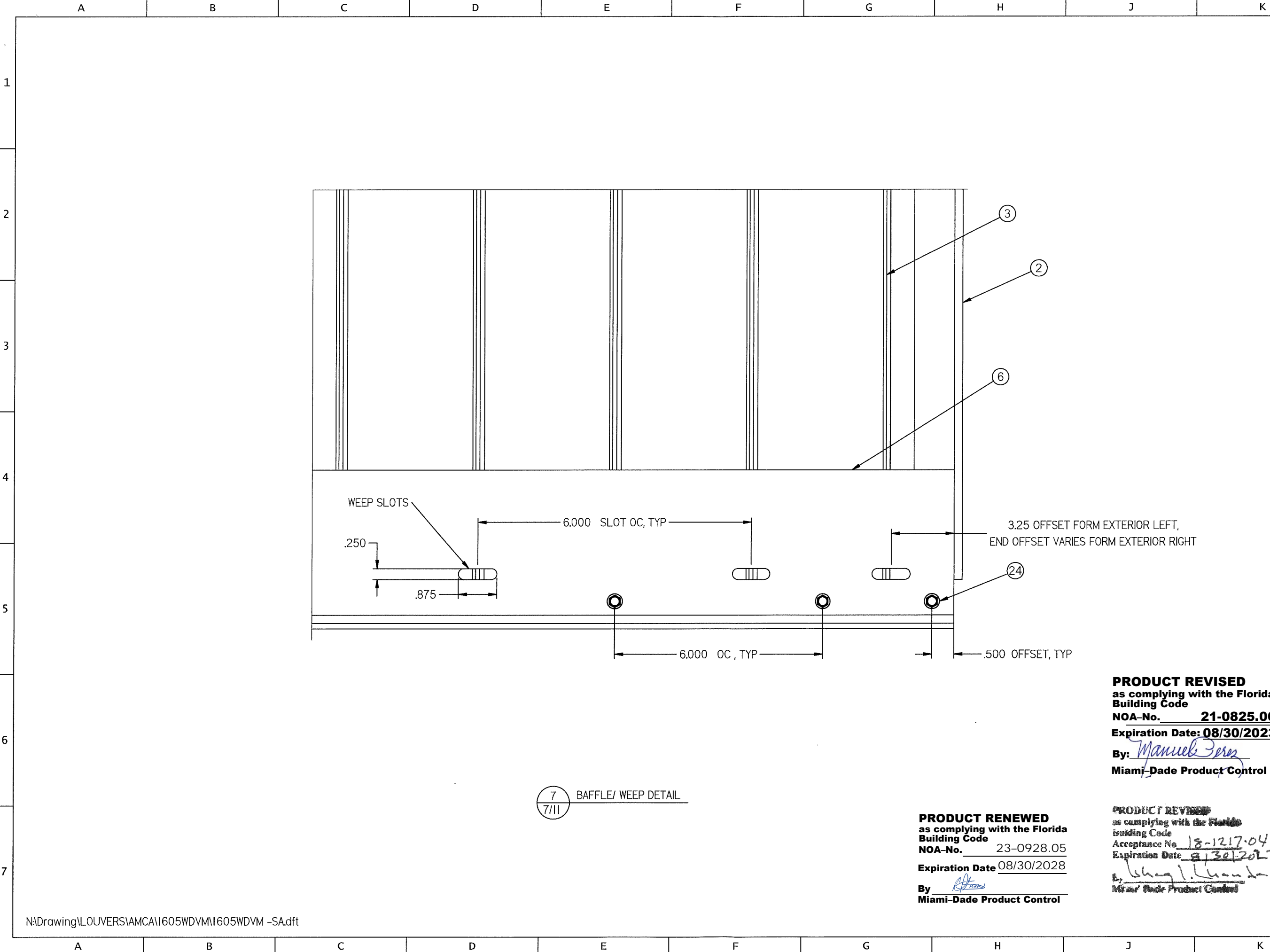
DATE: 9/11/2018

SCALE: NTS

SHEET: 6 OF 11

DWG NO:

1605WDVM



N:\Drawing\LOUVERS\AMCA\1605WDVM\1605WDVM -SA.dft

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0825.06
Expiration Date: 08/30/2023
By: Manuel Perez
Miami-Dade Product Control

PRODUCT RENEWED
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Building Code
NOA-No. 23-0928.05
Expiration Date 08/30/2028
By: R. Torres
Miami-Dade Product Control

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By: Manuel Perez
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02/19/2019

COA: 9090

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Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

DWN BY: fcoortinas

DATE: 9/11/2018

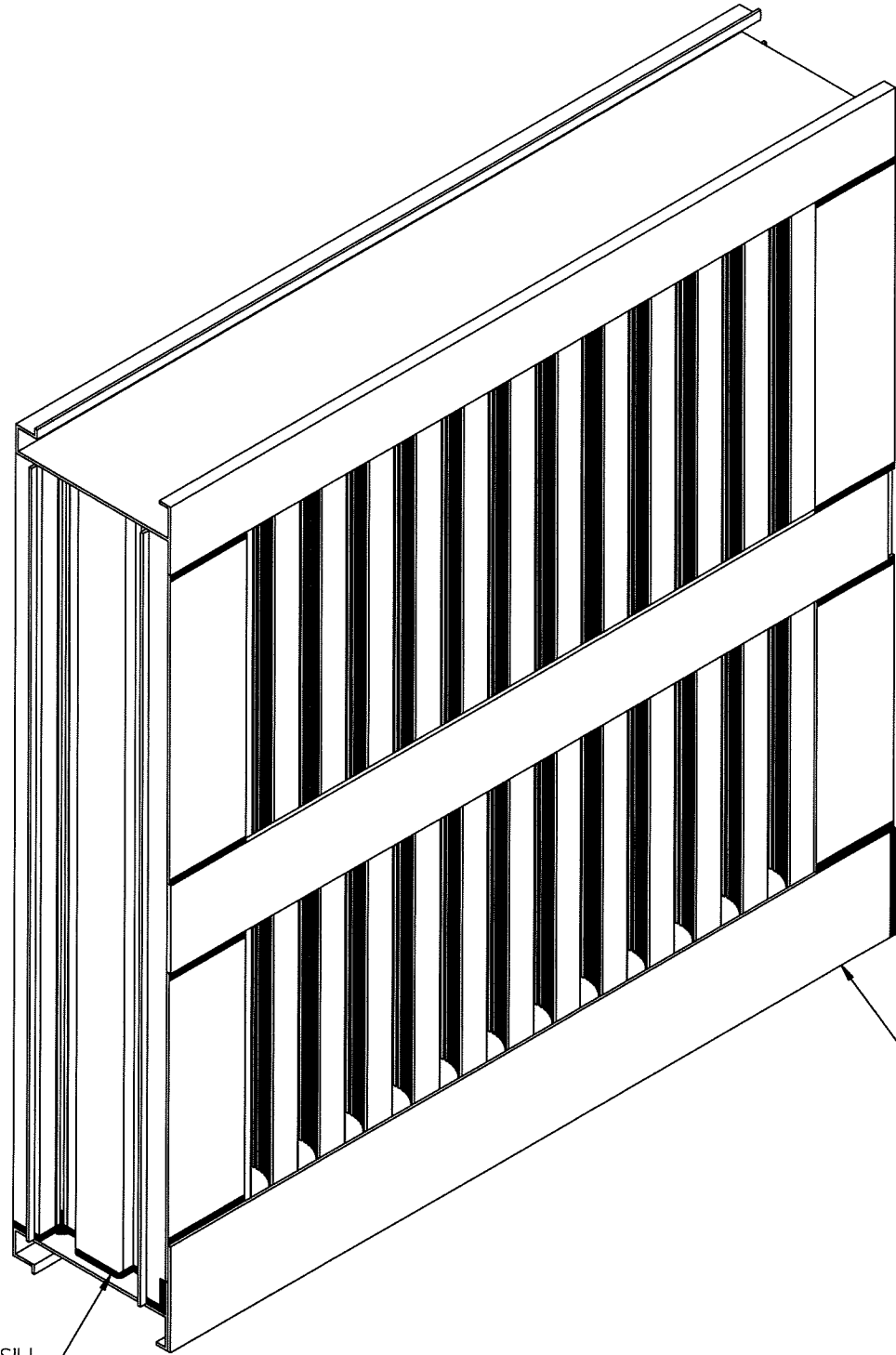
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SHEET: 7 OF 11

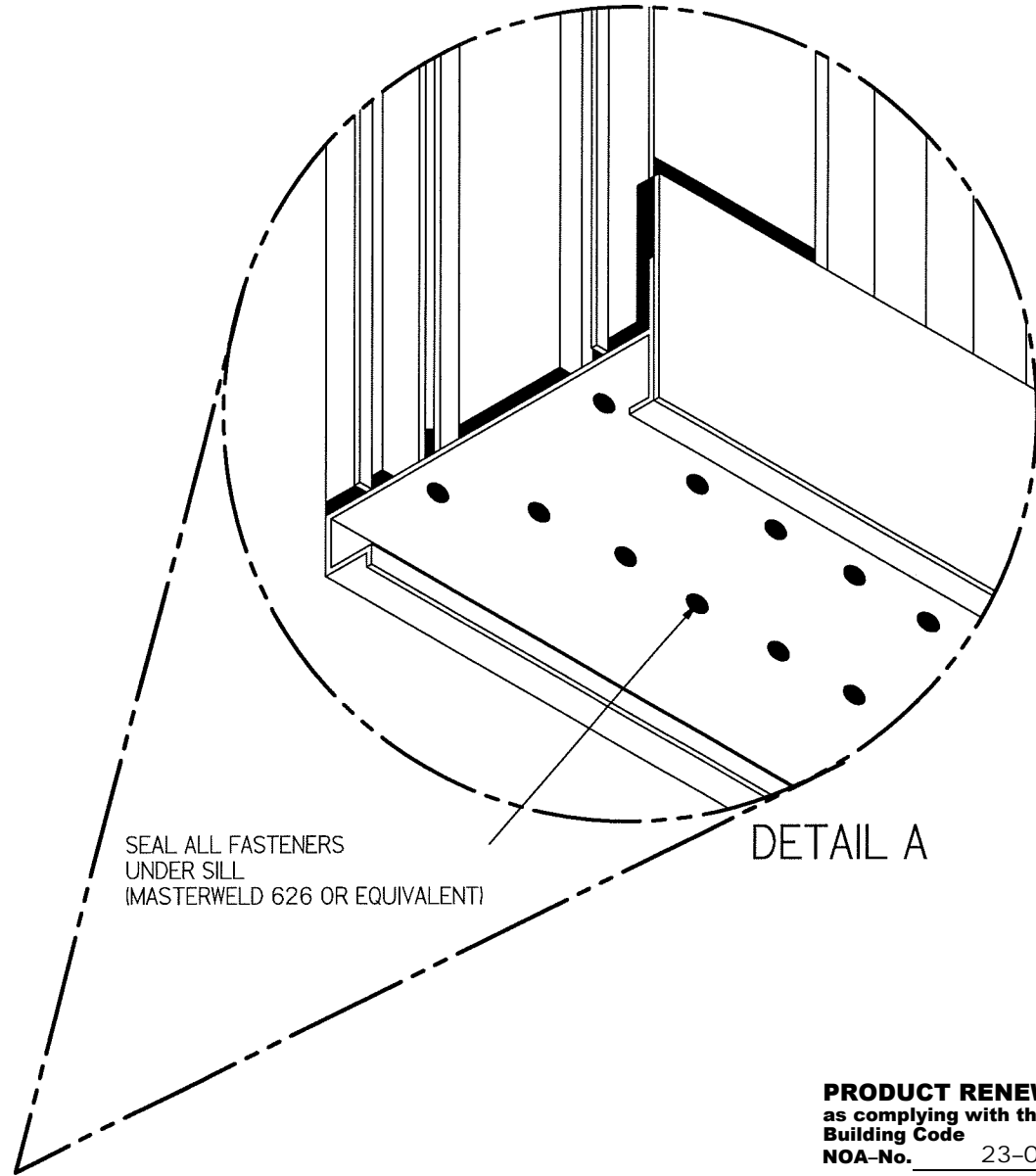
CHK BY: Mastourian

REV

DWG NO: 1605WDVM



SEAL ALL FASTENERS
UNDER SILL
(MASTERWELD 626 OR EQUIVALENT)



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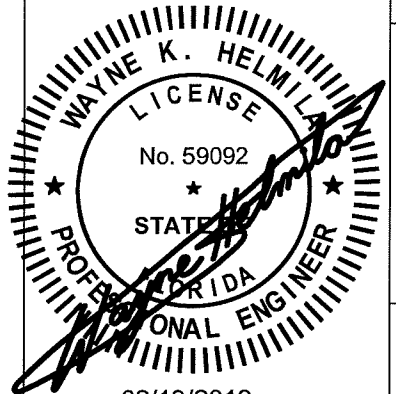
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By: Manuel Perez
Miami-Dade Product Control

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By: [Signature]
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NI ILLINOIS, LLC.
1855 SOUTH 54TH AVE. CICERO, IL 60804
Tel. 708-652-9100 Fax 708-652-9100

TITLE:
**1605WDVM LOUVER
SEALANT DETAIL**



02/19/2019

COA: 9090

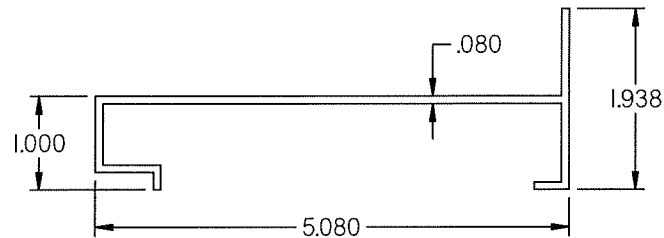
RICE
ENGINEERING

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Phone: (920) 617-1042
Fax: (920) 617-1100
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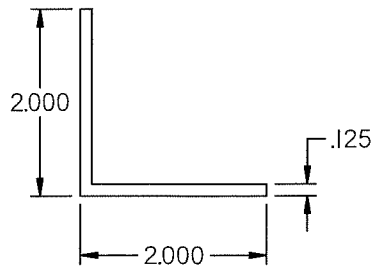
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

A B C D E F G H J K L

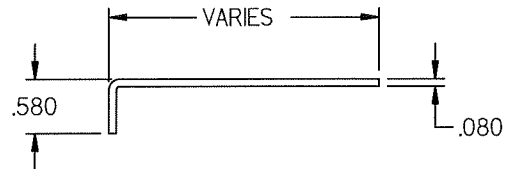
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① C6-119 HEAD / SILL FRAME
6063-T6 ALUM.

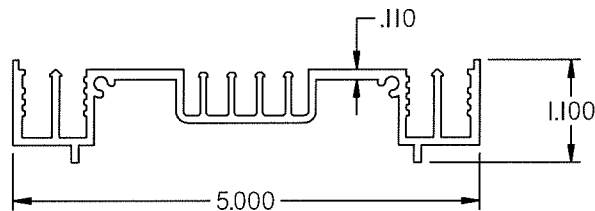


⑤ C6-176 2 X 2 X 1/8 (CONT.)
6063-T6 ALUM ANGLE

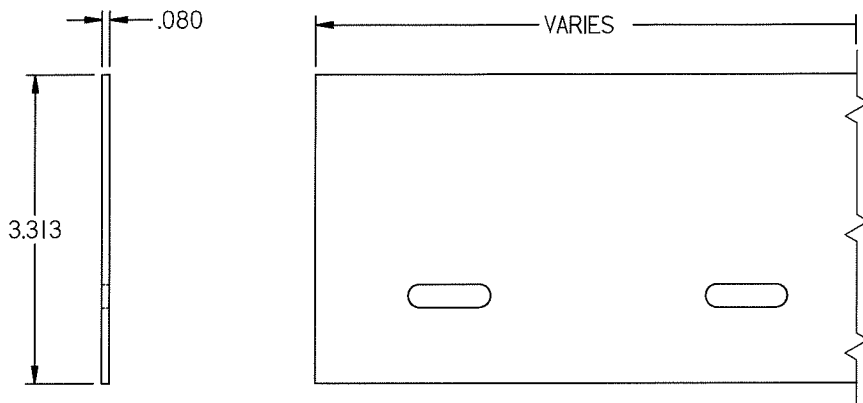


⑧ JAMB STOP
6063-T6 ALUM.

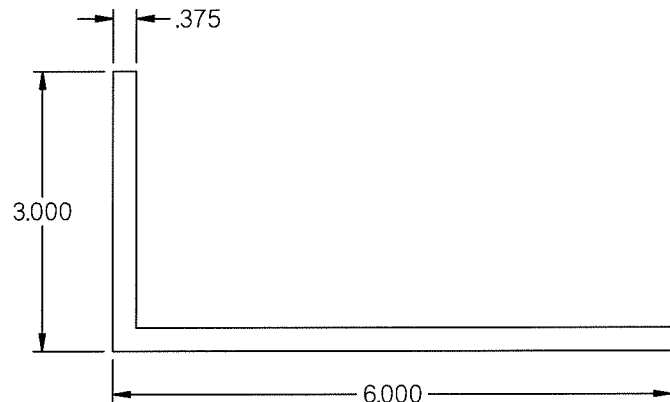
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② C6-199 JAMB FRAME
6063-T6 ALUM.

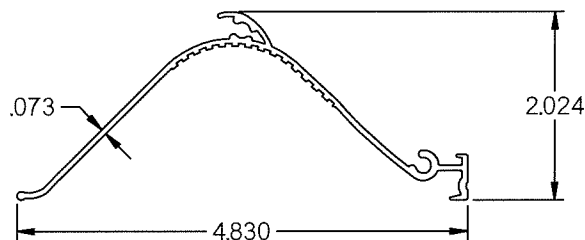


⑥ BAFFLE
6063-T6 ALUM.

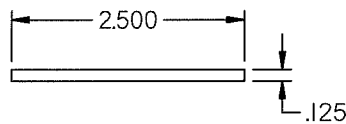


⑩ 3 X 6 X 3/8 (CONT.)
6061-T6 ALUM ANGLE

3



③ C6-203 BLADE
6063-T6 ALUM.



④ C6-179 BLADE STRAP &
MULLION BAR
6063-T6 ALUM.

4

5

6

7

PRODUCT RENEWED
as complying with the Florida
Building Code

NOA-No. 23-0928.05

Expiration Date 08/30/2028

By *[Signature]*
Miami-Dade Product Control

ALUMINUM SUPPORT SHIM
1/4" THICK
5052-H32 ALUM.

⑦

PRODUCT REVISED
as complying with the Florida
Building Code

NOA-No. 21-0825.06

Expiration Date: 08/30/2023

By: *Manuel Perez*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-1217.04
Expiration Date 8/30/2023

By: *[Signature]*
Miami-Dade Product Control

BACK STOP
6063-T6 ALUM.

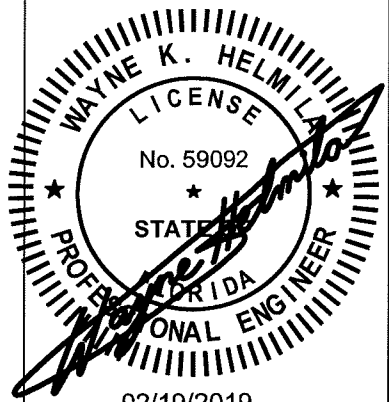
⑨

N:\Drawing\LOUVERS\AMCA\1605WDVM\1605WDVM -SA.dft

A B C D E F G H J K L

DWN BY: fcorinas
CHK BY: Mastourian
DATE: 9/11/2018
SCALE: NTS
SHEET: 9 OF 11
DWG NO: 1605WDVM
REV -

SAFE-AIR
DOWCO
N ILLINOIS, LLC.
1855 SOUTH 54TH AVE. CICERO, IL 60804
Tel. 708-652-9100 Fax 708-652-9100
TITLE:
1605WDVM LOUVER
PART PROFILES



02/19/2019
COA: 9090
RICE
ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone: (920) 617-1042
Fax: (920) 617-1100
www.rice-inc.com
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

A	B	C	D	E	F	G	H	J	K	L
BILL OF MATERIALS										
ITEM	INTERNAL ID	DESCRIPTION	MATERIAL	NOTES						
1	C6-119	HEAD / SILL FRAME	6063-T6							
2	C6-199	JAMB FRAME	6063-T6							
3	C6-203	BLADE	6063-T6	1.5" CENTERS/SPACING						
4	C6-179	BLADE STRAP / MULLION BAR	6063-T6	REQUIRED IF SECTION HEIGHT IS 60.0"						
5	C6-176	2 X 2 X 1/8 ANGLE (CONT.)	6063-T6	AT HEAD AND SILL ONLY						
6	-	BAFFLE	6063-T6							
7	-	ALUMINIUM SUPPORT SHIM	5052-H32	BY OTHERS , OPTIONAL, AS NEEDED						
8	-	JAMB STOP	6063-T6	SIZE VARIES AS NEEDED,						
9		BACK STOP	6063-T6	LENGTH VARIES WITH DAMPER SIZE.						
10	-	6 X 3 X 3/8 ANGLE (CONT.)	6061-T6	USED IN SKINNY WALL APPLICATION						
--										
20	C6-189	SCREW, MACHINE, HW, #10-24 X 1 1/2,	300 SERIES, SS CON. CW	2 @ BLADE ENDS, AND BLADE STRAP ONE PER BLADE						
21	C6-192	SCREW, MACHINE, HEX, #10 X 1 1/2,	300 SERIES, SS CON. CW	2 @ FRAME CORNERS						
22	C6-193	SCREWM METAL, HEX, #14 X 1 1/2,	300 SERIES, SS CON. CW	@ HEAD AND SILL, AND 2 AT BLADE STRAP AT JAMBS						
24	C6-198	SCREW, MTL, HEX, #8 X 3/4,	300 SERIES, SS CON. CW	@ SILL AT BAFFLE AND JAMB STOPS @ 6" O.C.						
25	-	SEALANT & BACKER ROD	VARIOUS	BY OTHERS						
26	C6-181	1/4 NYLON INSERT LOCKNUT	STAINLESS							
27	C6-186	1/4 COMM'L FLAT WASHER	STAINLESS							
28	C6-187	1/4-20 X 1 HEX CAP SCREW 18-8 SS	STAINLESS							
GENERAL NOTES:										
1. DUE TO PASSING TAS-100A, THE LOUVER IS DESIGNED TO PREVENT WIND DRIVEN RAIN FROM PENETRATING THE SPACE BEHIND THE LOUVER. AS SUCH, THE LOUVER MAY BE INSTALLED IN A LOCATION WHERE THE SPACE/ROOM BEHIND THE LOUVER IS NOT DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM OR THE ROOM WILL HOUSE NON-WATER RESISTANT/ PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES.										
2. THE MAXIMUM SINGLE SECTION SIZE IS 120 WIDE BY 72 HIGH OR 72 WIDE BY 120 HIGH. THE MAXIMUM OVERALL/ ASSEMBLED SIZE IS UNLIMITED WIDE BY USE OF MULTIPLE SECTIONS. SECTIONS/ ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDED THERE IS SUITABLE STRUCTURAL SUPPORT (DESIGNED AND INSTALLED BY OTHERS) TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER HEAD AND / OR SILL MOUNTING ANGLES TO THE SUBSTRATE.										
3. GENERAL LOUVER CONSTRUCTION: HEAD, SILL, JAMBS, AND BLADES ARE EXTRUDED ALUMINIUM. BLADE SPACING IS 1.5 INCHES. BLADES ARE SECURED WITH (2) #10 X 1 1/2" MACHINE SCREWS PER BLADE END. HEAD IS SECURED TO THE JAMB WITH (2) #10 X 1 1/2" MACHINE SCREWS PER HEAD END, SILL IS SECURED TO JAMBS WITH (2) #10 X 1 1/2" MACHINE SCREWS PER SILL END. BLADE SUPPORT STRAP IS SECURED TO BLADES BY (2) SCREW PER BLADE AND SECURED TO JAMB BY (2) SCREWS AT STRAP END. BLADE SUPPORT STRAP IS REQUIRED IF ACTUAL LOUVER HEIGHT IS > 60 INCHES.										
4. INSTALLER TO PROVIDE SEPARATION OF DISSIMILAR MATERIALS AS REQUIRED. SEE ALUMINUM DESIGN MANUAL (CHAPTER F) FOR DETAILS.										
5. ALL ALUMINIUM, STAINLESS STEEL (SS), AND PLATED / COATED STEEL PARTS PROVIDED BY MANUFACTURER ARE INHERENTLY CORROSION RESISTANT OR HAVE A CORROSION RESISTANT COATING.										
6. STEEL / STAINLESS, STEEL / ALUMINIUM PARTS MAY BE MADE OUT OF ALTERNATE ALLOY THAT HAS EQUAL OR GREATER YIELD STRENGTH. PART DIMENSIONS ARE MINIMUMS UNLESS DEFINED OTHER WISE.										
7. THE INTERNAL ID# SHOWN ON PAGE 9 IS FOR FACTORY USE AND TRACKING PURPOSES ONLY AND MAY BE UPDATED AT ANY TIME. ANY UPDATES WILL NOT ALTER THE ITEM AS DESCRIBED HEREIN.										
N:\Drawing\LOUVERS\AMCA\1605WDVM\1605WDVM -SA.dft										
A	B	C	D	E	F	G	H	J	K	L

LOUVER MODEL I605WDVM FASTENER SCHEDULE											
WOOD	STEEL STUD	STEEL	CONCRETE	CMU	SKINNY WALL	MIN.	FASTENER TYPE				
HEAD / SILL ANGLE FASTENER, HEIGHTS <=120 INCHES								DIAMETER	# Rqd	O.C. SPACING	EDGE EMBEDMENT
X						SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	1/4"	1	3-1/4"	2" 3"
X						SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	3/8"	1	3-3/4"	2" 3"
	X					16 Ga.	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)	1/4"	1	3"	2" 3 THREADS BEYOND SUBSTRATE
		X				A-36	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)	1/4"	1	9"	2" 1/4"
		X				A-36	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)	5/16"	1	12"	2" 1/4"
			X-CRACKED			4ksi	HILTI KWIK HUS-EZ	1/4"	1	7"	4" 2-1/2"
			X-CRACKED			4ksi	HILTI KWIK HUS-EZ	3/8"		12"	4" 3-1/4"
				X-GROUT FILLED		1.5ksi	STAINLESS STEEL THREADED ROD (300 SERIES, SS - COND. CW - FY= 65KSI) WITH HILTI HIT-HY 70 ADHESIVE	5/8"	1	8"	4" 5-5/8"
X					X	SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	1/4"	1	3-3/4"	3" 3"
X					X	SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	3/8"	1	5"	3" 3"
	X				X	16 Ga.	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)	1/4"	1	1"	3" 3 THREADS BEYOND SUBSTRATE
		X			X	A-36	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)	1/4"	1	7"	3" 1/4"
		X			X	A-36	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)	5/16"	1	8"	3" 1/4"
			X-CRACKED		X	4ksi	HILTI KWIK BOLT TZ	3/8"	1	8"	3" 2-3/8"
			X-CRACKED		X	4ksi	HILTI KWIK BOLT TZ	1/2"	1	10"	3" 2-3/8"
				X-GROUT FILLED	X	1.5ksi	ELCO AGGRE-GATORS (300 SERIES, SS- CON. CW - FY= 65ksi)	1/4"	2	3-1/2"	2" 2"

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, GRADE N, TYPE II, LIGHT-WEIGHT / MEDIUM-WEIGHT / NORMAL-WEIGHT CMU CONFORMING TO ASTM C-90. MORTAR MUST BE TYPE N.

NOTE 3: CONCRETE, STEEL, WOOD, MASONRY, CURTAIN WALL, STORE FRONT, AND ALL OTHER BUILDING SUBSTRATES ARE DESIGNED BY OTHERS.

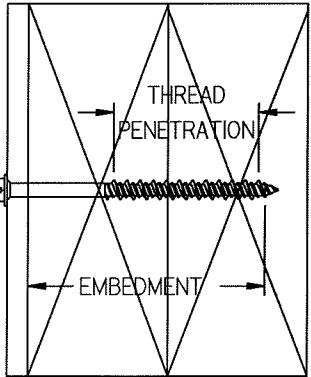
NOTE 4: ENGINEER OF RECORD TO VERIFY THAT BUILDING SUBSTRATE CAN SUPPORT THE LOUVER REACTIONS.

NOTE 5: THREAD PENETRATION LENGTH SIGNIFIES THE REQUIRED LENGTH OF THE THREADED PORTION OF THE FASTENER INTO THE WOOD SUBSTRATE PROVIDING FULL CONTACT WITH WOOD. LAG SCREW TIP CANNOT BE CONSIDERED PART OF THE TREADED PORTION FO THE SCREW. LAG SCREWS ARE NOT TO BE INSTALLED AT WOOD JOINTS / SPICES WHERE THE LAG SCREW COULD FALL BETWEEN MEMBERS.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0825.06
Expiration Date: 08/30/2023
By: Manuel Perez
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-1217.04
Expiration Date 8/30/2023
Ismael L. Hernandez
Miami-Dade Product Control

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 23-0928.05
Expiration Date 08/30/2028
By: R. Torres
Miami-Dade Product Control



DWN BY: fcoirtinas

DATE: 9/11/2018

CHK BY: Mastourian

SCALE: NTS

1855 SOUTH 54TH AVE. CICERO, IL 60804

Tel. 708-652-9100 Fax 708-652-9100

safe·AIR

DOVCO

ILLINOIS, LLC.

TITLE: I605WDVM LOUVER FASTENER SCHEDULE

1605WDVM

WAYNE K. HELMILA

LICENSE

No. 59092

STATE OF FLORIDA

PROFESSIONAL ENGINEER

02/19/2019

COA: 9090

RICE

ENGINEERING

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Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092