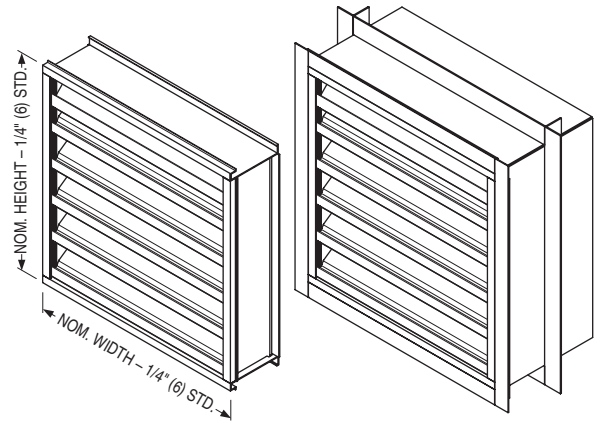




**EXTRUDED ALUMINUM STATIONARY LOUVER**  
**MIAMI-DADE QUALIFIED • FLORIDA PRODUCT APPROVED**  
**HIGH PERFORMANCE DRAINABLE BLADE**  
**6" (152) DEEP • HORIZONTAL BLADE**  
**MODEL: 1606DHPM**

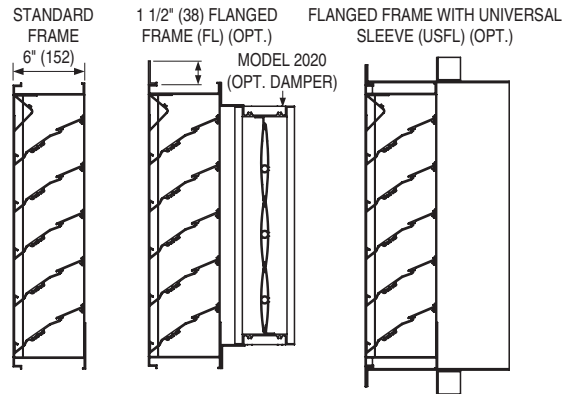
**QUALIFICATIONS:**

- Miami-Dade County NOA No. : 23-0724.23
- Florida Product Approval No. : 28078.3
- Texas Department of Insurance Evaluation ID : LVR-27
- Tested in accordance with: TAS-100A (Wind-Driven Rain [with optional Model 2020 damper in closed position]), TAS-201 (Large Missile Impact Test), TAS-202 (Uniform Static Air Pressure Test) and TAS-203 (Cyclic Wind Pressure Loading Test).
- AMCA 500-L (Water Penetration, Air Performance).
- AMCA 540 (Wind-Borne Debris Impact Test [Enhanced "Level E" Protection]).
- AMCA 550 (High Velocity Wind-Driven Rain Resistance Test [with optional Model 2020 damper in closed position]).
- Wind load rating +/- 150 PSF.



**STANDARD CONSTRUCTION:**

- FRAME:** 6" (152) deep, Type 6063-T6 extruded aluminum, .120" (3.05) nominal wall thickness. Integral downsouts and caulking slot provided.
- BLADES:** Type 6063-T6 extruded aluminum, .100" (2.54) nominal wall thickness, with reinforcing bosses.
- BLADE ANGLE:** Fixed at 37.5 degrees.
- BLADE SPACING:** Approximately 4" (102) on centers.
- BLADE SUPPORT:** Concealed type, factory installed on rear of louver. Reinforced with 2" x 2" (51 x 51) angle (adds approximately 2" [51] to overall louver depth).
- SCREEN:** 3/4" x .050 (19 x 1.27) expanded, flattened aluminum bird screen in removable frame, inside (rear) mount (adds approx. 3/8" [10] to louver depth).
- FINISH:** Mill.
- MINIMUM SIZE:** 12" W x 12" H (305 x 305).
- MAX. SINGLE SECTION SIZE:** 72" W x 120" H (1829 x 3048). 60 sq. ft. (5.6 m<sup>2</sup>) (36" W x 120" H [914 x 3048] with optional Model 2020 damper). Larger louvers will require field assembly of smaller sections.
- MAXIMUM SIZE:** Unlimited Width x 120" H (3048).



**OPTIONS:**

- FL** Flanged Frame.
- USFL** Universal Sleeve/Flanged Frame.
- BSSS** Type 304 S.S. Bird Screen.
- BSN** No Bird Screen.
- ISA** Aluminum Insect Screen.
- ISSS** Type 304 S.S. Insect Screen.
- ESI** Extended Sill.
- PASI** Sill Pan.
- Other: \_\_\_\_\_.

**OPTIONAL FINISHES:**

- PC3** Powder Coat AAMA 2603. Color: \_\_\_\_\_.
- PC4** High Performance Powder Coat AAMA 2604 (Equivalent to 50% Kynar®). Color: \_\_\_\_\_.
- PC5** Fluoropolymer Powder Coat AAMA 2605 (Equivalent to 70% Kynar®). Color: \_\_\_\_\_.
- PCC** Prime Coat.
- AN04** Clear Anodized 204-R1.
- AN15** Clear Anodized 215-R1.
- ANLB** Light Bronze.

- ANMB** Medium Bronze.
- ANDB** Dark Bronze.
- ANBK** Black.

**OPT. FACTORY MOUNTED 2020 CONTROL DAMPER:**

- Extruded Aluminum
- Opposed Airfoil Blades
- Concealed Linkage
- Silicone Blade Seal
- Cambered Stainless Steel Jamb Seals
- 1/2" (13) Plated Steel Axles

<b>SCHEDULE TYPE:</b>	For Installation Instructions, see approved NOA.			
<b>PROJECT:</b>	Page 1 of 3 Dimensions are in inches (mm).			
<b>ENGINEER:</b>	<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>	<b>DRAWING NO.</b>
<b>CONTRACTOR:</b>	9 - 7 - 23	1600F	6 - 25 - 21	1606DHPM



**EXTRUDED ALUMINUM STATIONARY LOUVER**  
**MIAMI-DADE QUALIFIED • FLORIDA PRODUCT APPROVED**  
**HIGH PERFORMANCE DRAINABLE BLADE**  
**6" (152) DEEP • HORIZONTAL BLADE • PERFORMANCE DATA**  
**MODEL: 1606DHPM**

**FREE AREA in Square Feet and Square Meters**

		Width in Inches and Meters										
		12	18	24	30	36	42	48	54	60	66	72
Height in Inches and Meters	12	0.31	0.51	0.70	0.89	1.09	1.28	1.48	1.67	1.87	2.06	2.25
	0.30	0.03	0.05	0.07	0.08	0.10	0.12	0.14	0.16	0.17	0.19	0.21
	18	0.60	0.98	1.35	1.73	2.11	2.48	2.86	3.23	3.61	3.99	4.36
	0.46	0.06	0.09	0.13	0.16	0.20	0.23	0.27	0.30	0.34	0.37	0.41
	24	0.90	1.47	2.03	2.60	3.16	3.73	4.29	4.85	5.42	5.98	6.55
	0.61	0.08	0.14	0.19	0.24	0.29	0.35	0.40	0.45	0.50	0.56	0.61
	30	1.19	1.93	2.68	3.42	4.16	4.90	5.64	6.39	7.13	7.87	8.61
	0.76	0.11	0.18	0.25	0.32	0.39	0.46	0.52	0.59	0.66	0.73	0.80
	36	1.33	2.16	3.00	3.83	4.66	5.49	6.32	7.15	7.98	8.81	9.65
	0.36	0.12	0.20	0.28	0.36	0.43	0.51	0.59	0.66	0.74	0.82	0.90
	42	1.77	2.87	3.97	5.07	6.17	7.27	8.37	9.47	10.57	11.67	12.78
	1.07	0.16	0.27	0.37	0.47	0.57	0.68	0.78	0.88	0.98	1.08	1.19
	48	2.05	3.33	4.61	5.89	7.17	8.45	9.65	11.01	12.29	13.57	14.85
	1.22	0.19	0.31	0.43	0.55	0.67	0.79	0.90	1.02	1.14	1.26	1.38
	54	2.34	3.80	5.26	6.73	8.19	9.65	11.11	12.57	14.03	15.49	16.95
	1.37	0.22	0.35	0.49	0.62	0.76	0.90	1.03	1.17	1.30	1.44	1.57
60	2.64	4.28	5.92	7.57	9.21	10.86	12.50	14.14	15.79	17.43	19.07	
1.52	0.24	0.40	0.55	0.70	0.86	1.01	1.16	1.31	1.47	1.62	1.77	
66	2.92	4.74	6.56	8.39	10.21	12.03	13.85	15.67	17.49	19.31	21.13	
1.68	0.27	0.44	0.61	0.78	0.95	1.12	1.29	1.46	1.63	1.79	1.96	
72	3.21	5.22	7.22	9.22	11.23	13.23	15.24	17.24	19.24	21.25	23.25	
1.83	0.30	0.48	0.67	0.86	1.04	1.23	1.42	1.60	1.79	1.97	2.16	
78	3.50	5.68	7.87	10.05	12.23	14.41	16.60	18.78	20.96	23.14	25.33	
1.98	0.33	0.53	0.73	0.93	1.14	1.34	1.54	1.74	1.95	2.15	2.35	
84	3.79	6.16	8.52	10.89	13.25	15.61	17.98	20.34	22.71	25.07	27.43	
2.13	0.35	0.57	0.79	1.01	1.23	1.45	1.67	1.89	2.11	2.33	2.55	
90	4.08	6.63	9.17	11.72	14.26	16.81	19.35	21.89	24.44	26.98	29.53	
2.29	0.38	0.62	0.85	1.09	1.32	1.56	1.80	2.03	2.27	2.51	2.74	
96	4.37	7.09	9.82	12.54	15.27	17.99	20.71	23.44	26.16	28.89	31.61	
2.44	0.41	0.66	0.91	1.17	1.42	1.67	1.92	2.18	2.43	2.68	2.94	
102	4.66	7.57	10.47	13.38	16.28	19.19	22.09	25.00	27.90	30.81	33.71	
2.59	0.43	0.70	0.97	1.24	1.51	1.78	2.05	2.32	2.59	2.86	3.13	
108	4.95	8.04	11.12	14.21	17.29	20.38	23.46	26.55	29.63	32.72	35.80	
2.74	0.46	0.75	1.03	1.32	1.61	1.89	2.18	2.47	2.75	3.04	3.33	
114	5.24	8.51	11.78	15.04	18.31	21.58	24.84	28.11	31.38	34.65	37.91	
2.90	0.49	0.79	1.09	1.40	1.70	2.00	2.31	2.61	2.92	3.22	3.52	
120	5.53	8.98	12.42	15.87	19.31	22.76	26.21	29.65	33.10	36.54	39.99	
3.05	0.51	0.83	1.15	1.47	1.79	2.11	2.43	2.75	3.07	3.40	3.72	



This label does not signify AMCA window performance certification.

<b>SCHEDULE TYPE:</b>	Page 2 of 3			
<b>PROJECT:</b>	Dimensions are in inches (mm).			
<b>ENGINEER:</b>	<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>	<b>DRAWING NO.</b>
<b>CONTRACTOR:</b>	9 - 7 - 23	1600F	6 - 25 - 21	1606DHPM



**EXTRUDED ALUMINUM STATIONARY LOUVER**  
**MIAMI-DADE QUALIFIED • FLORIDA PRODUCT APPROVED**  
**HIGH PERFORMANCE DRAINABLE BLADE**  
**6" (152) DEEP • HORIZONTAL BLADE • PERFORMANCE DATA**  
**MODEL: 1606DHPM**

**AIRFLOW/WATER PENETRATION DATA**  
**for 48" x 48" (1219 x 1219) Louver Size**

Free Area %		60%
Free Area sq. ft. (sq. m.)		9.65 (0.90)
I N T A K E	Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	1186 fpm (361 m/min.)
	Air Volume at 1186 fpm	11,445 cfm (5401 l/s)
	Free Area Velocity	
	Pressure Drop @ 1186 fpm	.19 in. w.g. (47 Pa)

**NOTE:** To minimize water penetration when sizing intake louvers, select a Free Area Velocity that is **below** the beginning point of water penetration.



Nailor Industries Inc. certifies the Model 1606DHPM shown herein is licensed to bear the AMCA Seal. The ratings shown are based on tests and procedures performed in accordance with AMCA Publication 511 and comply with the requirements of the AMCA Certified Ratings Program. Seal applies to air performance ratings and water penetration ratings.

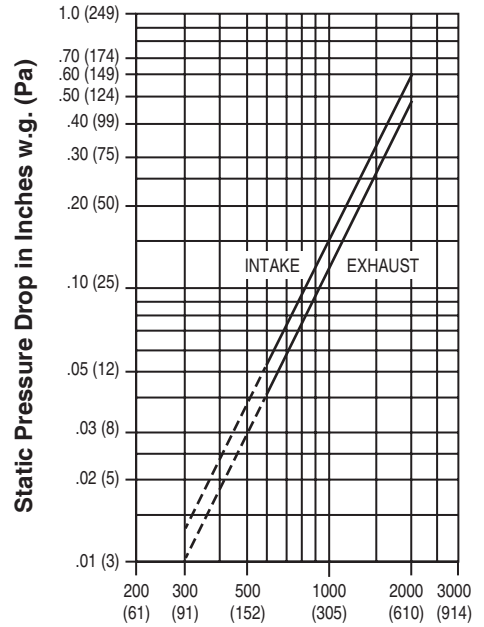
**HIGH VELOCITY RAIN RESISTANT WITH BLADES FULLY CLOSED AND IMPACT RESISTANT LOUVER**  
*Enhanced Protection Level E*

See www.AMCA.org for all certified or listed products

This label does not signify AMCA airflow performance certification.

Nailor Industries Inc. certifies that the 1606DHPM shown herein is approved to bear the AMCA Listing Label. The ratings shown are based on tests and procedures performed in accordance with AMCA publications and comply with the requirements of the AMCA Listing Label Program. The AMCA Listing Label applies to Wind Borne Debris Impact Resistant Louvers. The AMCA Listing Label applies to High Velocity Wind Driven Rain Resistant Louvers.

**PRESSURE DROP**



**Air Velocity in Feet (Meters) Per Minute Through Free Area**

Louver test size: 48" x 48" (1219 x 1219 mm).  
 Standard air density @ 0.075 lbs/ft³.  
 Tested to AMCA Fig. 5.5 – 6.5.

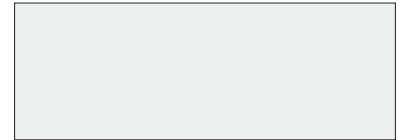
<b>SCHEDULE TYPE:</b>	Page 3 of 3			
<b>PROJECT:</b>	Dimensions are in inches (mm).			
<b>ENGINEER:</b>	<b>DATE</b>	<b>B SERIES</b>	<b>SUPERSEDES</b>	<b>DRAWING NO.</b>
<b>CONTRACTOR:</b>	9 - 7 - 23	1600F	6 - 25 - 21	1606DHPM

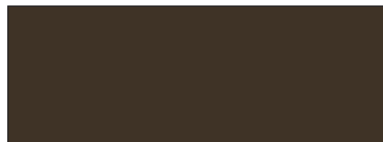

 Slate Blue **LF01**

 Medium Bronze **LF02**

 Sandstone **LF03**

 Light Gray **LF04**

 Charcoal **LF05**

 Bone White **LF06**

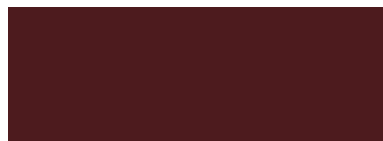
 Western Tan **LF07**

 Architectural Bronze **LF08**

 Regal Blue **LF09**

 Forest Green **LF10**

 Surrey Beige **LF11**

 Royal Brown **LF12**

 Barn Red **LF13**

 Burgundy **LF14**

 Clay **LF15**

 Almond **LF16**

 Coastal White **LF17**

 Vista Green **LF18**

 Black **LF19**

 Gloss Black **LF20**

 Campus Green **LF21**

Nailor offers 21 standard paint colors selected for architectural exterior use which meet or exceed AAMA specifications and performance requirements for color retention, chalk resistance, gloss retention, erosion, corrosion and chemical resistance as well as dry film thickness and hardness. Our state-of-the-art powder coat system provides an environment friendly finishing solution with more uniform coverage and coating thickness. The result is an exceptional finish that better resists scratching, fading and general wear. Additional liquid coat facilities for special requirements complete our ability to provide unmatched beauty and durability for any application.

Custom color matching is also available upon request. Contact your local Nailor representative.

# Available Finishes

FINISH TYPE	DESCRIPTION	STANDARD WARRANTY
<b>Fluoropolymer Powder Coat</b> AAMA 2605-Superior Finish (AKA: Powdura® 5000, Corafalon® Powder, Interpon® D3000-Fluoromax, IFS 500FP)	<b>"Ultimate"</b> - A next generation hyper durable powder coating, based on FEVE fluoropolymer resins and ceramic pigmentation that the industry has acknowledged as the foundation for superior performance coatings. They provide a hard surface that is resistant to scratching and scuffing, with superior color and gloss retention, when applied to a variety of exterior architectural applications. This technology represents the "ultimate" in environmentally friendly finishes, with Zero-VOC emissions.  A superior alternative to traditional 70% Kynar 500® / Hylar 500® PVDF fluoropolymer liquid coatings.	10 years (Consult Nailor for availability of extended warranty)
<b>High Performance Powder Coat</b> AAMA 2604 - High Performance Finish (AKA: Powdura® 4000, Envirocron® Ultra Durable Powder, Dynadure™ 400, Interpon® D2000, IFS 400SD)	<b>"Better"</b> - A high performance polyester powder coating, based on "super durable" resins that utilize infrared reflective pigments, which provides excellent resistance to outdoor weathering. A harder and more environmentally friendly coating than other liquid paint counterparts and with Zero-VOC emissions.  A good alternative to 50% Kynar 500® / Hylar 5000® liquid coatings.	5 years
<b>Durable Powder Coat</b> AAMA 2603 - Pigmented Organic Coatings (AKA: Powdura® 3000, Envirocron® Durable Powder, Dynadure™ 300, Interpon® D1000, IFS 300SP)	<b>"Good"</b> - A durable powder coat based on thermosetting polyester resin technology.  Provides a good economical combination of physical and chemical resistance properties. Environmentally superior to liquid spray paints and Zero – VOC emissions.	1 year
<b>Clear Anodize 215-R1</b> AA-M10C22A41 (0.7 mil. min.)	Architectural Class I. Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack. Recommended for severely corrosive and abrasive atmospheric exposure.	5 years
<b>Clear Anodize 204-R1</b> AA-M10C22A31 (0.4 - 0.7 mil.)	Architectural Class II. Clear, colorless and hard oxide aluminum coating that resists weathering and chemical attack. Recommended for normal weather exposure.	1 year
<b>Color Anodize</b> AA-M10C22A44 (0.7 mil. min.)	Architectural Class I. "Two-step" aluminum coating process. Following a standard anodizing procedure, a second electrolytic process deposits colored metallic pigments which penetrate the aluminum oxide pores, producing a corrosion resistant, colorfast finish. Available in light, medium, dark bronze and black.	5 years
<b>Prime Coat</b>	Prime coat provides a stable base for painting of louvers in the field. Surface pretreatment includes degreasing and a chemical cleaning before an epoxy prime coat is applied. Finish coat should be field applied as soon as possible for best adhesion, after a thorough cleaning for dust etc. that can contaminate the final finish and cause premature flaking or peeling.	N/A

*Paint finish warranties are not applicable to steel products.*

*Powdura® is a registered trademark of The Sherwin-Williams Company.*

*Corafalon® and Envirocron® are registered trademarks of PPG Industries Ohio, Inc.*

*Interpon® is a registered trademark of Akzo Nobel Powder Coatings Ltd.*

*Kynar 500® is a registered trademark of Arkema, Inc.*

*Hylar 5000® is a registered trademark of Solvay Solexis, Inc.*



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](http://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 1606DHPM Aluminum Louver w/ and w/o Damper – L.M.I.**

**APPROVAL DOCUMENT:** Drawing No. **1606DHPM**, titled “1606DHPM Louver w/ and w/o Damper”, sheets 1 through 21 of 21, prepared by manufacturer, dated 06/14/17, with revision A, signed and sealed by Wayne K. Helmila, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, Houston, TX, 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 **revises NOA No. 18-0117.12** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



  
 9/8/21

NOA No. 21-0630.10  
 Expiration Date: August 30, 2023  
 Approval Date: September 16, 2021  
 Page 1

**Nailor Industries Inc.**

**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. 18-0117.12)*
2. Drawing No. **1606DHPM**, titled "1606DHPM Louver w/ and w/o Damper", sheets 1 through 21 of 21, dated 06/14/17, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, P.E.  
*(Submitted under NOA No. 18-0117.12)*

**B. TESTS**

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with installation diagram of Model 1606 DHPM Louver System, prepared by Intertek, Test Report No. **H1900.01-801-18-R2**, dated 09/21/17 and revised on 05/23/18, signed and sealed by Tyler Westerling, P.E.  
*(Submitted under NOA No. 18-0117.12)*
2. Test Report on Wind Driven Rain Resistance per TAS 100(A)-95 on a Model 1606 DHPM Aluminum Louver with damper, prepared by Intertek, Test Report No. **H0222.04-801-18**, dated 09/27/17, signed and sealed by Tyler Westerling, P.E.  
*(Submitted under NOA No. 18-0117.12)*
3. Test Report on High Velocity Wind Driven Rain Resistance per ANSI/AMCA 550-09 on a Model 1606 DHPM Aluminum Louver, prepared by Intertek, Test Report No. **H0222.03-801-18**, dated 09/28/17, signed and sealed by Tyler Westerling, P.E.  
*(Submitted under NOA No. 18-0117.12)*

**C. CALCULATIONS**

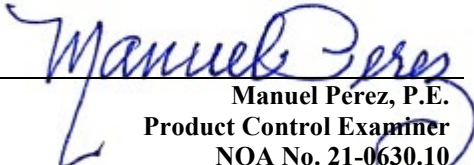
1. Louver structural calculations dated 11/03/17, prepared by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.  
*(Submitted under NOA No. 18-0117.12)*

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. None.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 21-0630.10  
Expiration Date: August 30, 2023  
Approval Date: September 16, 2021

**Nailor Industries Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

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

**F. STATEMENTS**

1. Statement letter of code conformance to the **FBC 6<sup>th</sup> Edition (2017)** issued by Rice Engineering, dated 04/16/18, signed and sealed by Wayne K. Helmila, P.E.  
*(Submitted under NOA No. 18-0117.12)*
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. 18-0117.12)*

**G. OTHERS**

1. None.

**2. NEW EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **1606DHPM**, titled "1606DHPM Louver w/ and w/o Damper", sheets 1 through 21 of 21, dated 06/14/17, with revision A, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, 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**

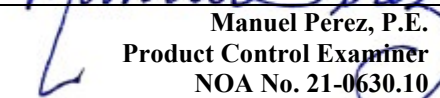
1. None.

**F. STATEMENTS**

1. Statement letter of code conformance to the **7<sup>th</sup> edition (2020) FBC**, issued by Rice Engineering, dated 08/16/21, signed and sealed by Wayne K. Helmila, P.E.

**G. OTHERS**

1. Notice of Acceptance No. **18-0117.12**, issued to Nailor Industries Inc. for their Model 1606DHPM Aluminum Louver, approved on 08/30/18 and expiring on 08/30/23.

  
Manuel Perez, P.E.  
Product Control Examiner  
NOA No. 21-0630.10  
Expiration Date: August 30, 2023  
Approval Date: September 16, 2021



DRAWING INDEX:

1. INDEX TO DRAWINGS AND NOTES.
2. 1606DHPM LOUVER- FLANGE FRAME SLEEVE MOUNT
3. 1606DHPM LOUVER- CONTINUOUS ANGLE MOUNT
4. 1606DHPM / DAMPER- FLANGE FRAME SLEEVE MOUNT
5. 1606DHPM / DAMPER- CONTINUOUS ANGLE MOUNT
6. 1606DHPM LOUVER- FLANGE FRAME SLEEVE MOUNT HEAD & SILL DETAIL
7. 1606DHPM LOUVER- CONTINUOUS ANGLE MOUNT HEAD & SILL DETAIL.
8. 1606DHPM LOUVER- BLADE SUPPORT DETAIL.
9. 1606DHPM LOUVER- FLANGE FRAME SLEEVE MOUNT JAMB DETAIL
10. 1606DHPM LOUVER- CONTINUOUS ANGLE MOUNT JAMB DETAIL.
11. 1606DHPM LOUVER- FLANGE FRAME SLEEVE MOUNT MULLION DETAIL.
12. 1606DHPM LOUVER- CONTINUOUS ANGLE MOUNT MULLION DETAIL.
13. 1606DHPM LOUVER / DAMPER FLANGE FRAME W/ SLEEVE & MULLION ANGLE MOUNT HEAD & SILL DETAIL.
14. 1606DHPM / DAMPER- FLANGE FRAME SLEEVE MOUNT JAMB AND MULLION DETAIL
15. 1606DHPM LOUVER / DAMPER CONTINUOUS ANGLE MOUNT JAMB AND MULLION DETAIL.
16. 1606DHPM LOUVER W/ AND W/O DAMPER- SLEEVE / CONTINUOUS MOUNT PART PROFILES.
17. 1606DHPM LOUVER W/ AND W/O DAMPER- SLEEVE / CONTINUOUS MOUNT PART PROFILES.
18. MULLION ANGLE BACK OF THE WALL MOUNT
19. 1606DHPM LOUVER W/ AND W/O DAMPER AVAILABLE SHAPES
20. 1606DHPM LOUVER W/ AND W/O DAMPER- SLEEVE / CONTINUOUS MOUNT BILL OF MATERIAL.
21. 1606DHP LOUVER W/ AND W/O DAMPER - NOTES AND FASTENER SCHEDULE

NOTES:

- 1) THE 1606DHPM HAS BEEN TESTED IN ACCORDANCE WITH THE MIAMI-DADE COUNTY PROTOCOLS TAS - 100 (A),TAS-201, 202, & 203 FOR LARGE MISSILE IMPACT, 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 SUBSTRUCTURE. MINIMUM EDGE DISTANCE AND EMBEDMENT REQUIREMENTS ARE SHOWN. NAILOR IND. DOES NOT DETERMINE THE STURCTURE INTEGRITY OF THE SUBSTRUCTURE.
- 5) MAXIMUM SINGLE SECTION SIZE : 72" WIDE X 120" HIGH.
- 6) MAXIMUM ASSEMBLED LOUVER SIZE UNLIMITED WIDE X 120" HIGH. MAX. MULLION SPACING IS 72".
- 7) SECTIONS OR ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDING A SUITABLE STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER.

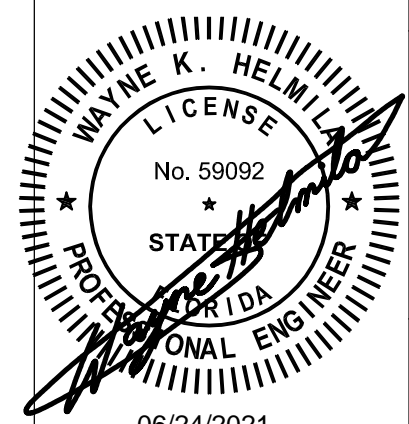
TESTS PREFORMED:

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 150 PSF

CHK BY: Mastourian	SCALE: NTS	SHEET: 1 OF 21	REV A
DWN BY: f cortinas	DATE: 6/14/2017		
DWN BY: f cortinas		DWG. NO.	1606DHPM

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

TITLE:  
 1606DHPM LOUVER  
 W/ AND W/O DAMPER  
 INDEX



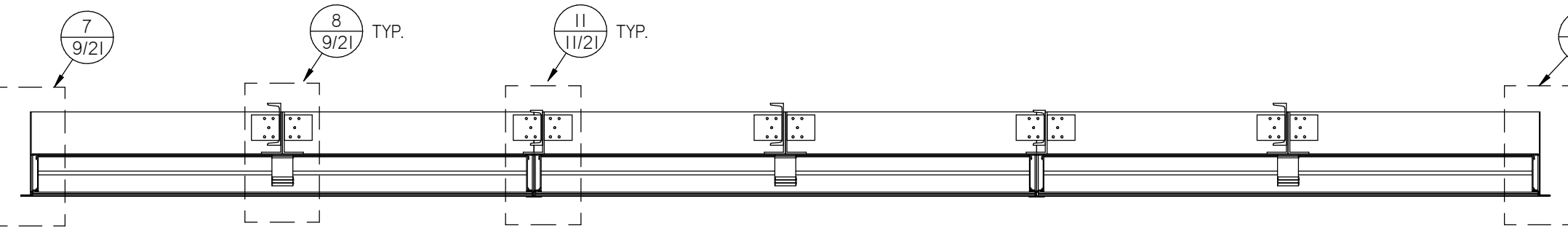
06/24/2021  
 COA: 9090

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

**PRODUCT REVISED**  
**as complying with the Florida Building Code**  
**NOA-No. 21-0630.10**  
**Expiration Date: 08/30/2023**  
 By: *Manuel Perez*  
**Miami-Dade Product Control**

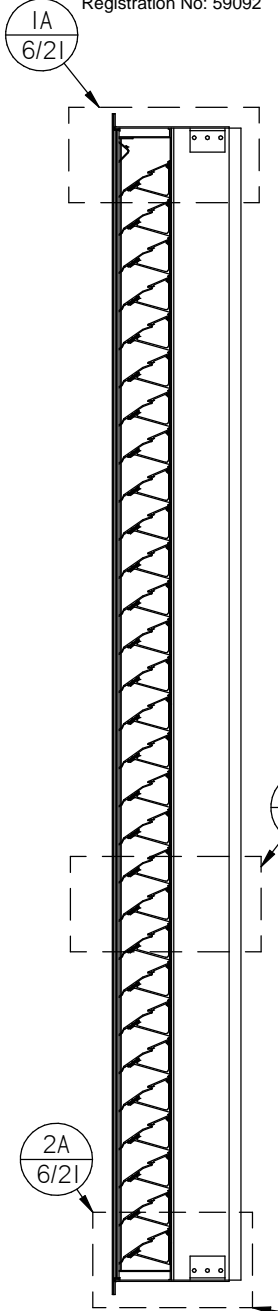
Florida Firm No: F-01000005061  
 Certificate of Authorization: #9090  
 Wayne K. Helmila  
 Registration No: 59092

REVISIONS:  
 REV A: PG 16,17,18,20, 21

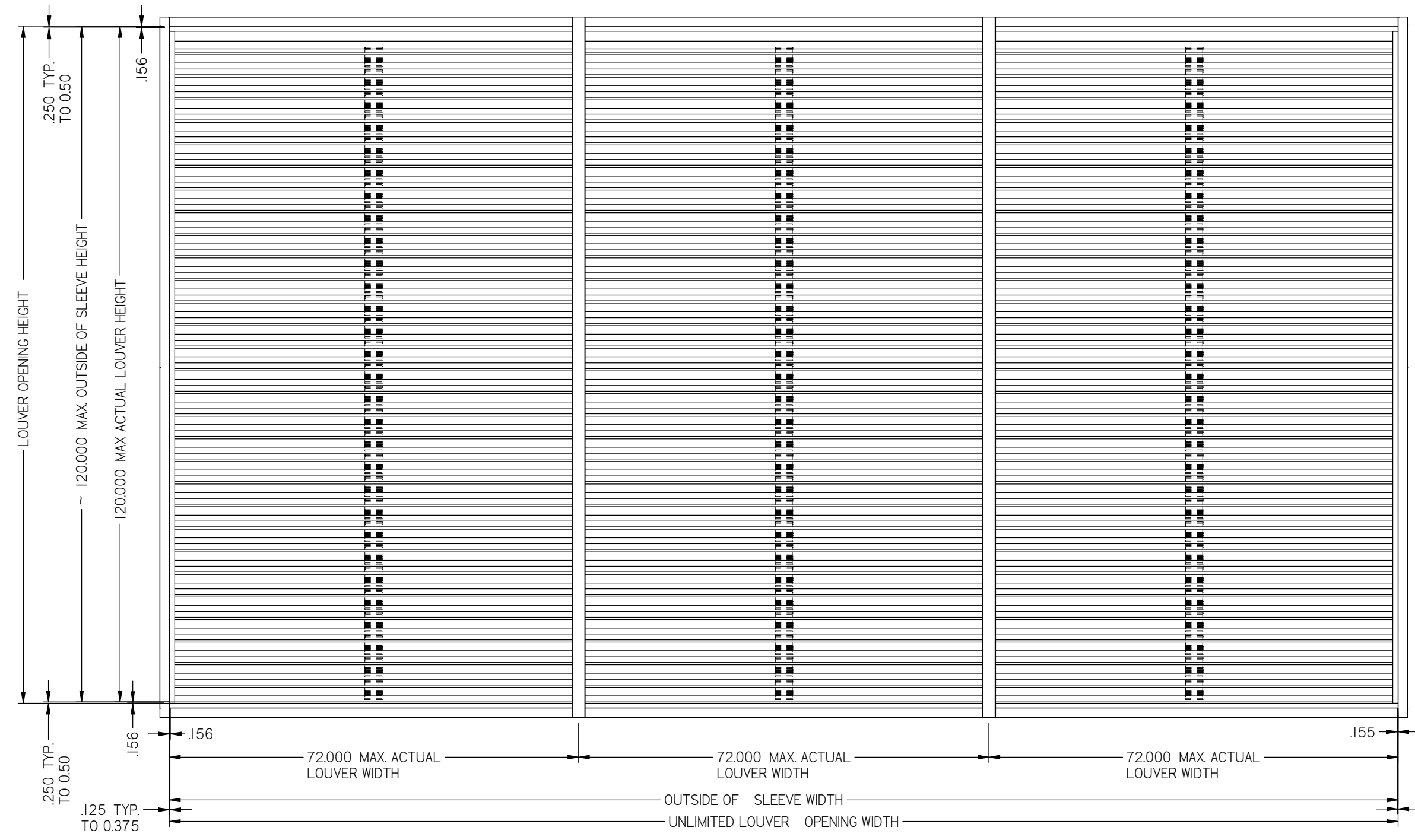


HORIZONTAL CROSS SECTION

**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



VERTICAL CROSS SECTION

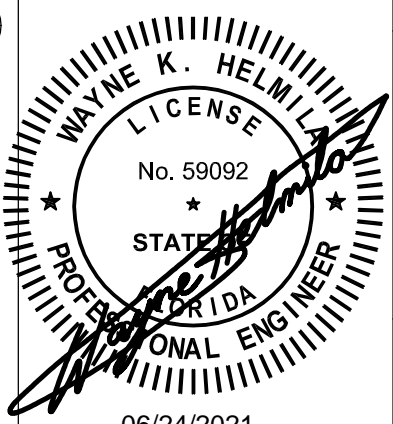


ELEVATION

CHK BY: Mastourian	SCALE: NTS
DWN BY: f cortinas	DATE: 6/14/2017
SHEET: 2 OF 21	
DWG. NO. 1606DHPM	

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

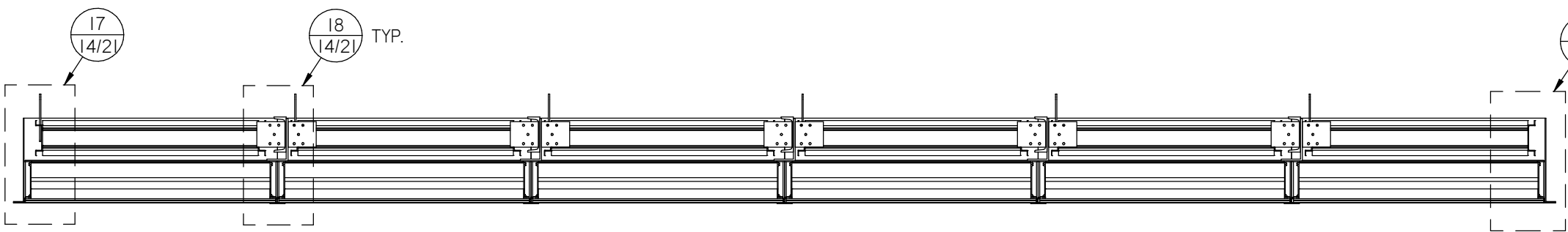
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**1606DHPM LOUVER  
FLANGE FRAME  
SLEEVE MOUNT**



06/24/2021  
COA: 9090

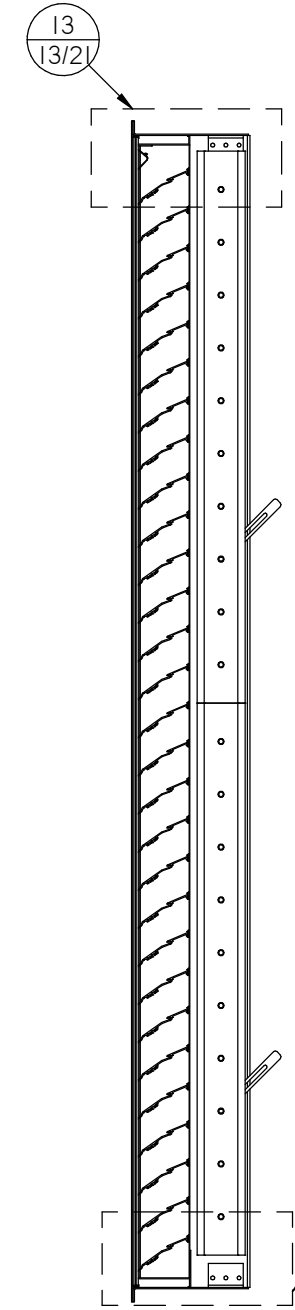
**PRODUCT REVISED**  
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NOA-No. **21-0630.10**  
Expiration Date: **08/30/2023**  
By: *Manuel Perez*  
Miami-Dade Product Control



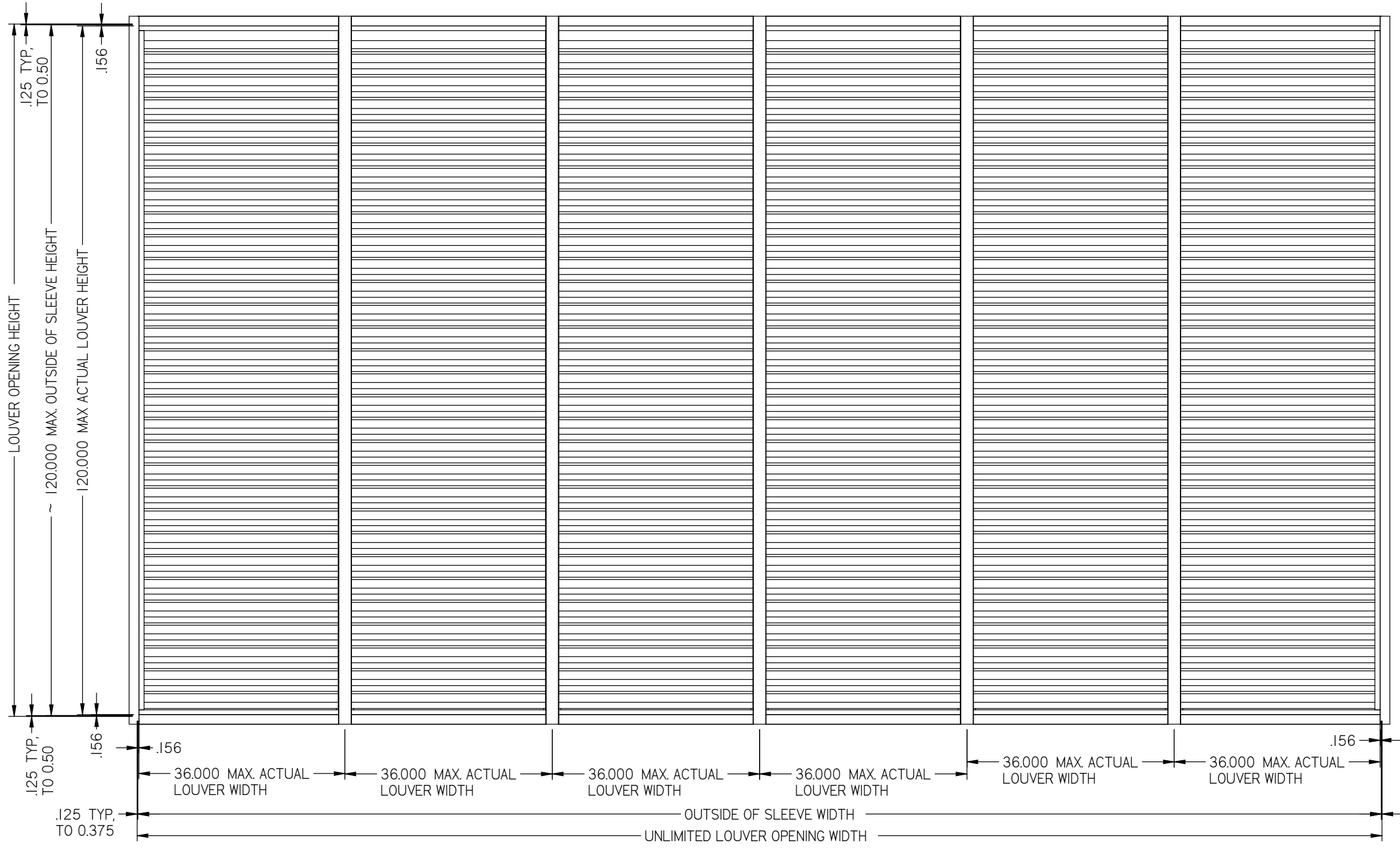


HORIZONTAL CROSS SECTION

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 105 School Creek Trail  
 Luxemburg, WI 54217  
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 www.rice-inc.com  
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 Wayne K. Helmila  
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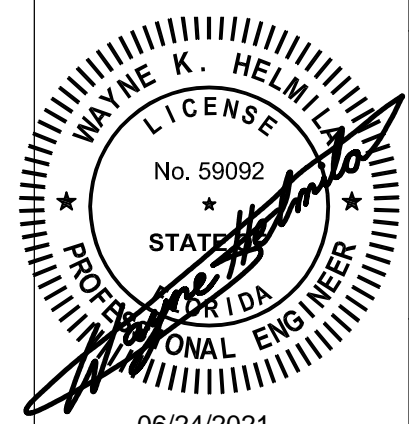
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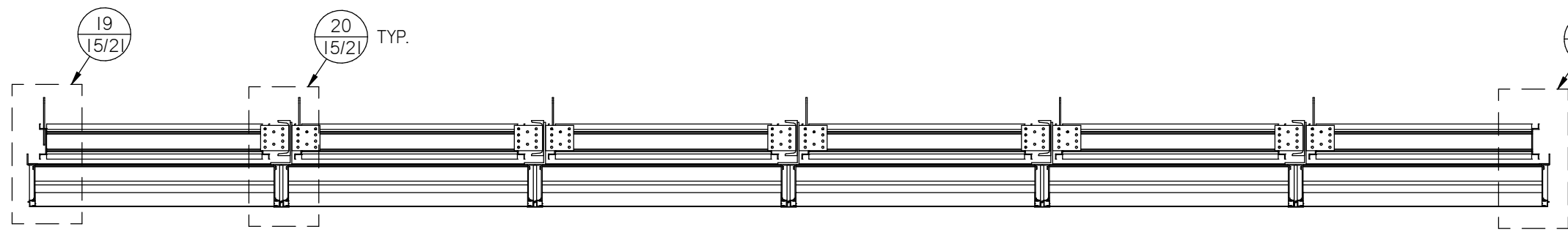
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 DWN BY: fcoirtinas  
 DATE: 6/14/2017  
 SCALE: NTS  
 SHEET: 4 OF 21  
 DWG. NO. 1606DHPM

**Nailor Industries Inc.**  
 4714 Winfield Road Houston, TX 77039  
 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086  
 TITLE: 1606DHPM / DAMPER FLANGE FRAME SLEEVE MOUNT



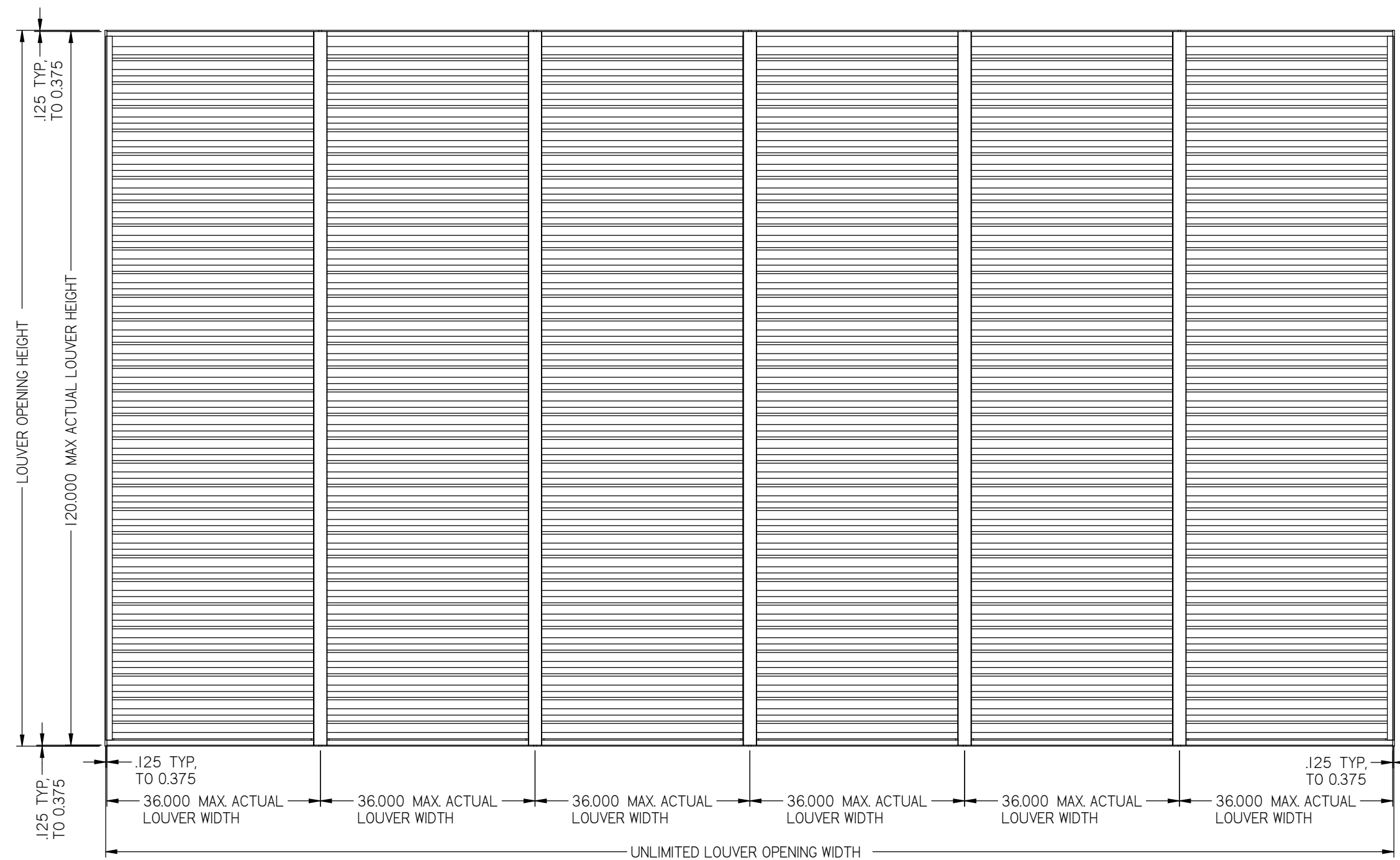
06/24/2021  
 COA: 9090  
**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 NOA-No. 21-0630.10  
 Expiration Date: 08/30/2023  
 By: Manuel Perez  
 Miami-Dade Product Control



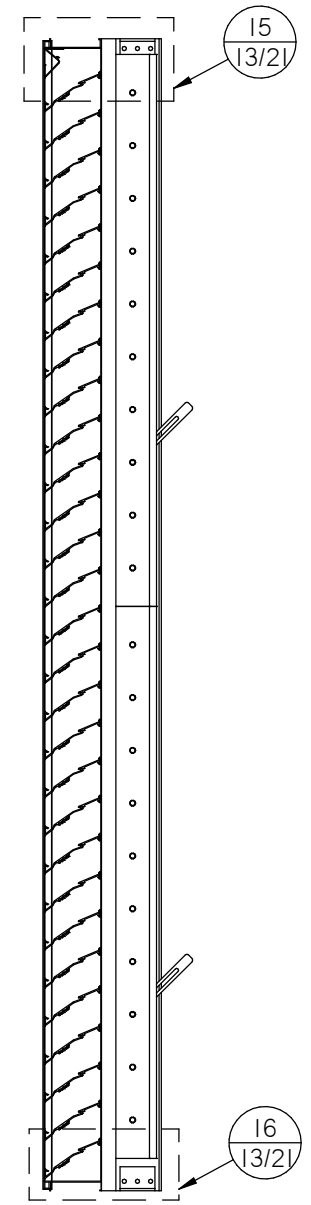
HORIZONTAL CROSS SECTION

**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-0100005061  
 Certificate of Authorization: #9090  
 Wayne K. Helmila  
 Registration No: 59092

19  
15/21 OPP.



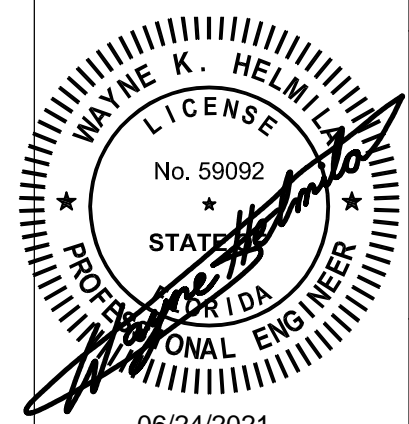
ELEVATION



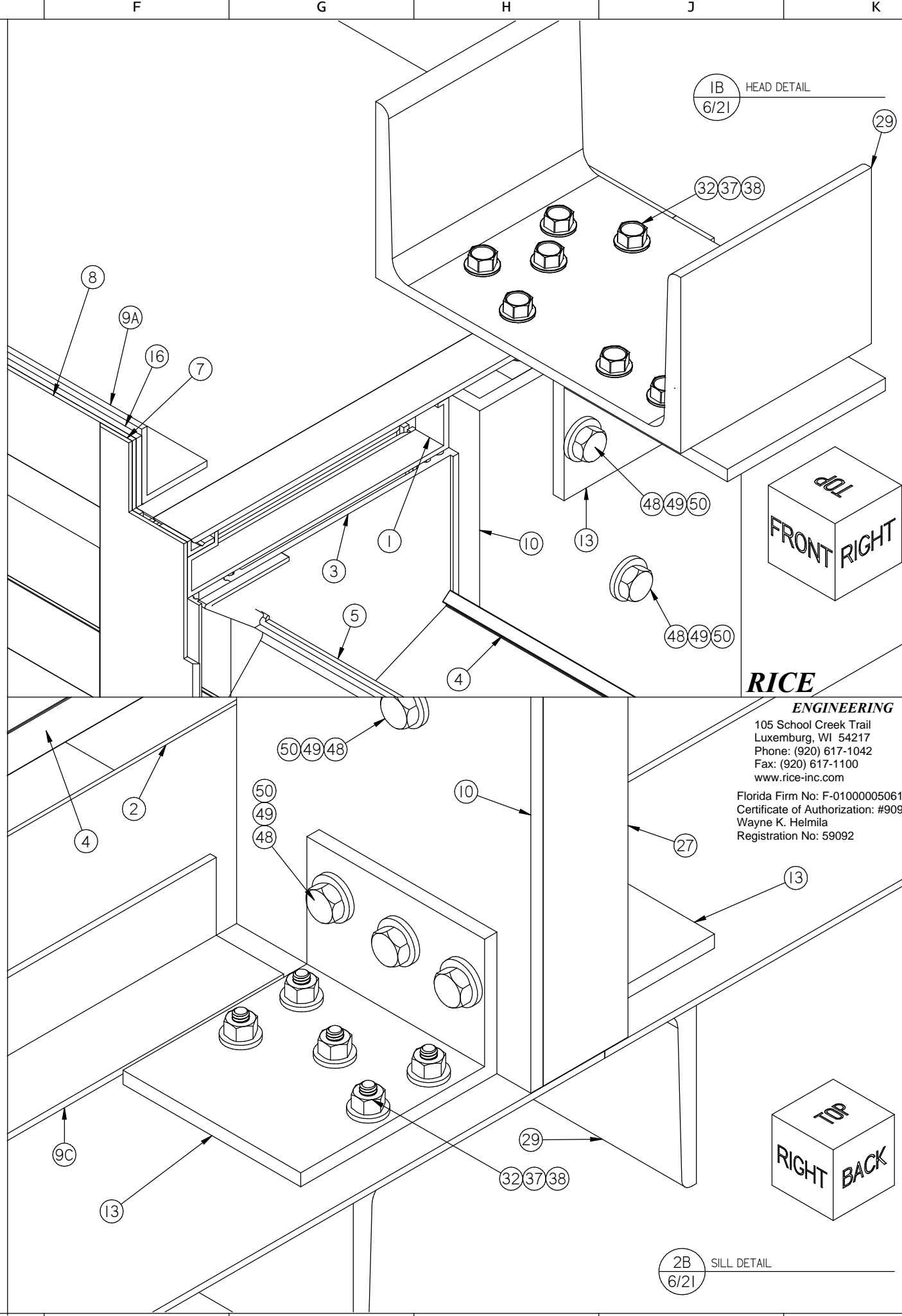
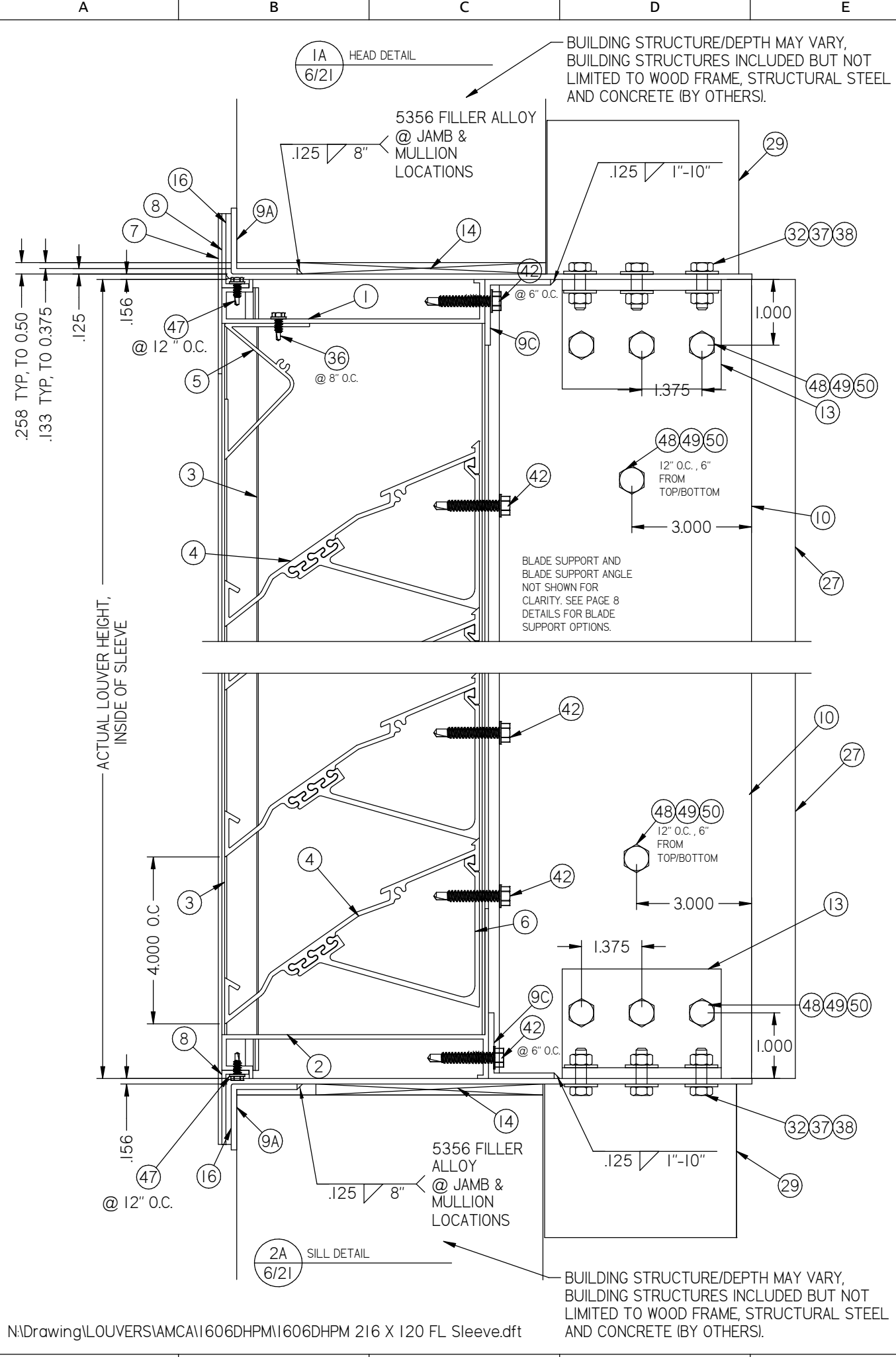
VERTICAL CROSS SECTION

CHK BY: Mastourian  
 DWN BY: fcoirtinas  
 DATE: 6/14/2017  
 SCALE: NTS  
 SHEET: 5 OF 21  
 DWG. NO. 1606DHPM  
 REV. A

**Nailor Industries Inc.**  
 4714 Winfield Road Houston, TX 77039  
 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086  
 TITLE: 1606DHPM / DAMPER CONTINUOUS ANGLE MOUNT



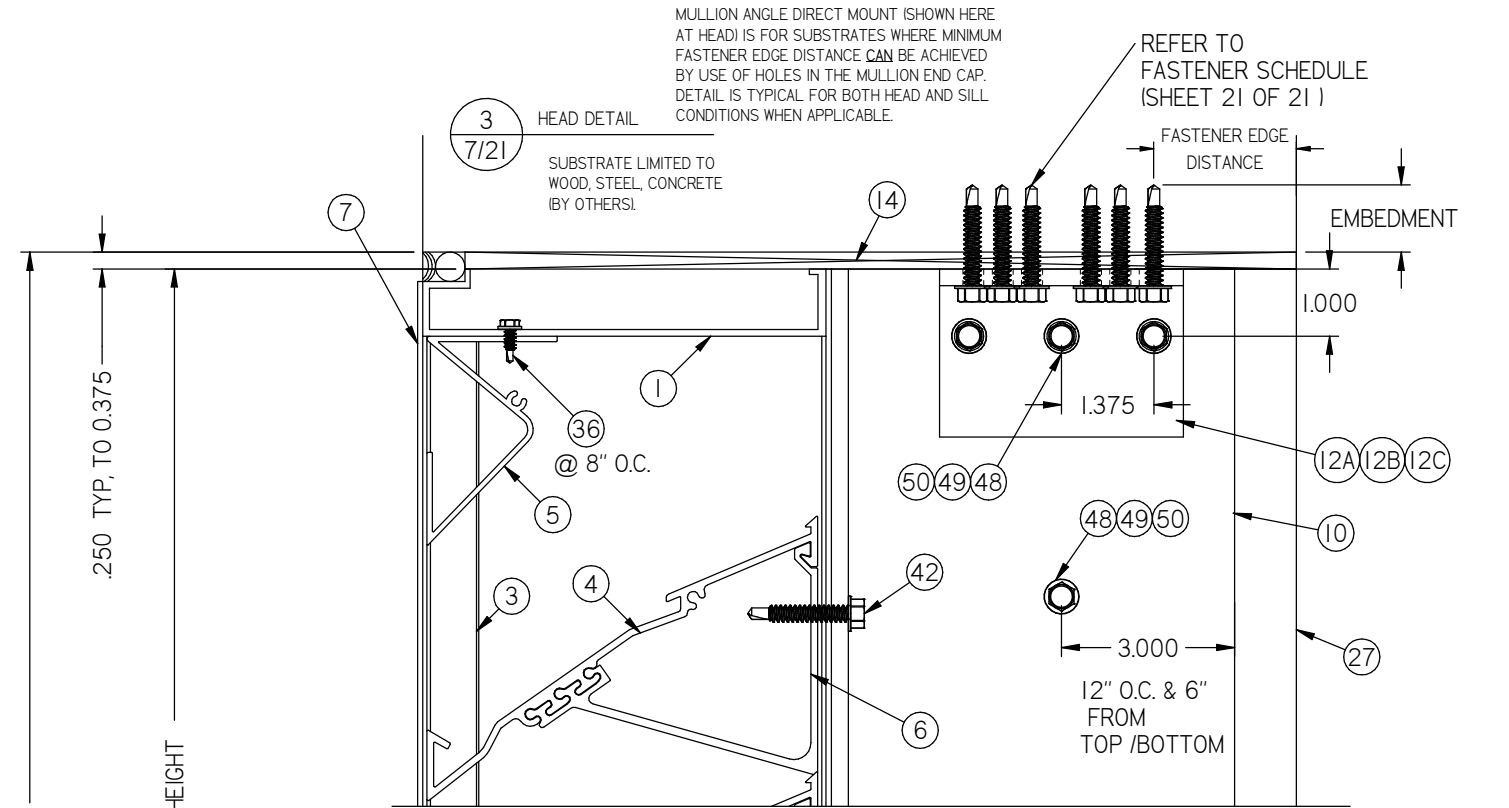
06/24/2021  
 COA: 9090  
**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 NOA-No. 21-0630.10  
 Expiration Date: 08/30/2023  
 By: Manuel Perez  
 Miami-Dade Product Control



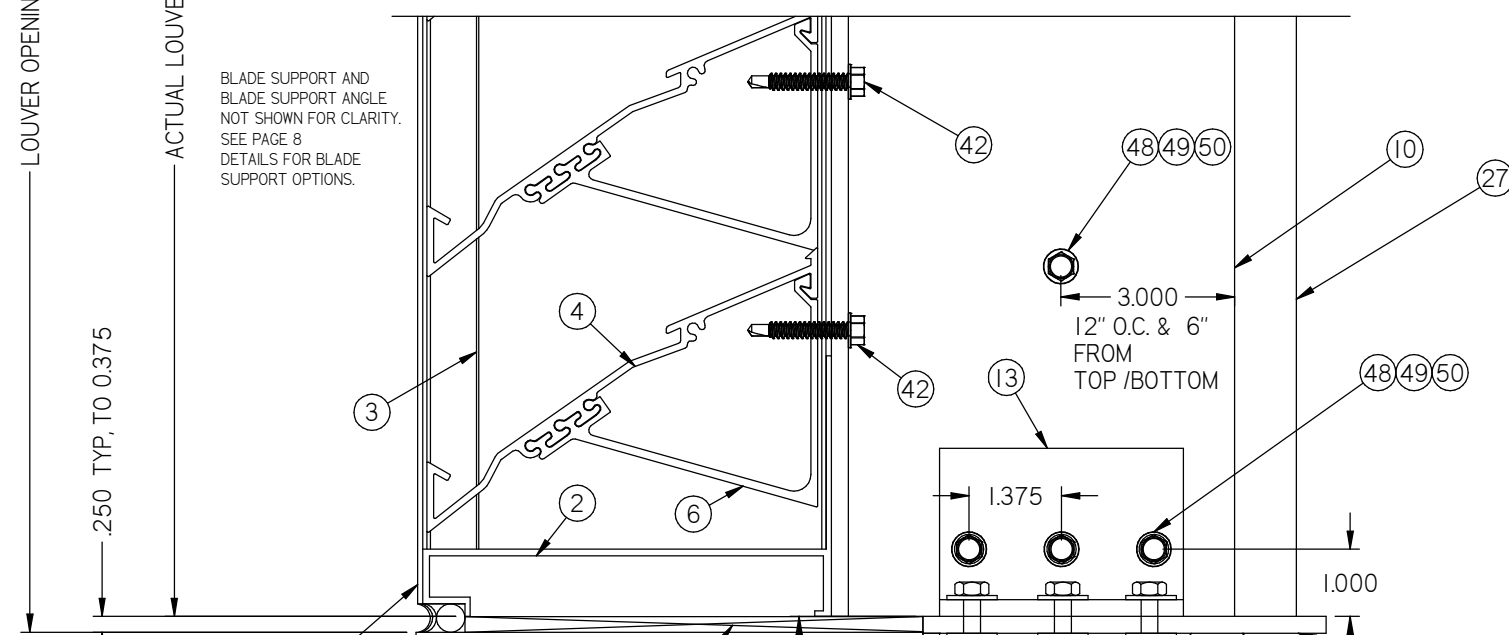
CHK BY: Mastourian	SCALE: NTS	SHEET: 6 OF 21	REV A
DWN BY: fcoirtinas	DATE: 6/14/2017		
 Nailor Industries Inc. 4714 Winfield Road Houston, TX 77039 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086	TITLE: <b>1606DHPM LOUVER          FLANGE FRAME          SLEEVE MOUNT          HEAD &amp; SILL DETAIL</b>		DWG. NO. <b>1606DHPM</b>
	<b>RICE</b> 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		
		06/24/2021	
		COA: 9090	
<b>PRODUCT REVISED</b> as complying with the Florida Building Code <b>NOA-No. 21-0630.10</b> <b>Expiration Date: 08/30/2023</b> By: <i>Manuel Fern</i> <b>Miami-Dade Product Control</b>			

MULLION ANGLE DIRECT MOUNT (SHOWN HERE AT HEAD) IS FOR SUBSTRATES WHERE MINIMUM FASTENER EDGE DISTANCE CAN BE ACHIEVED BY USE OF HOLES IN THE MULLION END CAP. DETAIL IS TYPICAL FOR BOTH HEAD AND SILL CONDITIONS WHEN APPLICABLE.

REFER TO FASTENER SCHEDULE (SHEET 21 OF 21)



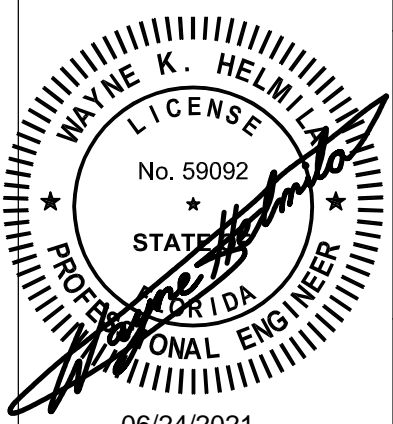
BLADE SUPPORT AND BLADE SUPPORT ANGLE NOT SHOWN FOR CLARITY. SEE PAGE 8 DETAILS FOR BLADE SUPPORT OPTIONS.



**RICE**  
ENGINEERING

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Luxemburg, WI 54217  
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Fax: (920) 617-1100  
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Florida Firm No: F-0100005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092



06/24/2021  
COA: 9090

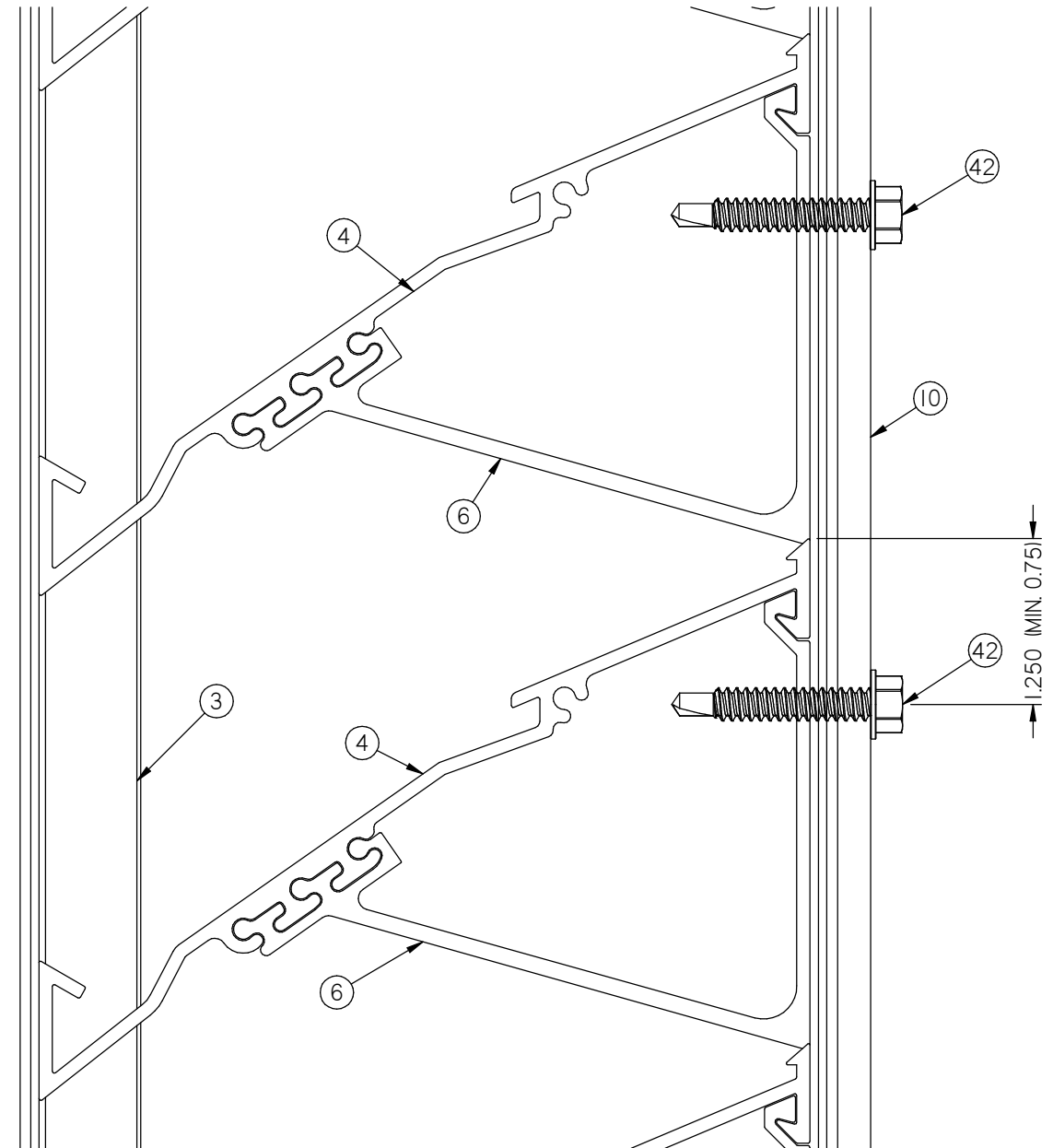
**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. **21-0630.10**  
Expiration Date: **08/30/2023**  
By: *Manuel Perez*  
Miami-Dade Product Control

CHK BY: Mastourian  
DWN BY: fcortinas  
DATE: 6/14/2017  
SCALE: NTS  
SHEET: 7 OF 21  
DWG. NO. 1606DHPM  
REV. A

**Nailor Industries Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086  
TITLE: 1606DHPM LOUVER MULLION ANGLE MOUNT HEAD & SILL DETAILS

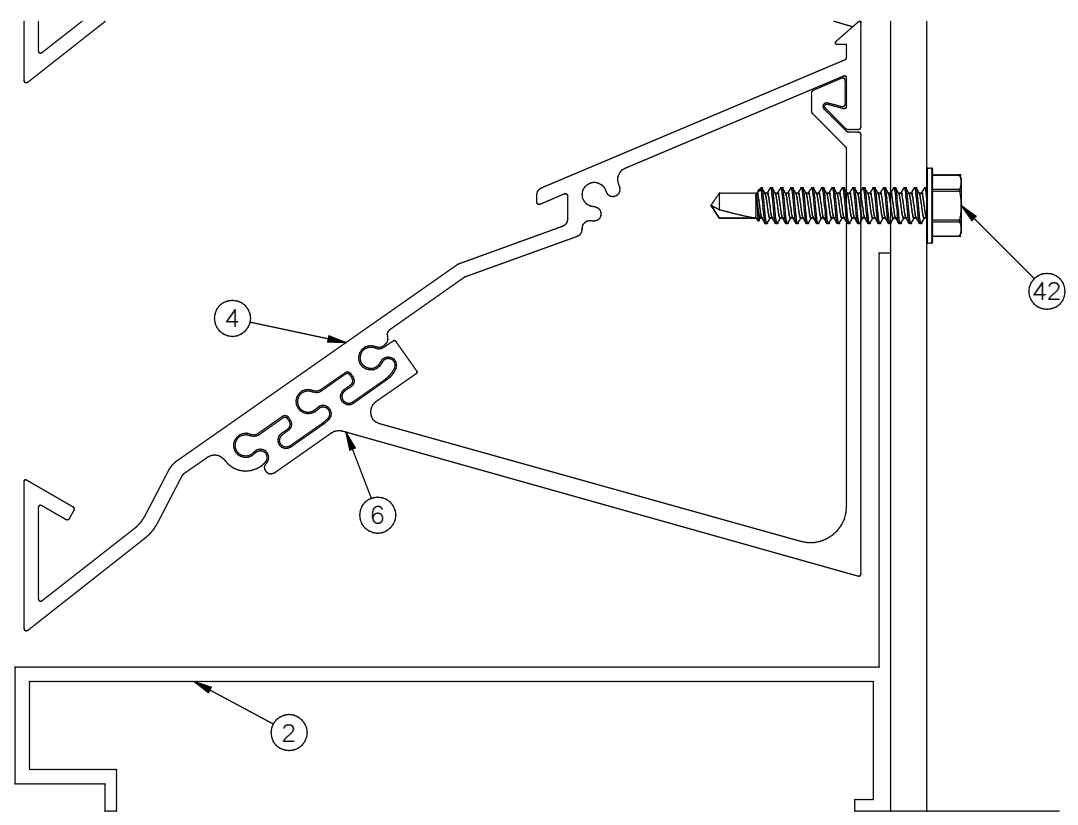
A B C D E F G H J K L

1 2 3 4 5 6 7



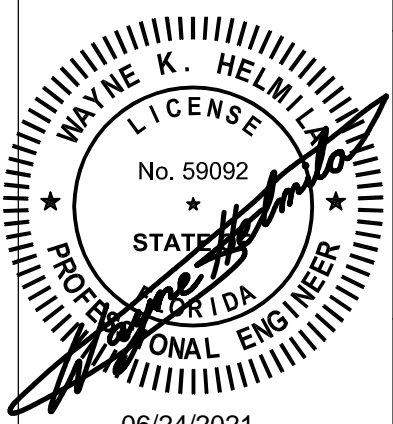
5 BLADE SUPPORT DETAIL  
8/21

NOTE: THE BLADE SUPPORT ANGLE (ITEM 10 IS NOT SHOWN IN THE DETAILS IN ORDER TO IMPROVE CLARITY. THE BLADE SUPPORT ANGLE IS ATTACHED TO THE BLADE SUPPORT BRACE (ITEM 6). BLADE SUPPORT BRACKET 6 (SHOWN) IS ANY OF THE DRAWINGS FOR DETAIL 6.




6 BOTTOM BLADE SUPPORT DETAIL  
8/21

**RICE**  
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www.rice-inc.com  
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092



06/24/2021  
COA: 9090

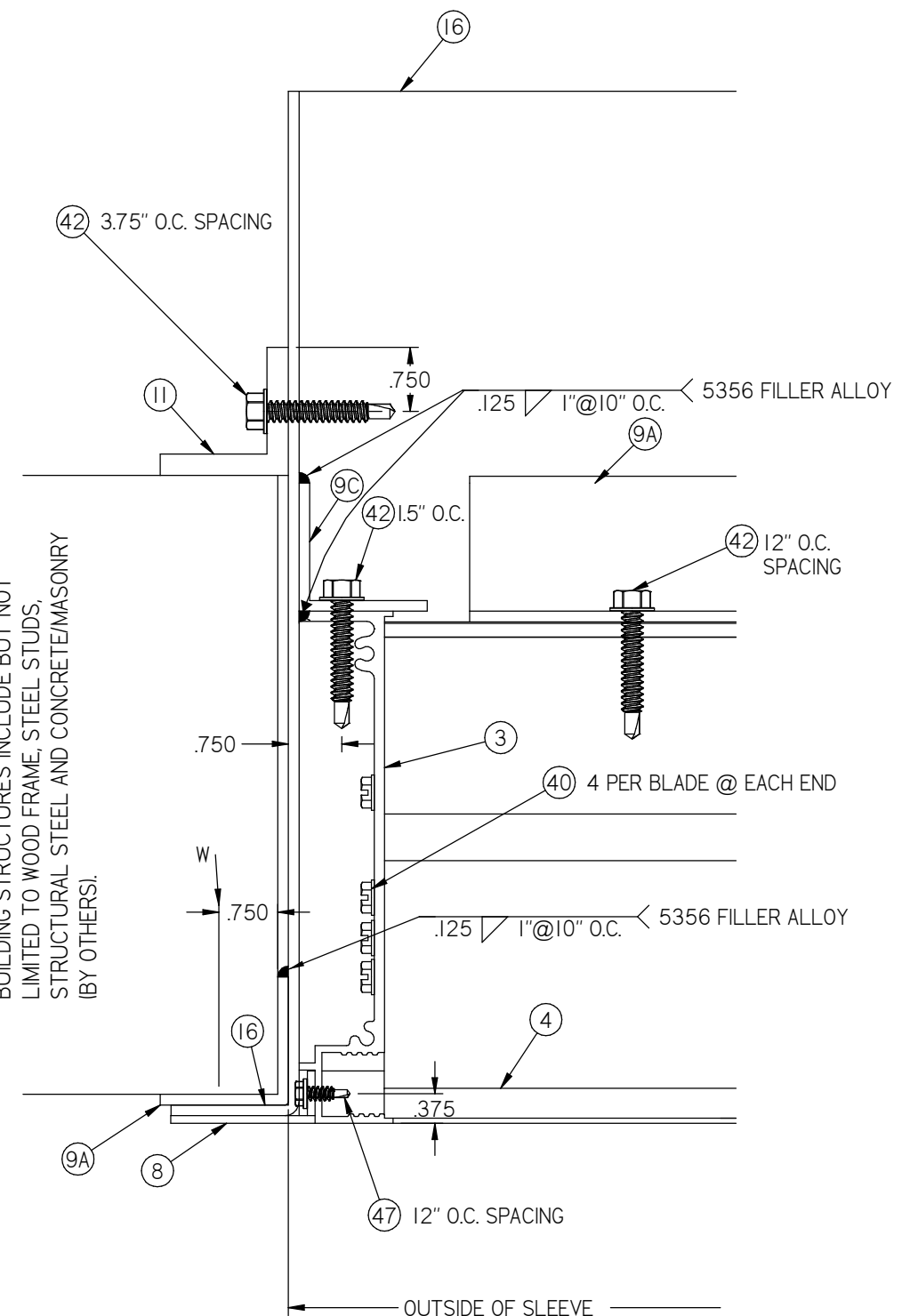
**PRODUCT REVISED**  
as complying with the Florida Building Code  
**NOA-No. 21-0630.10**  
**Expiration Date: 08/30/2023**  
By: *Manuel Fern*  
**Miami-Dade Product Control**

	<b>Nailor Industries Inc.</b> 4714 Winfield Road Houston, TX 77039 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086	DWN BY: fcortinas DATE: 6/14/2017	CHK BY: Mastourian SCALE: NTS
TITLE: <b>1606DHPM LOUVER BLADE SUPPORT DETAIL</b>		SHEET: 8 OF 21	
		DWG. NO. <b>1606DHPM</b>	

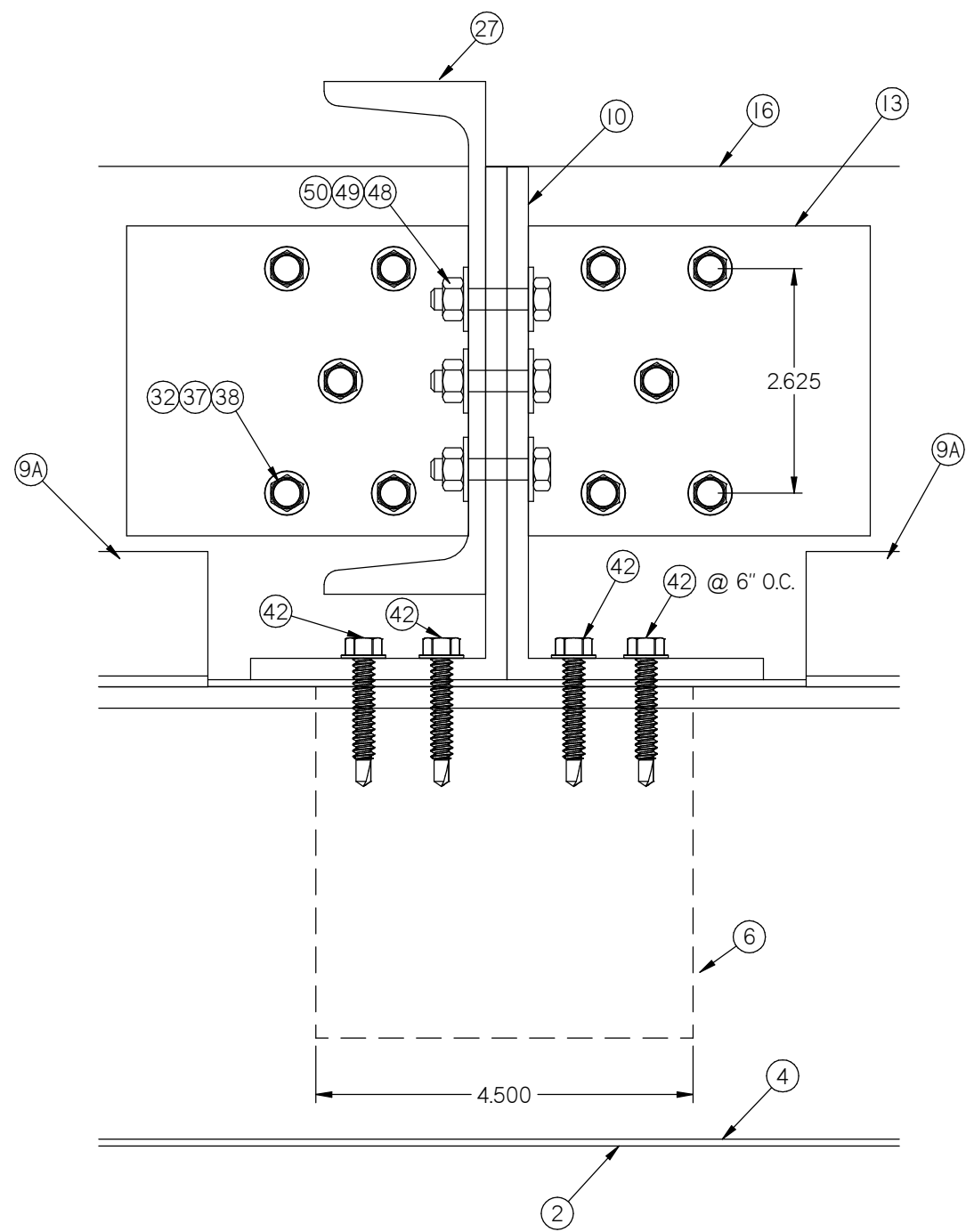
A B C D E F G H J K L



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

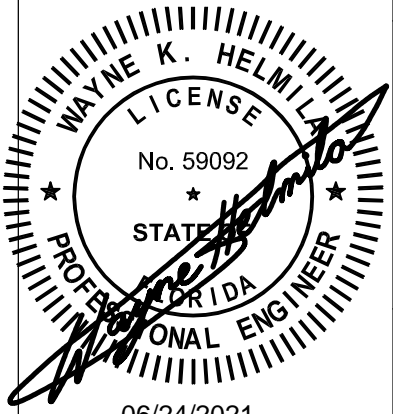


7 JAMB DETAIL  
9/21



8 SUPPORT DETAIL  
9/21

**RICE**  
**ENGINEERING**  
 105 School Creek Trail  
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 Phone: (920) 617-1042  
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 Florida Firm No: F-01000005061  
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 Wayne K. Helmila  
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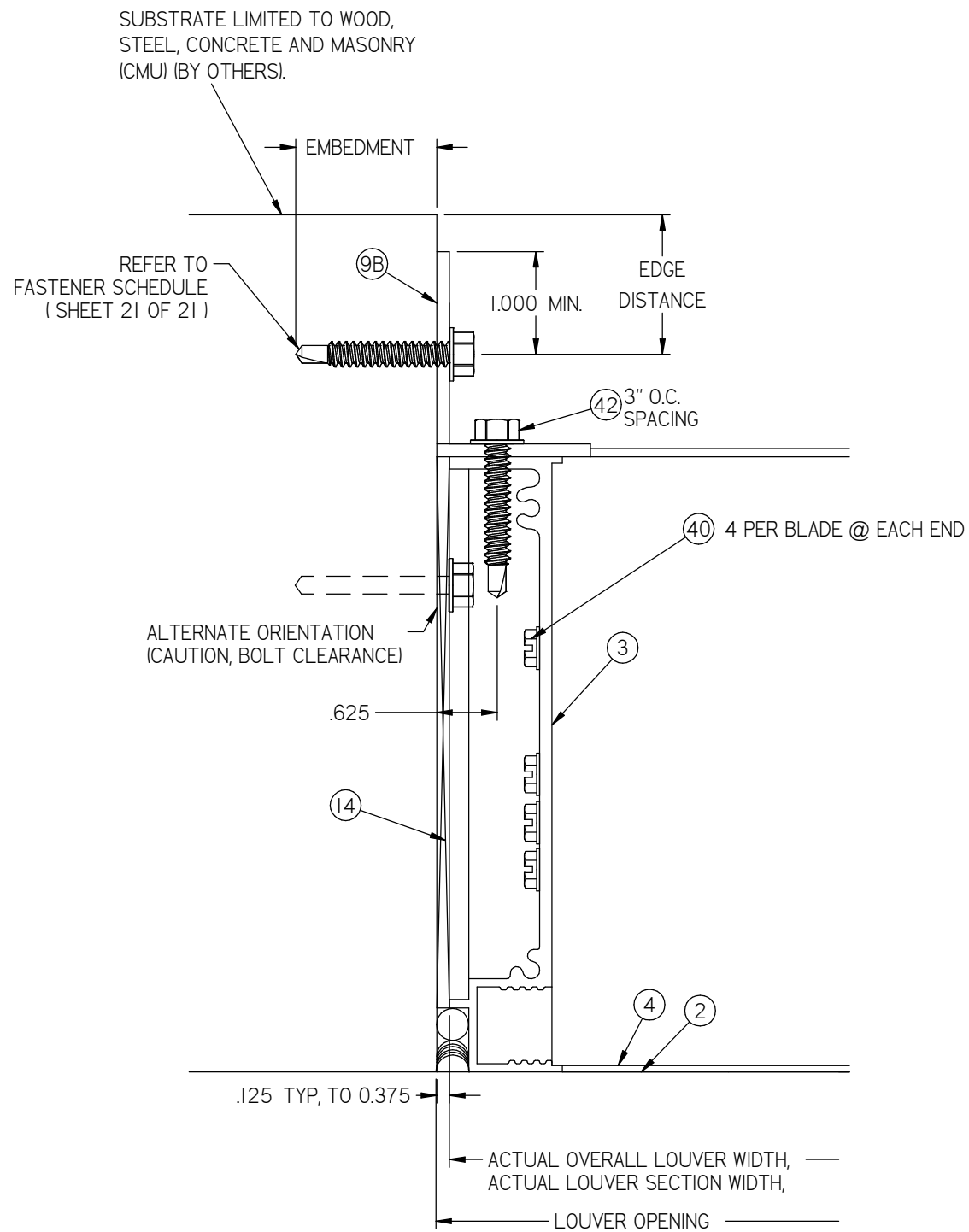


06/24/2021  
 COA: 9090

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
**NOA-No. 21-0630.10**  
**Expiration Date: 08/30/2023**  
 By: *Manuel Perez*  
**Miami-Dade Product Control**

DWN BY: f cortinas  
 DATE: 6/14/2017  
 SCALE: NTS  
 CHK BY: Mastourian  
 SHEET: 9 OF 21  
 DWG. NO. 1606DHPM  
 REV A

**Nailor Industries Inc.**  
 4714 Winfield Road Houston, TX 77039  
 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086  
**1606DHPM LOUVER**  
**FLANGE FRAME SLEEVE MOUNT**  
**JAMB DETAILS**



SUBSTRATE LIMITED TO WOOD, STEEL, CONCRETE AND MASONRY (CMU) (BY OTHERS).

EMBEDMENT

REFER TO FASTENER SCHEDULE (SHEET 21 OF 21)

9B

1.000 MIN.

EDGE DISTANCE

42 3" O.C. SPACING

40 4 PER BLADE @ EACH END

ALTERNATE ORIENTATION (CAUTION, BOLT CLEARANCE)

.625

14

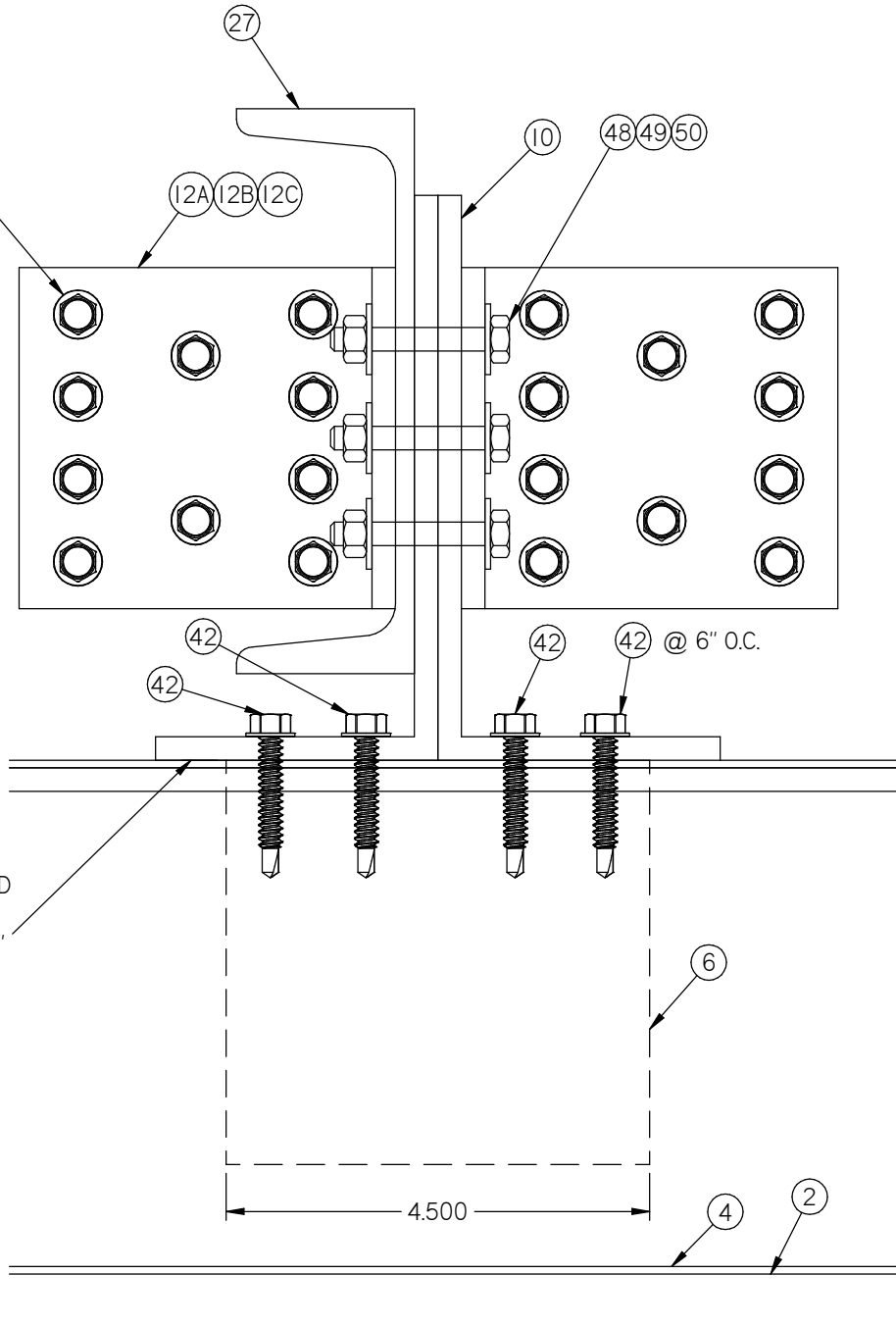
.125 TYP, TO 0.375

ACTUAL OVERALL LOUVER WIDTH, ACTUAL LOUVER SECTION WIDTH,

LOUVER OPENING

9 JAMB DETAIL  
10/21

REFER TO FASTENER SCHEDULE (SHEET 21 OF 21)

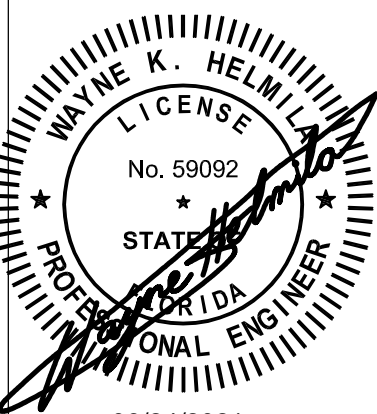


SUPPORT NOT ATTACHED AT HEAD AND SILL AS TO ALLOW IT TO "FLOAT" DURING BLADE LOADING.

4.500

MULLION ANGLE DIRECT MOUNT

10 SUPPORT DETAIL  
10/21



06/24/2021  
COA: 9090

**PRODUCT REVISED**  
as complying with the Florida Building Code  
**NOA-No. 21-0630.10**  
**Expiration Date: 08/30/2023**  
By: *Manuel Bern*  
**Miami-Dade Product Control**

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**ENGINEERING**  
105 School Creek Trail  
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Fax: (920) 617-1100  
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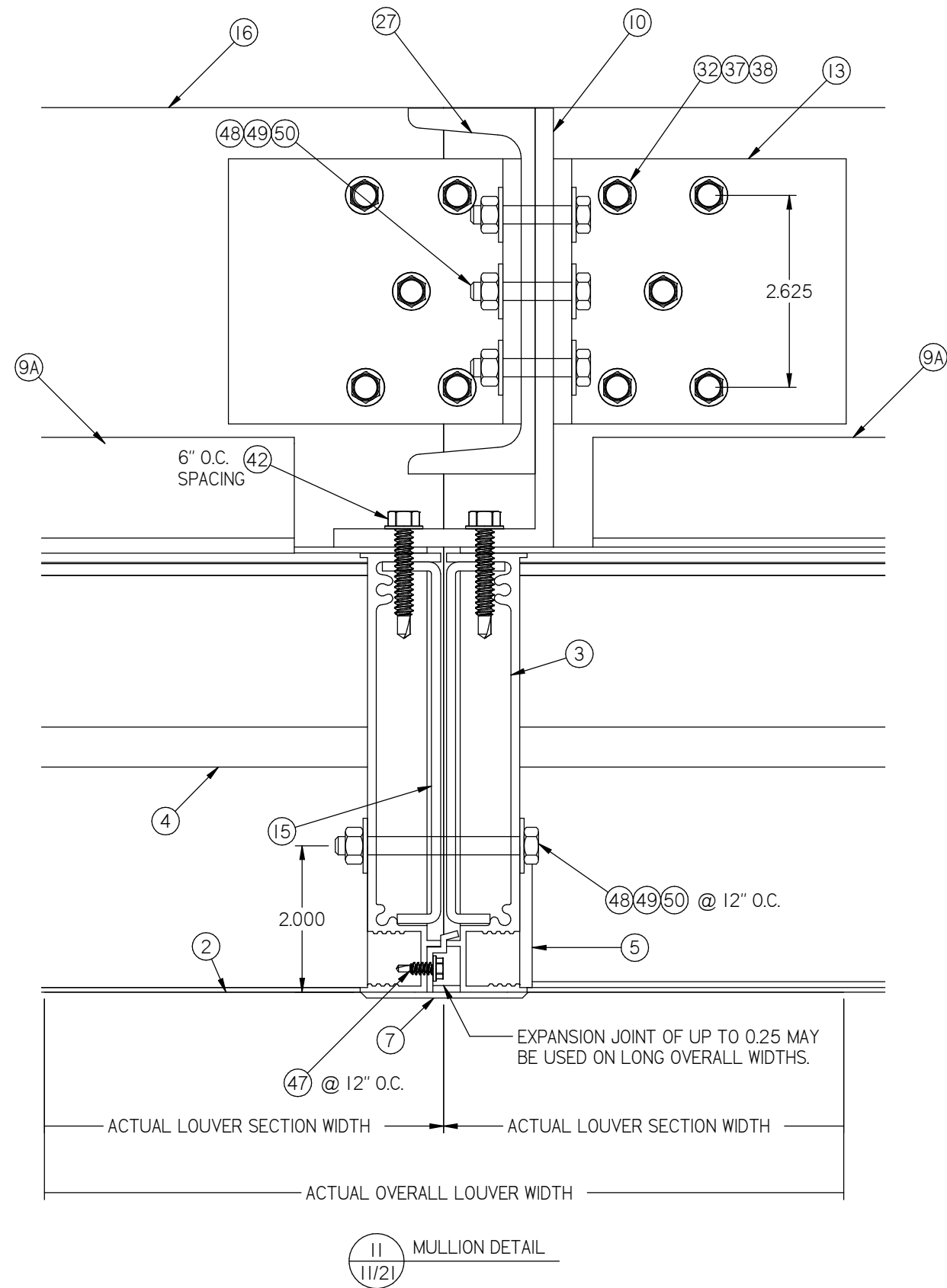
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

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

**1606DHPM LOUVER**  
**COUNTINOUS ANGLE MOUNT**  
**JAMB DETAIL**

DWN BY: fcartinas  
DATE: 6/14/2017  
CHK BY: Mastourian  
SCALE: NTS

SHEET: 10 OF 21  
DWG. NO. 1606DHPM  
REV. A



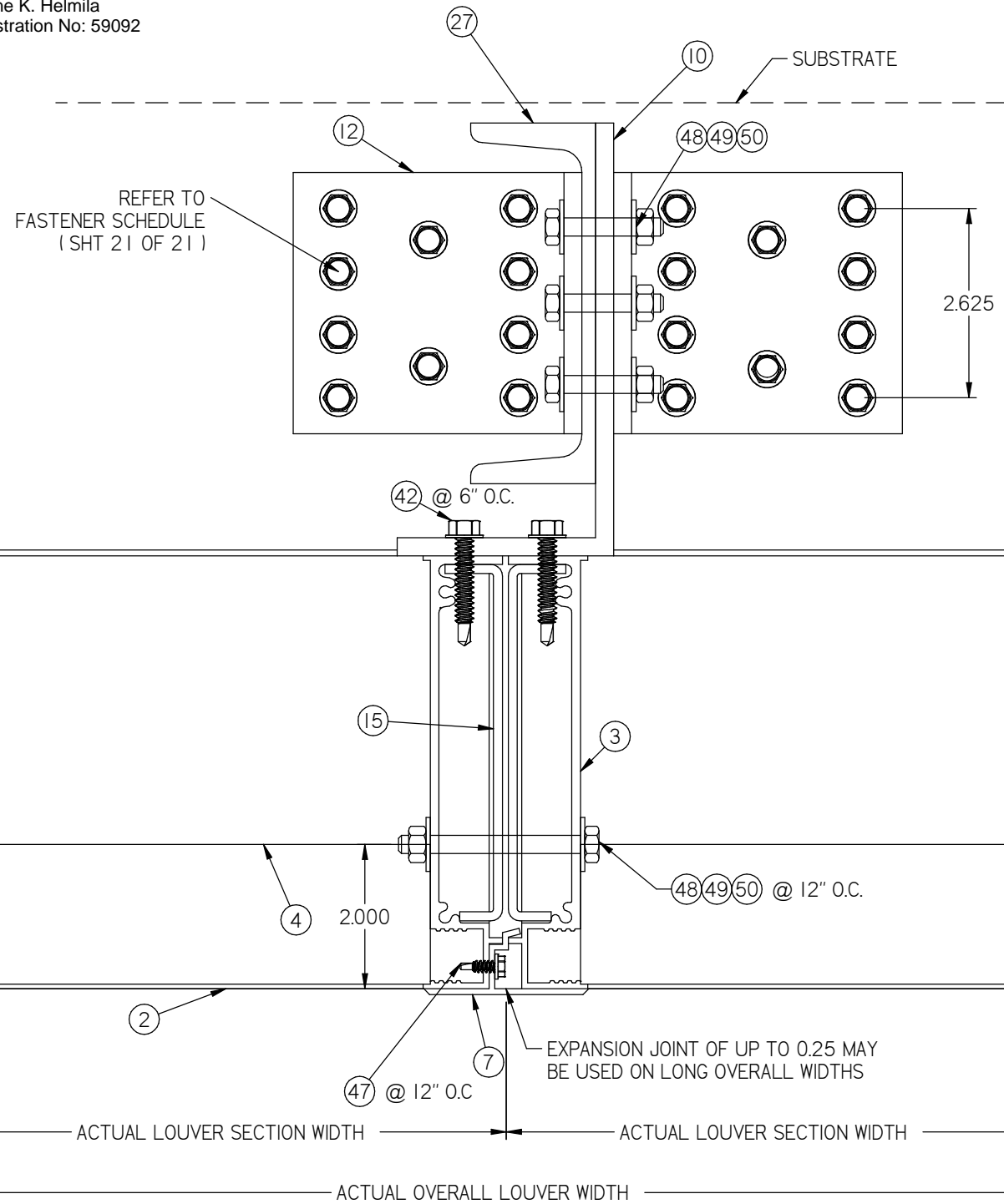
 <b>Nailor Industries Inc.</b> 4714 Winfield Road Houston, TX 77039 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086	DWN BY: f cortinas DATE: 6/14/2017	CHK BY: Mastourian SCALE: NTS
	SHEET: 11 OF 21	
TITLE: <b>1606DHPM LOUVER          FLANGE FRAME SLEEVE MOUNT          MULLION DETAIL</b>		
		
06/24/2021 COA: 9090		
<b>PRODUCT REVISED</b> as complying with the Florida Building Code <b>NOA-No. 21-0630.10</b> <b>Expiration Date: 08/30/2023</b> By: <i>Manuel Perez</i> <b>Miami-Dade Product Control</b>		
<b>RICE ENGINEERING</b> 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		

11 MULLION DETAIL  
11/21

**RICE**  
**ENGINEERING**

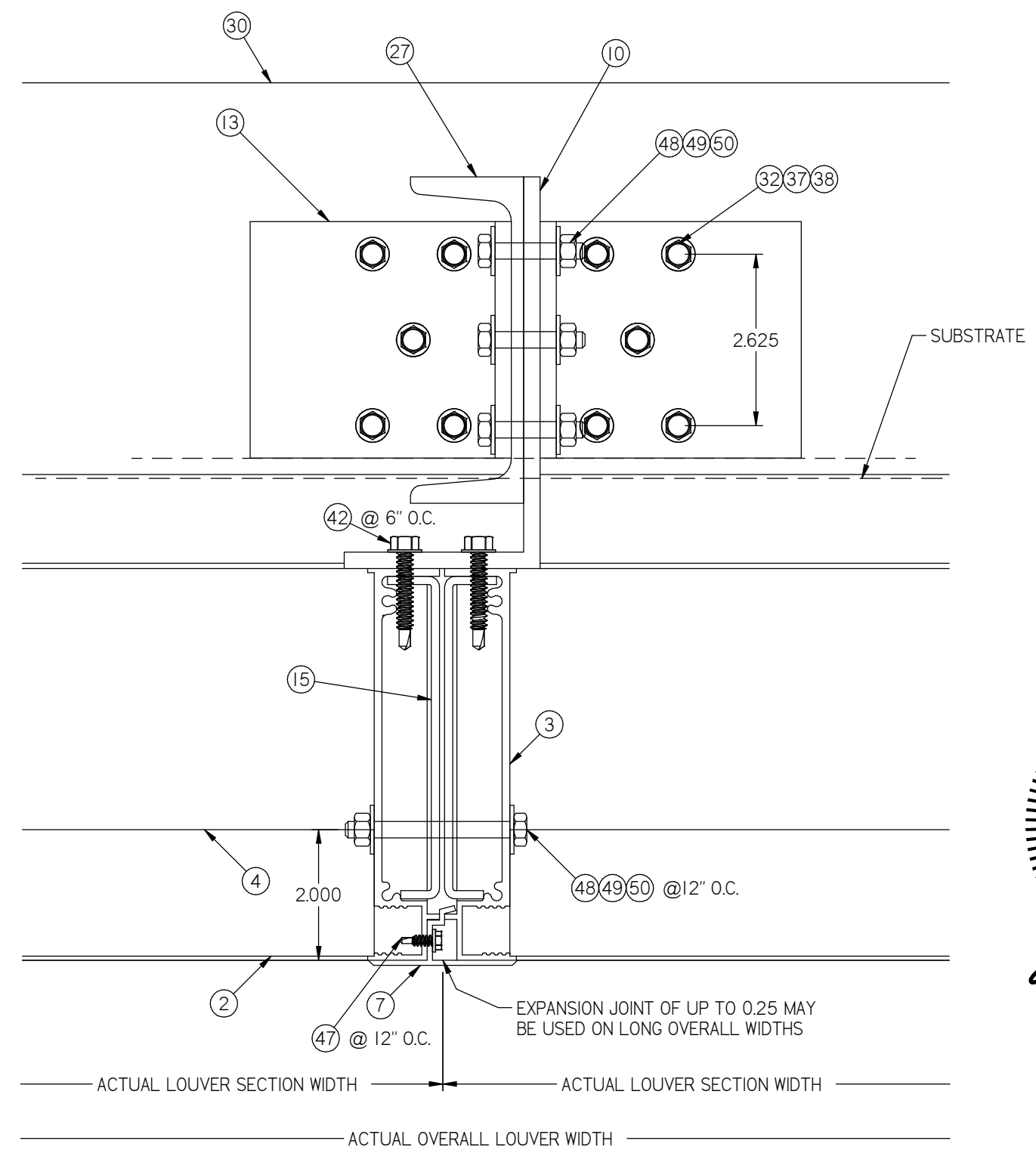
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com

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



MULLION ANGLE DIRECT MOUNT (SHOWN HERE AT HEAD) IS FOR SUBSTATES WHERE MINIMUM FASTENER EDGE DISTANCE **CAN** BE ACHIEVED BY USE OF HOLES IN THE MULLION END CAP. DETAIL IS TYPICAL FOR BOTH HEAD AND SILL CONDITIONS WHEN APPLICABLE.

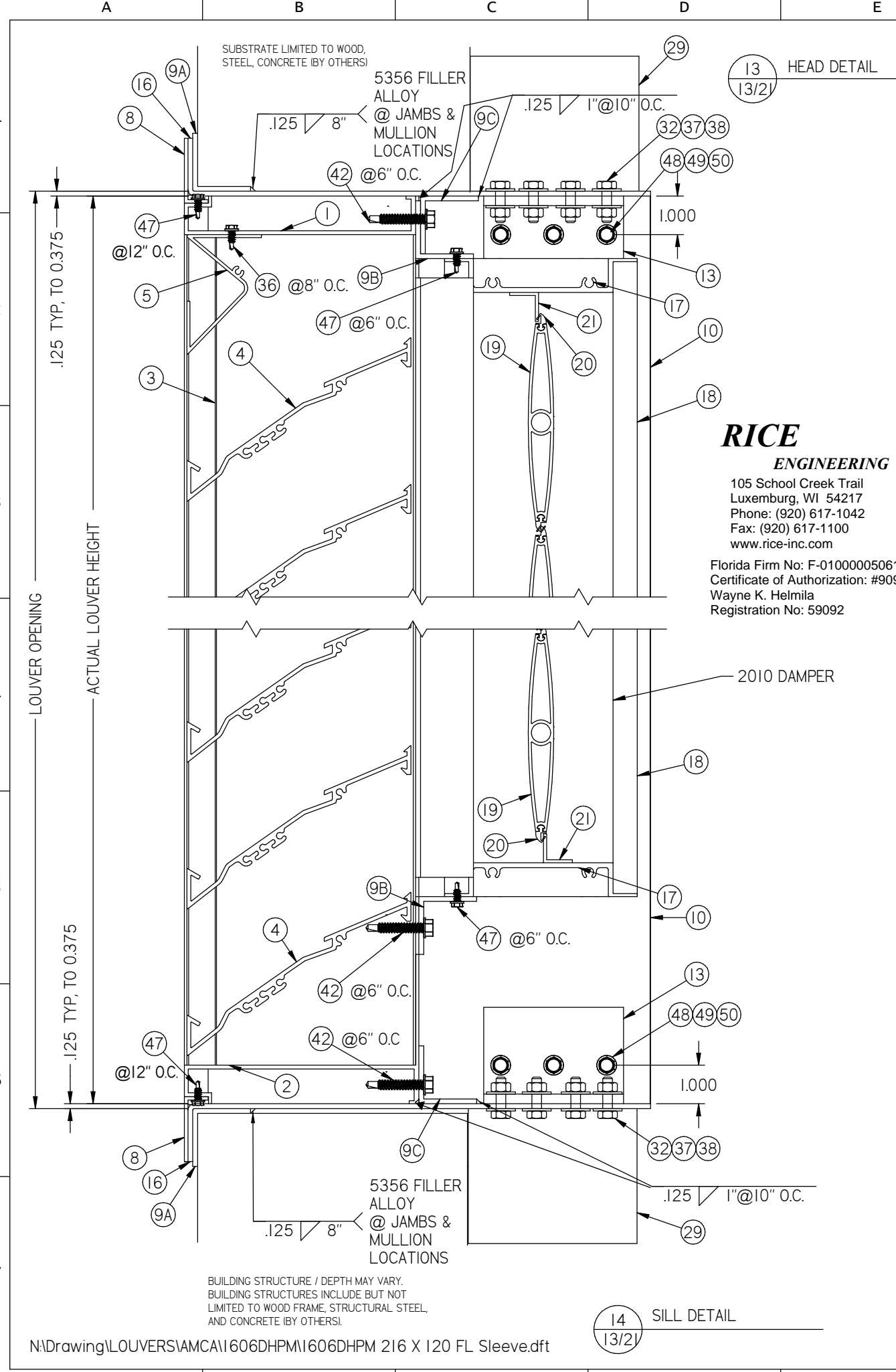
12A MULLION DETAIL  
12/21



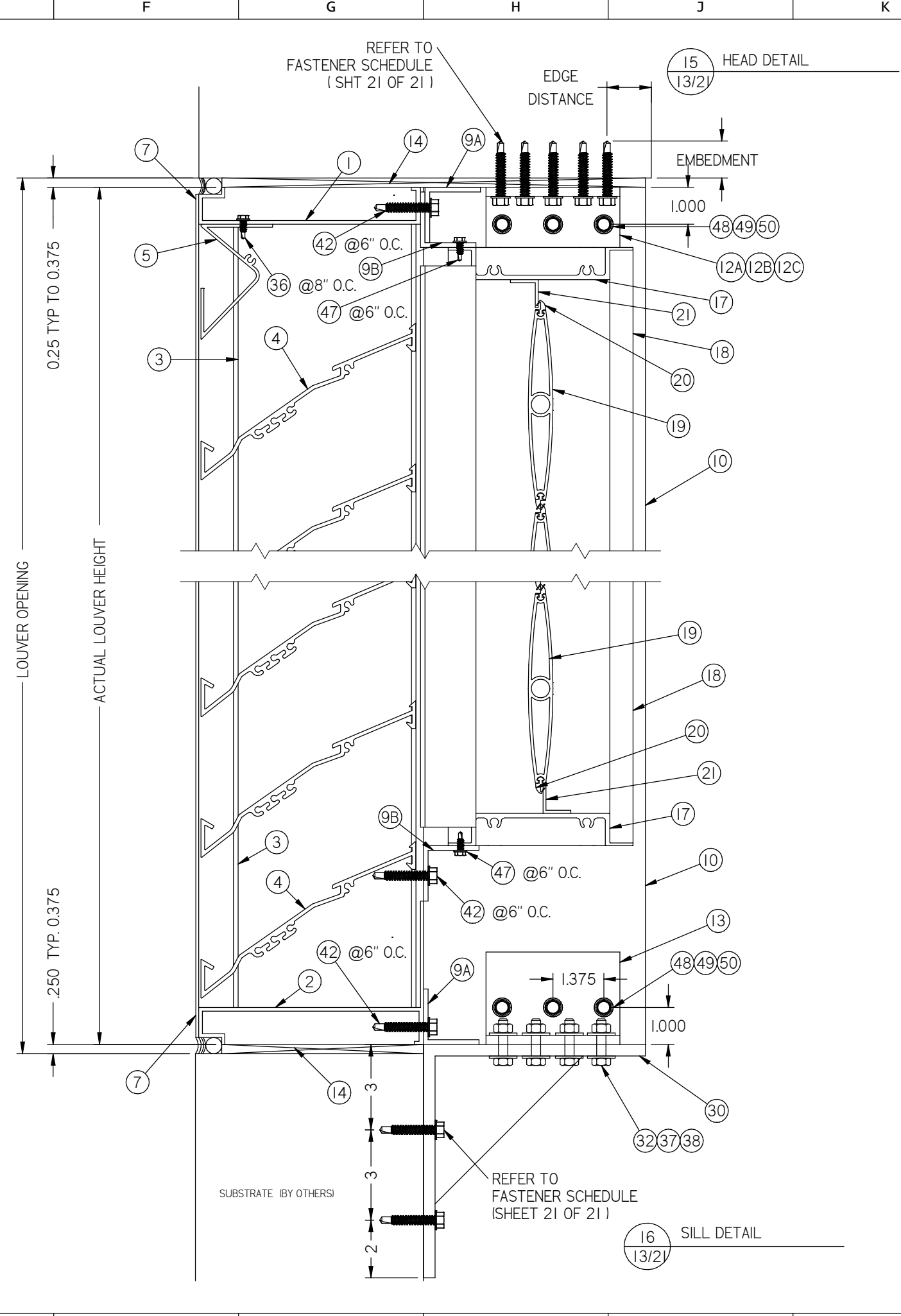
MULLION ANGLE BACK OF WALL MOUNT (SHOWN HERE AT SILL) IS FOR SUBSTATES WHERE MINIMUM FASTENER EDGE DISTANCE **CANNOT** BE ACHIEVED BY USE OF HOLES IN THE MULLION END CAP. DETAIL IS TYPICAL FOR BOTH HEAD AND SILL CONDITIONS WHEN APPLICABLE.


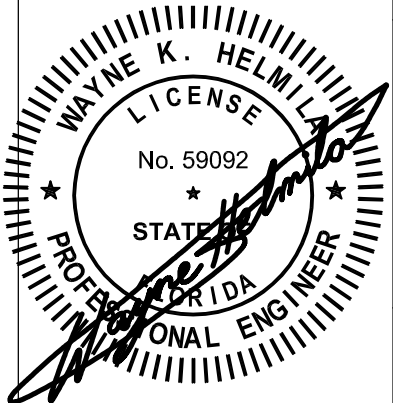
12B MULLION DETAIL  
12/21

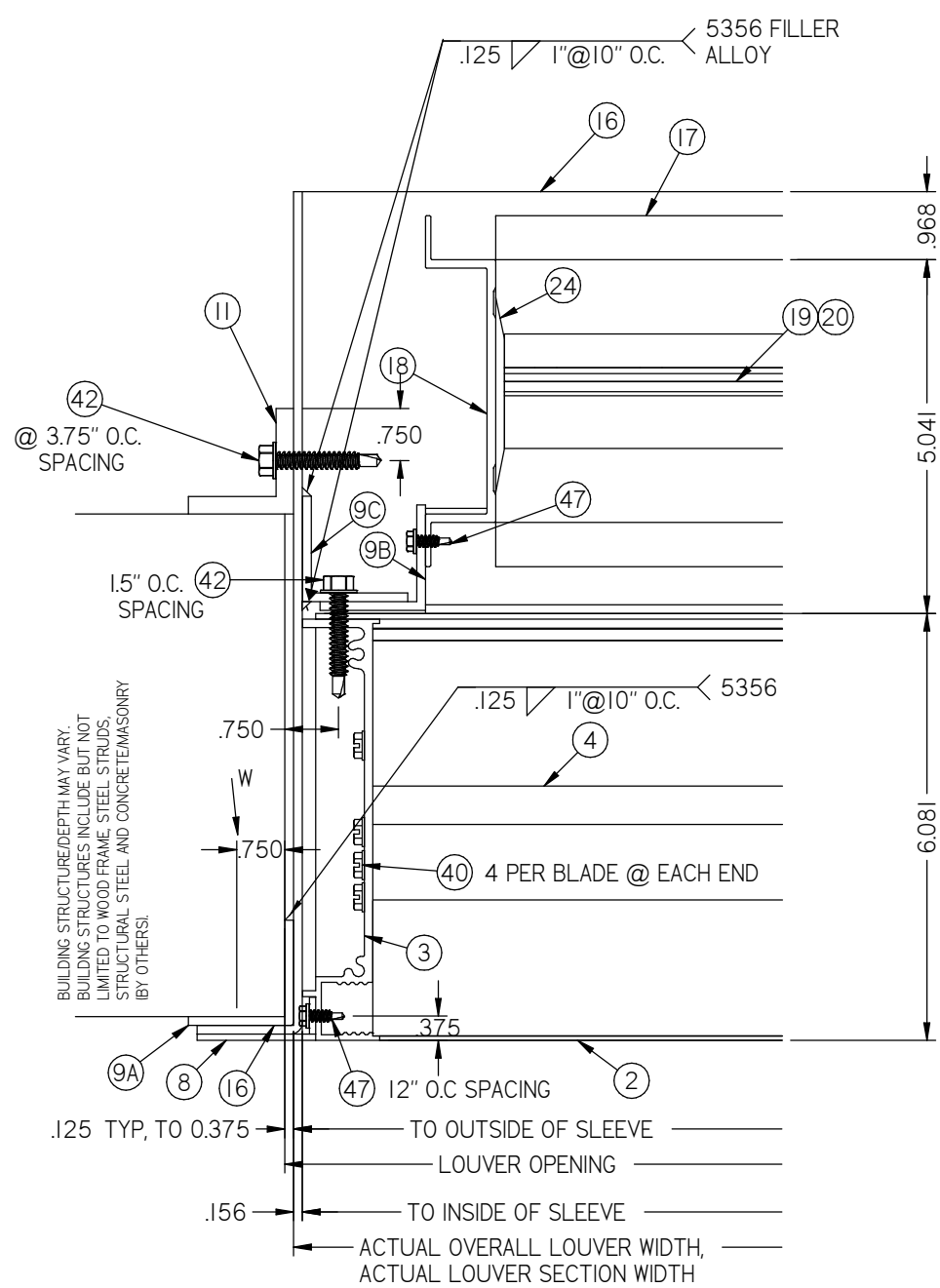
CHK BY: Mastourian	SCALE: NTS	SHEET: 12 OF 21	REV A
DWN BY: fcortinas	DATE: 6/14/2017		
 Nailor Industries Inc. 4714 Winfield Road Houston, TX 77039 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086		TITLE: <b>1606DHPM LOUVER COUNTINOUS ANGLE MOUNT MULLION DETAIL</b>	
			
		06/24/2021 COA: 9090	
<b>PRODUCT REVISED</b> as complying with the Florida Building Code <b>NOA-No. 21-0630.10</b> <b>Expiration Date: 08/30/2023</b> By: <i>Manuel Perez</i> <b>Miami-Dade Product Control</b>			



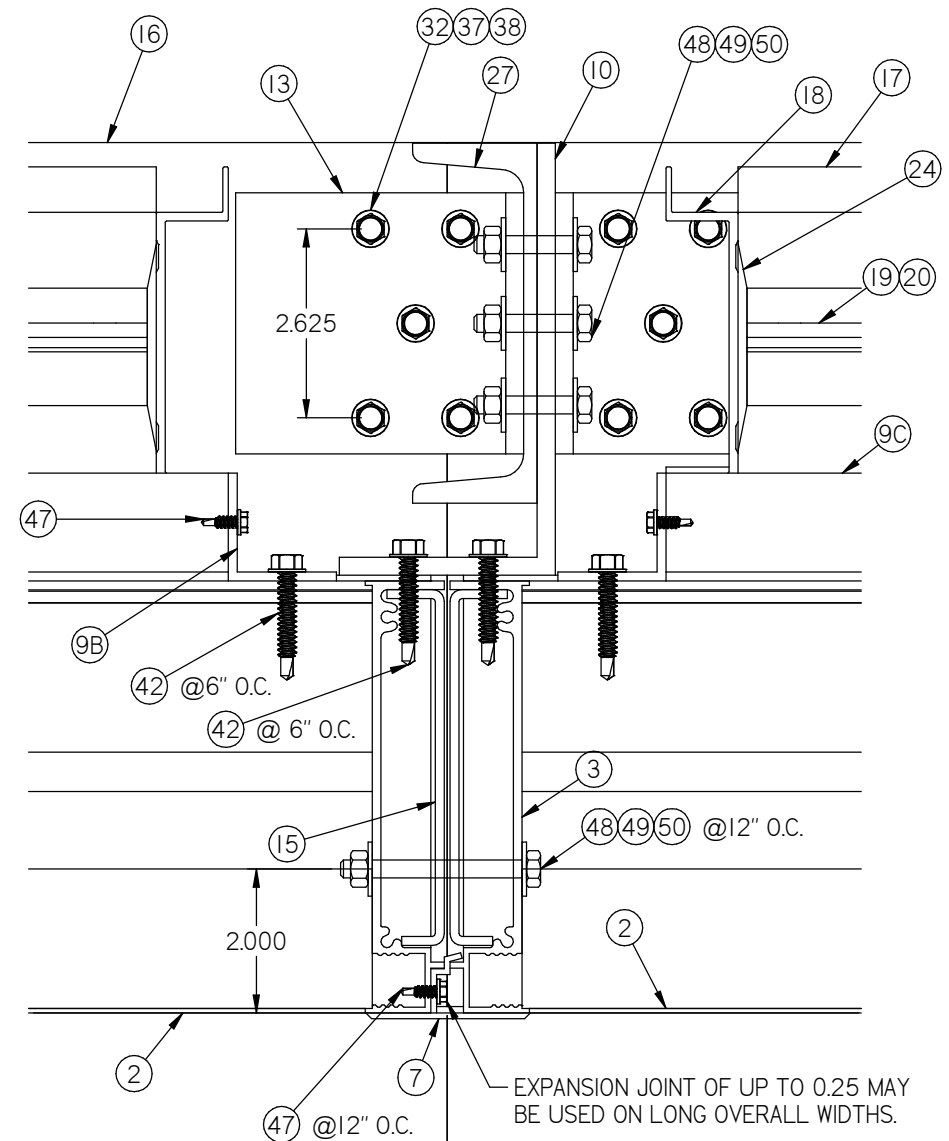
**RICE ENGINEERING**  
 105 School Creek Trail  
 Luxemburg, WI 54217  
 Phone: (920) 617-1042  
 Fax: (920) 617-1100  
 www.rice-inc.com  
 Florida Firm No: F-01000005061  
 Certificate of Authorization: #9090  
 Wayne K. Helmila  
 Registration No: 59092



CHK BY: Mastourian	SCALE: NTS	SHEET: 13 OF 21	REV A
DWN BY: fcortinas	DATE: 6/14/2017		
 Nailor Industries Inc. 4714 Winfield Road Houston, TX 77039 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086		TITLE: <b>1606DHPM LOUVER / DAMPER</b> FLANGE FRAME W/SLEEVE MULLION ANGLE MOUNT HEAD & SILL DETAIL	
			
		06/24/2021 COA: 9090	
<b>PRODUCT REVISED</b> as complying with the Florida Building Code <b>NOA-No. 21-0630.10</b> <b>Expiration Date: 08/30/2023</b> By: <i>Manuel Fern</i> <b>Miami-Dade Product Control</b>			

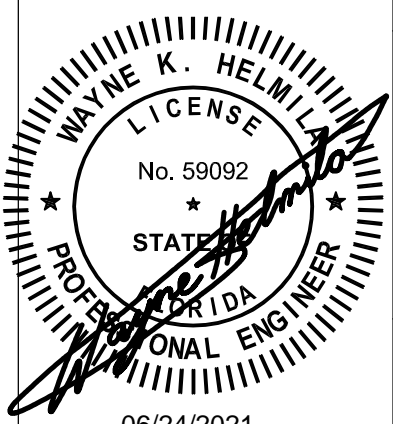


17 JAMB DETAIL  
14/21



18 MULLION DETAIL  
14/21

**RICE**  
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 105 School Creek Trail  
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 Phone: (920) 617-1042  
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 Florida Firm No: F-01000005061  
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 Wayne K. Helmila  
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06/24/2021  
 COA: 9090

**PRODUCT REVISED**  
 as complying with the Florida  
 Building Code  
**NOA-No. 21-0630.10**  
**Expiration Date: 08/30/2023**  
 By: *Manuel Perez*  
**Miami-Dade Product Control**

DWN BY: f cortinas  
 DATE: 6/14/2017  
 CHK BY: Mastourian  
 SCALE: NTS  
 SHEET: 14 OF 21  
 DWG. NO. 1606DHPM  
 REV A

**Nailor Industries Inc.**  
 4714 Winfield Road Houston, TX 77039  
 www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086  
**1606DHPM LOUVER / DAMPER**  
**FLANGE FRAME SLEEVE MOUNT**  
**JAMB AND MULLION DETAIL**

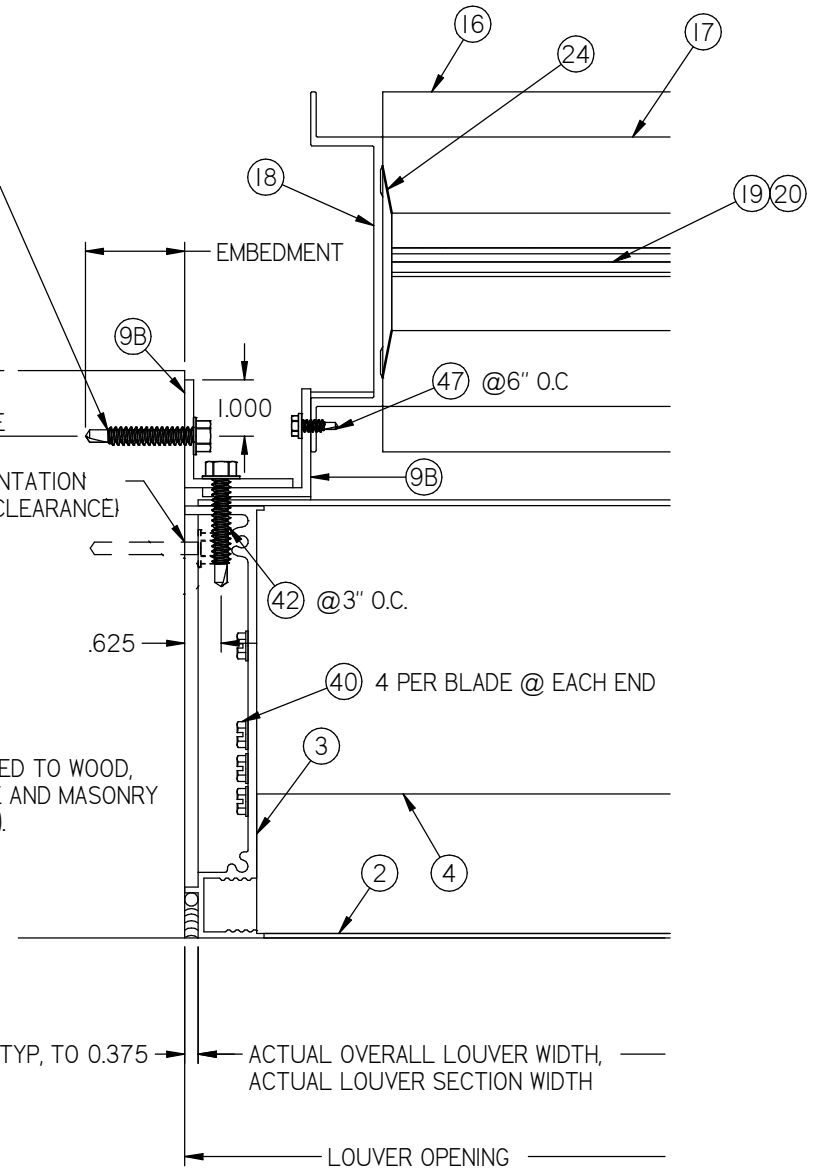
REFER TO FASTENER SCHEDULE (SHEET 21 OF 21)

EDGE DISTANCE  
ALTERNATE ORIENTATION (CAUTION, BOLT CLEARANCE)

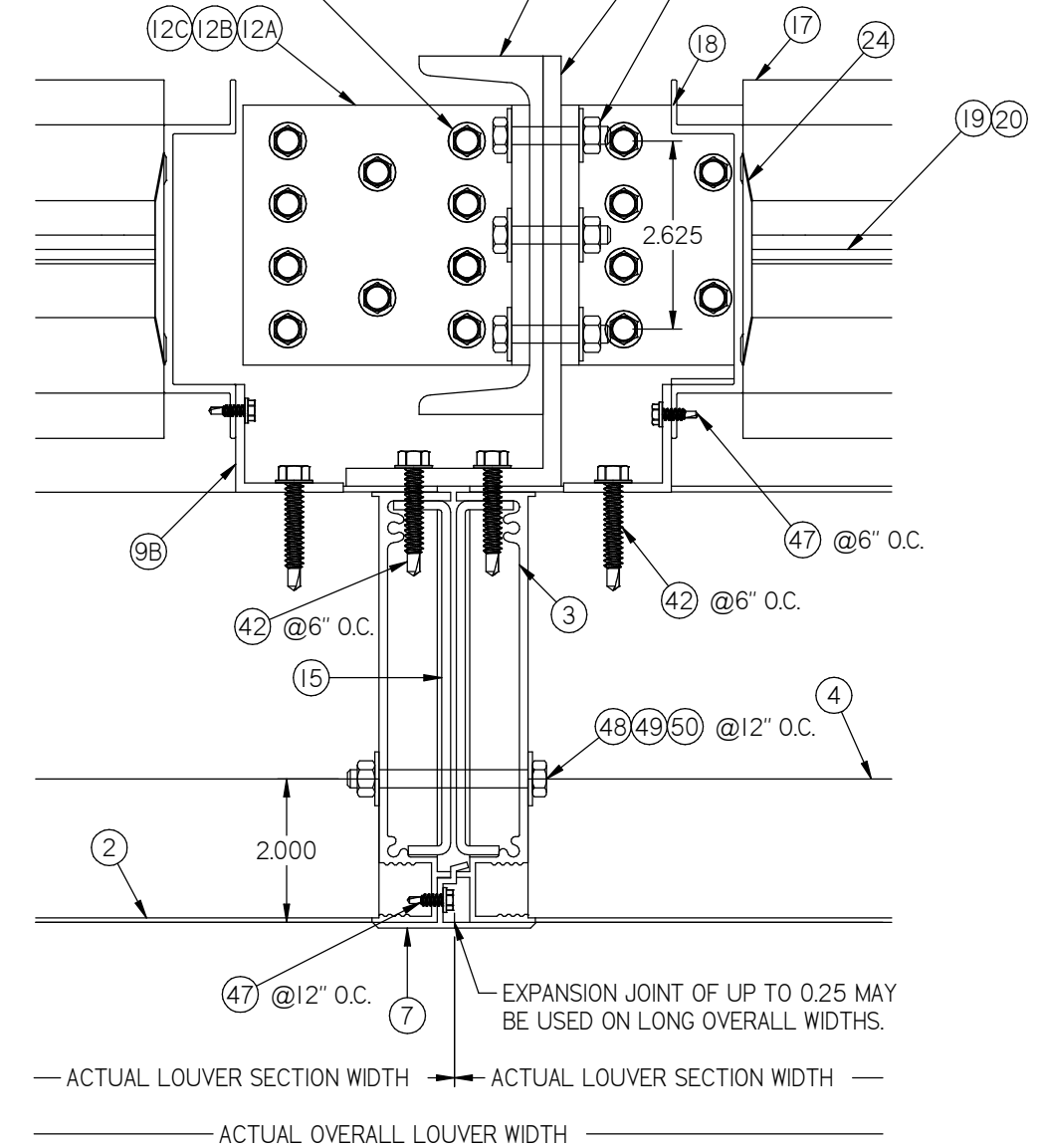
SUBSTRATE LIMITED TO WOOD, STEEL, CONCRETE AND MASONRY (CMU) (BY OTHERS).

.125 TYP, TO 0.375  
ACTUAL OVERALL LOUVER WIDTH, ACTUAL LOUVER SECTION WIDTH  
LOUVER OPENING

19 JAMB DETAIL  
15/21



REFER TO FASTENER SCHEDULE (SHT 21 of 21)



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

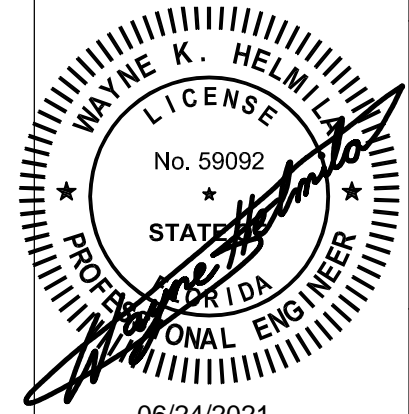
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

20 MULLION DETAIL  
15/21

Nailor Industries Inc.



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



06/24/2021  
COA: 9090

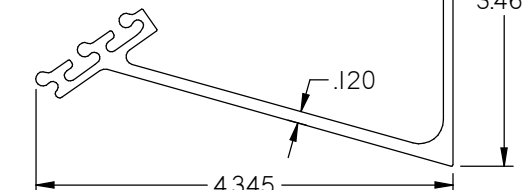
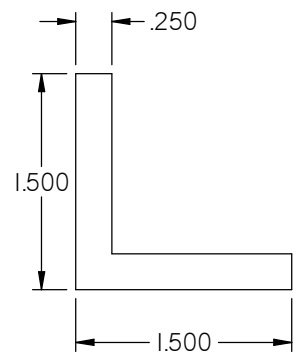
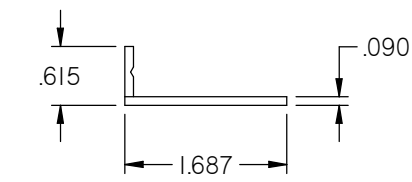
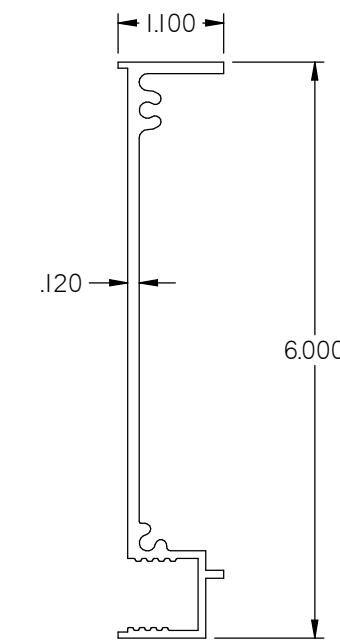
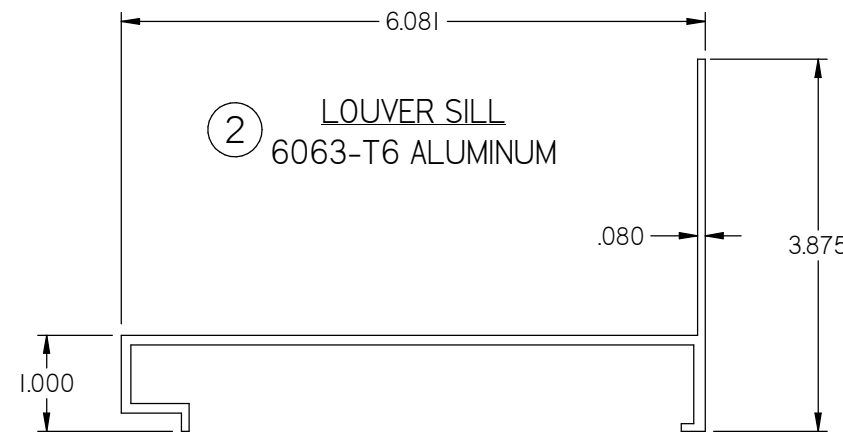
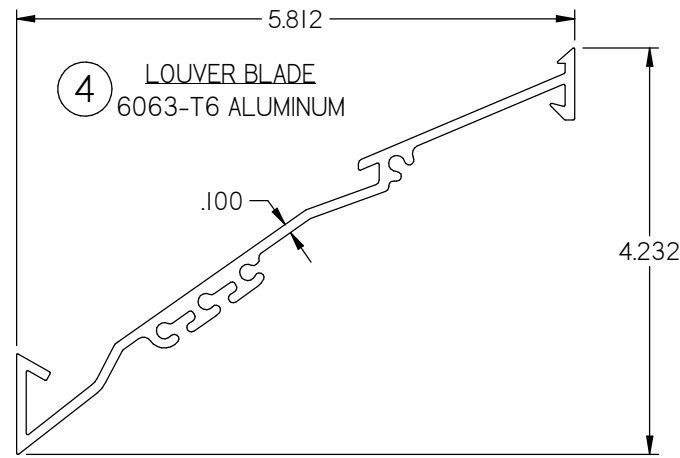
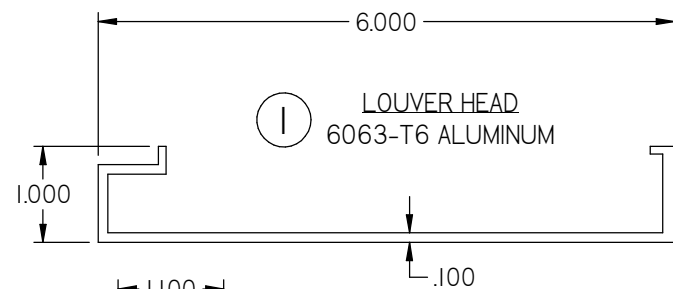
**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. **21-0630.10**  
Expiration Date: **08/30/2023**  
By: *Manuel Perez*  
Miami-Dade Product Control

DWN BY: f cortinas  
DATE: 6/14/2017  
CHK BY: Mastourian  
SCALE: NTS

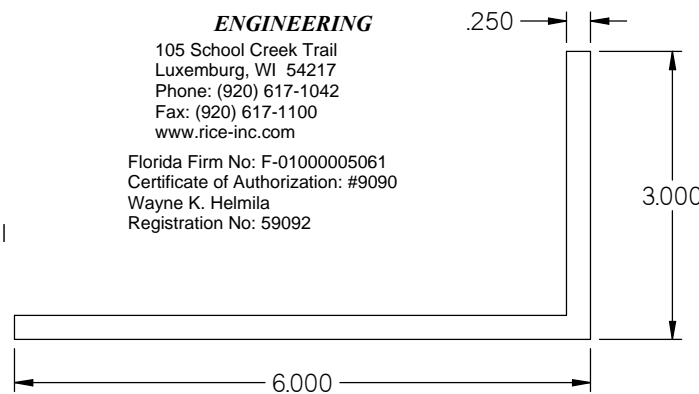
TITLE:  
1606DHPM LOUVER / DAMPER  
CONTINUOUS ANGLE MOUNT  
JAMB AND MULLION DETAIL

SHEET: 15 OF 21

DWG. NO. **1606DHPM**  
REV. A



**RICE**  
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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



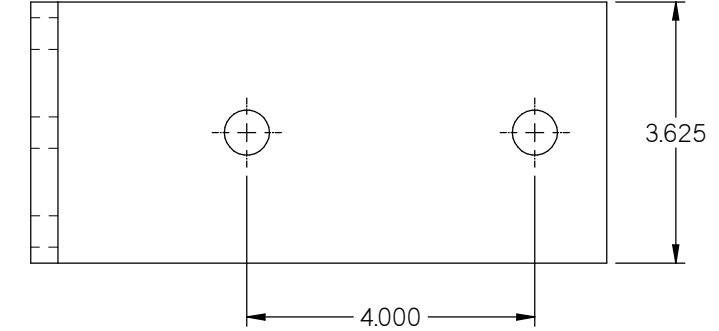
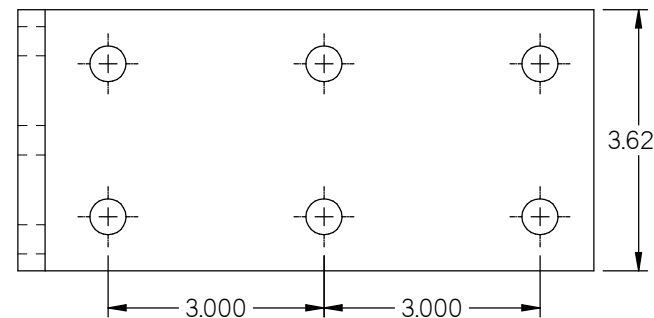
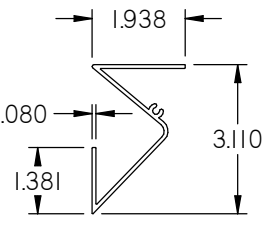
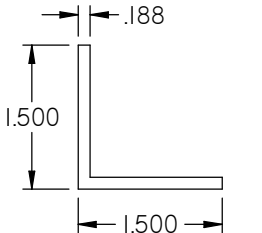
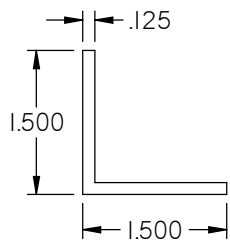
③ LOUVER JAMB  
6063-T6 ALUMINUM

⑦ MULLION COVER  
6063-T6 ALUMINUM

⑪ LOUVER SLEEVE MOUNT ANGLE  
6063-T6 ALUMINUM

⑥ LOUVER BLADE BRACE  
6063-T6 ALUMINUM

⑩ LOUVER SUPPORT ANGLE  
6061-T6 ALUMINUM



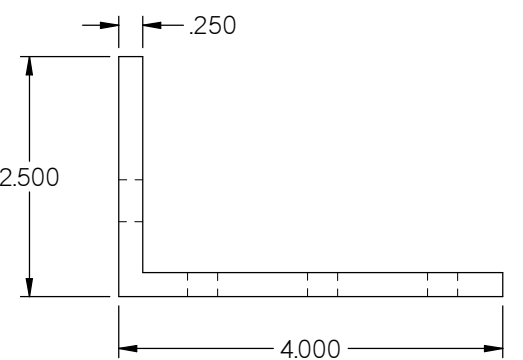
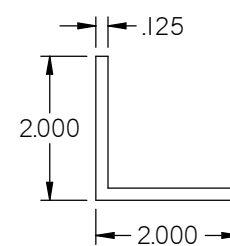
⑨A LOUVER SLEEVE ATTACHMENT ANGLE CONT.  
6063-T6 ALUMINUM

⑨C LOUVER SLEEVE ATTACHMENT ANGLE CONT.  
6061-T6 ALUMINUM

⑤ DRAIN HEAD  
6063-T6 ALUMINUM

⑫B MULLION MOUNTING ANGLE  
3.00 X 8.00 X 0.375 X 3.625 LONG  
6061-T6 ALUM. ANGLE  
FOR 1/2" DIA SS. LAG SCREW

⑫C MULLION MOUNTING ANGLE  
3.00 X 8.00 X 0.375 X 3.625 LONG  
6061-T6 ALUM. ANGLE  
FOR 5/8" HILTI KWIK BOLT TZ SS 304 ANCHOR



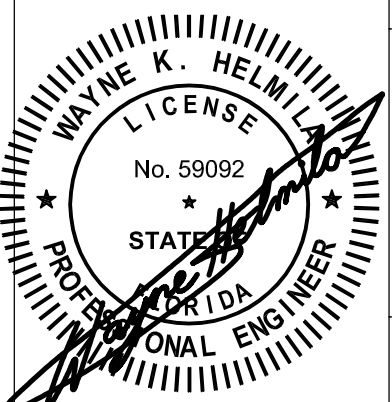
⑨B LOUVER SLEEVE ATTACHMENT ANGLE CONT.  
6063-T6 ALUMINUM

⑫A MULLION MOUNTING ANGLE  
3.00 X 4.00 X 0.25 X 3.625 LONG  
6061-T6 ALUM. ANGLE

REVISIONS:  
ADDED 12A, 12B, 12C  
MOVED 13, 14, 15 TO PG17 OF 21

DWN BY: fcortinas  
CHK BY: Mastourian  
DATE: 6/14/2017  
SCALE: NTS  
SHEET: 16 OF 21  
DWG. NO. 1606DHPM  
REV. A

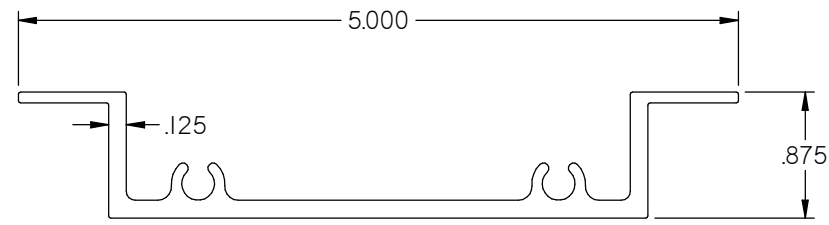
**Nailor Industries Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086  
TITLE: 1606DHPM LOUVER, W/ AND W/O DAMPER SLEEVE/CONTINUOUS MOUNT PART PROFILES



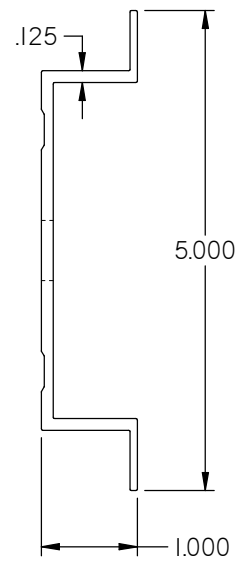
06/24/2021  
COA: 9090

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. 21-0630.10  
Expiration Date: 08/30/2023  
By: Manuel Fern  
Miami-Dade Product Control

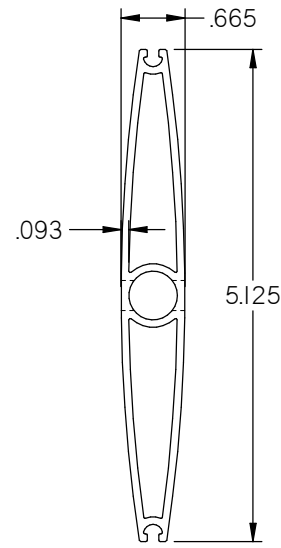




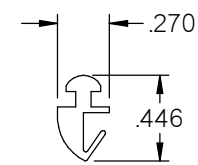
17 DAMPER HEAD/SILL  
6063-T6 ALUMINUM



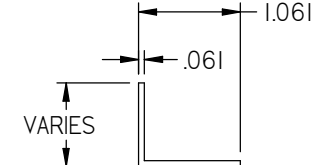
18 DAMPER JAMB  
6063-T6 ALUMINUM



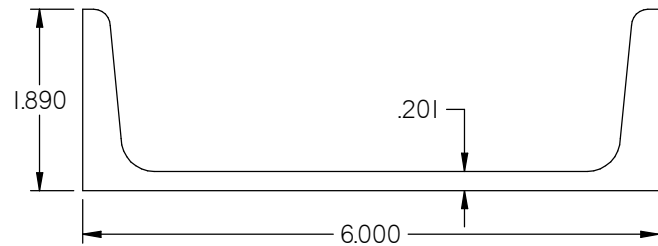
19 DAMPER BLADE  
6063-T6 ALUMINUM



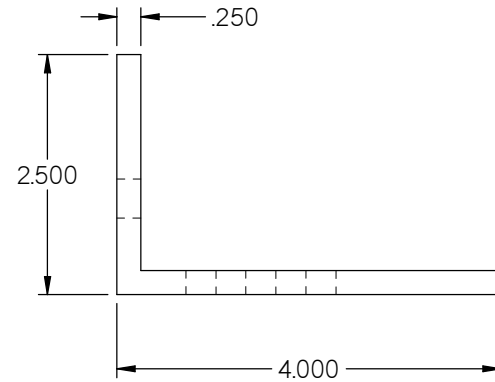
20 DAMPER BLADE SEAL  
MATERIAL VARIES



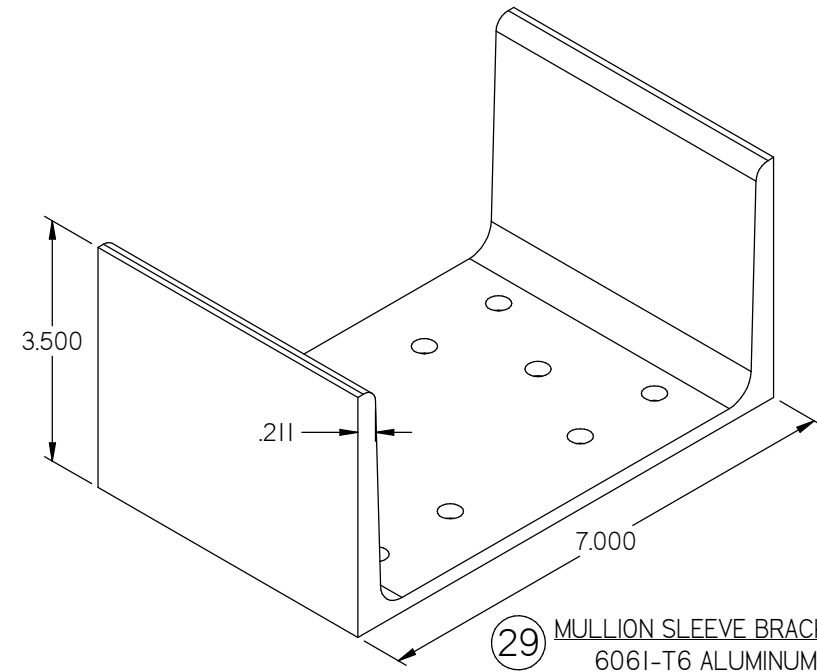
21 DAMPER TOP/BOTTOM  
CLOSER  
ALUMINUM



27 LOUVER BRACE  
SUPPORT CHANNEL  
C6X8.2 ASTM A36 STEEL CHANNEL



13 SLEEVE ATTACHMENT ANGLE  
4.00X 2.50 X 0.25 X 3.625 LONG  
6061-T6 ALUM. ANGLE

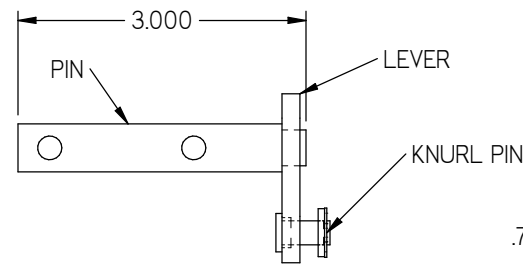


29 MULLION SLEEVE BRACKET  
6061-T6 ALUMINUM

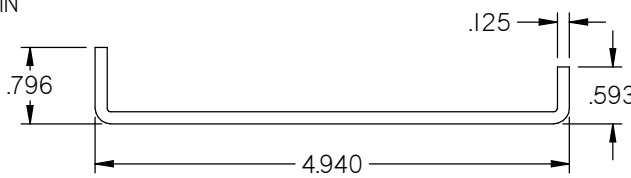
**RICE**  
ENGINEERING  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com  
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092



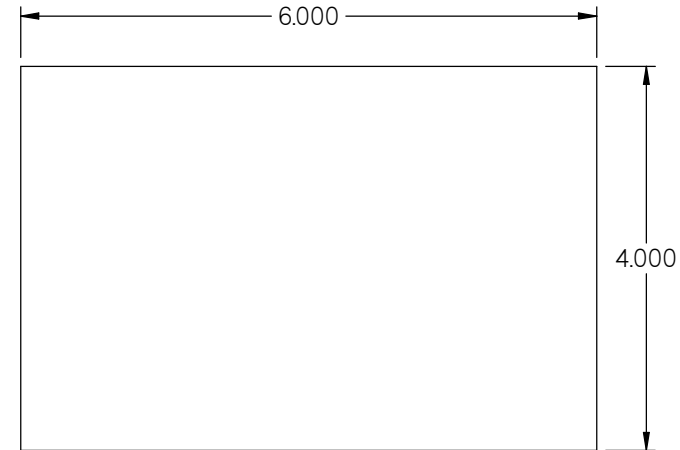
22 DAMPER BUSHING  
MATERIAL VARIES



25 NON DRIVE DAMPER AXEL ASM  
MATERIAL VARIES



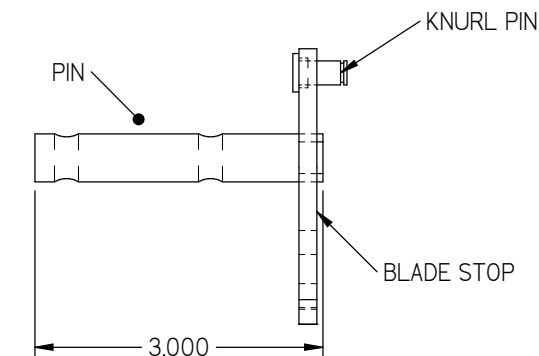
15 MULLION STIFFNER ALUM.  
6063-T6 ALUMINUM



14 ALUMINUM SUPPORT SHIM  
1/4" THICK  
5052-H32 ALUMINUM



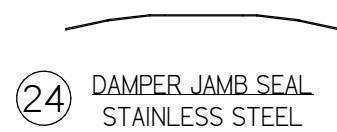
23 DAMPER LINKAGE BAR  
MATERIAL VARIES



26 DRIVE SIDE DAMPER AXLE ASM  
MATERIAL VARIES



16 SLEEVE FORMED ALUM.  
5052-H32 ALUMINUM



24 DAMPER JAMB SEAL  
STAINLESS STEEL

REVISIONS:  
REV A: MOVED MULLION BRACKET TO 18 OF 21  
MOVED 13, 14, 15, 16, FROM PG 16 OF 21



06/24/2021  
COA: 9090

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **21-0630.10**  
Expiration Date: **08/30/2023**  
By: *Manuel Perez*  
Miami-Dade Product Control

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

TITLE:  
1606DHPM LOUVER  
W/ AND W/O DAMPER  
SLEEVE/CONTINUOUS MOUNT  
PART PROFILES

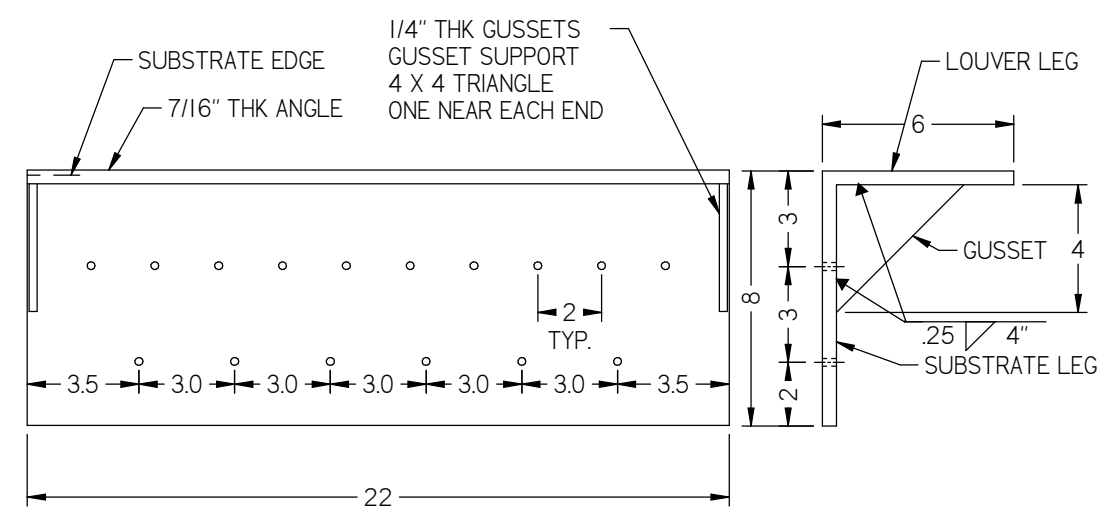
DWN BY: fcoirtinas  
DATE: 6/14/2017  
CHK BY: Mastourian  
SCALE: NTS

SHEET: 17 OF 21  
DWG. NO. 1606DHPM  
REV A

30 MULLION MOUNTING BRACKET  
FOR MULLION ANGLE BACK OF WALL MOUNT  
ASTM A36

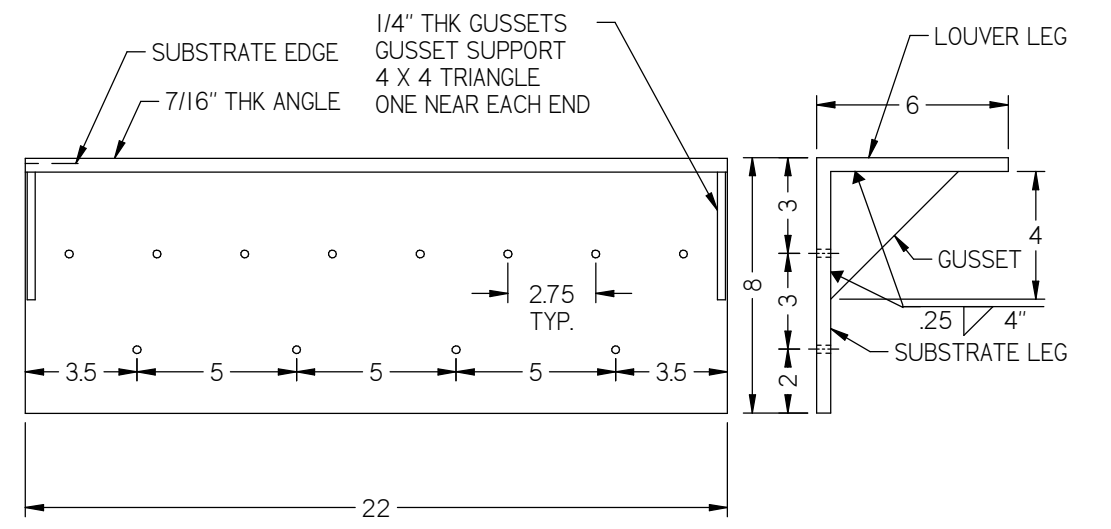
1/4" DIA LAG SCREWS ANCHORS:

USE (I6) 1/4" DIA X 6" LONG  
STANDARD HEX LAG SCREW  
6" FULL THREAD ENGAGEMENT  
1" MIN. EDGE/END DISTANCE  
SPACING AS SHOWN  
ASSUME: SPRUCE/PINE/FIR, SG=0.42



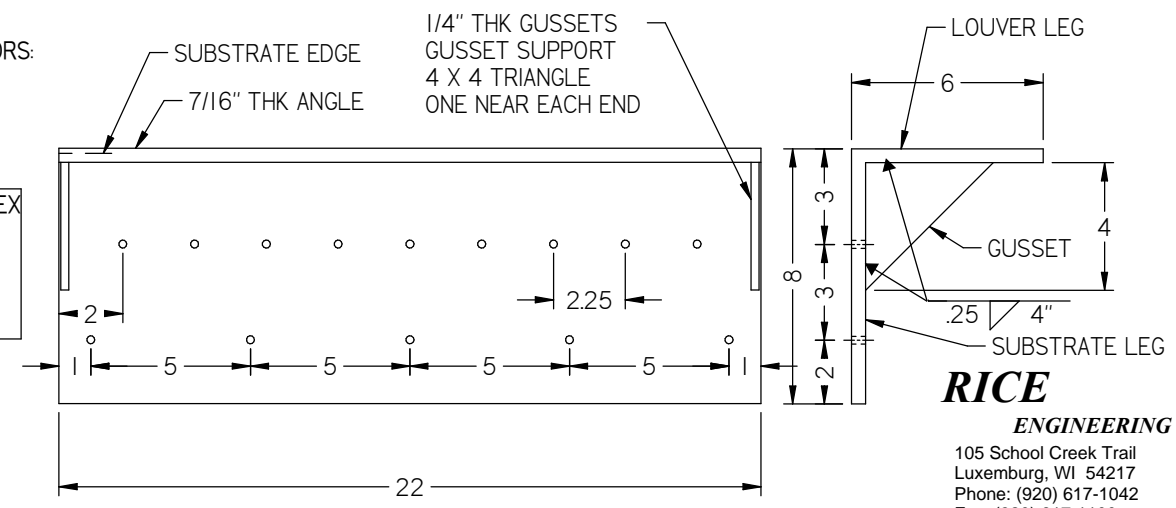
3/8" DIA. LAG SCREWS ANCHORS:

USE (I2) 3/8" DIA X 6 LONG  
STANDARD HEX LAG SCREW  
6" FULL THREAD ENGAGEMENT  
1-1/2" MIN. EDGE/END DISTANCE  
SPACING AS SHOWN  
ASSUME: SPRUCE/PINE/FIR, SG=0.42

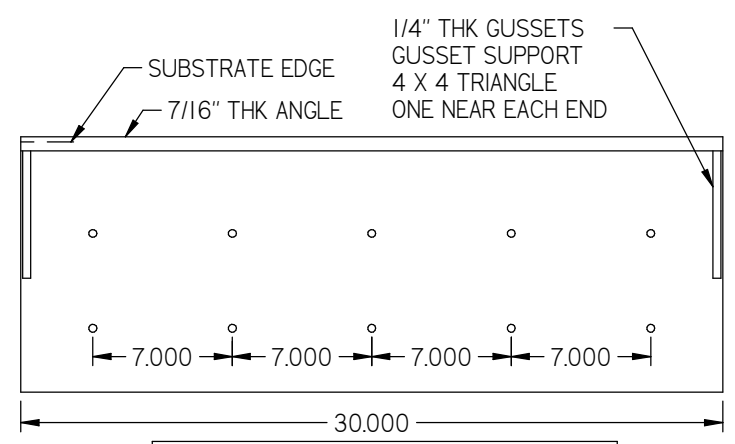


1/4-20 DIA. S.S. ELCO DRIL-FLEX ANCHORS:

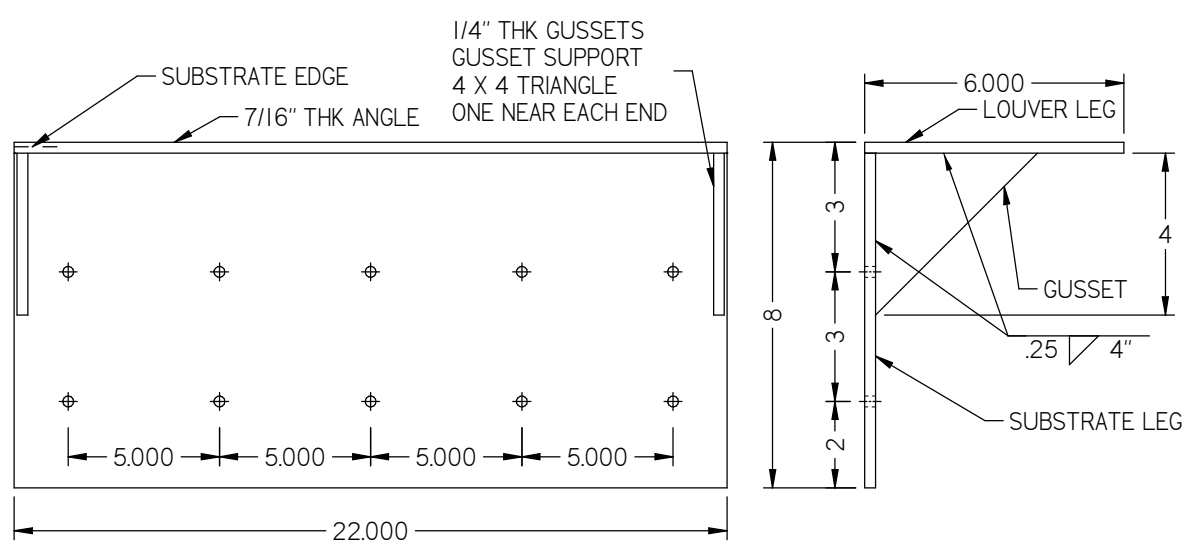
USE (I4) 1/4-20 DIA. S.S. ELCO DRIL-FLEX  
FULL THREAD ENGAGEMENT  
1" MIN. EDGE/END DISTANCE  
SPACING AS SHOWN  
ASSUME: 1/4" STEEL (A-36)



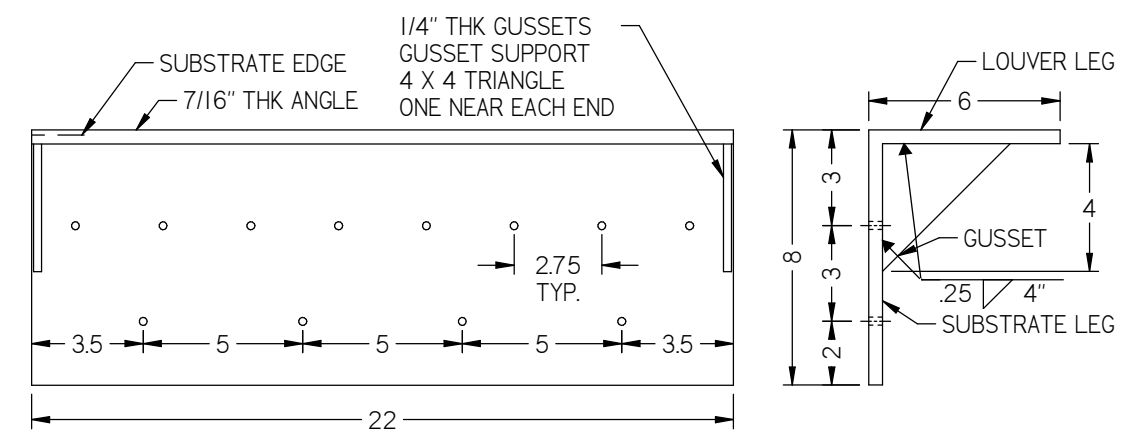
**RICE**  
ENGINEERING  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: (920) 617-1042  
Fax: (920) 617-1100  
www.rice-inc.com  
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Wayne K. Helmila  
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USE (I0) 1/2" DIA. HILTI KWIK BOLT TZ  
3 5/8" EMBEDMENT  
7" SPACING (HORIZ.) / 3" SPACING (VERT.)  
3" MIN. EDGE DISTANCE  
4" MIN. END DISTANCE  
ASSUME FC' : 4000 PSI CRACKED CONCRETE



USE (I0) 1/2" HILTI KWIK HUS-EZ  
4-1/4" EMBEDMENT  
5" SPACING (HORIZ.) / 3" SPACING (VERT.)  
3" MIN. EDGE / END DISTANCE  
SPACING AS SHOWN  
ASSUME: fc' = 4000 PSI UNCRACKED CONCRETE



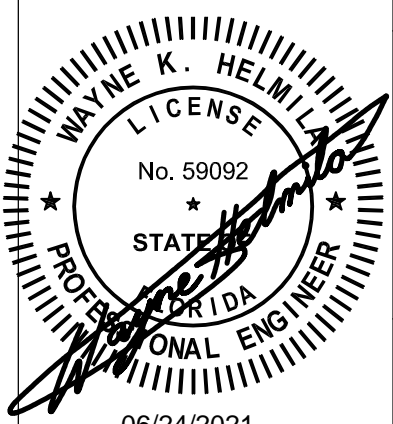
5/16-24 DIA. S.S. ELCO DRIL-FLEX ANCHOR  
USE (I2) 5/16" DIA. S.S. ELCO DRIL-FLEX  
FULL THREAD ENGAGEMENT  
1" MIN. EDGE/END DISTANCE  
SPACING AS SHOWN  
ASSUME: 1/4" STEEL (A36)

REVISIONS:  
REV A: MOVED MULLION BRACKET  
FROM PG 17 TO 18 OF 21

CHK BY: Mastourian	SCALE: NTS	SHEET: 18 OF 21	REV A
DWN BY: f cortinas	DATE: 6/14/2017		

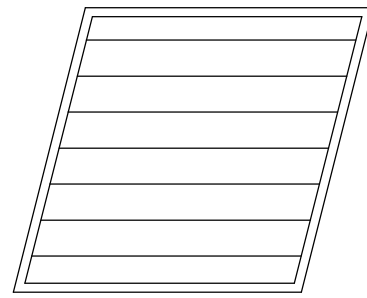
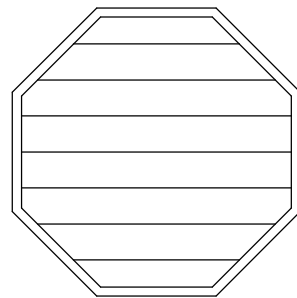
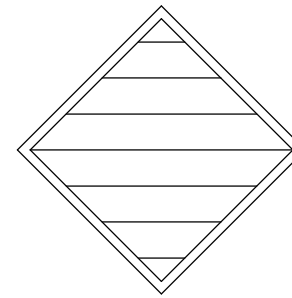
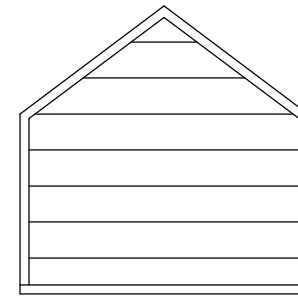
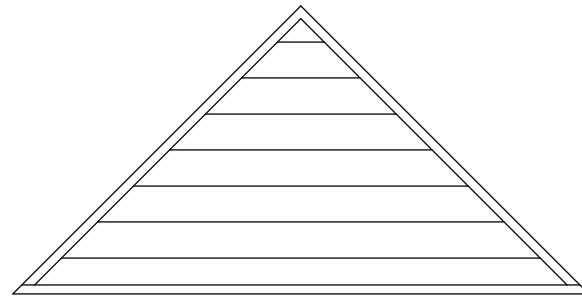
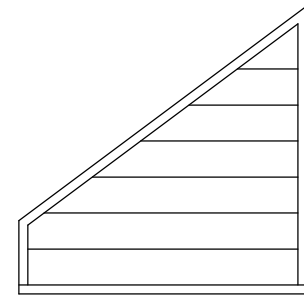
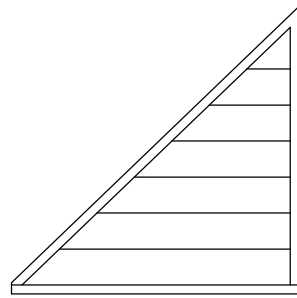
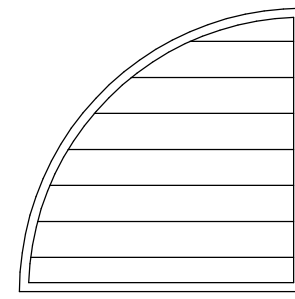
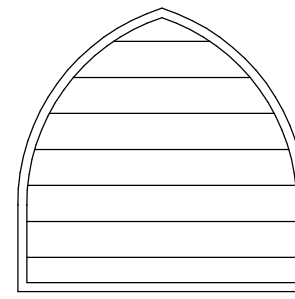
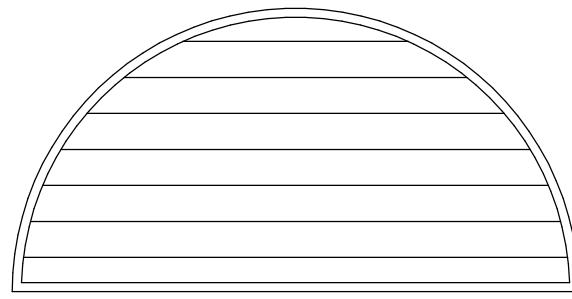
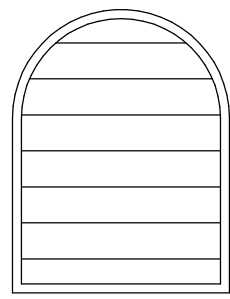
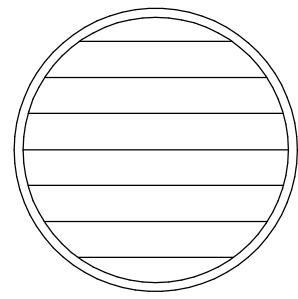
**Nailor Industries Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086

TITLE: MULLION ANGLES  
BACK OF THE WALL MOUNT



06/24/2021  
COA: 9090

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
NOA-No. **21-0630.10**  
Expiration Date: **08/30/2023**  
By: *Manuel Perez*  
Miami-Dade Product Control



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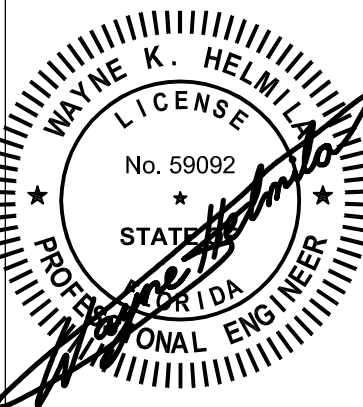
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
Wayne K. Helmila  
Registration No: 59092

NOTES:

- OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN AND HAVE CORNER CONSTRUCTION AS DESCRIBED ON ALL SHEETS.
- ALL SHAPED LOUVER PANELS ARE RESTRICTED TO THE SAME PANEL WIDTH AND PRESSURE AS THE RECTANGULAR LOUVER PANELS AND BE STACKED VERTICALLY AND HORIZONTALLY THE SAME AS THE RECTANGULAR PANELS.
- WHEN SECTION EXCEED 36" IN LENGTH BLADE SUPPORT ANGLES AND BRACKETS ARE REQUIRED.
- USE CONTINUOUS ANGLES TO ANCHOR OTHER LOUVER SHAPES TO BUILDING SUBSTRATE. SEE ANCHOR SCHEDULE FOR PROPER ANCHORAGE AND FOR SUBSTRATE-SPECIFIC LIMITATIONS.

DWN BY: f cortinas  
DATE: 6/14/2017

**Nailor Industries Inc.**  
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06/24/2021  
COA: 9090

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. **21-0630.10**  
Expiration Date: **08/30/2023**  
By: *Manuel Perez*  
Miami-Dade Product Control

TITLE:  
**1606DHPM LOUVER  
W/ AND W/O DAMPER  
AVAILABLE SHAPES**

CHK BY: Mastourian  
SCALE: NTS  
SHEET: 19 OF 21

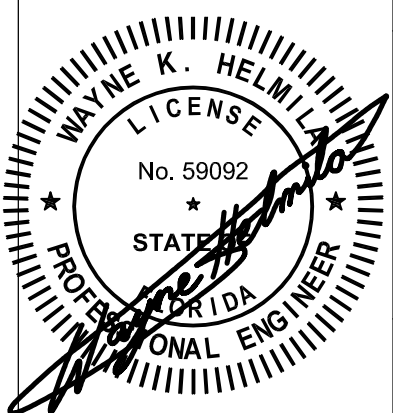
DWG. NO. **1606DHPM**  
REV. **A**

ITEM	DESCRIPTION	MATERIAL	NOTES
1	C6-139 LOUVER HEAD	6063-T6 ALUMINIUM	
2	C6-140 LOUVER SILL	6063-T6 ALUMINIUM	
3	C6-141 LOUVER JAMB	6063-T6 ALUMINIUM	
4	C6-142 LOUVER BLADE	6063-T6 ALUMINIUM	
5	C6-168 LOUVER DRAIN	6063-T6 ALUMINIUM	
6	C6-143 LOUVER BLADE BRACE	6063-T6 ALUMINIUM	
7	C6-104 MULLION COVER	6063-T6 ALUMINIUM	
8	C6-096 LOUVER FLANGE	6063-T6 ALUMINIUM	
9A	C6-176 1 1/2 X 1 1/2 X 1/8 ANGLE CONT.	6063-T6 ALUMINIUM	USED AT HEAD/SILL/JAMB OF LOUVER AND SLEEVE
9B	C6-160 2 X 2 X 1/8 ANGLE CONT.	6063-T6 ALUMINIUM	USE AS ATTACHMENT ANGLE
2	9C 1 1/2 X 1 1/2 X 3/16 ANGLE CONT.	6063-T6 ALUMINIUM	USE AS ATTACHMENT ANGLE
10	C6-161B 6 X 3 X 1/4 ANGLE	6061-T6 ALUMINIUM	USED AT BLADE SUPPORT AND JAMB SUPPORT
11	1 1/2 X 1 1/2 X 1/4 ANGLE	6063-T6 ALUMINIUM	USED AT HEAD/SILL/JAMB OF SLEEVE
12A	4 X 2.50 X 1/4 X 3 5/8 LONG ANGLE	6061-T6 ALUMINIUM	USED AT HEAD/ SILL OF MULLION ATTACHMENT
12B	8 X 3 X 3/8 LONG ANGLE	6061-T6 ALUMINIUM	USED AT HEAD/ SILL OF MULLION ATTACHMENT W/ 1/2" LAG
12C	8 X 3 X 3/8 LONG ANGLE	6061-T6 ALUMINIUM	USE AT HEAD/SILL OF MULLION ATTACHMENT W/ 5/8" ANCHOR
13	4 X 2.50 X 1/4 3 5/8 LONG ANGLE	6061-T6 ALUMINIUM	USED AT HEAD/ SILL OF LOUVER SLEEVE ATTACHMENT
14	6 X 4 X 1/4 ALUMINUM SUPPORT SHIM	5052-H32 ALUMINIUM	USED AT SILL FOR SUPPORT ANGLE
3	15 MULLION STIFFENER ALUM	6063-T6 ALUMINIUM	1/8 FORMED ALUM CHANNEL USED AT MULLION
16	FORMED SLEEVE 1/8 THK	5052-H32 ALUMINIUM	1/8 FORMED SLEEVE - DEPTH VARIES
17	B2-610 DAMPER HEAD/SILL	6063-T6 ALUMINIUM	
18	B2-609 DAMPER JAMB	6063-T6 ALUMINIUM	
19	B2-527 DAMPER BLADE	6063-T6 ALUMINIUM	
20	DAMPER BLADE SEAL	SILICONE / RUBBER TYPE	MATERIAL VARIES
21	DAMPER TOP/BOTTOM CLOSURE	ALUMINIUM	
22	DAMPER BUSHING	BRONZE / SS	
4	23 DAMPER LINKAGE BAR	SS	
24	DAMPER JAMB SEAL	SS	
25	NON DRIVE DAMPER AXEL ASM	SS	
26	DRIVE SIDE DAMPER AXLE ASM	SS	
27	C6X8.2 STEEL CHANNEL	ASTM A36	USED AT BLADE BLACE & MULLION
28			
29	7" X 21" ALUMINIUM SLEEVE BRACKET	6061-T6	MULLION SLEEVE BRACKET
30	MULLION MOUNTING ANGLE BRACKET	ASTM A36	MULLION MOUNTING
5	31 C6-180	SCREW,MTL,10-24X1,HEX	
32	C6-181	1/4 NYLON INSERT LOCKNUT	
33	C6-182	1/4-20x2-1/2 HEX CAP SCREW SS	
34	C6-183	WASHER,BONDED,10X1/2,SS	300 SERIES, SS COND. CW FY = 65 KSI
35	C6-184	SCREW,MTL,12-24-1-1/4,HEX	300 SERIES, SS COND. CW FY = 65 KSI
36	C6-185	1/4-20x1 HEX SCREW	300 SERIES, SS COND. CW FY = 65 KSI
37	C6-186	1/4 COMM L FLAT WASHER	300 SERIES, SS COND. CW FY = 65 KSI
38	C6-187	1/4-20x1 HEX CAP SCREW 18-8 SS	
39	C6-188	SCREW, MTL,HEX, 8-32 X 1,	300 SERIES, SS COND. CW FY = 65 KSI
6	40 C6-189	SCREW, METAL, HW, 10-24 X 1-1/2,	300 SERIES, SS COND. CW FY = 65 KSI
41	C6-192	SCREW, MTL, HEX, 8 X 1-1/2,	300 SERIES, SS COND. CW FY = 65 KSI
42	C6-193	SCREW, METAL, HEX, 14 X 1-1/2	300 SERIES, SS COND. CW FY = 65 KSI
43	C6-194	SCREW, METAL, HEX, 12 X 1-1/2, SS	300 SERIES, SS COND. CW FY = 65 KSI
44	C6-195	1/4-20 X 1 1/4 HEX CAP SCREW 18-8 S/S	
45	C6-196	1/4-20 FIN. HEX NUT 18-8 S/S	
46	C6-197	1/4 LOCKWASHER 18-8 S/S	
47	C6-198	SCREW, MTL, HEX, 8 X 3/4,	300 SERIES, SS COND. CW FY = 65 KSI
7	48	3/8"-16 X 2 18-6 HEX HEAD BOLT SS	300 SERIES, SS COND. CW FY = 65 KSI
49		3/8-16 HEX LOCK NUT SS	300 SERIES, SS COND. CW FY = 65 KSI
50		3/8-FLAT WASHER SS	300 SERIES, SS COND. CW FY = 65 KSI

N:\Drawing\LOUVERS\AMCA\1606DHPM\1606DHPM 216 X 120 FL Sleeve.dft

CHK BY: Mastourian  
DWN BY: fcortinas  
DATE: 6/14/2017  
SCALE: NTS  
SHEET: 20 OF 21  
REV A  
DWG. NO. 1606DHPM

**Nailor Industries Inc.**  
4714 Winfield Road Houston, TX 77039  
www.nailor.com TEL: 281-590-1172 FAX: 281-590-3086  
TITLE: 1606DHPM LOUVER W/ AND W/O DAMPER SLEEVE / CONTINUOUS MOUNT BILL OF MATERIAL



**RICE ENGINEERING**

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

**PRODUCT REVISED**  
as complying with the Florida Building Code  
NOA-No. **21-0630.10**  
Expiration Date: **08/30/2023**  
By: *Manuel Perez*  
Miami-Dade Product Control

REVISIONS:  
REV A: ADDED 12A, 12B, 12C

\*EMBEDMENT DEPTH IS EQUAL TO OVERALL LENGTH FOR CONCRETE /CMU FASTENERS. IF SHIMS ARE USED, FASTENER LENGTH MUST BE INCREASED BY THICKNESS OF SHIMS

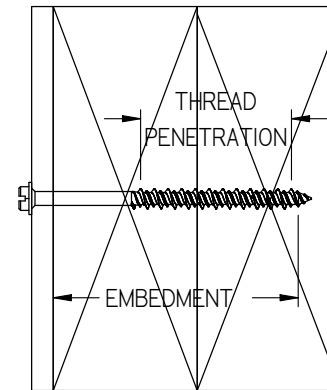
LOUVER MODEL I606DHPM FASTENER SCHEDULE

WOOD	STEEL STUD	STEEL	CONCRETE	CMU	MIN.	FASTENER TYPE	DIAMETER	# Rqd	CENTERS	EDGE	END	EMBEDMENT
JAMB ANGLE MOUNT FASTENER, WIDTH ≤ 72 INCHES												
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	1/4"	1	3"	2"		2"
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	3/8"	1	5"	2"		2"
	X				16 Ga.	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi) SEALED w/ PROSOCO SEALANT	1/4"	1	2-1/2"	2"		3 THREAD BEYOND SUBSTRATE
		X			A-36	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi) SEALED w/ PROSOCO SEALANT	1/4"	1	13-1/2"	2"		1/4"
		X			A-36	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi) SEALED w/ PROSOCO SEALANT	5/16"	1	16"	2"		1/4"
			X-CRACKED 6" DEEP		4ksi	HILTI KWIK HUS-EZ SS316 ANCHOR	1/4"	1	5-3/4"	4"		2-1/2"
			X-CRACKED 4" DEEP		4ksi	HILTI KWIK HUS-EZ SS316 ANCHOR	3/8"	1	8"	4"		2"
				X	2ksi	DEWALT GALVANIZED SCREW-BOLT+ ANCHOR	3/8"	1	4-3/4"	1-1/2"	1-1/2"	3-1/4"
				X	2ksi	HILTI KWIK-HUZ-EZ SS316 ANCHOR	3/8"	1	8"	4"		3-1/4"
MULLION ANGLE MOUNT FASTENERS, HEIGHT ≤ 120 INCHES												
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	1/4"	10	VARIES	2"		4"
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	1/2"	6	VARIES	2"		2-1/4"
	X				A-36	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi) SEALED w/ PROSOCO SEALANT	1/4"	4	VARIES	2"		1/4"
	X				A-36	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi) SEALED w/ PROSOCO SEALANT	5/16"	2	2-5/8"	2"		1/4"
			X-CRACKED 10" DEEP		4ksi	HILTI KWIK BOLT TZ SS 304 ANCHOR **	5/8"	4	VARIES	8"	9"	4-7/16"
MULLION ANGLE MOUNT BACK OF WALL FASTENERS, HEIGHT ≤ 120 INCHES												
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	1/4"	16	VARIES	1"		6"
X					SG 0.42	LAG SCREW (300 SERIES SS- COND. CW- Fy = 65ksi)	3/8"	12	VARIES	1-1/2"		6"
	X				A-36	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi) SEALED w/ PROSOCO SEALANT	1/4"	14	VARIES	1"		1/4"
	X				A-36	ELCO DRILL-FLEX DRILLING SCREWS (300 SERIES SS- COND. CW- Fy= 65ksi) SEALED w/ PROSOCO SEALANT	5/16"	12	VARIES	1"		1/4"
			X-CRACKED 8" DEEP		4ksi	HILTI KWIK HUS-EZ SS316 ANCHOR **	1/2"	10	VARIES	3"	4"	4-1/4"
			X-CRACKED 8" DEEP		4ksi	HILTI KWIK BOLT TZ SS 304 ANCHOR **	1/2"	10	VARIES	3"	4"	3-5/8"

GENERAL NOTES:

- IT SHALL BE THE RESPONSIBILITY OF THE ENGINEER OF RECORD TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THE LOUVER(S).
- THE I606DHPM WITH /WITHOUT DAMPER HAVE BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE FLORIDA BUILDING CODE (FBC) AND TEST PROTOCOLS TAS 100(A) WIND DRIVEN RAIN, TAS-201 (IMPACT), TAS-202 (UNIFORM STATIC PRESSURE), AND TAS-203 (CYCLIC FATIGUE).
- MAXIMUM SINGLE SECTION SIZE IS 72" WIDE X 120" HIGH.
- MAXIMUM ASSEMBLED LOUVER SIZE IS UNLIMITED WIDE X 120" HIGH.
- SECTIONS OR ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDING A SUITABLE STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER.
- CMU SHALL BE ASTM C90, TYPE II, 2,000 MIN PSI GROUT-FILLED, STEEL STUDS TO BE 16 GA. Fy=50ksi MIN.
- THE SLEEVE MOUNT STYLE LOUVER UTILIZES AN ANCHORLESS INSTALLATION METHOD THAT DOES NOT REQUIRE THE USE OF FASTENERS INTO THE SUBSTRATE. IT MAY BE INSTALLED IN ANY SUBSTRATE THAT WILL WITHSTAND THE LOADS TRANSFERRED TO IT BY THE LOUVER. NAILOR IND. DOES NOT DETERMINE THE STRUCTURAL INTERGRITY OF THE SUBSTRATE STRUCTURE.
- THE CONTINUOUS ANGLE MOUNT STYLE UTILIZES A CONTINUOUS JAMB ANGLE THAT IS ATTACHED TO THE SUBSTRATE BY FASTENERS. IT MAY BE INSTALLED IN CONCRETE, CMU, STEEL, OR WOOD ACCORDING TO THE FASTENER SCHEDULE. NAILOR IND. DOES NOT DETERMINE THE STRUCTURAL INTERGRITY OF THE SUBSTRATE STRUCTURE.
- LOUVER ASSEMBLY IS QUALIFIED FOR A MAXIMUM DESIGN LOAD OF +/- 150 PSF.
- LOUVER ASSEMBLY WITH AND WITHOUT DAMPER SHALL ONLY 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 / WATER PROOF EQUIPMENT, COMPONENTS, AND / OR SUPPLIES.
- INSTALLER TO PROVIDE SEPERATION OF DISSIMILAR MATERIALS AS REQUIRED.
- THE 2020 DAMPER MAY BE OPERATED BY A MANUAL QUADRANT OR BY AN ELECTRIC OR PNEUMATIC ACTUATOR, THE DAMPER'S ACTUATOR IS NOT PART OF THIS APPROVAL, BUT SHALL BE CERTIFIED BY AN INDEPENDENT TESTING AGENCY.
- FRAME CONSTRUCTION, HEAD AND SILL ARE SQUARE CUT, JAMBS ARE SQUARE CUT @ HEAD AND SILL. CORNERS ARE SECURED WITH (2) #10-24 x 1 1/2 HW, BLADES ARE SECURED TO JAMBS WITH (4) #10-24 X 1 1/2 HW, @ EACH END.
- STEEL / STAINLESS-STEEL / ALUMINIUM PARTS MAY BE MADE OUT OF ALTERNATE ALLOY THAT HAS EQUAL OR GREATER YIELD STRENGTH.
- BLADE SUPPORT ANGLE AND BLADE SUPPORT BRACE ONLY REQUIRED WHEN ACTUAL LOUVER SECTION WIDTH IS GREATER THAN 36 INCHES.
- 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 THREADED PORTION OF THE SCREW. LAG SCREWS ARE NOT TO BE INSTALLED AT WOOD JOINTS/SPLICES WHERE THE LAG SCREW COULD FALL BETWEEN MEMEBERS.

\*\* NOTE ENGINEER OF RECORD (EOR) IS RESPONSIBLE FOR DETERMINING IF CONCRETE IS TO BE CONSIDERED CRACKED OR UNCRACKED.



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Wayne K. Helmila  
Registration No: 59092

REVISIONS:  
REV A: UPDATED FASTENER SCHEDULE

CHK BY: Mastourian

DWN BY: fcoirtinas

**Nailor Industries Inc.**  
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SCALE: NTS

DATE: 6/14/2017

SHEET: 21 OF 21

DWG. NO. **I606DHPM**

TITLE:

**I606DHPM LOUVER  
W/ AND W/O DAMPER  
NOTES AND  
FASTENER SCHEDULE**

06/24/2021  
COA: 9090

**PRODUCT REVISED**  
as complying with the Florida  
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NOA-No. **21-0630.10**  
Expiration Date: **08/30/2023**  
By: *Manuel Perez*  
Miami-Dade Product Control