

EXTRUDED ALUMINUM STATIONARY LOUVER MIAMI-DADE QUALIFIED • FLORIDA PRODUCT APPROVED HIGH VELOCITY WIND-DRIVEN RAIN RESISTANT 5" (127) DEEP • VERTICAL BLADE

MODEL: 1605WDVM

QUALIFICATIONS:

- Miami-Dade County NOA No.: 24-0516.06 • Florida Product Approval No.: 28078.2
- Texas Department of Insurance Evaluation ID: LVR-29
- Tested in accordance with: TAS-100A (Wind-Driven Rain Test), TAS-201 (Large Missile Impact Test), TAS-202 (Uniform Static Air Pressure Test), TAS-203 (Cyclic Wind Pressure Loading Test).
- AMCA 500-L (Wind-Driven Rain, Water Penetration, Air Performance).
- AMCA 540 (Wind-Borne Debris Impact Test [Enhanced "Level E" Protection]).
- AMCA 550 (High Velocity Wind-Driven Rain Resistance Test).
- Wind load rating +/- 130 PSF.

STANDARD CONSTRUCTION:

FRAME: 5" (127) deep, Type 6063-T6 extruded aluminum, .080" (2.03)

nominal wall thickness. Integral downspouts and caulking slot

BLADES: Type 6063-T6 extruded aluminum, .060" (1.52) nominal wall

thickness, with reinforcing bosses.

BLADE ANGLE: Fixed at 45 degrees.

BLADE SPACING: Approximately 1 1/2" (38) on centers. BLADE SUPPORT: 2.5" (64) strap every 60" (1524) or

less in height.

SCREEN: 3/4" x .050 (19 x 1.3) expanded,

> flattened aluminum bird screen in removable frame, inside (rear) mount (adds approximately 3/8" [10] to louver

depth).

FINISH: Mill.

PROJECT:

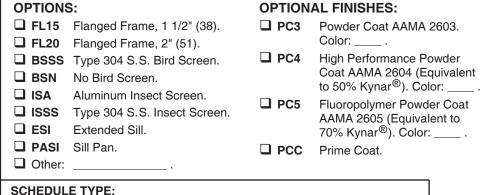
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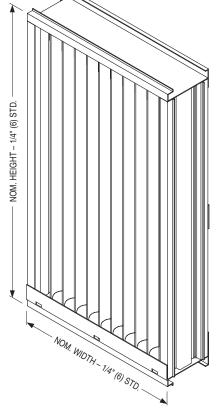
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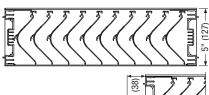
MINIMUM SIZE: 12" W x 12" H (305 x 305). MAX. SINGLE 72" W x 120" H (1829 x 3048) **SECTION SIZE:** or 120" W x 72" H (3048 x 1829). 60 sq. ft. (5.6 m2). Larger louvers will

require field assembly of smaller sections.

MAXIMUM SIZE: Unlimited Width x 120" H (3048).







OPT. FLANGED FRAME (FL15 STD.)

□ AN04	Clear Anodized 204-R1.
□ AN15	Clear Anodized 215-R1.
☐ ANLB	Light Bronze.
☐ ANMB	Medium Bronze.
☐ ANDB	Dark Bronze.
☐ ANBK	Black.
For Installa approved I	ation Instructions, see NOA.

Dir	J	in inches (m	ım)
DATE		SUPERSEDES	
7 - 24 - 24	1600M	1 - 30 - 24	1605WDVM

Page 1 of 3



EXTRUDED ALUMINUM STATIONARY LOUVER
MIAMI-DADE QUALIFIED • FLORIDA PRODUCT APPROVED
HIGH VELOCITY WIND-DRIVEN RAIN RESISTANT
5" (127) DEEP • VERTICAL BLADE • PERFORMANCE DATA
MODEL: 1605WDVM

FREE AREA in Square Feet and Square Meters

			Width in Inches and Meters																	
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
		0.30	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68	1.83	1.98	2.13	2.29	2.44	2.59	2.74	2.90	3.05
	12	0.28	0.51	0.74	0.96	1.19	1.42	1.65	1.87	2.10	2.33	2.55	2.78	3.01	3.24	3.46	3.69	3.92	4.14	4.37
	0.30	0.03	0.05	0.07	0.09	0.11	0.13	0.15	0.17	0.20	0.22	0.24	0.26	0.28	0.30	0.32	0.34	0.36	0.38	0.41
	18	0.49	0.89	1.28	1.68	2.07	2.47	2.86	3.26	3.65	4.05	4.44	4.83	5.23	5.62	6.02	6.41	6.81	7.20	7.60
	0.46	0.05	0.08	0.12	0.16	0.19	0.23	0.27	0.30	0.34	0.38	0.41	0.45	0.49	0.52	0.56	0.60	0.63	0.67	0.71
	24 0.61	0.63 0.06	1.14 0.11	1.65 0.15	2.15 0.20	2.66 0.25	3.17 0.29	3.67 0.34	4.18 0.39	4.69 0.44	5.19 0.48	5.70 0.53	6.20 0.58	6.71 0.62	7.22 0.67	7.72 0.72	8.23 0.76	8.74 0.81	9.24 0.86	9.75 0.91
	30	0.06	1.52	2.19	2.87	3.54	4.21	4.89	5.56	6.24	6.91	7.58	8.26	8.93	9.61	10.72	10.76	11.63	12.30	12.98
	0.76	0.04	0.14	0.20	0.27	0.33	0.39	0.45	0.52	0.24	0.64	0.70	0.77	0.83	0.89	0.96	1.02	1.08	1.14	1.21
	36	1.05	1.89	2.74	3.58	4.42	5.26	6.10	6.95	7.79	8.63	9.47	10.31	11.15	12.00	12.84	13.68	14.52	15.36	16.21
	0.36	0.10	0.18	0.25	0.33	0.41	0.49	0.57	0.65	0.72	0.80	0.88	0.96	1.04	1.11	1.19	1.27	1.35	1.43	1.51
	42	1.26	2.27	3.28	4.29	5.30	6.31	7.32	8.33	9.34	10.35	11.36	12.37	13.38	14.39	15.39	16.40	17.41	18.42	19.43
	1.07	0.12	0.21	0.30	0.40	0.49	0.59	0.68	0.77	0.87	0.96	1.06	1.15	1.24	1.34	1.43	1.52	1.62	1.71	1.81
	48	1.47	2.65	3.83	5.00	6.18	7.36	8.53	9.71	10.89	12.07	13.24	14.42	15.60	16.77	17.95	19.13	20.31	21.48	22.66
ည	1.22	0.14	0.25	0.36	0.46	0.57	0.68	0.79	0.90	1.01	1.12	1.23	1.34	1.45	1.56	1.67	1.78	1.89	2.00	2.11
etel	54	1.68	3.03	4.37	5.72	7.06	8.41	9.75	11.09	12.44	13.78	15.13	16.47	17.82	19.16	20.51	21.85	23.20	24.54	25.89
Ž	1.37	0.16	0.28	0.41	0.53	0.66	0.78	0.91	1.03	1.16	1.28	1.41	1.53	1.66	1.78	1.91	2.03	2.16	2.28	2.40
and Meters	60	1.89	3.40	4.92	6.43	7.94	9.45	10.97	12.48	13.99	15.50	17.02	18.53	20.04	21.55	23.07	24.58	26.09	27.60	29.12
	1.52	0.18	0.32	0.46	0.60	0.74	0.88	1.02	1.16	1.30	1.44	1.58	1.72	1.86	2.00	2.14	2.28	2.42	2.56	2.70
ĕ	66	2.10	3.78	5.46	7.14	8.82	10.50	12.18	13.86	15.54	17.22	18.90	20.58	22.26	23.94	25.62	27.30	28.98	30.66	32.34
	1.68	0.20	0.35	0.51	0.66	0.82	0.98	1.13	1.29	1.44	1.60	1.76	1.91	2.07	2.22	2.38	2.54	2.69	2.85	3.00
	72 1.83	2.31 0.21	4.16 0.39	6.01 0.56	7.85 0.73	9.70 0.90	11.55 1.07	13.40 1.24	15.24 1.42	17.09 1.59	18.94 1.76	20.79 1.93	22.64 2.10	24.48 2.27	26.33 2.45	28.18 2.62	30.03 2.79	31.88 2.96	33.72 3.13	35.57 3.30
=	78	2.52	4.53	6.55	8.57	10.58	12.60	14.61	16.63	18.64	20.66	22.67	2.10	2.21	2.43	2.02	2.79	2.90	3.13	3.30
l lg	1.98	0.23	0.42	0.61	0.80	0.98	1.17	1.36	1.54	1.73	1.92	2.11								
Height in Inches	84	2.73	4.91	7.10	9.28	11.46	13.64	15.83	18.01	20.19	22.38	24.56	1							
	2.13	0.25	0.46	0.66	0.86	1.06	1.27	1.47	1.67	1.88	2.08	2.28								
	90	2.94	5.29	7.64	9.99	12.34	14.69	17.04	19.39	21.75	24.10	26.45	i							
	2.29	0.27	0.49	0.71	0.93	1.15	1.36	1.58	1.80	2.02	2.24	2.46								
	96	3.15	5.67	8.19	10.70	13.22	15.74	18.26	20.78	23.30	25.81	28.33	1							
	2.44	0.29	0.53	0.76	0.99	1.23	1.46	1.70	1.93	2.16	2.40	2.63								
	102	3.36	6.04	8.73	11.42	14.10	16.79	19.47	22.16	24.85	27.53	30.22								
	2.59	0.31	0.56	0.81	1.06	1.31	1.56	1.81	2.06	2.31	2.56	2.81	ļ							
	108	3.57	6.42	9.27	12.13	14.98	17.84	20.69	23.54	26.40	29.25	32.11								
	2.74	0.33	0.60	0.86	1.13	1.39	1.66	1.92	2.19	2.45	2.72	2.98	ļ							
	114	3.78	6.80	9.82	12.84	15.86	18.88	21.91	24.93	27.95	30.97	33.99								
	2.90	0.35	0.63	0.91	1.19	1.47	1.75	2.04	2.32	2.60	2.88	3.16								
	120	3.99	7.18	10.36	13.55	16.74	19.93	23.12	26.31	29.50	32.69	35.88								
▮┕	3.05	0.37	0.67	0.96	1.26	1.56	1.85	2.15	2.44	2.74	3.04	3.33	J							

SCHEDULE TYPE:		Page	2 of 3				
PROJECT:	Dimensions are in inches (mm).						
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.			
CONTRACTOR:	7 - 24 - 24						



EXTRUDED ALUMINUM STATIONARY LOUVER
MIAMI-DADE QUALIFIED • FLORIDA PRODUCT APPROVED
HIGH VELOCITY WIND-DRIVEN RAIN RESISTANT
5" (127) DEEP • VERTICAL BLADE • PERFORMANCE DATA
MODEL: 1605WDVM

Static Pressure Drop in Inches w.g. (Pa)

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

	Free Area %	53%
	Free Area sq. ft. (sq. m.)	8.53 (0.79)
I N T	Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	1250 fpm (381 m/min.)*
A K E	Air Volume at 1250 fpm Free Area Velocity	10,663 cfm (5032 l/s)
-	Pressure Drop @ 1250 fpm	.29 in. w.g. (72 Pa)

NOTE: To minimize water penetration when sizing intake louvers, select a Free Area Velocity that is **below** the beginning point of water penetration.*Maximum Free Area Velocity tested is 1250 fpm. Beginning point of water penetration for this model is above 1250 fpm.

WIND DRIVEN RAIN PERFORMANCE

Core Ventilation	0	110	195	279	396	497	588	701	781	891	984
Rate in fpm (m/s)	(0.00)	(0.56)	(0.99)	(1.42)	(2.01)	(2.52)	(2.99)	(3.56)	(3.97)	(4.53)	(5.00)
Free Area Ventilation	0	186	330	473	671	842	996	1187	1323	1509	1667
Rate in fpm (m/s)	(0.00)	(0.95)	(1.68)	(2.40)	(3.41)	(4.28)	(5.06)	(6.03)	(6.72)	(7.63)	(8.47)
Effectiveness Ratio (%)	100	100	100	100	100	100	100	100	100	100	100
Penetration Class	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α

Test was based on a 39.375" x 39.375" (1.0 m x 1.0 m) core area louver tested at a rainfall rate of 3" per hour (76 mm/hour) with a wind velocity of **29 mph (13 m/s)**.

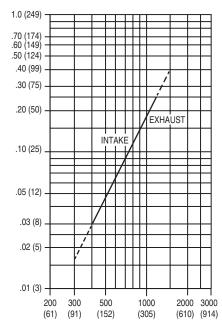
DISCHARGE LOSS COEFFICIENT CLASS (INTAKE): 2. (Discharge Loss Coefficient Classification is as follows: 1=0.4 and above, 2=0.3 to 0.399, 3=0.2 to 0.299, 4=0.199 and below.)

Core Ventilation	0	88	199	301	400	485	590	687	787	883	987
Rate in fpm (m/s)	(0.00)	(0.45)	(1.01)	(1.53)	(2.03)	(2.46)	(3.00)	(3.49)	(4.00)	(4.49)	(5.01)
Free Area Ventilation	0	149	337	510	678	822	999	1164	1333	1496	1672
Rate in fpm (m/s)	(0.00)	(0.76)	(1.71)	(2.59)	(3.44)	(4.18)	(5.07)	(5.91)	(6.77)	(7.60)	(8.49)
Effectiveness Ratio (%)	100	100	100	100	100	100	100	100	100	100	100
Penetration Class	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α

Test was based on a 39.375" x 39.375" (1.0 m x 1.0 m) core area louver tested at a rainfall rate of 8" per hour (203 mm/hour) with a wind velocity of **50 mph (22 m/s).**

DISCHARGE LOSS COEFFICIENT CLASS (INTAKE): 2. (Discharge Loss Coefficient Classification is as follows: 1=0.4 and above, 2=0.3 to 0.399, 3=0.2 to 0.299, 4=0.199 and below.)

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.



Nailor Industries Inc. certifies that the Model 1605WDVM shown herein is licensed to bear the AMCA Certified Ratings Program 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. The AMCA Certified Ratings Program seal applies to Water Penetration, Wind Driven Rain and Air Performance ratings.

Louvers were tested in accordance with AMCA Standard 500-L.





HIGH VELOCITY RAIN
RESISTANT WITH BLADES
FULLY OPEN AND
IMPACT RESISTANT LOUVER

Enhanced Protection Level E

nis label does not signify ACA airflow performance certification.

Nailor Industries Inc. certifies that the 1605WDVM louver shown herein is approved to bear the AMCA International 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 International Listing Label program. The AMCA International Listing Label applies to pressure cycle tested wind borne debris impact resistant louvers rated for Enhanced Protection and +/- 130PSF with a minimum blade span of less than 12 in. (305mm) and a maximum unsupported blade span of 58 in. (1473 mm) and to High Velocity Wind-Driven Rain Resistant Louvers tested in the fully open position that permits airflow through a louver.

SCHEDULE TYPE:		Page	e 3 of 3				
PROJECT:	Di	Dimensions are in inches (mm).					
ENGINEER:	DATE	DATE B SERIES SUPERSEDES DRAWING					
CONTRACTOR:	7 - 24 - 24	1600M	1 - 30 - 24	1605WDVM			



EXTRUDED ALUMINUM STATIONARY LOUVER MIAMI-DADE QUALIFIED • FLORIDA PRODUCT APPROVED HIGH VELOCITY WIND-DRIVEN RAIN RESISTANT 5" (127) DEEP • VERTICAL BLADE

MODEL: 1675WDVM

QUALIFICATIONS:

- Miami-Dade County NOA No.: 24-0516.03 • Florida Product Approval No.: 28078.4
- Texas Department of Insurance Evaluation ID: LVR-26
- Tested in accordance with: TAS-100A (Wind-Driven Rain Test), TAS-201 (Large Missile Impact Test), TAS-202 (Uniform Static Air Pressure Test), TAS-203 (Cyclic Wind Pressure Loading Test).
- AMCA 500-L (Wind-Driven Rain, Water Penetration, Air Performance).
- AMCA 540 (Wind-Borne Debris Impact Test [Enhanced "Level E" Protection]).
- AMCA 550 (High Velocity Wind-Driven Rain Resistance Test).
- Wind load rating +/- 150 PSF.

STANDARD CONSTRUCTION:

FRAME: 5" (127) deep, Type 6063-T6 extruded aluminum, .080"

(2.03) nominal wall thickness. Integral downspouts and

caulking slot provided.

BLADES: Type 6063-T6 extruded aluminum, .063" (1.6) nominal wall

thickness, with reinforcing bosses.

BLADE ANGLE: Fixed at 45 degrees.

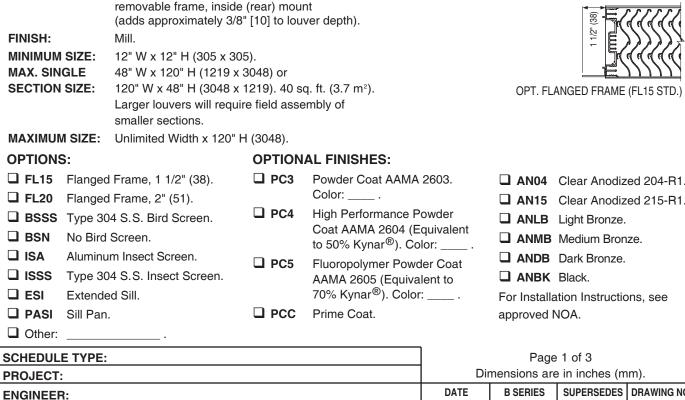
BLADE SPACING: Approximately 3/4" (19) on centers. BLADE SUPPORT: 2.5" (64) strap every 60" (1524) or

less in height.

SCREEN: 3/4" x .050 (19 x 1.3) expanded,

> flattened aluminum bird screen in removable frame, inside (rear) mount

CONTRACTOR:



7 - 24 - 24

1600M

1675WDVM

2 - 19 - 24



EXTRUDED ALUMINUM STATIONARY LOUVER
MIAMI-DADE QUALIFIED • FLORIDA PRODUCT APPROVED
HIGH VELOCITY WIND-DRIVEN RAIN RESISTANT
5" (127) DEEP • VERTICAL BLADE • PERFORMANCE DATA
MODEL: 1675WDVM

FREE AREA in Square Feet and Square Meters

0.44

5.09

0.47

5.46

0.51

5.82

0.54

6.19

0.58

6.56

0.61

6.92

0.64

0.61

7.13

0.66

7.64

0.71

8.15

0.76

8.67

0.81

9.18

0.85

9.69

0.90

0.79

9.16

0.85

9.82

0.91

10.48

0.97

11.14

1.04

11.80

1.10

12.46

1.16

0.97

11.20

1.04

12.01

1.12

12.81

1.19

13.62

1.27

14.43

1.34

15.23

1.42

1.32

15.27

1.42

1.52

17.47

1.62

18.57

1.73

19.67

1.83

20.77

1.93

1.14

13.24

1.23

14.19

1.32

15.14

1.41

16.10

1.50

17.05

1.58

18.00

1.67

2.13

90

2.29

96

2.44

102

2.59

108

2.74

114

2.90

120

3.05

0.26

3.05

0.28

3.27

0.30

3.49

0.32

3.71

0.35

3.93

0.37

4.15

0.39

In	THE AREA III Square Feet and Square Meters																			
			1				1	1	Wi	dth in I	nches a	and Me	ters				1			
		12	18	24	30	36	42	48	54	60	66	72	78	84	90	96	102	108	114	120
		0.30	0.46	0.61	0.76	0.91	1.07	1.22	1.37	1.52	1.68	1.83	1.98	2.13	2.29	2.44	2.59	2.74	2.90	3.05
	12	0.30	0.50	0.70	0.89	1.09	1.29	1.49	1.69	1.89	2.09	2.28	2.48	2.68	2.88	3.08	3.28	3.48	3.67	3.87
	0.30	0.03	0.05	0.06	0.08	0.10	0.12	0.14	0.16	0.18	0.19	0.21	0.23	0.25	0.27	0.29	0.30	0.32	0.34	0.36
1	18	0.52	0.86	1.21	1.55	1.90	2.24	2.59	2.93	3.28	3.63	3.97	4.32	4.66	5.01	5.35	5.70	6.04	6.39	6.73
	0.46	0.05	0.08	0.11	0.14	0.18	0.21	0.24	0.27	0.30	0.34	0.37	0.40	0.43	0.47	0.50	0.53	0.56	0.59	0.63
	24	0.63	1.06	1.48	1.90	2.33	2.75	3.17	3.60	4.02	4.44	4.87	5.29	5.71	6.14	6.56	6.98	7.41	7.83	8.25
	0.61	0.06	0.10	0.14	0.18	0.22	0.26	0.29	0.33	0.37	0.41	0.45	0.49	0.53	0.57	0.61	0.65	0.69	7.00	0.77
	30	0.85	1.42	1.99	2.56	3.13	3.70	4.27	4.84	5.41	5.98	6.55	7.12	7.69	8.26	8.83	9.40	9.97	10.54	11.11
	0.76	0.08	0.13	0.19	0.24	0.29	0.34	0.40	0.45	0.50	0.56	0.61	0.66	0.71	0.77	0.82	0.87	0.93	0.98	1.03
	36	1.07	1.79	2.51	3.22	3.94	4.66	5.37	6.09	6.81	7.52	8.24	8.96	9.67	10.39	11.11	11.82	12.54	13.26	13.97
	0.36	0.10	0.17	0.23	0.30	0.37	0.43	0.50	0.57	0.63	0.70	0.77	0.83	0.90	0.97	1.03	1.10	1.16	1.23	1.30
	42	1.29	2.16	3.02	3.88	4.75	5.61	6.47	7.34	8.20	9.06	9.93	10.79	11.65	12.52	13.38	14.24	15.11	15.97	16.83
	1.07	0.12	0.20	0.28	0.36	0.44	0.52	0.60	0.68	0.76	0.84	0.92	1.00	1.08	1.16	1.24	1.32	1.40	1.48	1.56
l "	48 1.22	1.51 0.14	2.52 0.23	3.53 0.33	4.54 0.42	5.55 0.52	6.56 0.61	7.57 0.70	8.58 0.80	9.59 0.89	10.60 0.99	11.61 1.08	12.62 1.17	13.63	14.64 1.36	15.65 1.45	16.66 1.55	17.67	18.68	19.69
je je	54	1.73	2.89	4.05	5.20	6.36	7.52	8.67	0.60	0.09	0.99	1.00	1.17	1.27	1.30	1.45	1.55	1.64	1.74	1.83
Meters	1.37	0.16	0.27	0.38	0.48	0.59	0.70	0.81												
9	60	1.95	3.26	4.56	5.86	7.17	8.47	9.77	l											
and	1.52	0.18	0.30	0.42	0.54	0.67	0.79	0.91												
SS	66	2.17	3.62	5.07	6.52	7.97	9.42	10.87												
Inches	1.68	0.20	0.34	0.47	0.61	0.74	0.88	1.01	İ											
	72	2.39	3.99	5.59	7.18	8.78	10.38	11.97	İ											
.⊆	1.83	0.22	0.37	0.52	0.67	0.82	0.96	1.11	İ											
ΙΞ	78	2.61	4.36	6.10	7.84	9.59	11.33	13.07	ĺ											
Height	1.98	0.24	0.40	0.57	0.73	0.89	1.05	1.21												
품	84	2.83	4.72	6.61	8.50	10.39	12.28	14.17												
1	0.10	1 000	0.44	0.04	0.70	0.07	4 4 4	1 00	I											

SCHEDULE TYPE:		Page	2 of 3					
PROJECT:	Dir	mensions are	e in inches (m	ım).				
ENGINEER:	DATE	DATE B SERIES SUPERSEDES DRAWING N						
CONTRACTOR:	7 - 24 - 24							



EXTRUDED ALUMINUM STATIONARY LOUVER
MIAMI-DADE QUALIFIED • FLORIDA PRODUCT APPROVED
HIGH VELOCITY WIND-DRIVEN RAIN RESISTANT
5" (127) DEEP • VERTICAL BLADE • PERFORMANCE DATA
MODEL: 1675WDVM

Static Pressure Drop in Inches w.g. (Pa)

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

Fre	e Area %	47%
Fre	e Area sq. ft. (sq. m.)	7.57 (0.70)
I N T	Free Area Velocity at Point of Beginning Water Penetration at .01 oz./sq. ft. (3 ml/sq. m) (15 min. test duration)	1250 fpm (381 m/min.)*
K	Air Volume at 1250 fpm Free Area Velocity	9463 cfm (4466 l/s)
-	Pressure Drop @ 1250 fpm	.38 in. w.g. (95 Pa)

NOTE: To minimize water penetration when sizing intake louvers, select a Free Area Velocity that is **below** the beginning point of water penetration.*Maximum Free Area Velocity tested is 1250 fpm. Beginning point of water penetration for this model is above 1250 fpm.

WIND DRIVEN RAIN PERFORMANCE

Core Ventilation	0	110	195	279	396	497	588	701	781	891	981
Rate in fpm (m/s)	(0.00)	(0.56)	(0.99)	(1.42)	(2.01)	(2.52)	(2.99)	(3.56)	(3.97)	(4.53)	(4.98)
Free Area Ventilation	0	212	375	537	762	957	1132	1349	1503	1715	1888
Rate in fpm (m/s)	(0.00)	(1.08)	(1.91)	(2.73)	(3,87)	(4.86)	(5.75)	(6.85)	(7.63)	(8.71)	(9.59)
Effectiveness Ratio (%)	100	100	100	100	100	100	100	100	100	100	100
Penetration Class	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α

Test was based on a 39.375" x 39.375" (1.0 m x 1.0 m) core area louver tested at a rainfall rate of 3" per hour (76 mm/hour) with a wind velocity of **29 mph (13 m/s).**

DISCHARGE LOSS COEFFICIENT CLASS (INTAKE): 3. (Discharge Loss Coefficient Classification is as follows:

1=0.4 and above, 2=0.3 to 0.399, 3=0.2 to 0.299, 4=0.199 and below.)

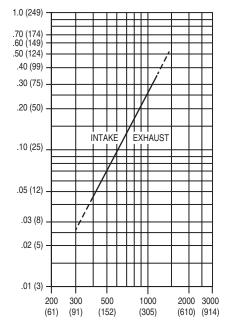
	,		,								
Core Ventilation	0	88	199	301	400	485	590	687	787	883	987
Rate in fpm (m/s)	(0.00)	(0.45)	(1.01)	(1.53)	(2.03)	(2.46)	(3.00)	(3.49)	(4.00)	(4.49)	(5.01)
Free Area Ventilation	0	169	383	579	770	934	1136	1322	1515	1700	1900
Rate in fpm (m/s)	(0.00)	(0.86)	(1.95)	(2.94)	(3.91)	(4.74)	(5.77)	(6.72)	(7.70)	(8.64)	(9.65)
Effectiveness Ratio (%)	100	100	100	100	100	100	100	100	100	100	100
Penetration Class	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α	Α

Test was based on a 39.375" x 39.375" (1.0 m x 1.0 m) core area louver tested at a rainfall rate of 8" per hour (203 mm/hour) with a wind velocity of **50 mph (22 m/s).**

DISCHARGE LOSS COEFFICIENT CLASS (INTAKE): 3. (Discharge Loss Coefficient Classification is as follows:

1=0.4 and above, 2=0.3 to 0.399, 3 = 0.2 to 0.299, 4 = 0.199 and below.)

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.



Nailor Industries Inc. certifies that the Model 1675WDVM shown herein is licensed to bear the AMCA Certified Ratings Program 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. The AMCA Certified Ratings Programs and Air Performance ratings.

Louvers were tested in accordance with AMCA Standard 500-L.





HIGH VELOCITY RAIN
RESISTANT WITH BLADES
FULLY OPEN AND
IMPACT RESISTANT LOUVER
Enhanced Protection Level E
a See www.AMCA.org for all certified or listed products

This label does not:
AMCA airflow perforertification.

Nailor Industries Inc. certifies that the 1675WDVM louver shown herein is approved to bear the AMCA International 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 International Listing Label program. The AMCA International Listing Label applies to pressure cycle tested wind borne debris impact resistant louvers rated for Enhanced Protection and +/- 150PSF with a minimum blade span of less than 12 in. (305mm) and a maximum unsupported blade span of 58 in. (1473 mm) and to High Velocity Wind-Driven Rain Resistant Louvers tested in the fully open position that permits airflow through a louver.

SCHEDULE TYPE:	Page 3 of 3							
PROJECT:	Di	mensions are	e in inches (m	ım).				
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.				
CONTRACTOR:	7 - 24 - 24	1600M	2 - 19 - 24	1675WDVM				



Slate Blue	LF01	Medium Bronze	LF02	Sandstone	LF03
Light Gray	LF04	Charcoal	LF05	Bone White	LF06
Western Tan	LF07	Architectural Bron	ze 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
Fluoropolymer Powder Coat AAMA 2605-Superior Finish (AKA: Powdura® 5000, Coraflon® Powder, Interpon® D3000-Fluoromax, IFS 500FP)	"Ultimate" - 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 Nailo for availability of extended warranty)
High Performance Powder Coat AAMA 2604 - High Performance Finish (AKA: Powdura® 4000, Envirocron® Ultra Durable Powder, Dynadure™ 400, Interpon® D2000, IFS 400SD)	"Better" - 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
Durable Powder Coat AAMA 2603 - Pigmented Organic Coatings (AKA: Powdura® 3000, Envirocron® Durable Powder, Dynadure™ 300, Interpon® D1000, IFS 300SP)	"Good" - 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
Clear Anodize 215-R1 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
Clear Anodize 204-R1 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
Color Anodize 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
Prime Coat	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

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

Interpor[®] 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.

Houston • Las Vegas • Toronto • Calgary • Thetford, U.K.

9-16-22



MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/building

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

NOTICE OF ACCEPTANCE (NOA)

Nailor Industries Inc. 4714 Winfield Road Houston, TX 77039

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model 1675WDVM Aluminum Louver – L.M.I.

APPROVAL DOCUMENT: Drawing No. **1675WDVM**, titled "1675WDVM Louver", sheets 1 through 12 of 12, prepared by manufacturer, dated 09/25/2017, with revision C dated 05/10/2024, 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. 23-0724.22 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.

MIAMI-DADE COUNTY
APPROVED

NOA No. 24-0516.03 Expiration Date: August 30, 2028 Approval Date: July 18, 2024 Page 1

07/08/24

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS NOA # 18-0117.11

A. DRAWINGS

1. Drawing No. **1675WDVM**, titled "1675WDVM Louver", sheets 1 through 11 of 11, dated 09/25/17, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, P.E.

B. TESTS "Submitted under NOA No. 18-0117.11"

- 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.

- 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
- 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.

C. CALCULATIONS

1. Louver structural calculations dated 10/26/17, prepared by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

- 1. Statement letter of code conformance to the **FBC** 6th **Edition (2017)** issued by Rice Engineering, dated 04/16/18, signed and sealed by Wayne K. Helmila, P.E.
- 2. Statement letter of no financial interest issued by Rice Engineering, dated 04/16/18, signed and sealed by Wayne K. Helmila, P.E.

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0516.03
Expiration Date: August 30, 2028

Nailor Industries Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED UNDER NOA # 21-0630.09 AND NEW

A. DRAWINGS

1. Drawing No. **1675WDVM**, titled "1675WDVM Louver", sheets 1 through 12 of 12, prepared by manufacturer, dated 09/25/2017, with revision C dated 05/10/2024, signed and sealed by Wayne K. Helmila, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Louver calculations, prepared by Rice Engineering, dated 05/10/2024, signed and sealed by Wayne K. Helmila, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

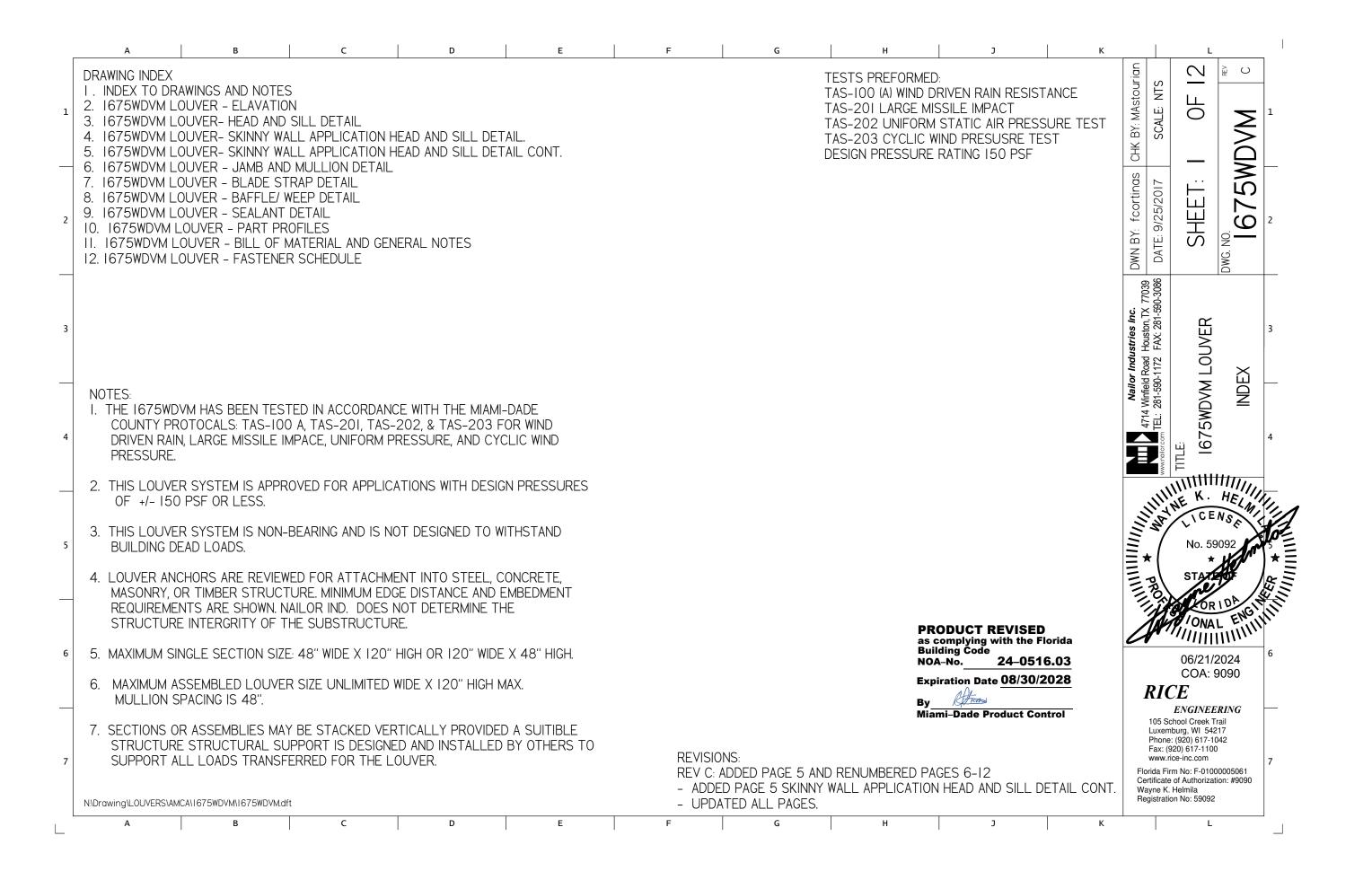
F. STATEMENTS

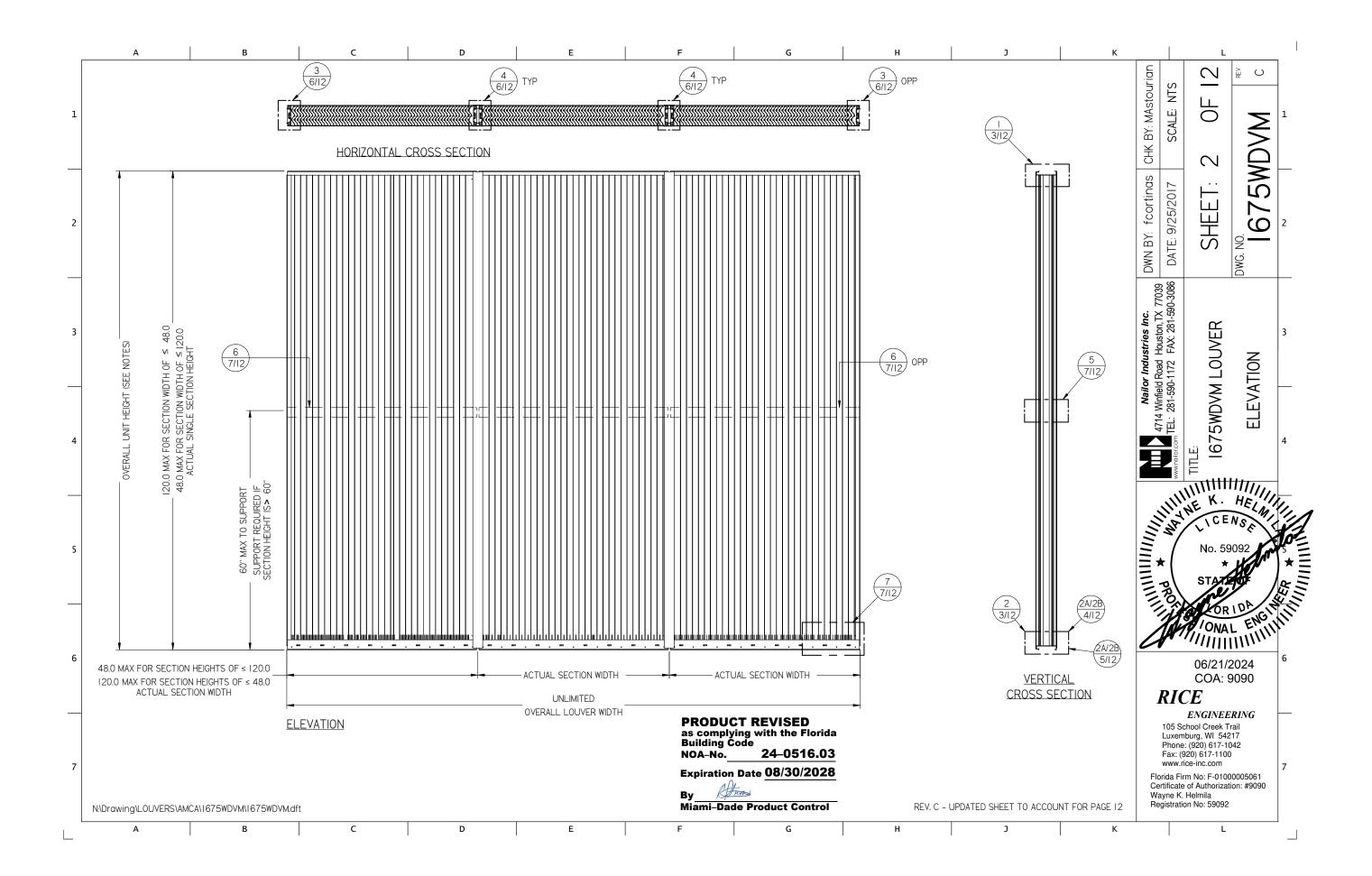
1. Statement letter of code conformance to the 8th edition (2023) of the FBC, issued by Rice Engineering, dated 05/10/2024, signed and sealed by Wayne K. Helmila, P.E.

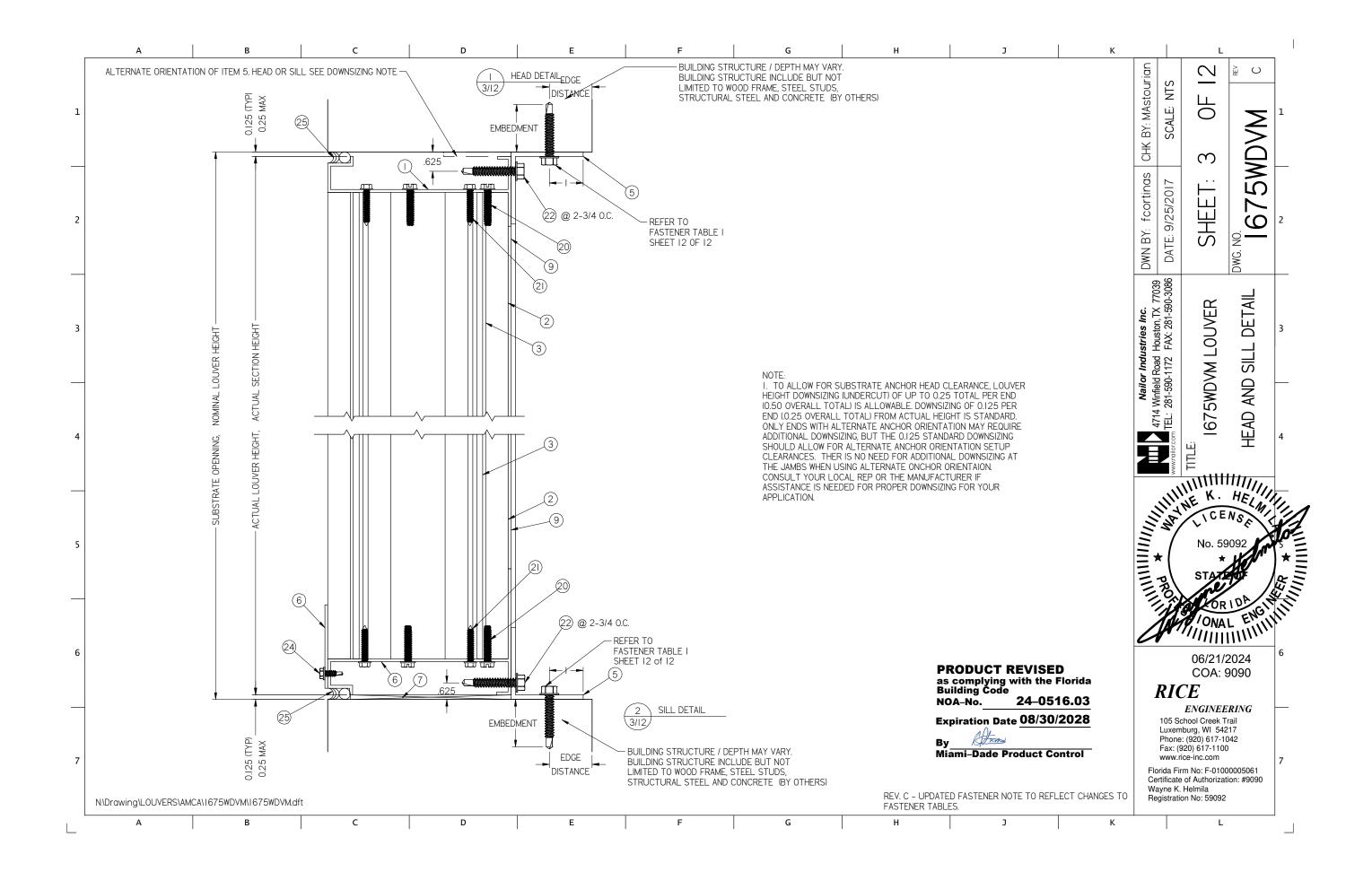
"Submitted under NOA # 21-0630.09"

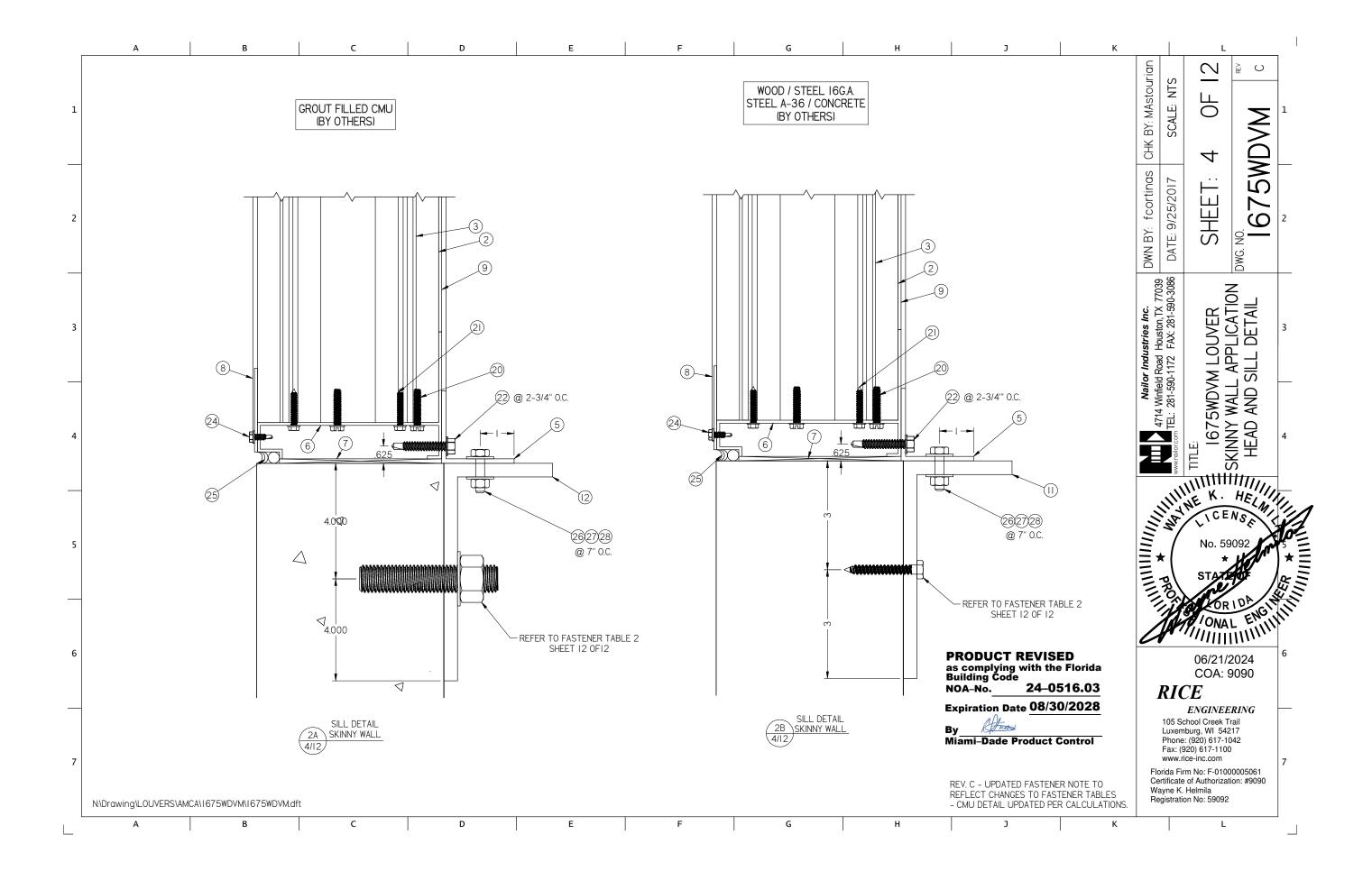
2. Statement letter of code conformance to the 7th edition (2020) FBC, issued by Rice Engineering, dated 08/16/21, signed and sealed by Wayne K. Helmila, P.E.

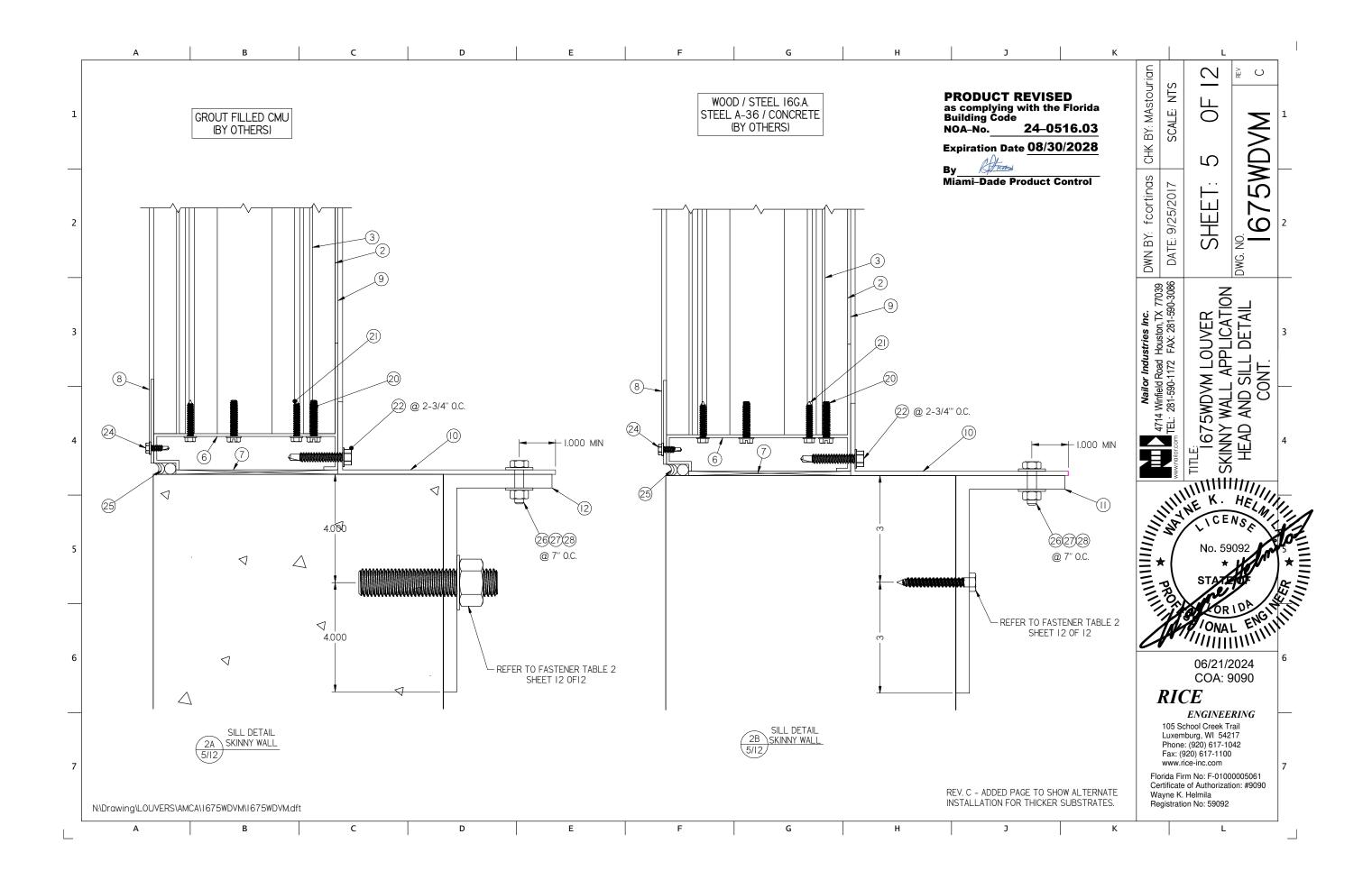
Carlos M. Utrera, P.E. Product Control Examiner NOA No. 24-0516.03 Expiration Date: August 30, 2028

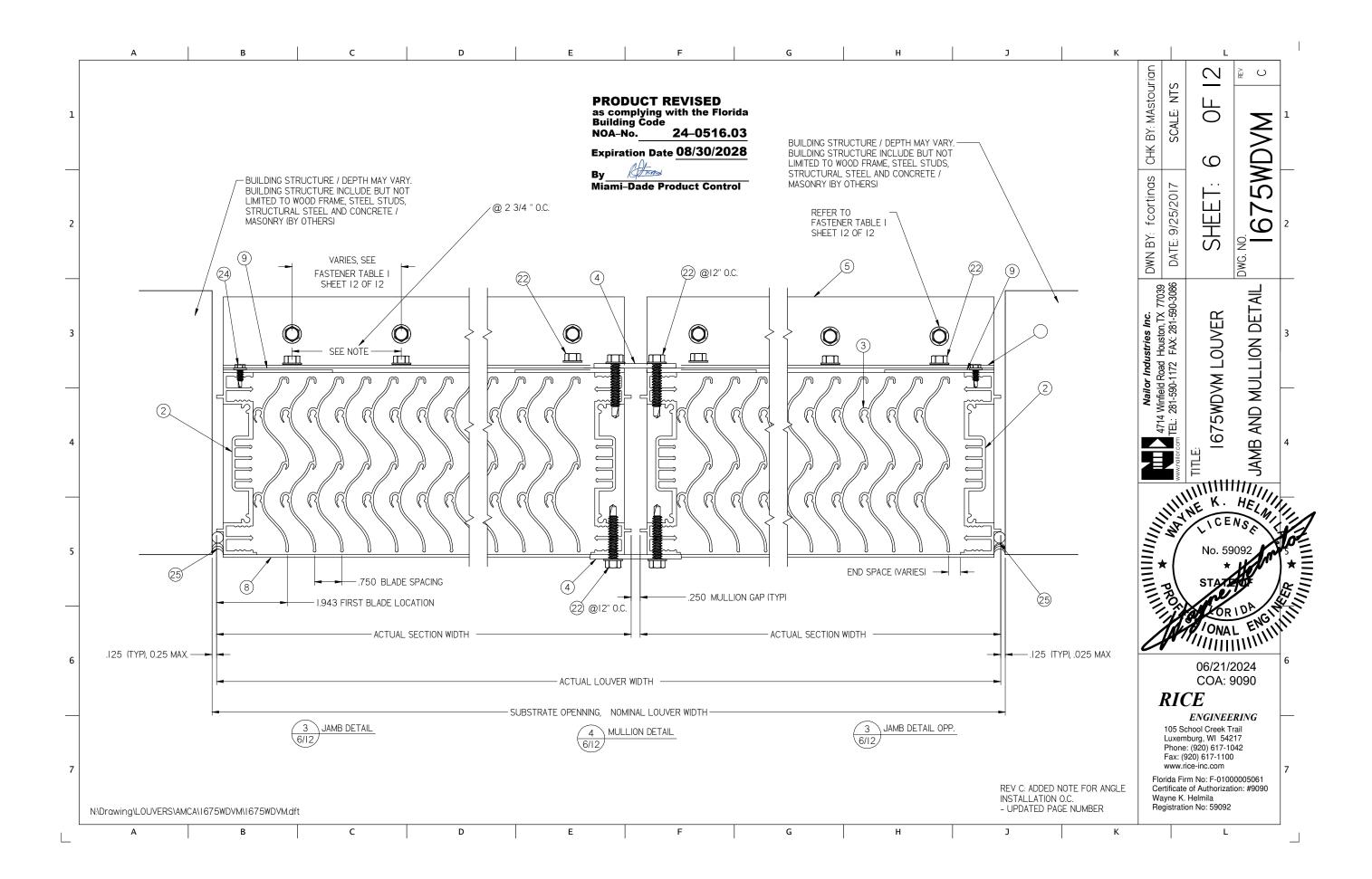


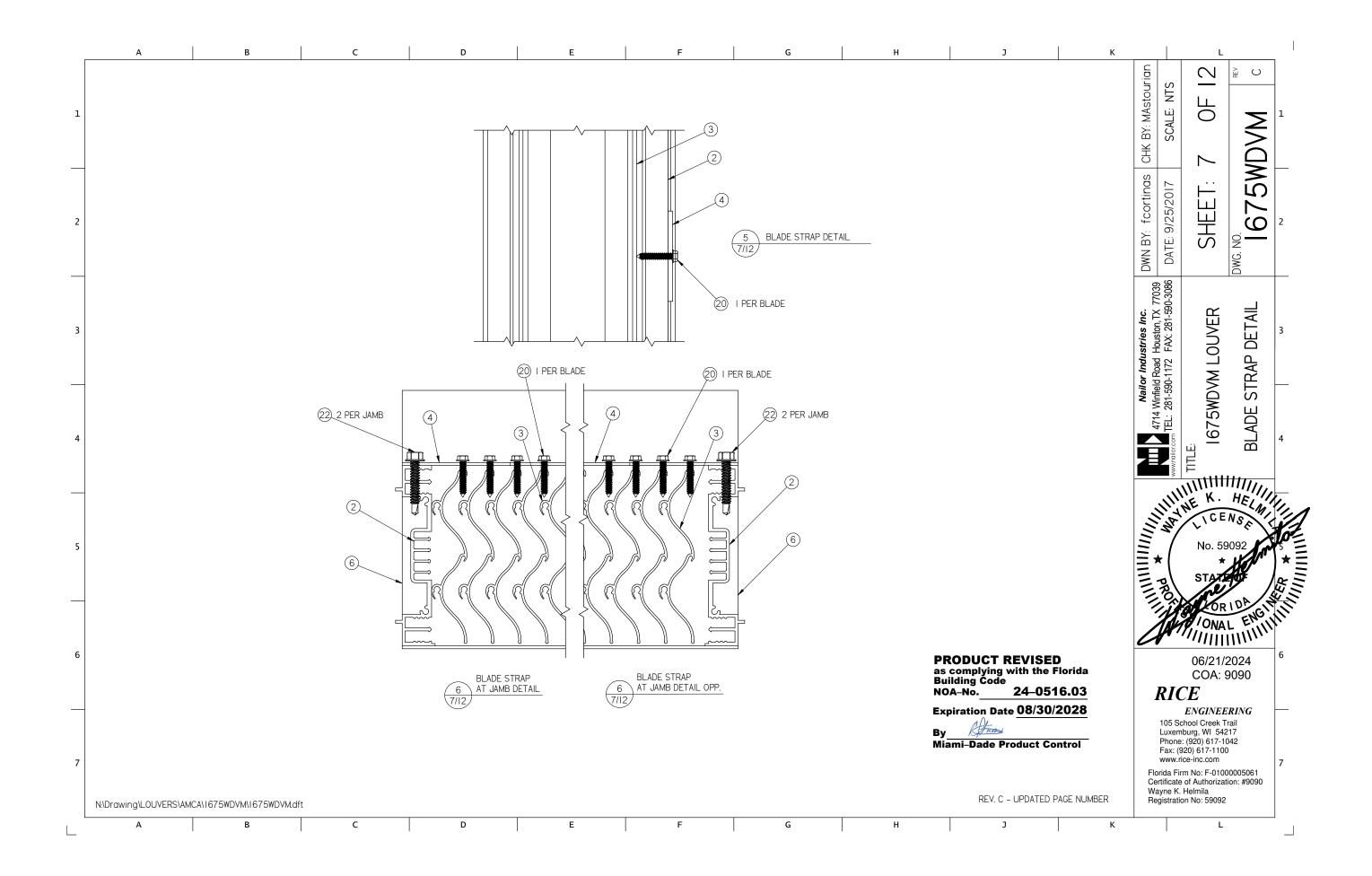


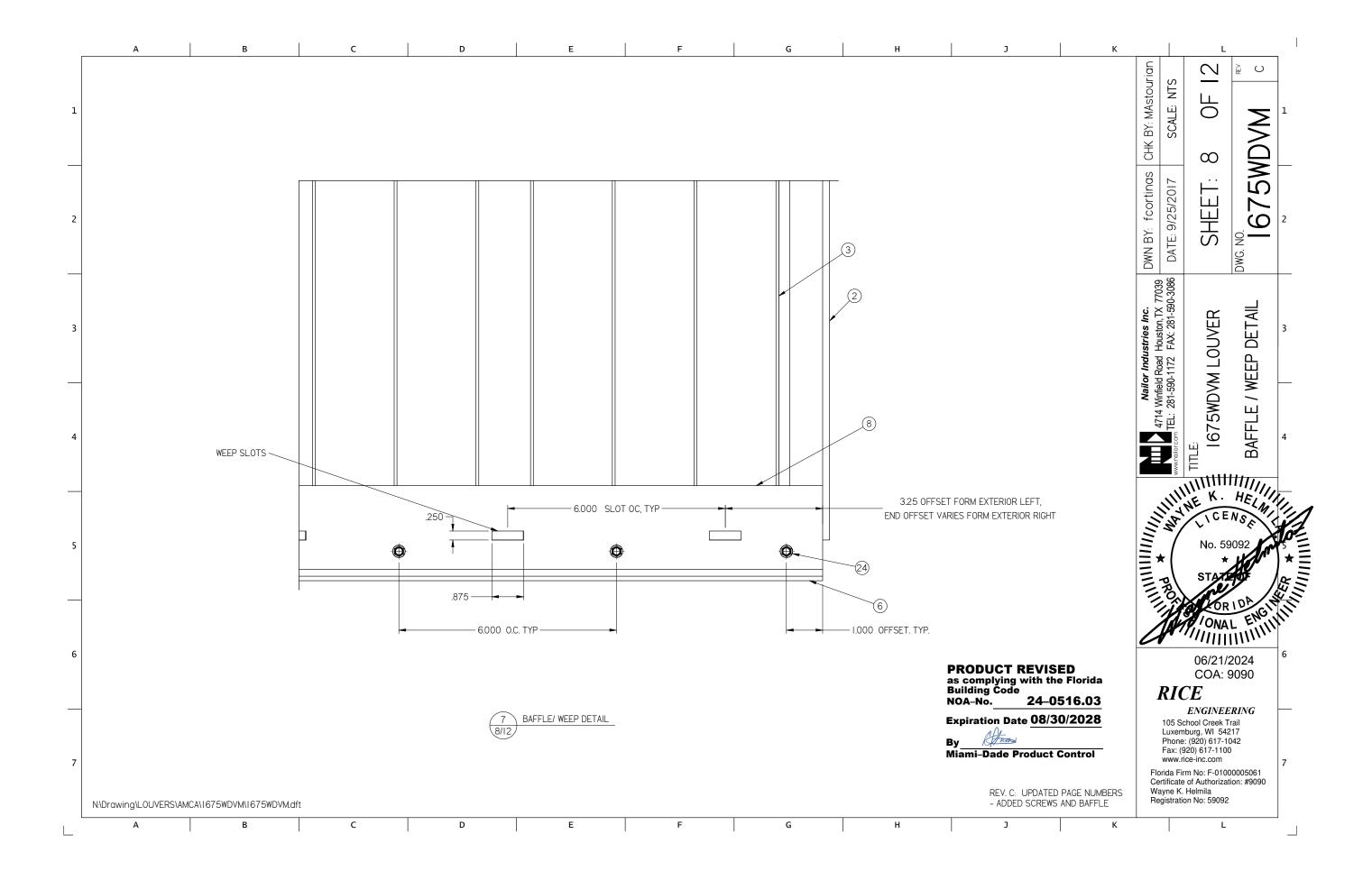


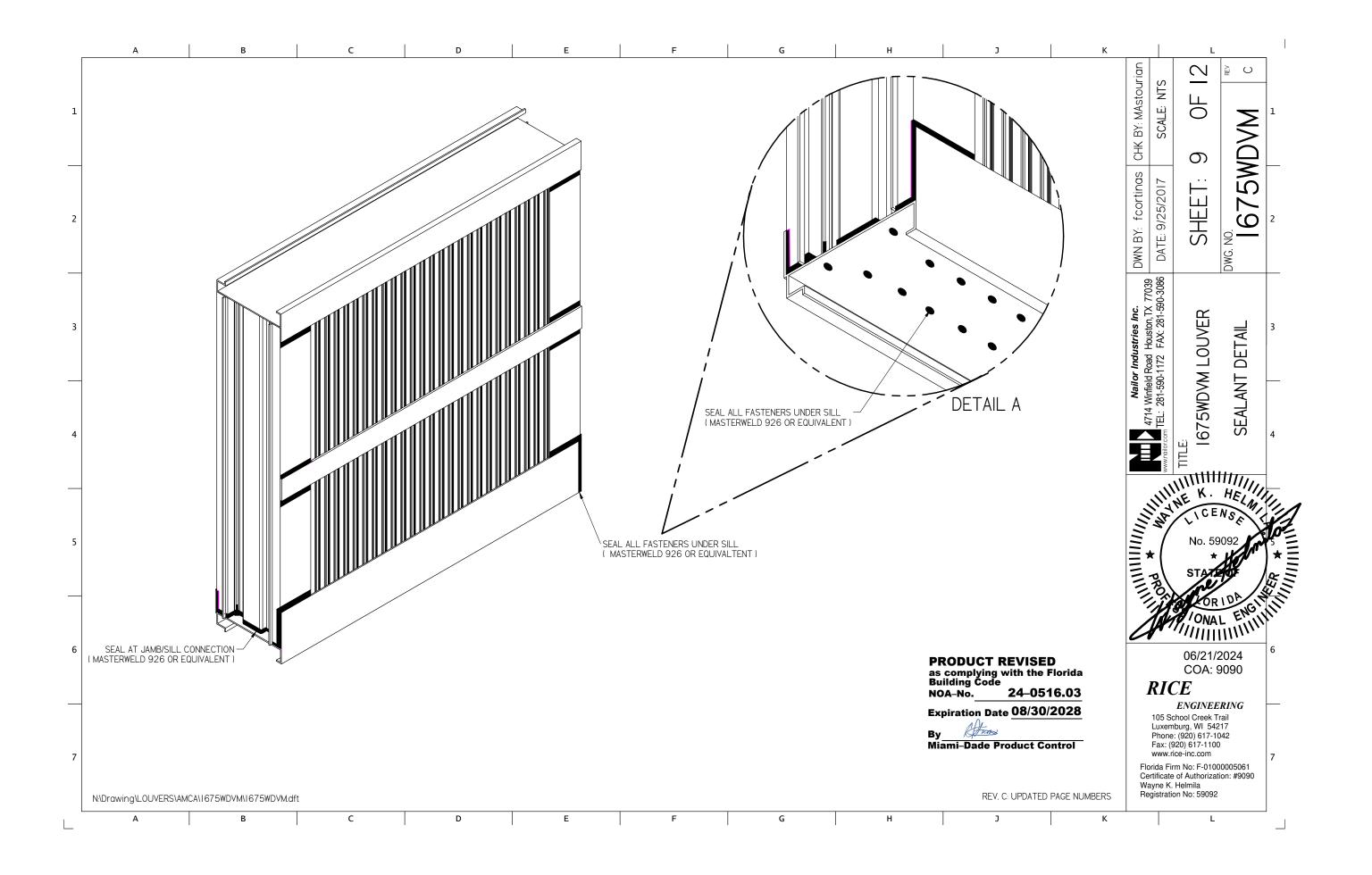


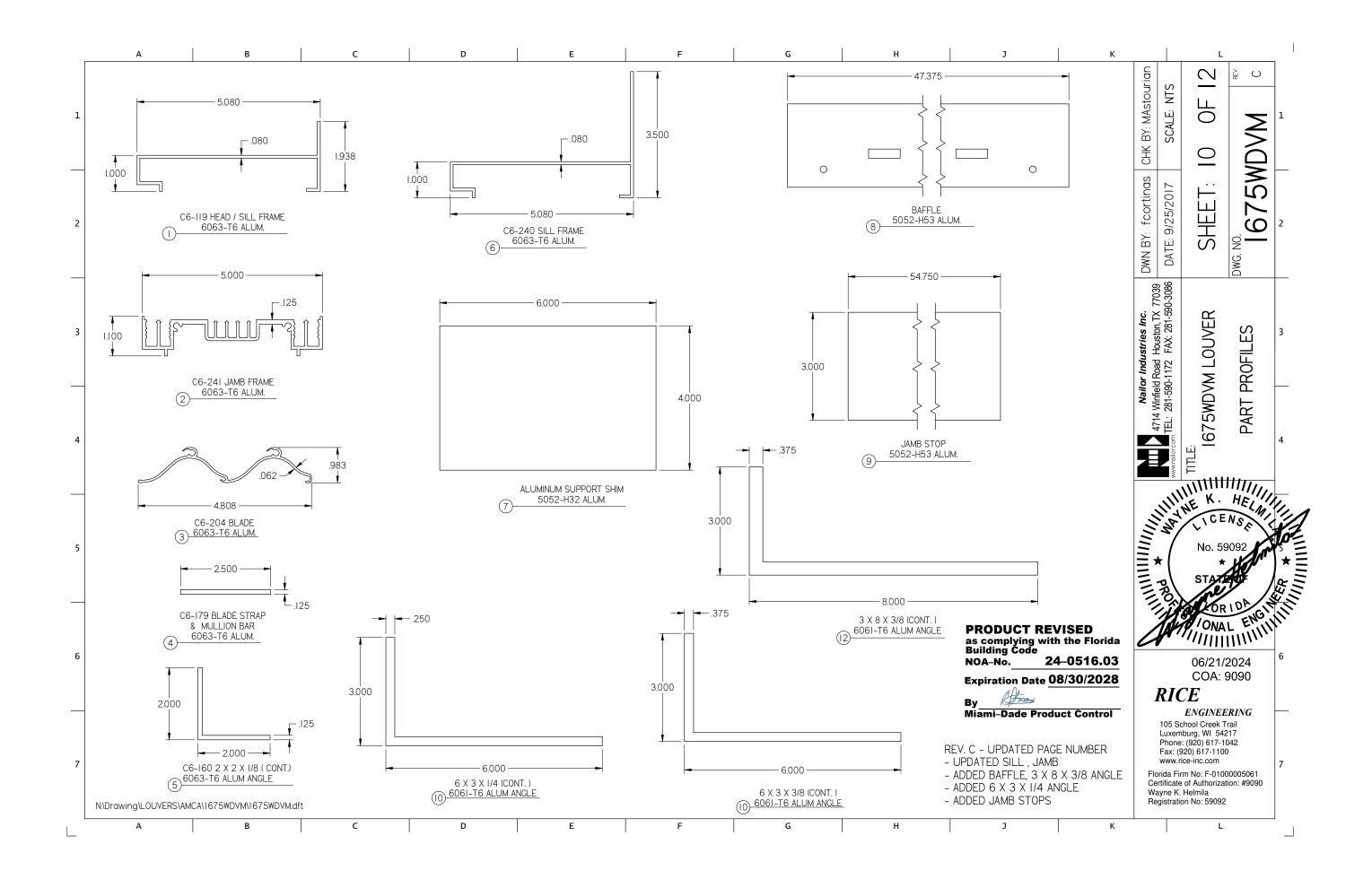












		A	В	С	D	E		F	G	Н					
					BILL OF N	MATERIAL									
	ITEM	INTERNAL ID	D	ESCRIPTION	MATE	ERIAL			NOTES						
1	1	C6-119	HEAD / SILL FRAME	<u> </u>	6063	3-T6	ONLY AT HEAD								
	2	C6-24I	JAMB FRAME		6063	3-T6									
	3	C6-204	BLADE		6063	3-T6	.75" CE	NTERS/SPACING							
	4	C6-I79	BLADE STRAP / ML	JLLION BAR	6063	3-T6	REQUIF	RED IF SECTION HEIGHT	IS 60.00" OR GREAT	ΓER					
	5	C6-160	2 X 2 X I/8 ANGLE	(CONT.)	6063	3-T6	AT HEA	AD AND SILL ONLY							
	6	C6-240	SILL		6063	3-T6	ONLY A	AT SILL							
	7	-	ALUMINIUM SUPPO	RT SHIM	5052	2-H32	BY OTH	HERS , OPTIONAL, AS N	IEEDED (1/4" THICK M.	AX. I					
2	8	-	BAFFLE		5052	2-H32	FRONT	DRAIN							
	9	-	JAMB STOP		5052	2-H32	SIZE VA	SIZE VARIES AS NEEDED							
	10	-	6 X3 X I/4 ANGLE (CONT.)	606	I-T6	USED I								
\dashv	П	-	6 X3 X 3/8 ANGLE	(CONT.)	606	I-T6	USED I	N SKINNY WALL APPLIC	CATION						
	12	-	3 X 8 X 3/8 ANGLE	(CONT)	606	I-T6	USED IN SKINNY WALL APPLICATION								
3	20	C6-189	SCREW,MACHINE , H	W, #10-24 X I I/2, ZP	300 SERIES,	SS COND CV	2 @ E	BLADE ENDS, AND BLAD	DE STRAP ONE PER BL	_ADE					
	21	C6-192	SCREW, MACHINE, M	1TL, HEX, #10 X 1 1/2, 410SS	300 SERIES,	SS COND CV	2 @ F	FRAME CORNERS							
	22	C6-193	SCREWM METAL, H	EX, #14 X 1 1/2, 410SS	300 SERIES,	SS COND CV	(@ HEA	D AND SILL@ 2-3/4"	O.C., AND @ BLADE ST	RAP 2 PER JAMBS					
-	24	C6-198	SCREW, MTL, HEX, #	#8 X 3/4, 410SS	300 SERIES,	SS COND CV	1								
	25	-	SEALANT & BACKE	R ROD	VARI	10US	BY OTH	HERS							
	26	C6-181	I/4 NYLON INSERT	LOCKNUT	STAIN	ILESS									
4	27	C6-186	I/4 COMM"L FLAT	WASHER	STAIN	ILESS									
	28	C6-187	1/4-20 X I HEX CAF	P SCREW 18-8 SS	STAIN	ILESS									

GENERAL NOTES:

I. 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.

C

- 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.

D

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. 24-0516.03 Expiration Date 08/30/2028

Hum

Miami-Dade Product Control

REV. C - UPDATED PAGE NO. ADDED ITEM #8 - BAFFLE ADDED ITEM # 9 - JAMB STOP ADDED ITEM # IO - 3 X 6 X I/4 ANGLE (CONT.) ADDED ITEM # II - 3 X 6 X 3/8 ANGLE (CONT.) ADDED ITEM # 12 - 8 X 3 X 3/8 ANGLE (CONT.)

105 School Creek Trail Luxemburg, WI 54217

Certificate of Authorization: #9090

N:\Drawing\LOUVERS\AMCA\1675\DVM\1675\DVM.dft

Ε

Wayne K. Helmila Registration No: 59092

Nailor Industries Inc. 4714 Winfield Road Houston, TX 77039 TEL: 281-590-1172 FAX: 281-590-3086 I675WDVM LOUVER BILL OF MATERIAL GENERAL NOTES

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BY: MAstour

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DWN BY: fcortinas

NTS

SCALE

9/25/2017

DATE:

SWDVM

9

DWG.

06/21/2024 COA: 9090 **RICE**

ENGINEERING

Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com Florida Firm No: F-01000005061

Total Marie Mari		Α		В	С		D)	E	F	G		Н			J		К		L	
X									TABLE I: HEAD & S	SILL ANCHORS								jä L		\mathcal{C}	U
X			C1 1		0,41	CI: W.I	1 14:		_	- , +		D: 1			F.,	. .		itoul	K		
X	Wood	Steel Stud	Steel	Concrete	CMU	Skinny Wal	_				- 65 keil		# Rqa		_	End		HAS H	凹	9	$\overline{\mathbf{z}}$
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MIAMI-DADE COUNTY PRODUCT CONTROL SECTION

11805 SW 26 Street, Room 208 Miami, Florida 33175-2474 T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/building

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

NOTICE OF ACCEPTANCE (NOA)
Nailor Industries Inc.
4714 Winfield Road
Houston, TX 77039

SCOPE: This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER-Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model 1605WDVM Aluminum Louver - L.M.I.

APPROVAL DOCUMENT: Drawing No. **1605WDVM**, titled "1605WDVM Louver", sheets 1 through 12 of 12, dated 10/12/2017, with revision B dated 05/28/2024, prepared by manufacturer, 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.

07/09/24

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. 23-0724.25 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.

MIAMI-DADE COUNTY
APPROVED

NOA No. 24-0516.06 Expiration Date: August 30, 2028 Approval Date: July 18, 2024

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER NOA # 18-0117.14

A. DRAWINGS

1. Drawing No. **1605WDVM**, titled "1605WDVM Louver", sheets 1 through 11 of 11, dated 10/12/17, prepared by the manufacturer, signed and sealed by Wayne K. Helmila, P.E.

B. TESTS

- 1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with installation diagram of Model 1605 WDVM Louver System, prepared by Intertek, Test Report No. **H4892.01-801-18-R4**, dated 09/25/17 and revised on 05/18/18, signed and sealed by Tyler Westerling, P.E.

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

C. CALCULATIONS

1. Louver structural calculations dated 11/03/17, prepared by Rice Engineering, signed and sealed by Wayne K. Helmila, P.E.

D. OUALITY 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 **FBC** 6th **Edition (2017)** issued by Rice Engineering, dated 04/16/18, signed and sealed by Wayne K. Helmila, P.E.
- 2. Statement letter of no financial interest issued by Rice Engineering, dated 04/16/18, signed and sealed by Wayne K. Helmila, P.E.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 24-0516.06 Expiration Date: August 30, 2028

Nailor Industries Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. EVIDENCE SUBMITTED UNDER NOA # 21-0630.12 AND NEW

A. DRAWINGS

Drawing No. **1605WDVM**, titled "1605WDVM Louver", sheets 1 through 12 of 12, dated 10/12/2017, with revision B dated 05/28/2024, prepared by manufacturer, signed and sealed by Wayne K. Helmila, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Louver calculations, prepared by Rice Engineering, dated 04/29/2024, signed and sealed by Wayne K. Helmila, P.E.

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS

- 1. Statement letter of code conformance to the 8th edition (2023) of the FBC, issued by Rice Engineering, dated 04/29/2024, signed and sealed by Wayne K. Helmila, P.E.
- 2. Statement letter of no financial interest, issued by Rice Engineering, dated 04/29/2024, signed and sealed by Wayne K. Helmila, P.E.

"Submitted under NOA # 21-0630.12"

3. Statement letter of code conformance to the 7th edition (2020) FBC, 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. 24-0516.06
Expiration Date: August 30, 2028

DRAWING INDEX...

- I. INDEX TO DRAWINGS AND NOTES
- 2. 1605WDVM LOUVER ELEVATION
- 3. 1605WDVM LOUVER HEAD AND SILL DETAIL
- 1605WDVM LOUVER SKINNY WALL APPLICATION HEAD AND SILL DETAIL
- . 1605WDVM LOUVER SKINNY WALL APPLICATION HEAD AND SILL DETAIL CONT.
- 1605WDVM LOUVER JAMB AND MULLION DETAIL
- 7. 1605WDVM LOUVER BLADE STRAP DETAIL
- 8. 1605WDVM LOUVER BAFFLE/ WEEP DETAIL
- 9. 1605WDVM LOUVER SEALANT DETAIL
- 10. 1605WDVM LOUVER PART PROFILES
- II. 1605WDVM LOUVER BILL OF MATERIAL AND GENERAL NOTES
- 12. 1605WDVM LOUVER FASTENER SCHEDULE

NOTES:

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

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

MVDWS09 fcortinas SHEET 10/12/2017 DWN BY: DATE PRIVATE & CONFIDENTIAL
DO NOI REPRODUCE WITHOUT THE PERMISSION OF

Nailor Industries Inc.
4714 Winfield Road Houston, TX 77039
TEI: 281-500-1172 FAX 281-500-3086 1605WDVM LOUVER LORIDA ENGINE MAY 2 8 2024

RICE

Fax: (920) 617-1100

Florida Firm No: F-01000005061

Certificate of Authorization: #9090

www.rice-inc.com

Wavne K. Helmila

ENGINEERING 105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042

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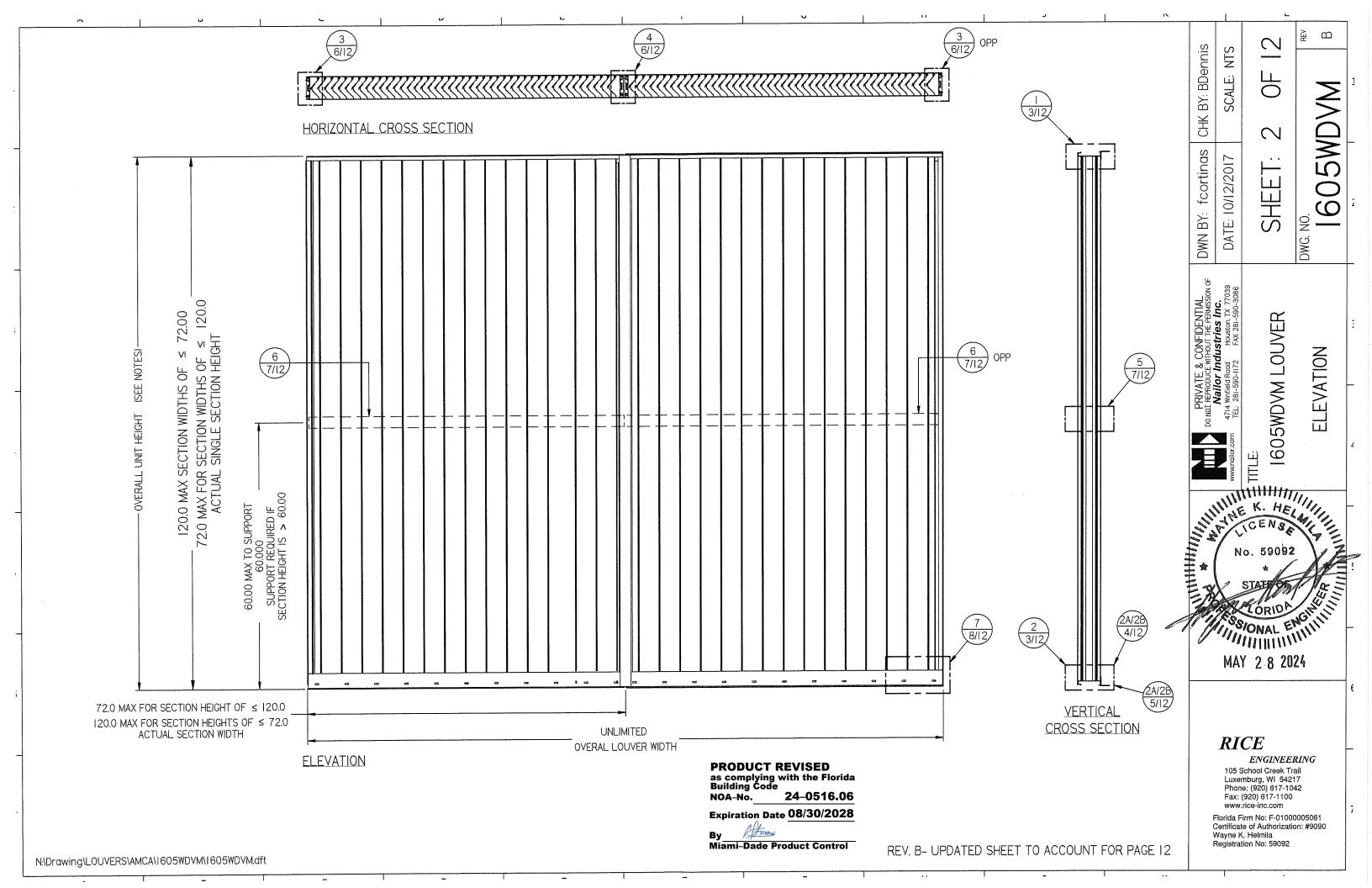
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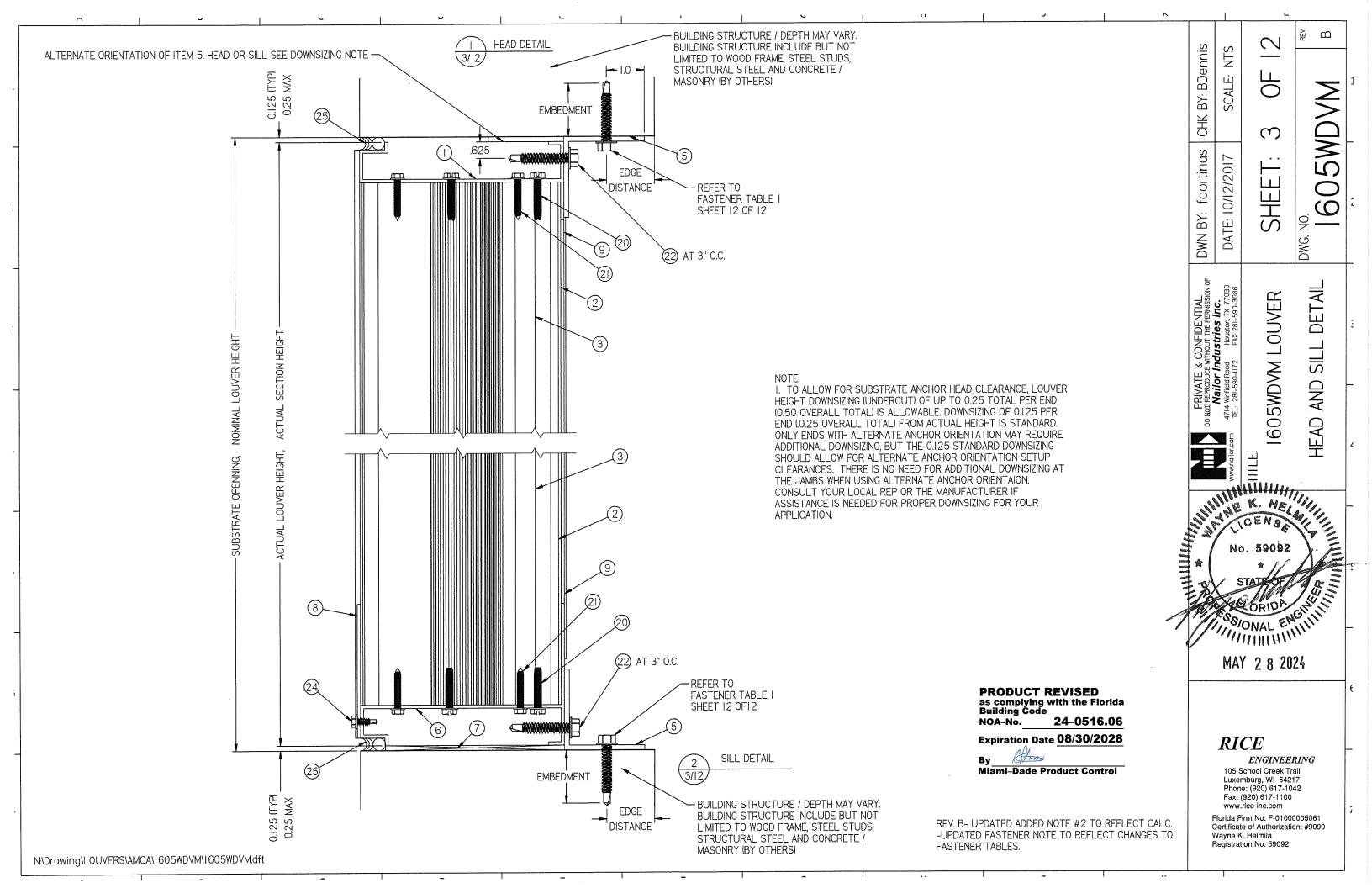
Expiration Date 08/30/2028

Huns Miami-Dade Product Control

REVISIONS: REV B: ADDED PAGE 5 AND RENUMBERED PAGES 6-12 - ADDED PAGE 5 SKINNY WALL APPLICATION HEAD AND SILL DETAIL CONT. -UPDATED ALL PAGES.

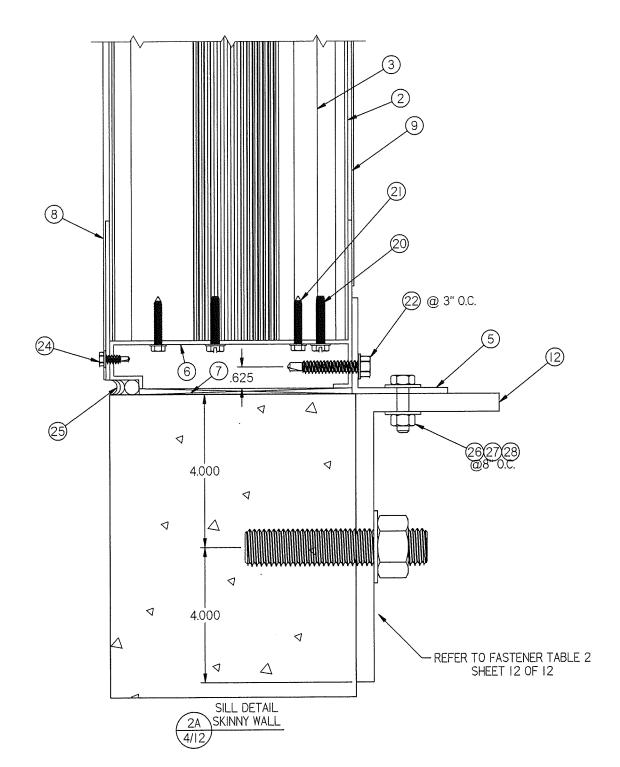
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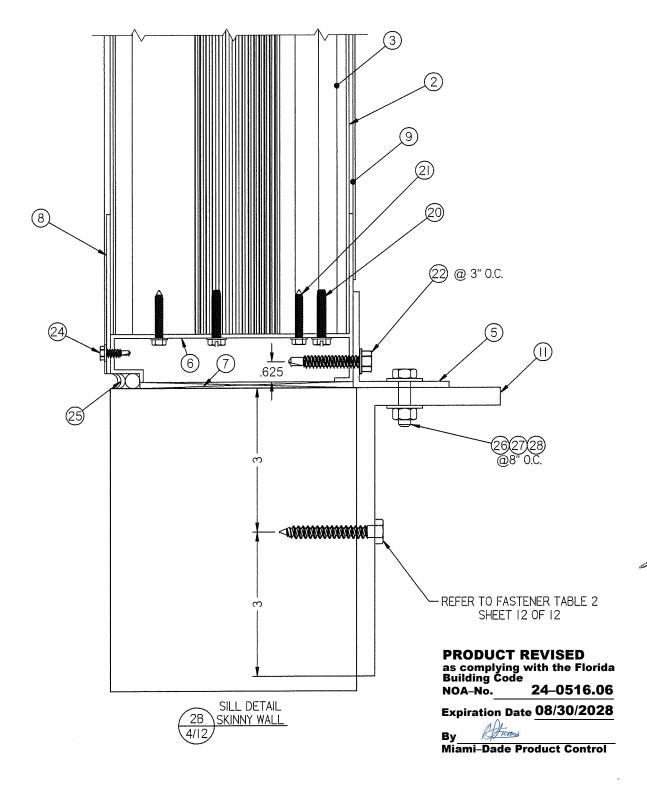




GROUT FILLED CMU (BY OTHERS)

WOOD / STEEL 16G.A. STEEL A-36 / CONCRETE (BY OTHERS)





REV. B - UPDATED FASTENER NOTE TO REFLECT CHANGES TO FASTENER TABLES - CMU DETAIL UPDATED PER CALCUTATIONS

CHK BY: BDennis 4 DWN BY: fcortings SHEET: DATE: 10/12/2017 PRIVATE & CONFIDENTIAL
DO NOT REPRODUCE WITHOUT THE PERMISSION OF

Nailor Industries Inc.
4714 Winfield Road Houston, TX 77039
TEL: 281-590-1172 FAX 281-590-3086 I605WDVM LOUVER SKINNY WALL APPLICATION HEAD AND SILL DETAIL No. 59092

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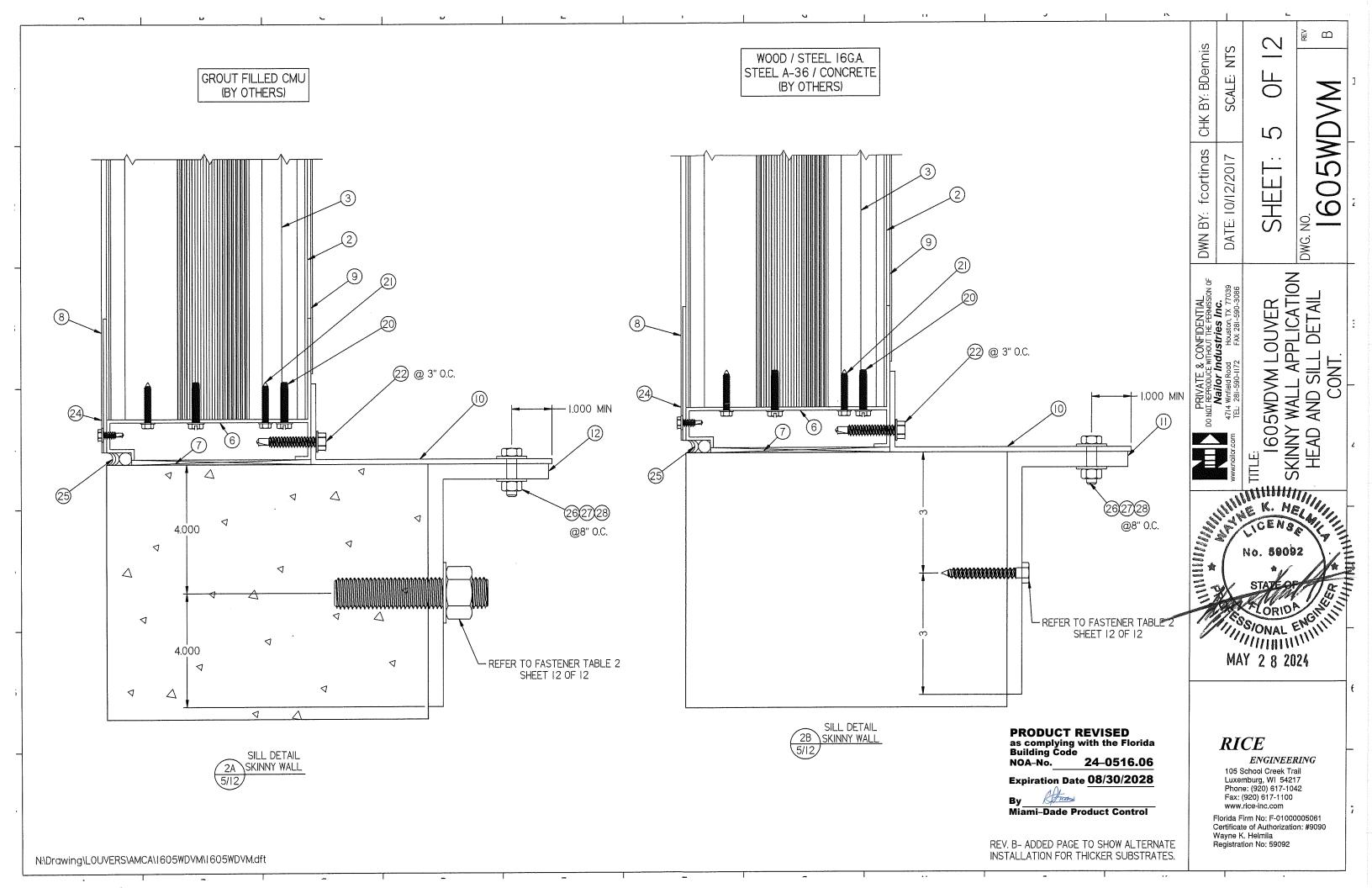
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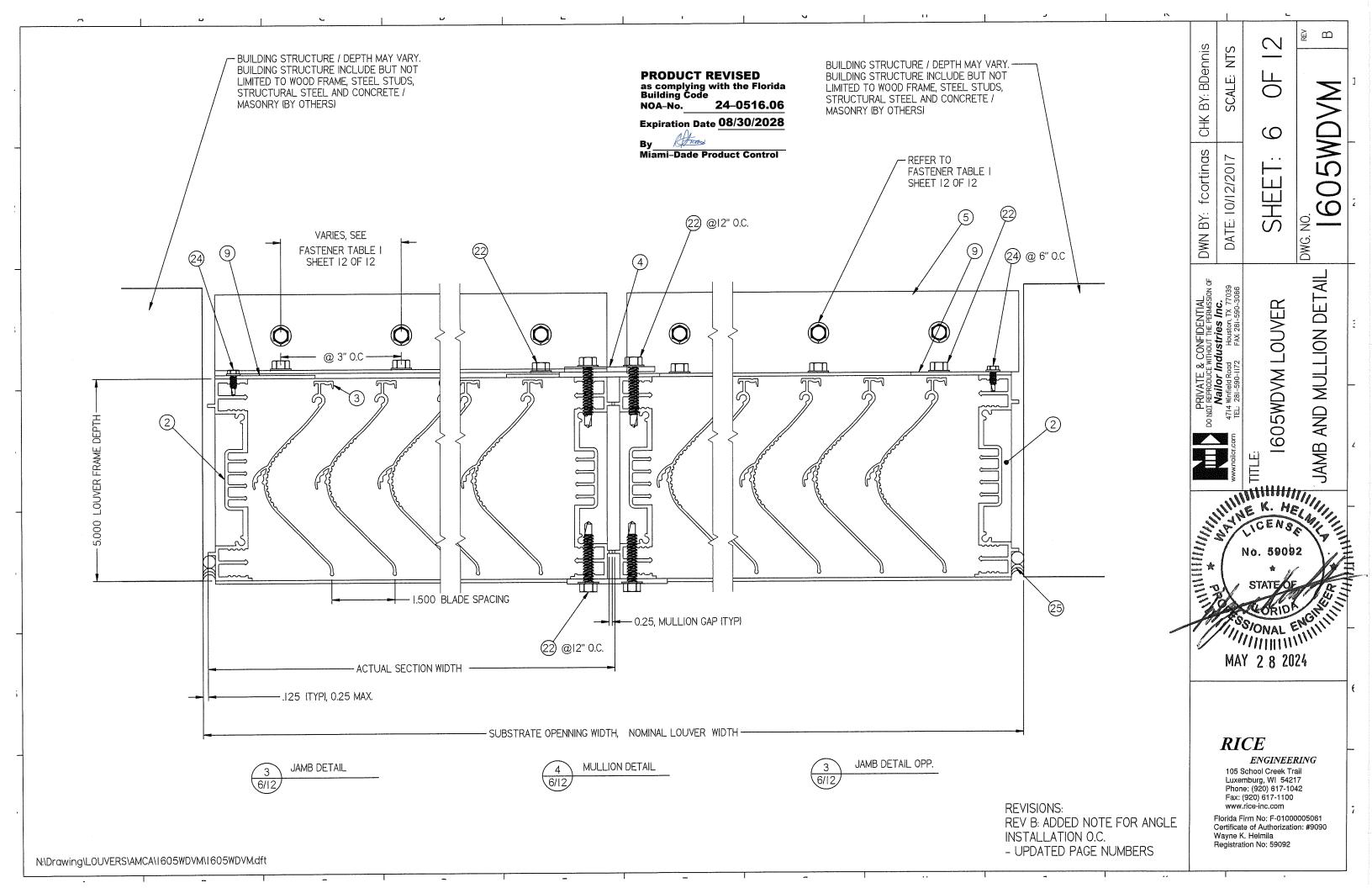
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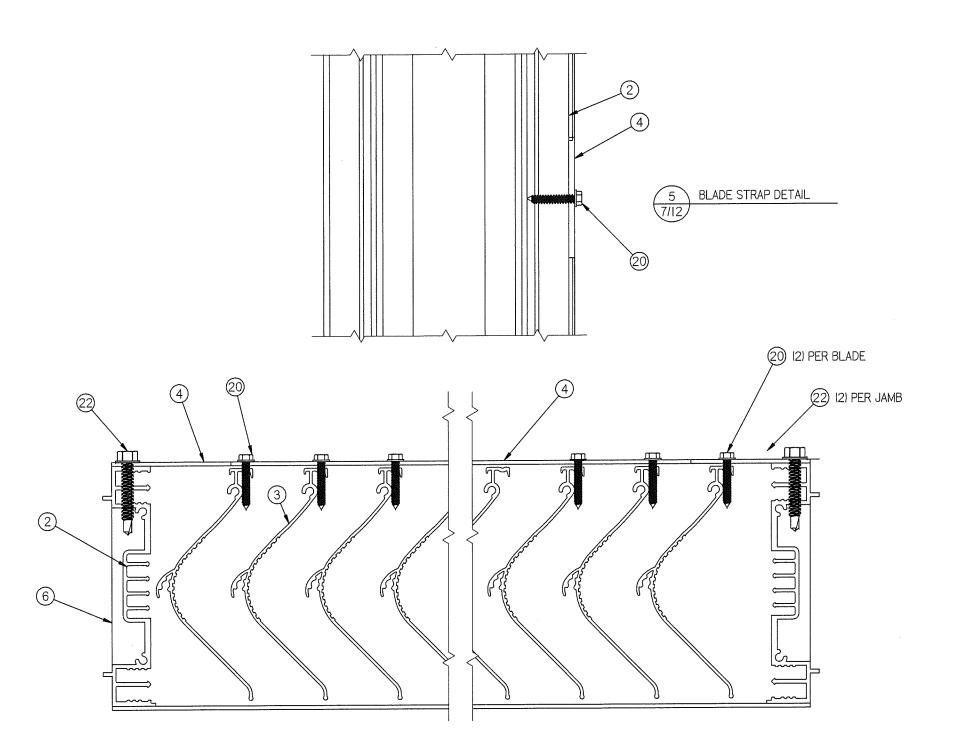
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105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100

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. 24-0516.06

Expiration Date 08/30/2028

By Miami-Dade Product Control

BLADE STRAP AT JAMB DETAIL BLADE STRAP AT JAMB DETAIL OPP.

REV. B- UPDATED PAGE NUMBERS

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605WDVM

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OF.

SHEET

605WDVM LOUVER

STRAP DETAIL

BLADE

CHK BY: BDennis

DWN BY: fcortings

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10/12/2017

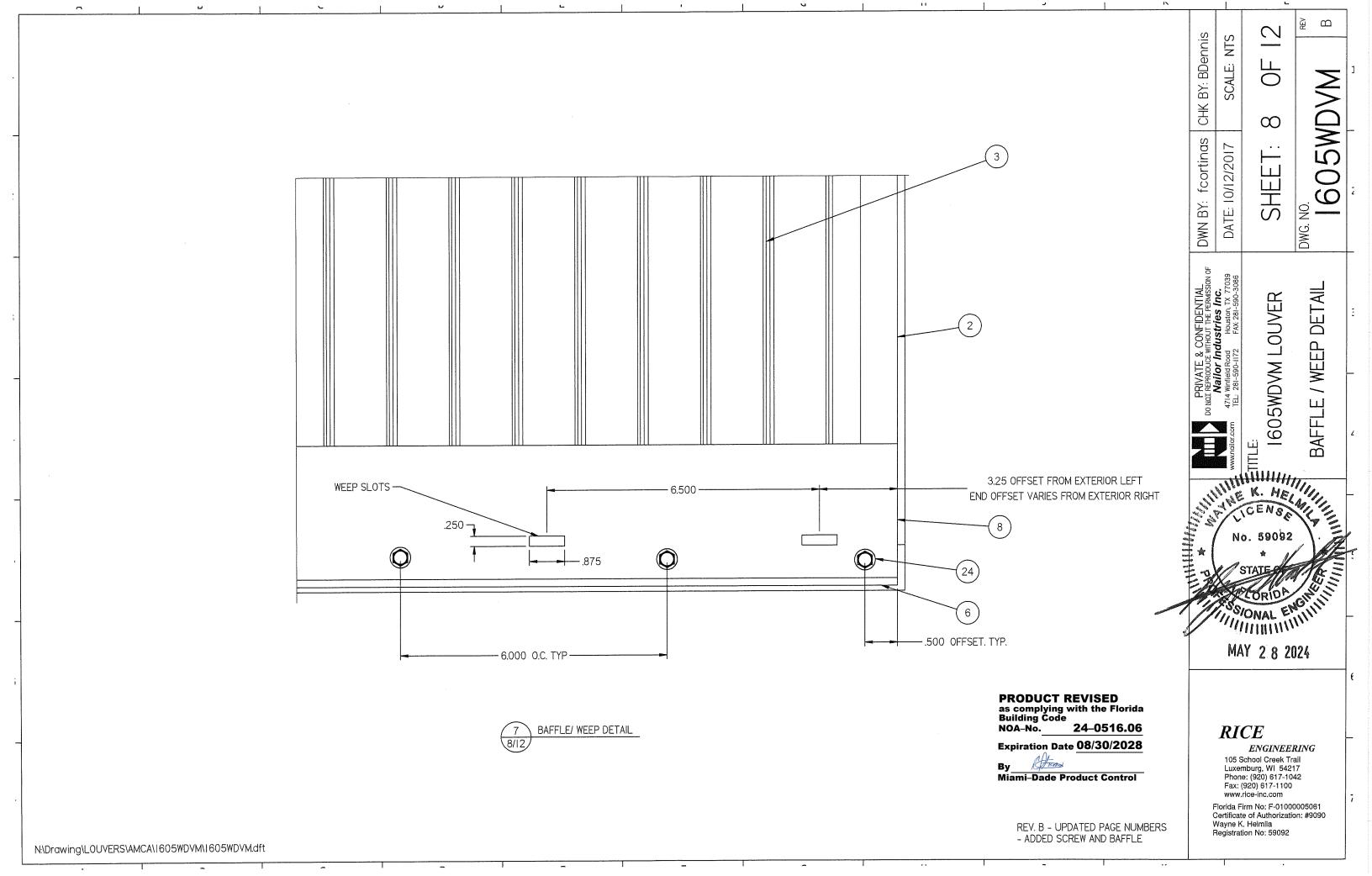
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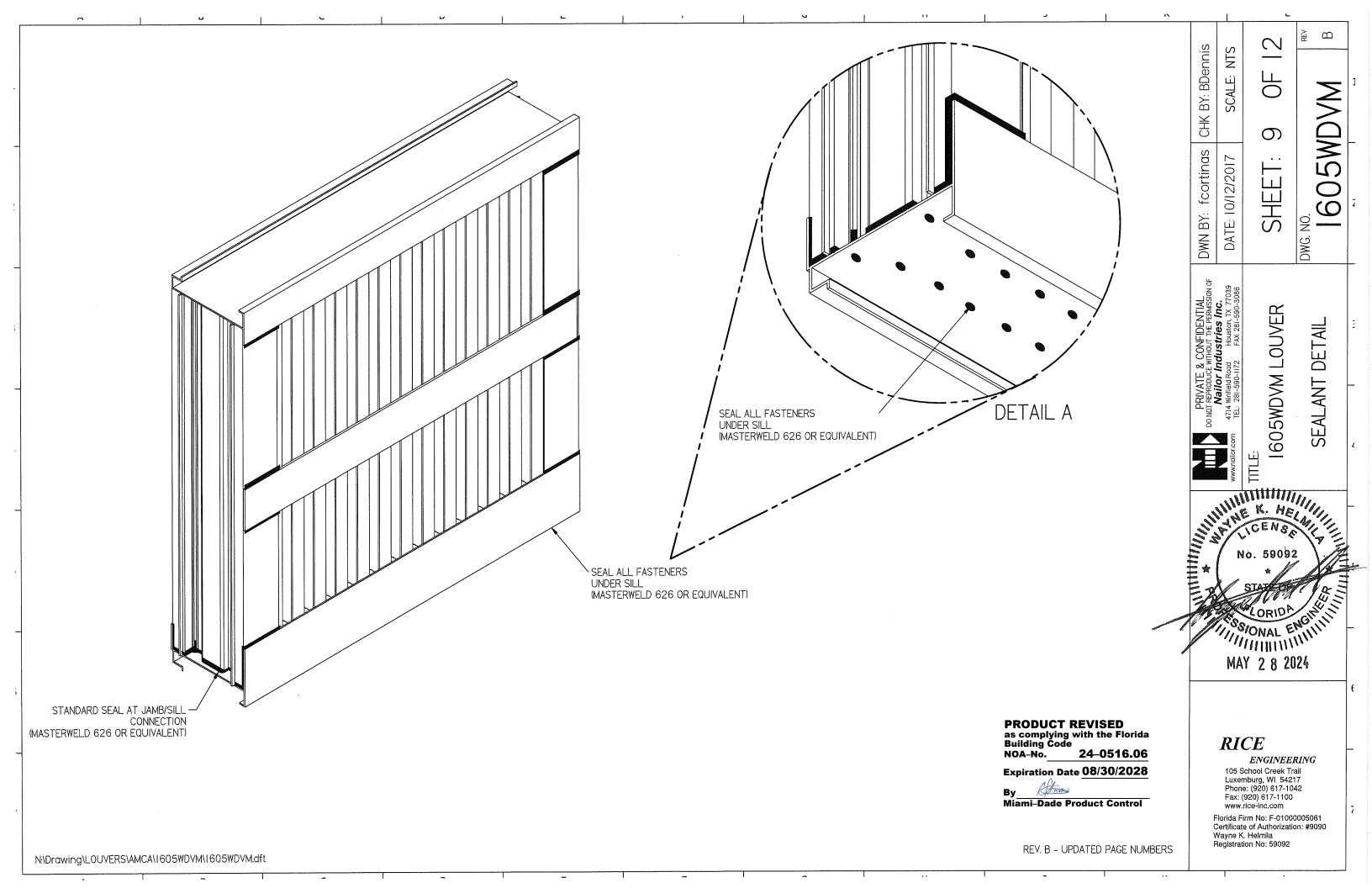
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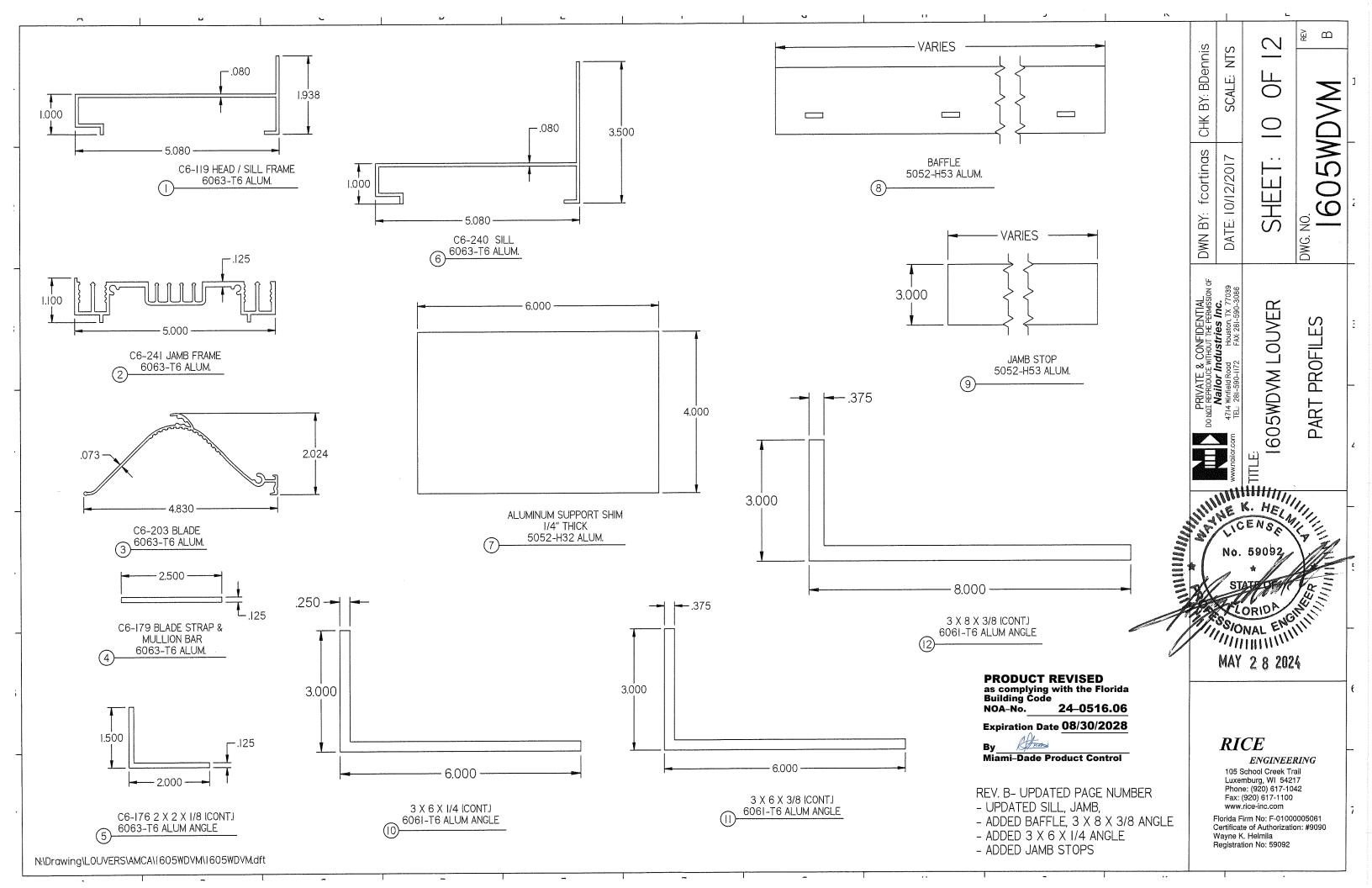
105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100 www.rice-inc.com

No. 59092

Florida Firm No: F-0100005061 Certificate of Authorization: #9090 Wayne K, Helmila Registration No: 59092







		BI	LL OF MATERIALS	
ITEM	INTERNAL ID	DESCRIPTION	MATERIAL	NOTES
	C6-119	HEAD / SILL FRAME	6063-T6	ONLY AT HEAD
2	C6-241	JAMB FRAME	6063-T6	
3	C6-203	BLADE	6063-T6	I.5" CENTERS/SPACING
4	C6-179	BLADE STRAP / MULLION BAR	6063-T6	REQUIRED IF SECTION HFIGHT IS 60.0"
5	C6-160	2 X 2 X I/8 ANGLE (CONT.)	6063-T6	AT HEAD AND SILL ONLY
6	C6-240	SILL	6063-T6	ONLY AT SILL
7		ALUMINIUM SUPPORT SHIM	5052-H32	BY OTHERS , OPTIONAL, AS NEEDED
8	-	BAFFLE	5052-H32	FRONT DRAIN
9	-	JAMB STOP	5052-H32	SIZE VARIES AS NEEDED
10		6 x 3 x I/4 ANGLE (CONT)	6061-T6	USED FOR SKINNY WALL APPLICATIONS
11	-	6 X 3 X 3/8 ANGLE (CONT.)	606I-T6	USED IN SKINNY WALL APPLICATION
12		3 X 8 X 3/8 ANGLE (CONT)	606I-T6	USED IN SKINNY WALL APPLICATION FOR CMU
20	C6-189	SCREW, MACHINE, HW, #10-24 X I 1/2,	300 SERIES, SS CON. CW	2 @ BLADE ENDS, AND BLADE STRAP ONE PER BLADE
21	C6-192	SCREW, MACHINE, HEX, #10 X 1/2,	300 SERIES, SS CON. CW	2 @ FRAME CORNERS
22	C6-193	SCREWM METAL, HEX, #14 X I I/2,	300 SERIES, SS CON. CW	@ HEAD AND SILL, AND 2 AT BLADE STRAP AT JAMBS
24	C6-198	SCREW, MTL, HEX, #8 X 3/4,	300 SERIES, SS CON. CW	@ SILL AT BAFFLE AND JAMB STOPS @ 6" O.C.
25		SEALANT & BACKER ROD	VARIOUS	BY OTHERS
26	C6-181	I/4 NYLON INSERT LOCKNUT	STAINLESS	
27	C6-186	I/4 COMM'L FLAT WASHER	STAINLESS	
28	C6-187	1/4-20 X I HEX CAP SCREW 18-8 SS	STAINLESS	

GENERAL NOTES:

- I. DUE TO PASSING TAS-100A, THE LOUVER IS DESIGNED TO PREVENT WIND DRIVEN RAIN FROM PENETRATING THE SPACE BEHIND THE LOUVER. AS SUCH, THE LOUVER MAY BE INSTALLED IN A LOCATION WHERE THE SPACE/ROOM BEHIND THE LOUVER IS NOT DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM OR THE ROOM WILL HOUSE NON-WATER RESISTANT/ PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES.
- 2. THE MAXIMUM SINGLE SECTION SIZE IS 120 WIDE BY 72 HIGH OR 72 WIDE BY 120 HIGH. THE MAXIMUM OVERALL/ ASSEMBLED SIZE IS UNLIMITED WIDE BY USE OF MULTIPLE SECTIONS. SECTIONS/ ASSEMBLIES MAY BE STACKED VERTICALLY PROVIDED THERE IS SUITIBLESTRUCTURAL SUPPORT (DESIGNED AND INSTALLED BY OTHERS) TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER HEAD AND / OR SILL MOUNTING ANGLES TO THE SUBSTRATE.
- 3. GENERAL LOUVER CONSTRUCTION: HEAD, SILL, JAMBS, AND BLADES ARE EXTRUDED ALUMINIUM. BLADE SPACING IS 1.5 INCHES. BLADES ARE SECURED WITH (2) #10 X | 1/2" MACHINE SCREWS PER BLADE END. HEAD IS SECURED TO THE JAMB WITH (2) #10 X | 1/2" MACHINE SCREWS PER HEAD END. SILL IS SECURED TO JAMBS WITH (2) #10 X | 1/2" MACHINE SCREWS PER SILL END. BLADE SUPPORT STRAP IS SECURED TO BLADES BY (2) SCREW PER BLADE AND SECURED TO JAMB BY (2) SCREWS AT STRAP END. BLADE SUPPORT STRAP IS REQUIRED IF ACTUAL LOUVER HEIGHT IS > 60 INCHES.
- 4. INSTALLER TO PROVIDE SEPARATION OF DISSIMILAR MATERIALS AS REQUIRED. SEE ALUMINUM DESIGN MANUAL (CHAPTER F) FOR DETAILS.
- 5. ALL ALUMINIUM, STAINLESS STEEL (SS), AND PLATED / COATED STEEL PARTS PROVIDED BY MANUFACTURER ARE INHERENTLY CORROSION RESISTANT OR HAVE A CORROSION RESISTANT COATING.
- 6. STEEL / STAINLESS, STEEL / ALUMINIUM PARTS MAY BE MADE OUT OF ALTERNATE ALLOY THAT HAS EQUAL OR GREATER YIELD STRENGTH. PART DIMENSIONS ARE MINIMUMS UNLESS DEFINED OTHER WISE.
- 7. THE INTERNAL ID# SHOWN ON PAGE 9 IS FOR FACTORY USE AND TRACKING PURPOSES ONLY AND MAY BE UPDATED AT ANY TIME. ANY UPDATES WILL NOT AI TER THE ITEM AS DESCRIBED HEREIN.

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PRODUCT REVISED as complying with the Florida Building Code 24-0516.06

Expiration Date 08/30/2028

Miami-Dade Product Control

REV B - UPDATED PAGE NO. ADDED ITEM# 8- BAFFLE ADDED ITEM# 9- JAMB STOP ADDED ITEM #10-6 X 3 XI/4 ANGLE (CONT) ADDED ITEM#II- 6 X 3 X 3/8 ANGLE (CONT) ADDED ITEM # 12 -8 X 3 X 3/8 ANGLE (CONT)

CHK BY: BDennis **605WDVM** fcortinas 10/12/201 SHE DWN BY: DWG. NO. DATE: PRIVATE & CONFIDENTIAL DO NOT REPRODUCE WITHOUT THE PERMISSION OF **Nailor Industries Inc.**4714 Winfield Road Houston, TX 77039 I605WDVM LOUVER BILL OF MATERIAL GENERAL NOTES 4714 TEL: SONAL ENGINE

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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

								O.C.			
d Steel	Concrete	CMU	Skinny Wall	Min.	Fastener Type	Diameter	# Rqd	Spacing	Edge	End	Embedment
				SG 0.42	LAG BOLT (300 SERIES SS - COND. CW - Fy = 65 ksi)	1/4"		3-1/4"	2"		2-1/16
				SG 0.42	LAG BOLT (300 SERIES SS - COND. CW - Fy = 65 ksi)	3/8"		3-3/4"	2"		2-1/16
					51	11.44		011	0"		3 THREADS BEYONI
				16 Ga.	Elco Bi-Flex Screws (300 Series 55, FT = 65 KSI)	1/4		3	2		SUBSTRATE
X				A-36	Elco Bi-Flex Screws (300 Series SS, FY = 65 ksi)	1/4"		9"	2"		1/4"
X				A-36	Elco Drill-Flex Drilling Screws (Cond. CW - Fy= 65ksi) Sealed w/ Liquid Prosoco	5/16"	1	12"	2"		1/4"
	X- Cracked 6" Deep			4 ksi	Hilti Kwik HUS-EZ SS 316	3/8	1	12"	4"	4"	2-1/2
	d Steel X X		X X	X X	SG 0.42 SG 0.42 I6 Ga. X A-36 X A-36	SG 0.42 LAG BOLT (300 SERIES SS - COND. CW - Fy = 65 ksi) SG 0.42 LAG BOLT (300 SERIES SS - COND. CW - Fy = 65 ksi) LAG BOLT (300 SERIES SS -	SG 0.42 LAG BOLT (300 SERIES SS - COND. CW - Fy = 65 ksi) I/4"	SG 0.42 LAG BOLT (300 SERIES SS - COND. CW - Fy = 65 ksi) I/4" I	Steel Concrete CMU Skinny Wall Min. Fastener Type Diameter # Rqd Spacing	Steel Concrete CMU Skinny Wall Min. Fastener Type Diameter # Rqd Spacing Edge	Steel Concrete CMU Skinny Wall Min. Fastener Type Diameter # Rqd Spacing Edge End

							TARLE O. CURRIL MICHORG		Section 1					ᆌ
		<u> </u>			T	T	TABLE 2: SKINNY WALL ANCHORS	T		O.C.				
- Woo	od Steel Stud	Steel	Concrete	CMU	Skinny Wall	l Min.	Fastener Type	Diameter	# Rqd	I	Edge	End	Embedment	
X					X	SG 0.42	LAG BOLT (300 SERIES SS - COND. CW - Fy = 65 ksi)	1/4"		3-3/4"	3"		2-3/16"	
X					X	SG 0.42	LAG BOLT (300 SERIES SS - COND. CW - Fy = 65 ksi)	3/8"	1	5"	3"		2-3/16"	IJĕ
1	Х				X	16 Ga.	Elco Bi-Flex Drilling Screws (300 Series SS, FY = 65 ksi)	1/4"		J "	3"		3 THREADS BEYOND SUBSTRATE	NHCIH NHCIH NHCIH
		X			X	A-36	Elco Bi-Flex Drilling Screws (300 Series SS, FY = 65 ksi)	1/4"	l	7"	3"		1/4"] 🗟
		X			X	A-36	Elco Drill-Flex Drilling Screws (Cond. CW - Fy= 65ksi) Sealed w/ Liquid Prosoco	5/16"		8"	3"		1/4"	_ ×
-			X- Cracked 6" Deep		Х	4 ksi	HILTI KWIK BOLT TZ2 SS 304	3/8"		8"	3"	3"	2-1/2"	PRIVATE
			X- Cracked 6" Deep		Х	4 ksi	HILTI KWIK BOLT TZ2 SS 304	1/2"		10"	3"	3"	3"	╢ස
				X-Grout Filled	ı X	2 ksi	HILTI HIT-Hy 270 Threaded Rod 316/304 SS	3/4"		8"	4"		6-3/4"	

NOTE I: CONRETE MASONRY ICMUI SHALL BE > THE FOLLOWING, 6" WIDE, CMU CONFORMINGTO ASTM C-90 FILLED WITH 4,747 KSI GROUT.

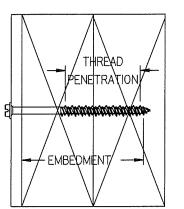
NOTE 2: CONRETE MASONRY (CMU) SHALL BE > THE FOLLOWING, 6" WIDE, GRADE N, TYPE II, LIGHT-WEIGHT / NORMAL-WEIGHT CMU CONFORMING TO ASTM C-90. MORTAR MUST BE TYPE N. CMU STRENGTH = 2000 psi

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

NOTE 6: STEEL STUDS TO BE 16 GA. FY= 33ksi MIN.



PRODUCT REVISED as complying with the Florida Building Code 24-0516.06

NOA-No.

Expiration Date 08/30/2028

Miami-Dade Product Control

REVISIONS: **REV B: UPDATED FASTENER** SCHEDULE (2 TABLES).

PRIVALE & CONFIDENTIAL REPRODUCE WITHOUT THE PERMISSION Nailor Industries Inc. Winfield Road Houston, TX 77039 605WDVM LOUVER

DATE: 10/12/2017

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SCHEDULE

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