



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 1675WDVM Aluminum Louver – L.M.I.

APPROVAL DOCUMENT: Drawing No. 1675WDVM, titled "1675WDVM 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. 21-0825.03** 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. 23-0928.02
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. 18-0117.11)
2. Drawing No. **1675WDVM**, titled "1675WDVM Louver", sheets 1 through 11 of 11, dated 09/11/18, prepared by the Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.
(Submitted under NOA No. 18-1217.01)

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 1675 WDVM Louver System, prepared by Intertek, Test Report No. **H4890.01-801-18-R3**, dated 09/27/17 and revised on 05/18/18, signed and sealed by Tyler Westerling, P.E.
(Submitted under NOA No. 18-1217.01)
2. Test Report on Wind Driven Rain Resistance per TAS 100(A)-95 on a Model 1675WDVM Vertical Aluminum Louver, prepared by Intertek, Test Report No. **H0051.02-801-18 R1**, dated 09/28/17, revised on 11/21/17, signed and sealed by Tyler Westerling, P.E.
(Submitted under NOA No. 18-1217.01)
3. Test Report on High Velocity Wind Driven Rain Resistance per AMCA 550-15 on a Model 1675WDVM Vertical Aluminum Louver, prepared by Intertek/ATI, Test Report No. **H0051.01-801-18-R3**, dated 04/20/2017, revised on 11/21/2017, signed and sealed by Tyler Westerling, P.E.
(Submitted under NOA No. 18-1217.01)

C. CALCULATIONS

1. Louver structural calculations dated 10/26/17, prepared by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.
(Submitted under NOA No. 18-1217.01)

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. 23-0928.02
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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. 18-1217.01)
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. 18-1217.01)
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. 18-1217.01)

2. EVIDENCE SUBMITTED UNDER NOA # 21-0825.03

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 conformance, complying with the **FBC 7th Edition (2020)**, issued by Rice Engineering, dated 08/16/21, signed and sealed by Wayne K. Helmila, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 23-0928.02

Expiration Date: August 30, 2028
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DRAWING INDEX

- 1. INDEX TO DRAWINGS AND NOTES
- 2. 1675WDVM LOUVER - ELAVATION
- 3. 1675WDVM LOUVER- HEAD AND SILL DETAIL
- 4. 1675WDVM LOUVER- SKINNY WALL APPLICATION HEAD AND SILL DETAIL.
- 5. 1675WDVM LOUVER - JAMB AND MULLION DETAIL
- 6. 1675WDVM LOUVER - BLADE STRAP DETAIL
- 7. 1675WDVM LOUVER - BAFFLE/ WEEP DETAIL
- 8. 1675WDVM LOUVER - SEALANT DETAIL
- 9. 1675WDVM LOUVER - PART PROFILES
- 10. 1675WDVM LOUVER - BILL OF MATERIAL AND GENERAL NOTES
- 11. 1675WDVM LOUVER - FASTENER SCHEDULE

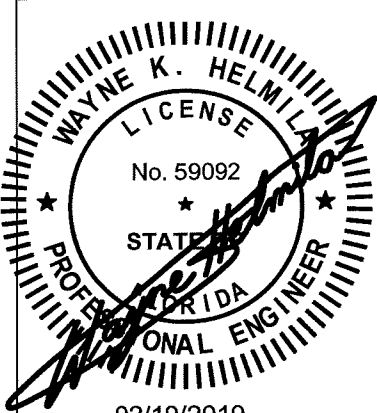
TESTS PREFORMED:
TAS-100 (A) WIND DRIVEN RAIN RESISTANCE
TAS-201 LARGE MISSILE IMPACT
TAS-202 UNIFORM STATIC AIR PRESSURE TEST
TAS-203 CYCLIC WIND PRESUSRE TEST
DESIGN PRESSURE RATING 150 PSF

NOTES:

- 1. THE 1675WDVM 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 +/- 150 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: 48" WIDE X 120" HIGH OR 120" WIDE X 48" HIGH.
- 6. MAXIMUM ASSEMBLED LOUVER SIZE UNLIMITED WIDE X 120" HIGH MAX. MULLION SPACING IS 48".
- 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.

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

TITLE:
1675WDVM LOUVER
INDEX



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

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 23-0928.02

Expiration Date 08/30/2028

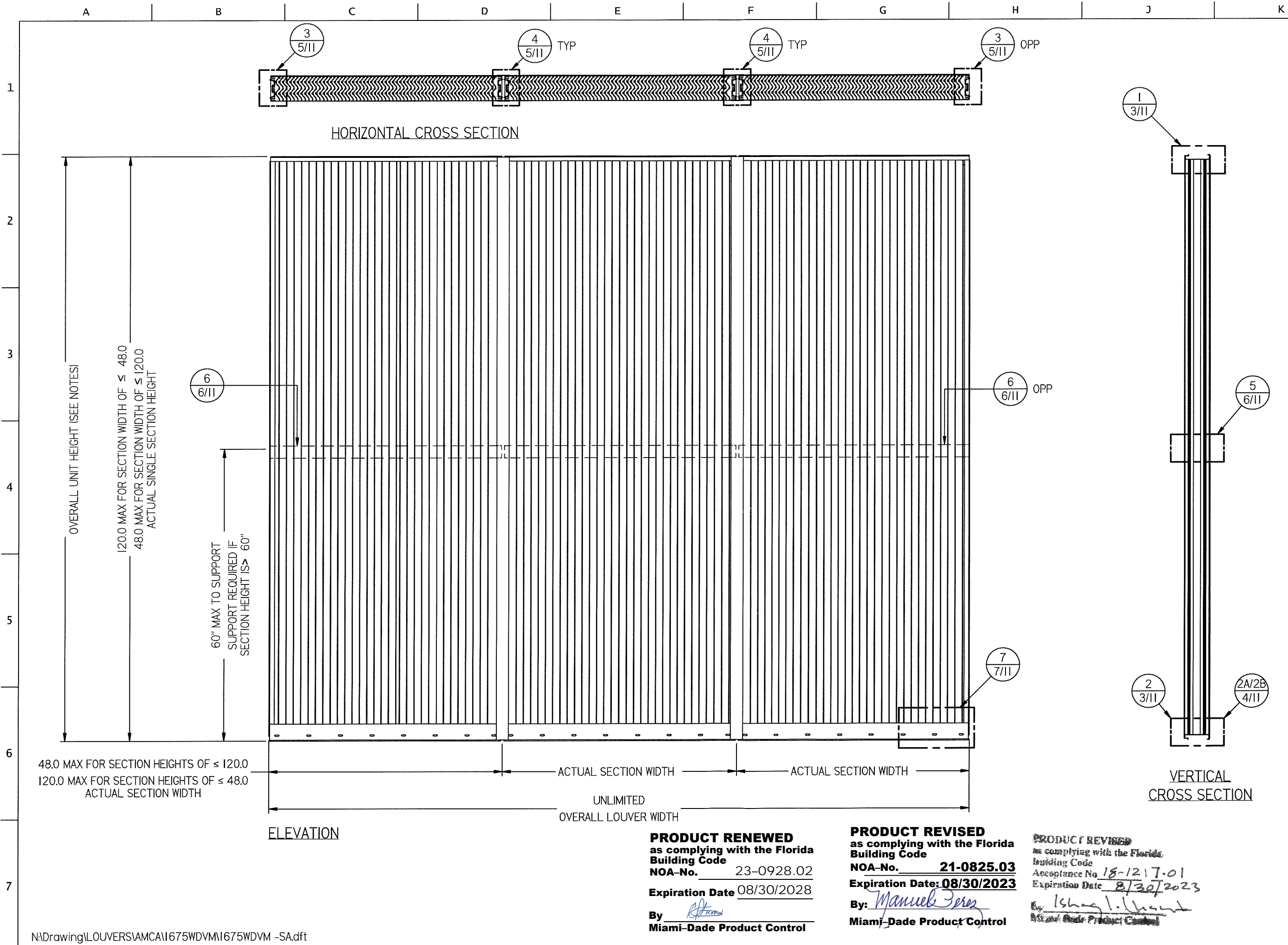
By *[Signature]*
Miami-Dade Product Control

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NOA-No. 21-0825.03

Expiration Date: 08/30/2023

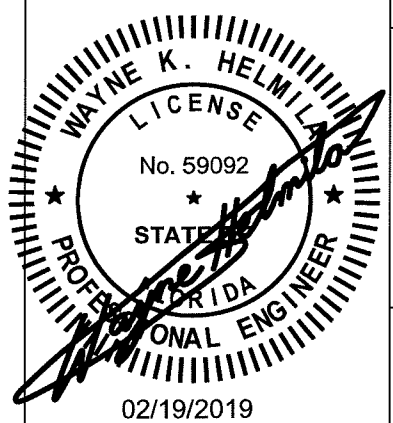
By *Manuel Perez*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-1217-01
Expiration Date AUG 30, 2023
By *Shang L. Chen*
Miami-Dade Product Control



DWN BY: fcorinas
CHK BY: Mastourian
DATE: 9/11/2018
SCALE: NTS
SHEET: 2 OF 11
DWG NO: 1675WDVM
REV: -

SAFE-AIR
DOVCO
N ILLINOIS, LLC.
1855 SOUTH 54TH AVE. CICERO, IL 60804
Tel. 708-652-9100 Fax 708-652-9100
TITLE: 1675WDVM LOUVER ELEVATION

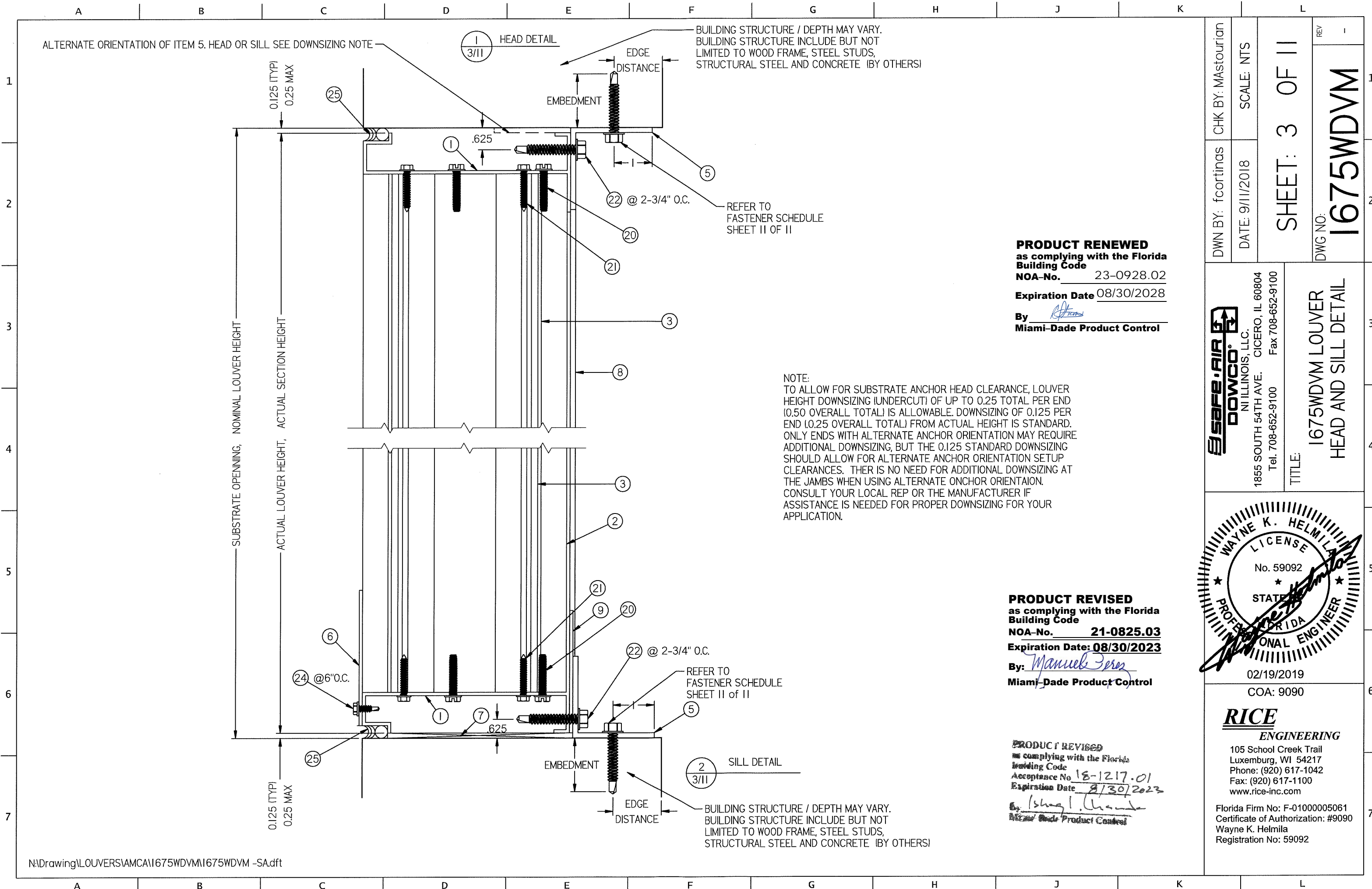


COA: 9090
RICE
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Wayne K. Helmila
Registration No: 59092

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

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Expiration Date: 08/30/2023
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Expiration Date 8/30/2023
By: *[Signature]*
Miami-Dade Product Control



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

1
3/11 HEAD DETAIL

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

REFER TO
FASTENER SCHEDULE
SHEET 11 OF 11

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 ORIENTATION.
CONSULT YOUR LOCAL REP OR THE MANUFACTURER IF
ASSISTANCE IS NEEDED FOR PROPER DOWNSIZING FOR YOUR
APPLICATION.

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By *[Signature]*
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By *[Signature]*
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2
3/11 SILL DETAIL

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

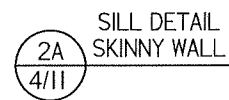
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DATE: 9/11/2018	SCALE: NTS
SHEET: 3 OF 11	
DWG NO: 1675WDVMI	REV: -

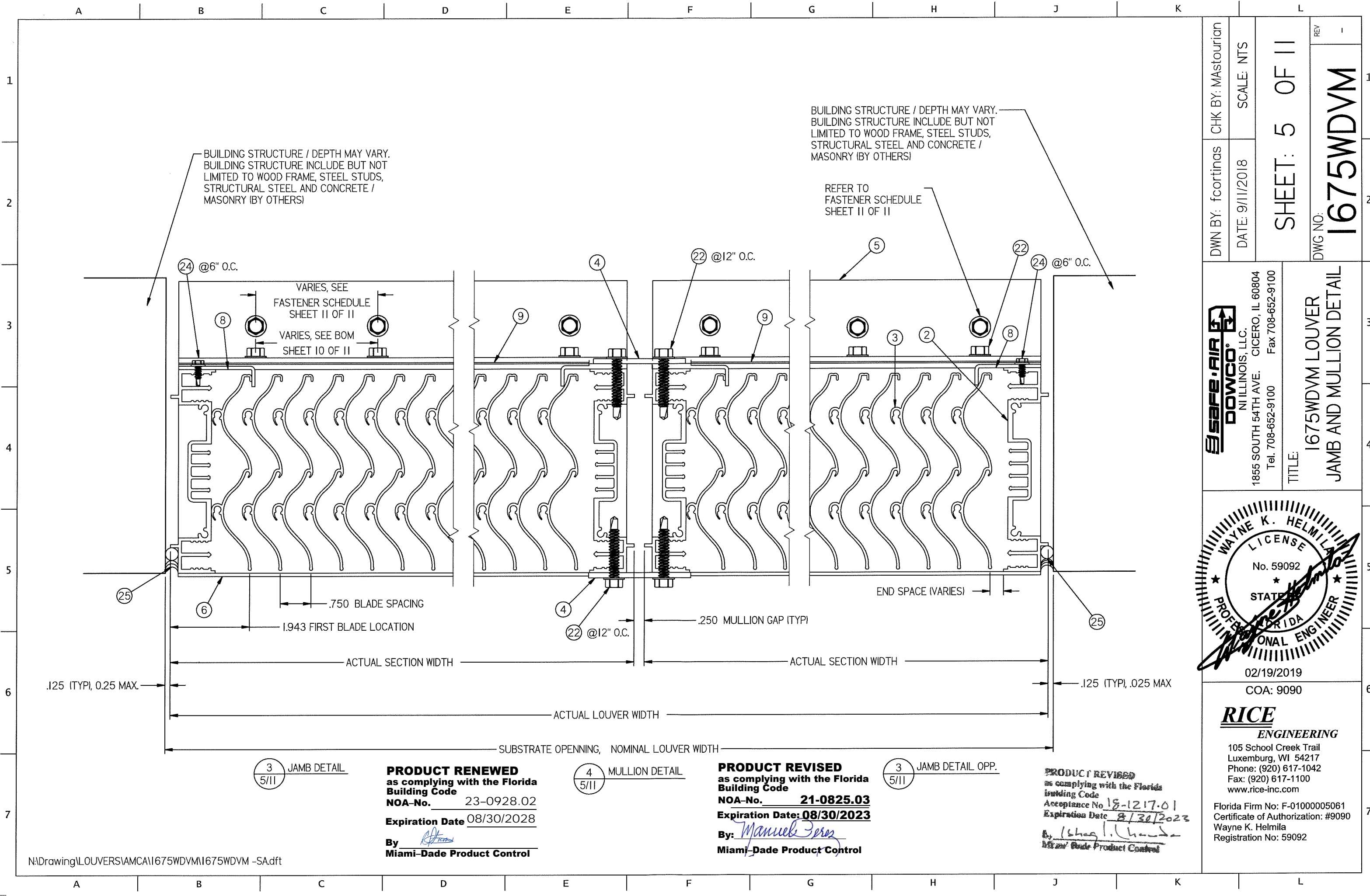
1855 SOUTH 54TH AVE. CICERO, IL 60804
Tel. 708-652-9100 Fax 708-652-9100

TITLE: 1675WDVMI LOUVER HEAD AND SILL DETAIL

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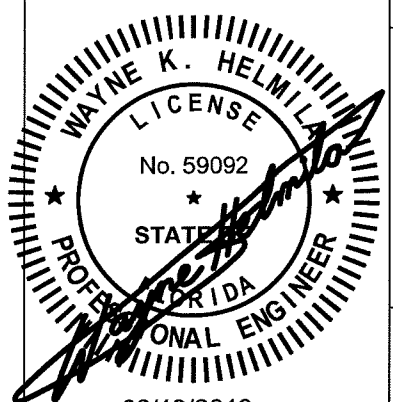
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092





LOWCO
N ILLINOIS, L.L.C.
1855 SOUTH 54TH AVE. CICERO, IL 60804
Tel. 708-652-9100 Fax 708-652-9100

TITLE:
**1675WDVM LOUVER
JAMB AND MULLION DETAIL**



COA: 9090

RICE
ENGINEERING

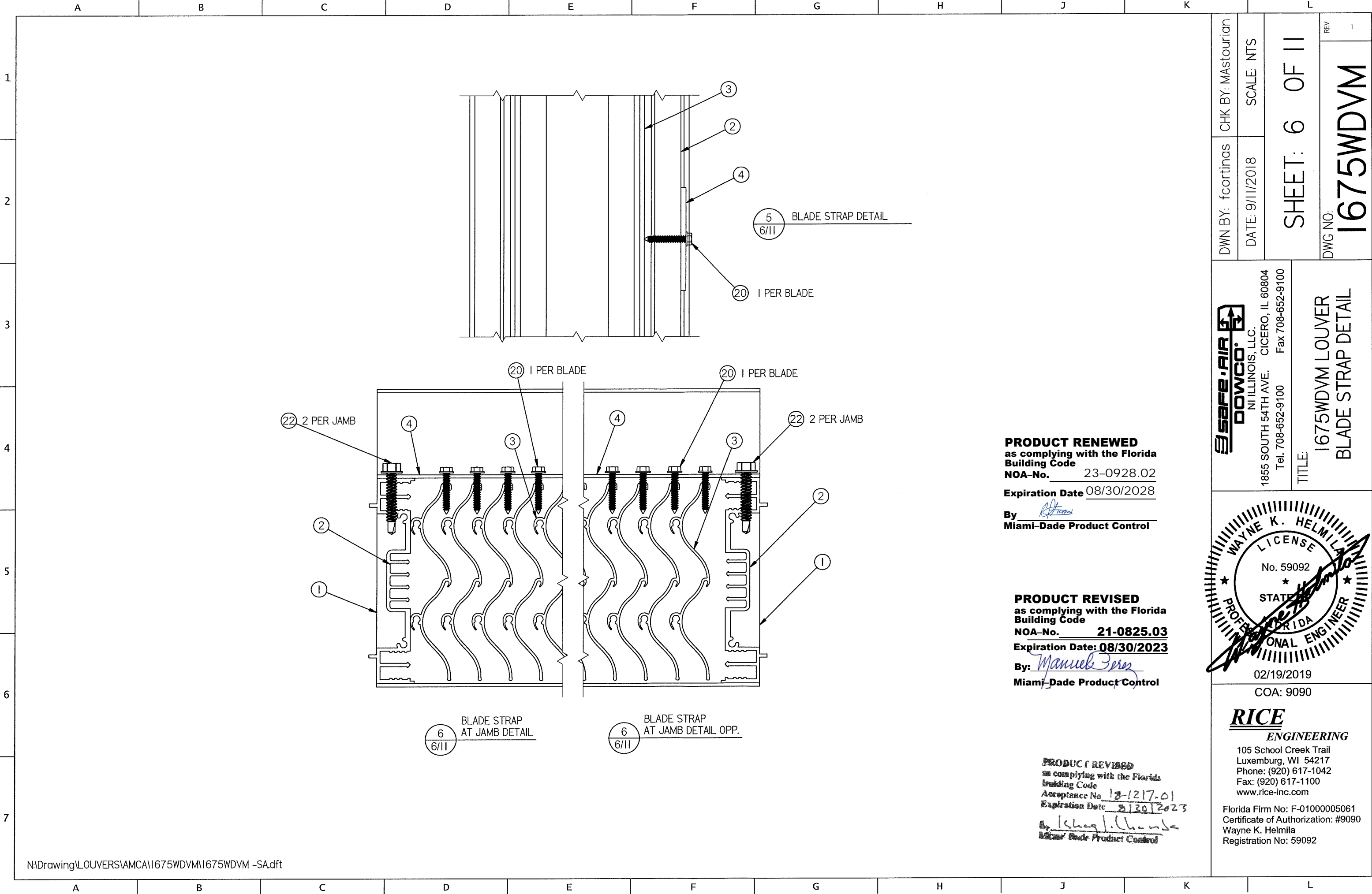
105 School Creek Trail
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Fax: (920) 617-1100
www.rice-inc.com

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

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By *[Signature]*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0825.03
Expiration Date: 08/30/2023
By: *Manuel Torres*
Miami-Dade Product Control

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Building Code
Acceptance No 18-1217.01
Expiration Date 8/30/2023
By: *[Signature]*
Miami-Dade Product Control

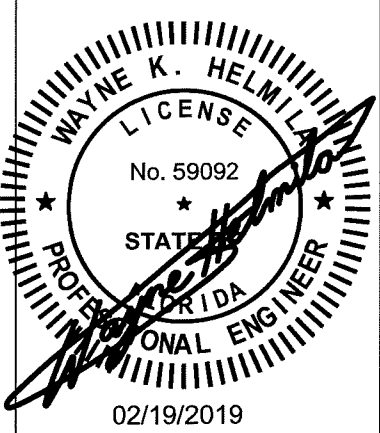


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By: *[Signature]*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0825.03
Expiration Date: 08/30/2023
By: *Manuel Perez*
Miami-Dade Product Control

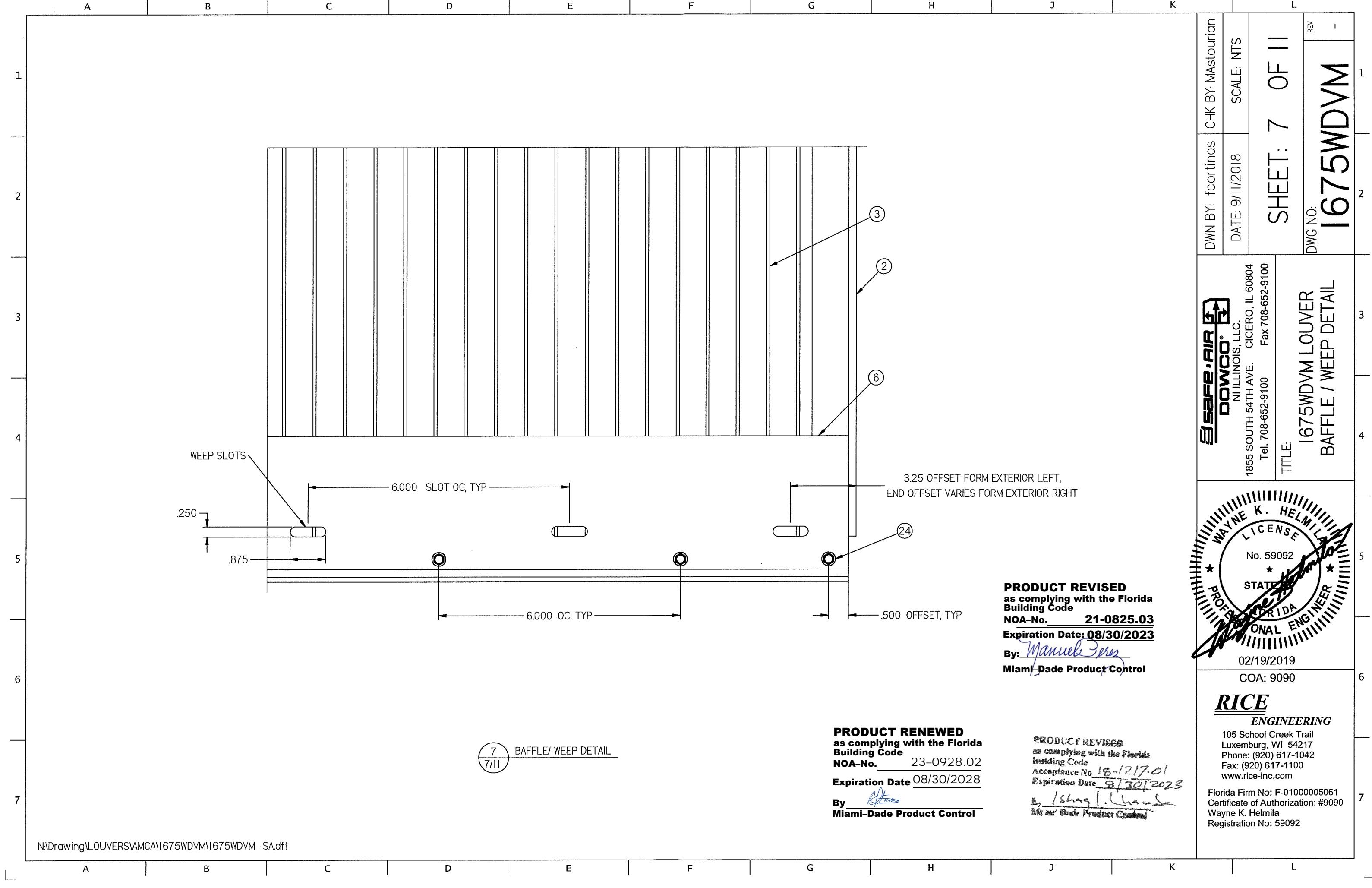
PRODUCT REVISED
as complying with the Florida
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Acceptance No. 18-1217.01
Expiration Date 8/30/2023
By: *[Signature]*
Miami-Dade Product Control

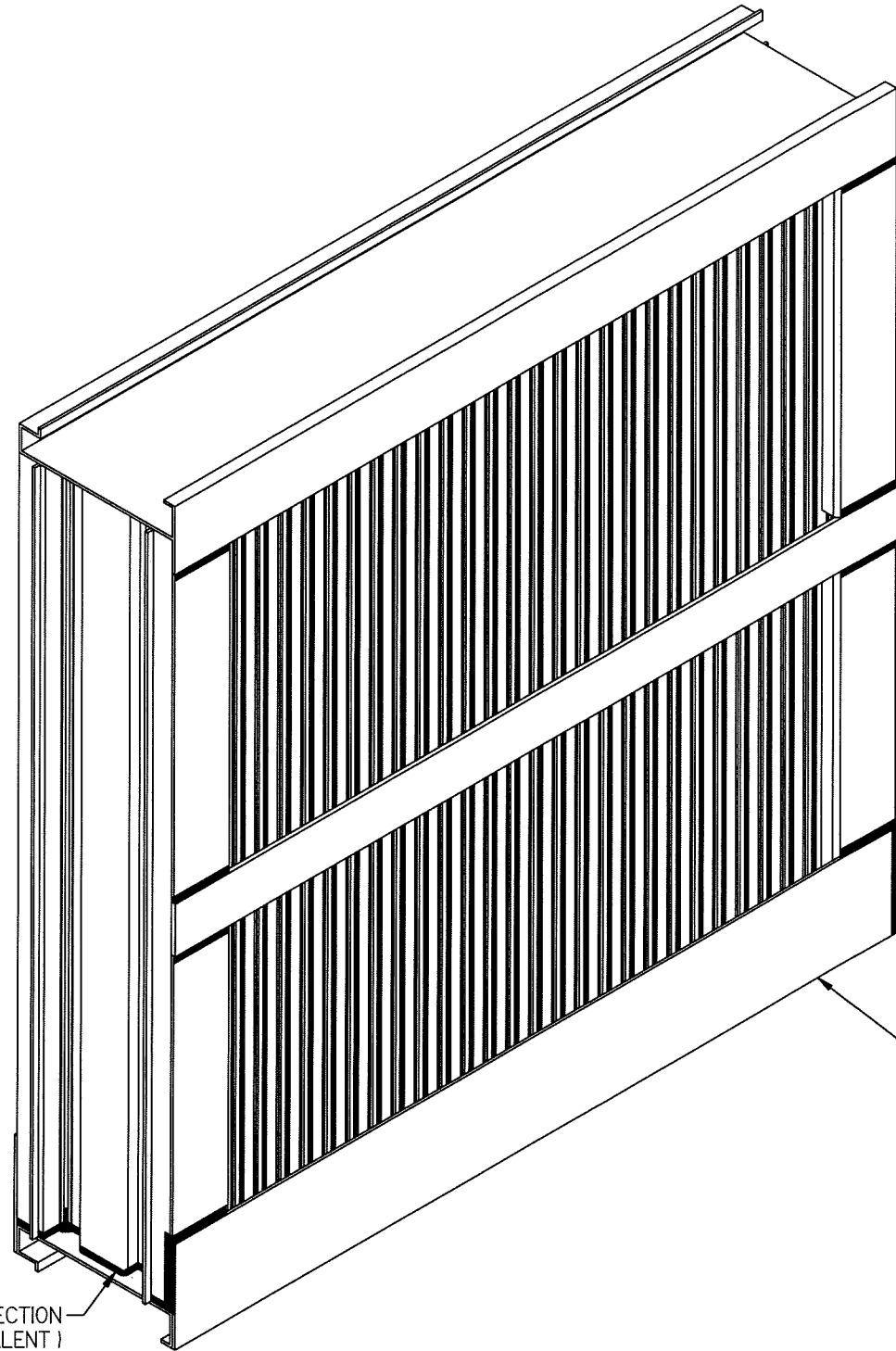
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Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

DWN BY: fcortinas
DATE: 9/11/2018
CHK BY: Mastourian
SCALE: NTS
SHEET: 6 OF 11
DWG NO: 1675WDVM
REV -



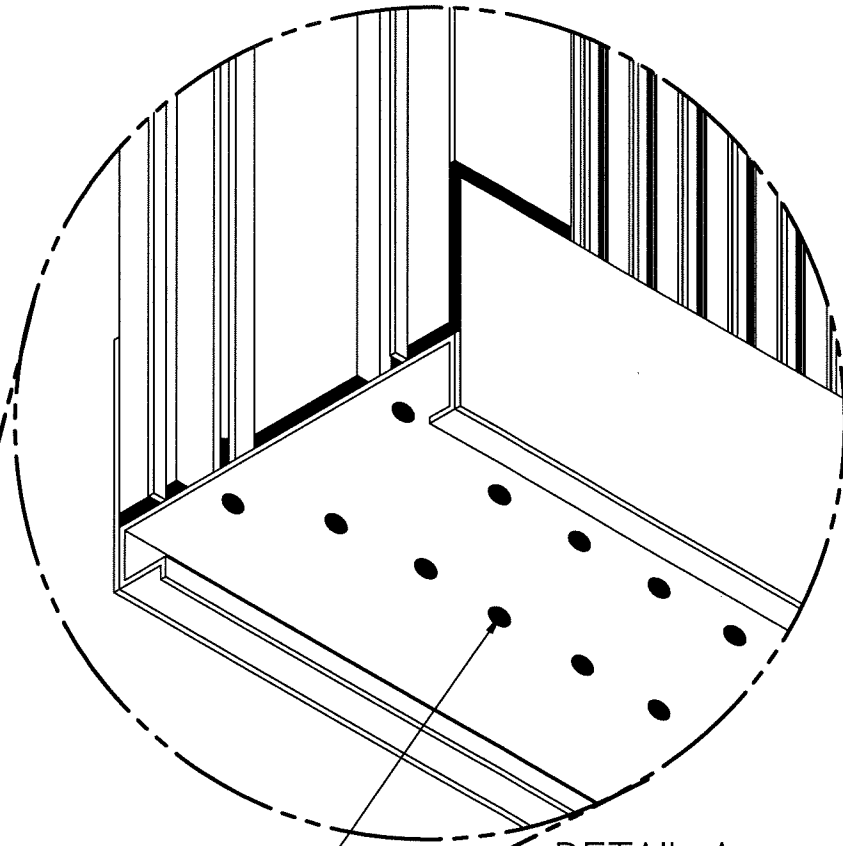


SEAL AT JAMB/SILL CONNECTION
(MASTERWELD 926 OR EQUIVALENT)

SEAL ALL FASTENERS UNDER SILL
(MASTERWELD 926 OR EQUIVALENT)

SEAL ALL FASTENERS UNDER SILL
(MASTERWELD 926 OR EQUIVALENT)

DETAIL A



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0825.03
Expiration Date: 08/30/2023
By: Manuel Perez
Miami-Dade Product Control

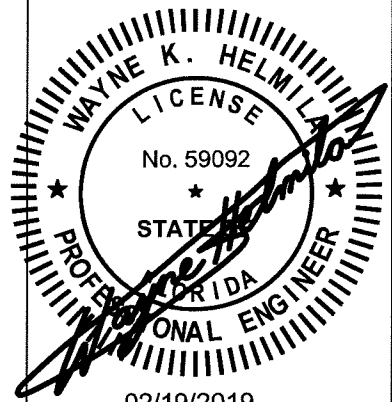
PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 23-0928.02
Expiration Date 08/30/2028
By: R. H. Hines
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-1217.01
Expiration Date 8/30/2023
By: Isaac I. Chavira
Miami-Dade Product Control



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

TITLE:
1675WDVM LOUVER
SEALANT DETAIL



02/19/2019
COA: 9090

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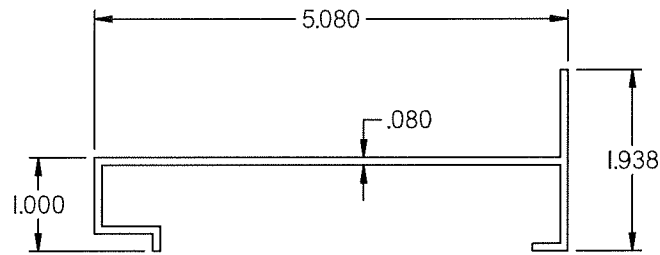
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Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092

DWN BY: fcortinas
CHK BY: Mastourian

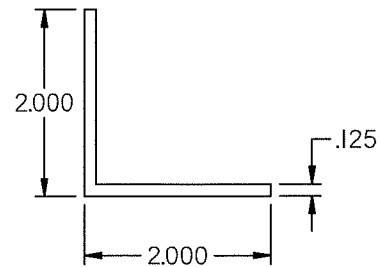
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SCALE: NTS

SHEET: 8 OF 11

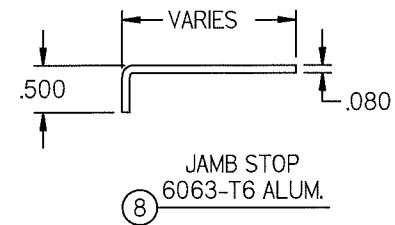
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REV: -



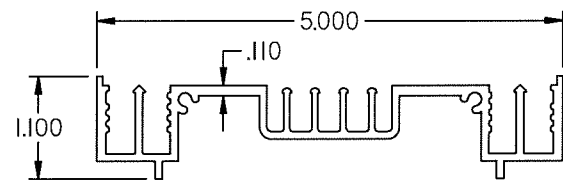
① C6-119 HEAD / SILL FRAME
6063-T6 ALUM.



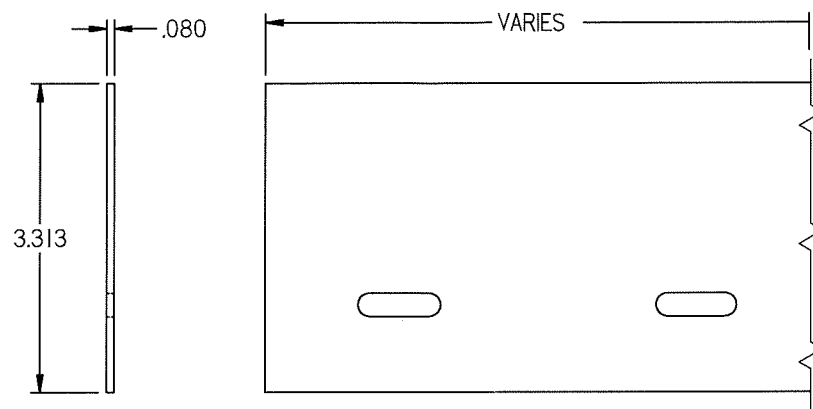
⑤ C6-176 2 X 2 X 1/8 (CONT.)
6063-T6 ALUM ANGLE



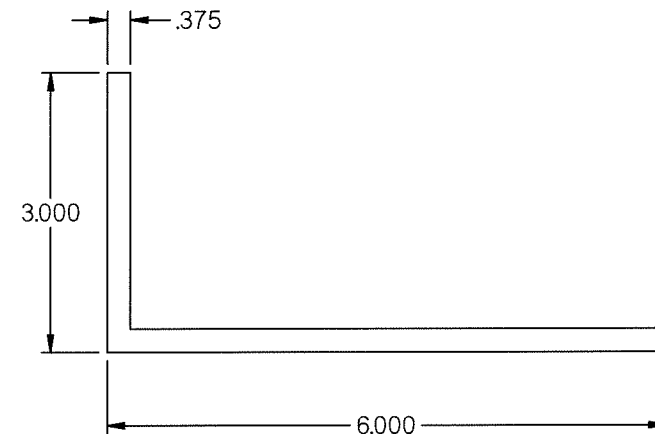
⑧ JAMB STOP
6063-T6 ALUM.



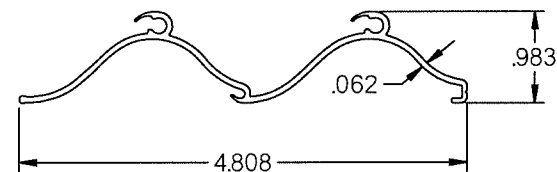
② C6-199 JAMB FRAME
6063-T6 ALUM.



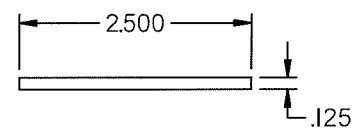
⑥ BAFFLE
6063-T6 ALUM.



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



③ C6-204 BLADE
6063-T6 ALUM.

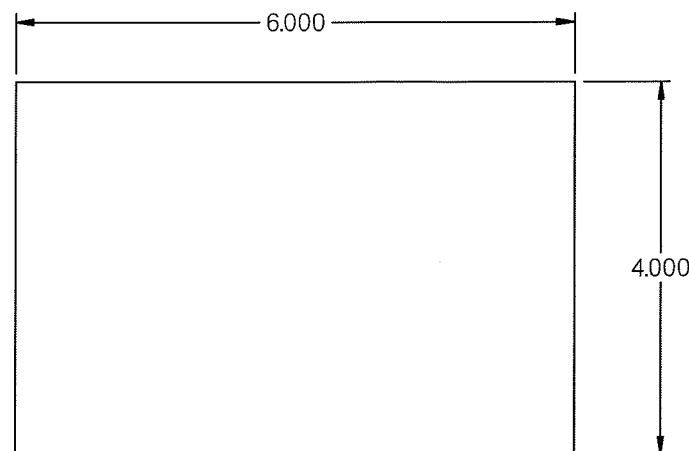


④ C6-179 BLADE STRAP
& MULLION BAR
6063-T6 ALUM.

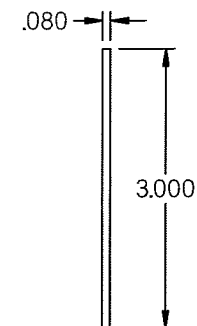
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NOA-No. 23-0928.02

Expiration Date 08/30/2028

By *[Signature]*
Miami-Dade Product Control



⑦ ALUMINUM SUPPORT SHIM
5052-H32 ALUM.



⑨ BACK STOP
6063-T6 ALUM.

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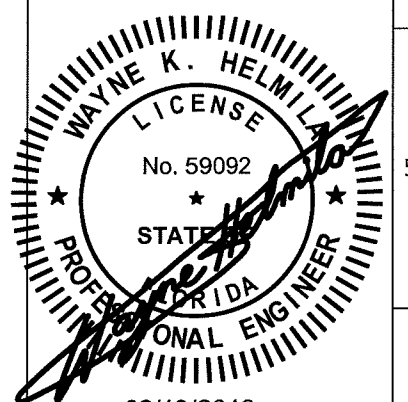
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DWN BY: fcorinas
CHK BY: Mastourian
DATE: 9/11/2018
SCALE: NTS
SHEET: 9 OF 11
DWG NO: 1675WDVM
REV: 1



LOWCO®
N ILLINOIS, L.L.C.
1855 SOUTH 54TH AVE. CICERO, IL 60804
Tel. 708-652-9100 Fax 708-652-9100

TITLE:
1675WDVM 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

BILL OF MATERIAL				
ITEM	INTERNAL ID	DESCRIPTION	MATERIAL	NOTES
1	I	C6-I19	HEAD / SILL FRAME	
	2	C6-I99	JAMB FRAME	
	3	C6-204	BLADE	.75" CENTERS/SPACING
	4	C6-I79	BLADE STRAP / MULLION BAR	REQUIRED IF SECTION HEIGHT IS 60.0"
	5	C6-I76	2 X 2 X 1/8 ANGLE (CONT.)	AT HEAD AND SILL ONLY
	6	-	BAFFLE	
2	7	-	ALUMINIUM SUPPORT SHIM	BY OTHERS , OPTIONAL, AS NEEDED (1/4" THICK MAX.)
	8	-	JAMB STOP	VARIES AS NEED
	9	-	BACK STOP	VARIES WITH LOUVER WIDTH
	10	-	6 X3 X 3/8 ANGLE (CONT.)	USED IN SKINNY WALL APPLICATION
	--			
	20	C6-I89	SCREW,MACHINE , HW, #10-24 X 1 1/2, ZP	2 @ BLADE ENDS, AND BLADE STRAP ONE PER BLADE
3	21	C6-I92	SCREW, MACHINE, MTL, HEX, #10 X 1 1/2, 410SS	2 @ FRAME CORNERS
	22	C6-I93	SCREWM METAL, HEX, #14 X 1 1/2, 410SS	@ HEAD AND SILL @ 2-3/4" O.C., AND @ BLADE STRAP 2 PER JAMBS
	24	C6-I98	SCREW, MTL, HEX, #8 X 3/4, 410SS	@ SILL AT BAFFLE @6"O.C. AND AT JAMB STOPS @ 6"O.C.
	25	-	SEALANT & BACKER ROD	VARIOUS
	26	C6-I81	1/4 NYLON INSERT LOCKNUT	BY OTHERS
	27	C6-I86	1/4 COMM"L FLAT WASHER	
4	28	C6-I87	1/4-20 X 1 HEX CAP SCREW 18-8 SS	

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. INSTALLER TO PROVIDE SEPARATION OF DISSIMILAR MATERIALS AS REQUIRED. ALUMINUM DESIGN MANUAL (CHAPTER F) FOR DETAILS.
3. ALL ALUMINIUM, STAINLESS STEEL (SS), AND PLATED / COATED STEEL PARTS PROVIDED BY MANUFACTURER ARE INHERENTLY CORROSION RESISTANT OR HAVE A CORROSION RESISTANT COATING.
4. 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.
5. 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.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **21-0825.03**
Expiration Date: **08/30/2023**
By: *Manuel Perez*
Miami-Dade Product Control

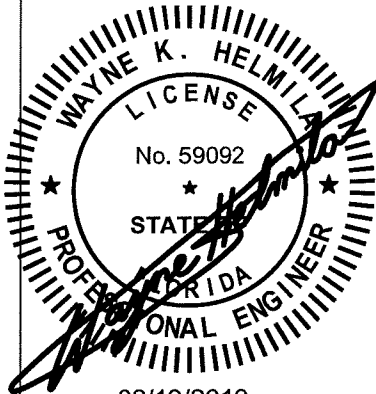
PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. **23-0928.02**
Expiration Date **08/30/2028**
By: *[Signature]*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. **18-1217.01**
Expiration Date **8/30/2023**
By: *[Signature]*
Miami-Dade Product Control



LOWCO
N ILLINOIS, L.L.C.
1855 SOUTH 54TH AVE. CICERO, IL 60804
Tel. 708-652-9100 Fax 708-652-9100

TITLE: **1675WDVM LOUVER**
BILL OF MATERIAL
GENERAL NOTES



COA: 9090
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ENGINEERING
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A		B		C		D		E		F		G		H		J		K			
LOUVER MODEL I675WDVM FASTENER SCHEDULE																					
WOOD	STEEL STUD	STEEL	CONCRETE	CMU	SKINNY WALL	MIN.	FASTENER TYPE										DIAMETER	# Rqd	O.C. SPACING	EDGE	EMBEDMENT
HEAD / SILL ANGLE FASTENER, HEIGHTS <=120 INCHES																					
X						SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)										1/4"	1	2-3/4"	2"	3"
X						SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)										3/8"	1	3	2"	3"
	X					16 Ga.	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)										1/4"	1	2-1/2"	2"	3 THREADS BEYOND SUBSTRATE
		X				A-36	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)										1/4"	1	8"	2"	1/4"
		X				A-36	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)										5/16"	1	10"	2"	1/4"
			X-CRACKED			4ksi	HILTI KWIK HUS-EZ										1/4"	1	3-1/4"	4"	2-1/2"
			X-CRACKED			4ksi	HILTI KWIK HUS-EZ										3/8"		10"	4"	3-1/4"
X					X	SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)										1/4"	1	3"	3"	3"
X					X	SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)										3/8"	1	4"	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	5"	3"	1/4"
		X			X	A-36	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi)										5/16"	1	6"	3"	1/4"
			X-CRACKED		X	4ksi	HILTI KWIK BOLT TZ										3/8"	1	6"	3"	2-3/8"
			X-CRACKED		X	4ksi	HILTI KWIK BOLT TZ										1/2"	1	8"	3"	2-3/8"
				X-GROUT FILLED	X	1.5ksi	ELCO AGGRE-GATORS (300 SERIES, SS- CON. CW - FY= 65ksi)										1/4"	2	3"	2"	2"

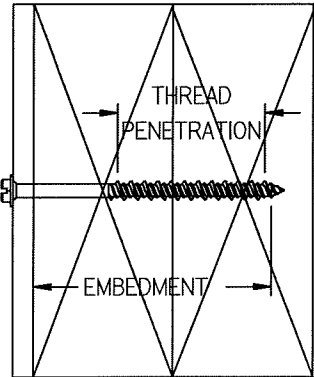
NOTE 1: CONCRETE MASONRY (CMU) SHALL BE > THE FOLLOWING, 6" WIDE, CMU CONFORMING TO ASTM C-90 FILLED WITH 4,747 KSI GROUT.

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, STOREFRONT, 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 6: THREAD PENETRATION LENGTH SIGNIFIES THE REQUIRED LENGTH OF THE TREADED PORTION OF THE FASTENER INTO THE WOOD SUBSTRATE PROVIDING FULL CONTACT WITH THE WOOD. LAG SCREWS TIP CANNOT BE CONSIDERED PART OF THE THREADED PORTION OF THE SCREW. LAG SCREWS ARE NOT TO BE INSTALLED AT WOOD JOINTS / SPLICES WHERE THE LAG SCREW COULD FALL BETWEEN MEMBERS.



PRODUCT RENEWED
as complying with the Florida
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NOA-No. 23-0928.02
Expiration Date 08/30/2028
By *[Signature]*
Miami-Dade Product Control

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Building Code
NOA-No. 21-0825.03
Expiration Date: 08/30/2023
By *[Signature]*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 18-1217.01
Expiration Date AUG 30, 2023
By *[Signature]*
Miami-Dade Product Control

CHK BY: Mastourian

SCALE: NTS

DWN BY: fcortinas

DATE: 9/11/2018

SHEET: 11 OF 11

DWG NO: 1675WDVM

REV: -

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

TITLE: 1675WDVM LOUVER FASTENER SCHEDULE

COA: 9090

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