

# 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/economy

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

## **NOTICE OF ACCEPTANCE (NOA)**

Construction Specialties, Inc. 49 Meeker Avenue Cranford, NJ 07016

#### 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 DC-4174 Aluminum Louver**

**APPROVAL DOCUMENT:** Drawing No. **RD-1140**, titled "DC-4174 Submittal Drawings", sheets 1 through 14 of 14, dated 12/03/2010, with revision 4 dated 04/12/2021, prepared by Construction Specialties, Inc., 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, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA **renews** and **revises NOA # 18-0117.07** and consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY
APPROVED

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NOA No. 20-1222.14 Expiration Date: June 16, 2026 Approval Date: August 5, 2021

Page 1

#### NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- 1. Evidence submitted under previous NOAs
- A. DRAWINGS "Submitted under NOA # 16-0418.10"
  - 1. Drawing No. **RD-1140**, titled "DC-4174 Submittal Drawings", sheets 1 through 14 of 14, dated 12/03/2010, with revision 2 dated 03/10/2016, prepared by Construction Specialties, Inc., signed and sealed by Wayne K. Helmila, P.E.
- B. TESTS "Submitted under NOA # 11-0218.04"
  - 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 DC-4174 Aluminum Louvers, prepared by Architectural Testing, Inc, Test Report No. **A4375.01-109-18**, dated 02/04/2011, signed and sealed by Michael D. Stremmel, P.E.

#### C. CALCULATIONS

1. Model DC-4174 Louver calculations prepared by Rice Engineering, dated 04/06/2016, signed and sealed by Wayne K. Helmila, P.E.

#### "Submitted under NOA # 11-0218.04"

2. Model DC-4174 Louver calculations prepared by Rice Engineering, dated 02/15/2011, signed and sealed by L. David Rice, 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 5<sup>th</sup> edition (2014) FBC issued Rice Engineering, dated 04/04/2016, signed and sealed by Wayne K. Helmila, P.E.
- 2. Statement letter of no financial interest issued by Rice Engineering, dated 04/04/2016, signed and sealed by Wayne K. Helmila, P.E.

#### "Submitted under NOA # 11-1212.07"

3. Statement letter of code conformance to 2007 and 2010 FBC issued Rice Engineering, dated 12/06/2011, signed and sealed by L. David Rice, P.E.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 20-1222.14 Expiration Date: June 16, 2026 Approval Date: August 5, 2021

E - 1

## NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### 2. Evidence submitted under NOA # 18-0117.07

#### A. DRAWINGS

1. Drawing No. **RD-1140**, titled "DC-4174 Submittal Drawings", sheets 1 through 14 of 14, dated 12/03/2010, with revision 3 dated 11/20/2017, prepared by Construction Specialties, Inc., signed and sealed by Wayne K. Helmila, P.E.

#### B. TESTS

1. None.

#### C. CALCULATIONS

Model DC-4174 Louver calculations prepared by Rice Engineering, dated 03/07/2018, 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 6<sup>th</sup> edition (2017) FBC issued Rice Engineering, dated 11/29/2017, signed and sealed by Wayne K. Helmila, P.E.
- 2. Statement letter of no financial interest issued by Rice Engineering, dated 01/20/2018, signed and sealed by Wayne K. Helmila, P.E.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 20-1222.14 Expiration Date: June 16, 2026

**Approval Date: August 5, 2021** 

### NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

#### 3. New evidence submitted

#### A. DRAWINGS

1. Drawing No. **RD-1140**, titled "DC-4174 Submittal Drawings", sheets 1 through 14 of 14, dated 12/03/2010, with revision 4 dated 04/12/2021, prepared by Construction Specialties, Inc., 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).

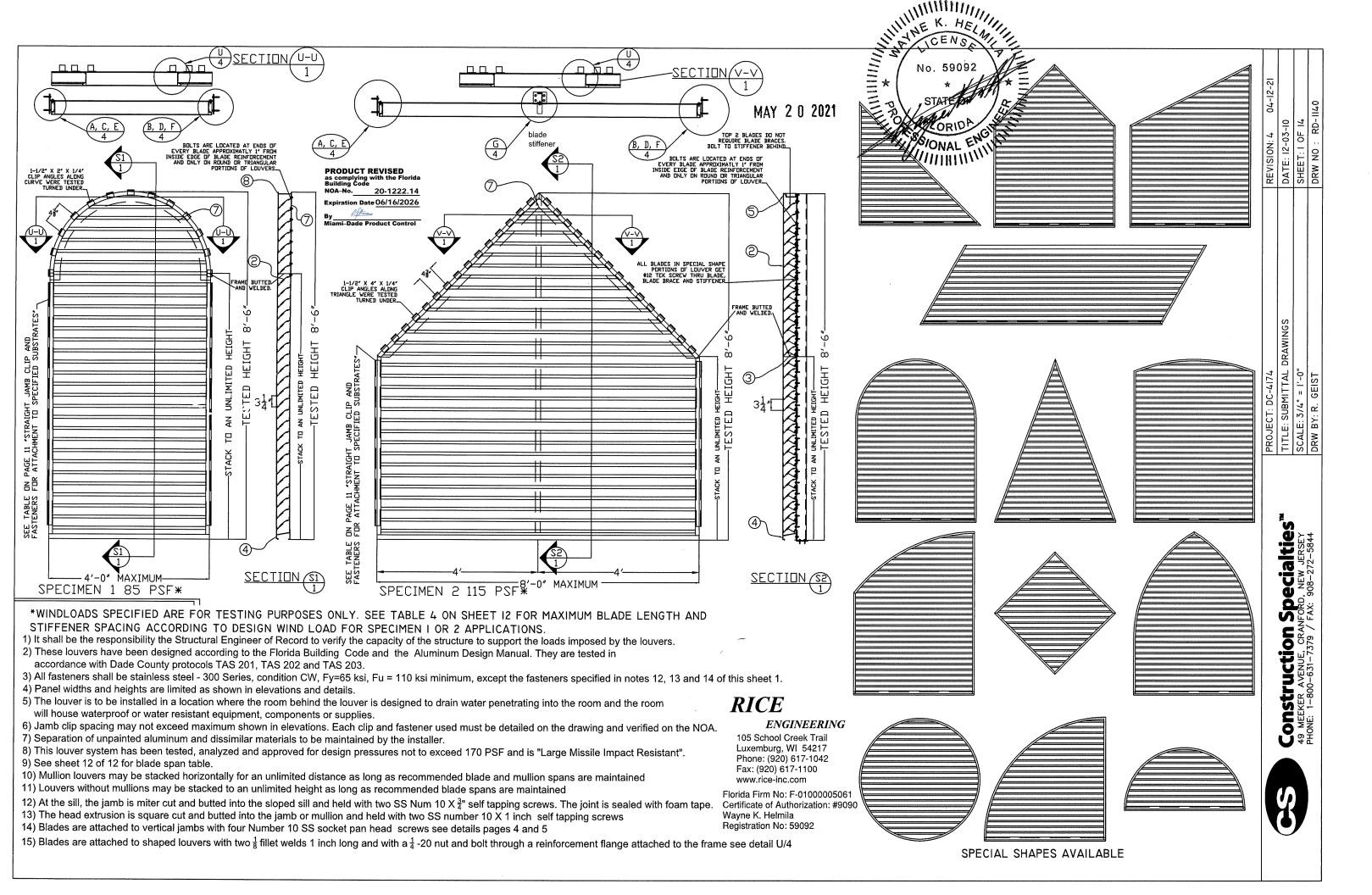
## E. MATERIAL CERTIFICATIONS

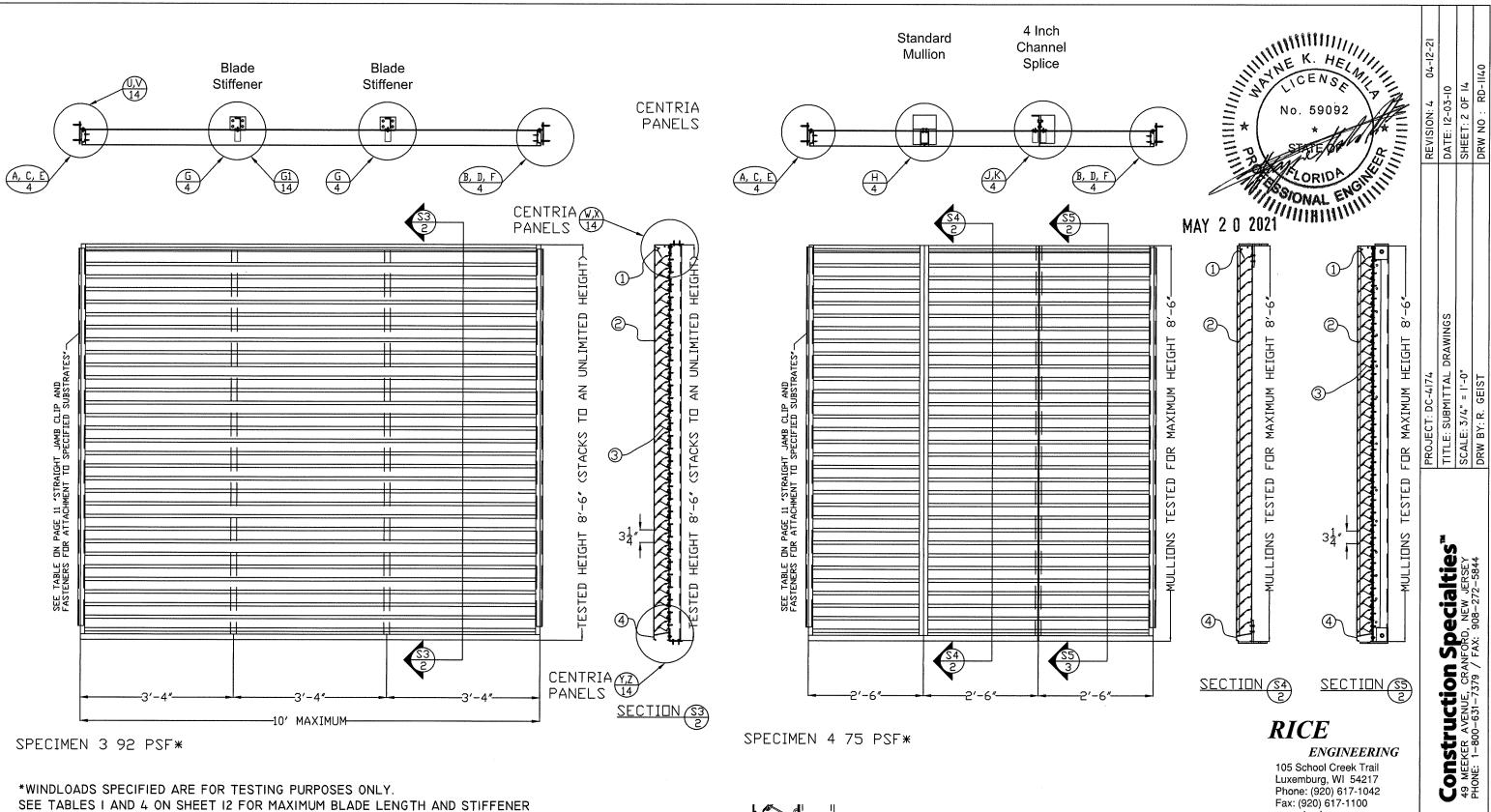
1. None.

#### F. STATEMENTS

- 1. Statement letter of code conformance to 7<sup>th</sup> edition (2020) of the FBC issued Rice Engineering, dated 11/04/2020, signed and sealed by Wayne K. Helmila, P.E.
- 2. Statement letter of no financial interest issued by Rice Engineering, dated 11/04/2020, signed and sealed by Wayne K. Helmila, P.E.

Approval Date: August 5, 2021





SEE TABLES I AND 4 ON SHEET I2 FOR MAXIMUM BLADE LENGTH AND STIFFENER SPACING ACCORDING TO DESIGN WINDLOAD FOR SPECIMEN 3 OR 4 APPLICATIONS.

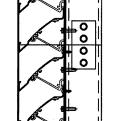
## **PRODUCT REVISED** as complying with the Florida Building Code

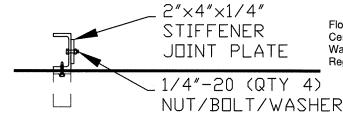
NOA-No. 20-1222.14

Expiration Date 06/16/2026

Miami-Dade Product Control

WHEN STACKING UNITS CONTAINING A BLADE STIFFENER, IT IS REQUIRED THAT THE 3" CHANNELS BE TIED TO EACH OTHER TO ACT AS ONE COLUMN. SEE DETAILS FOR STIFFENER JOINT PLATE.





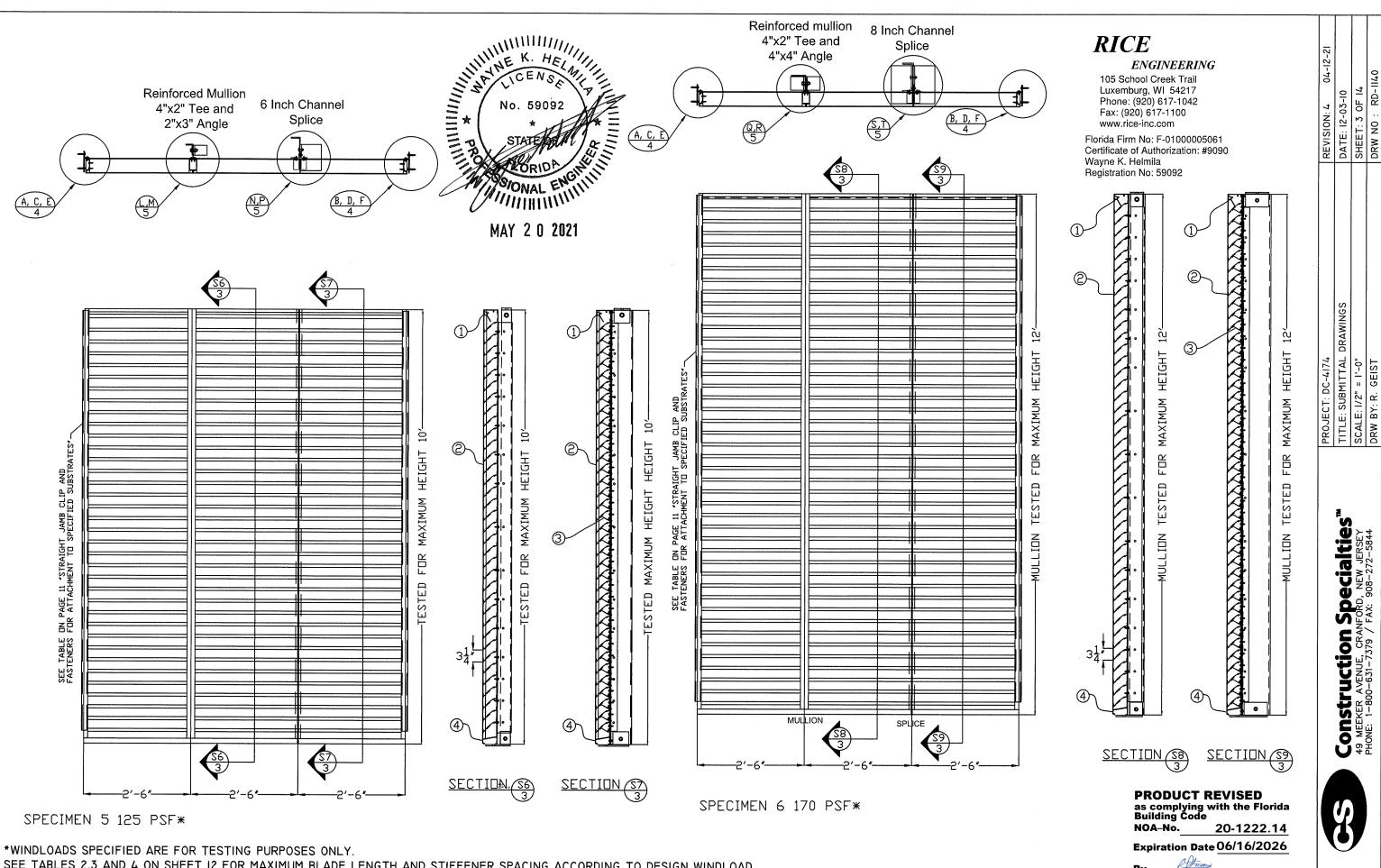
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Florida Firm No: F-01000005061 Certificate of Authorization: #9090 Wayne K. Helmila Registration No: 59092

www.rice-inc.com

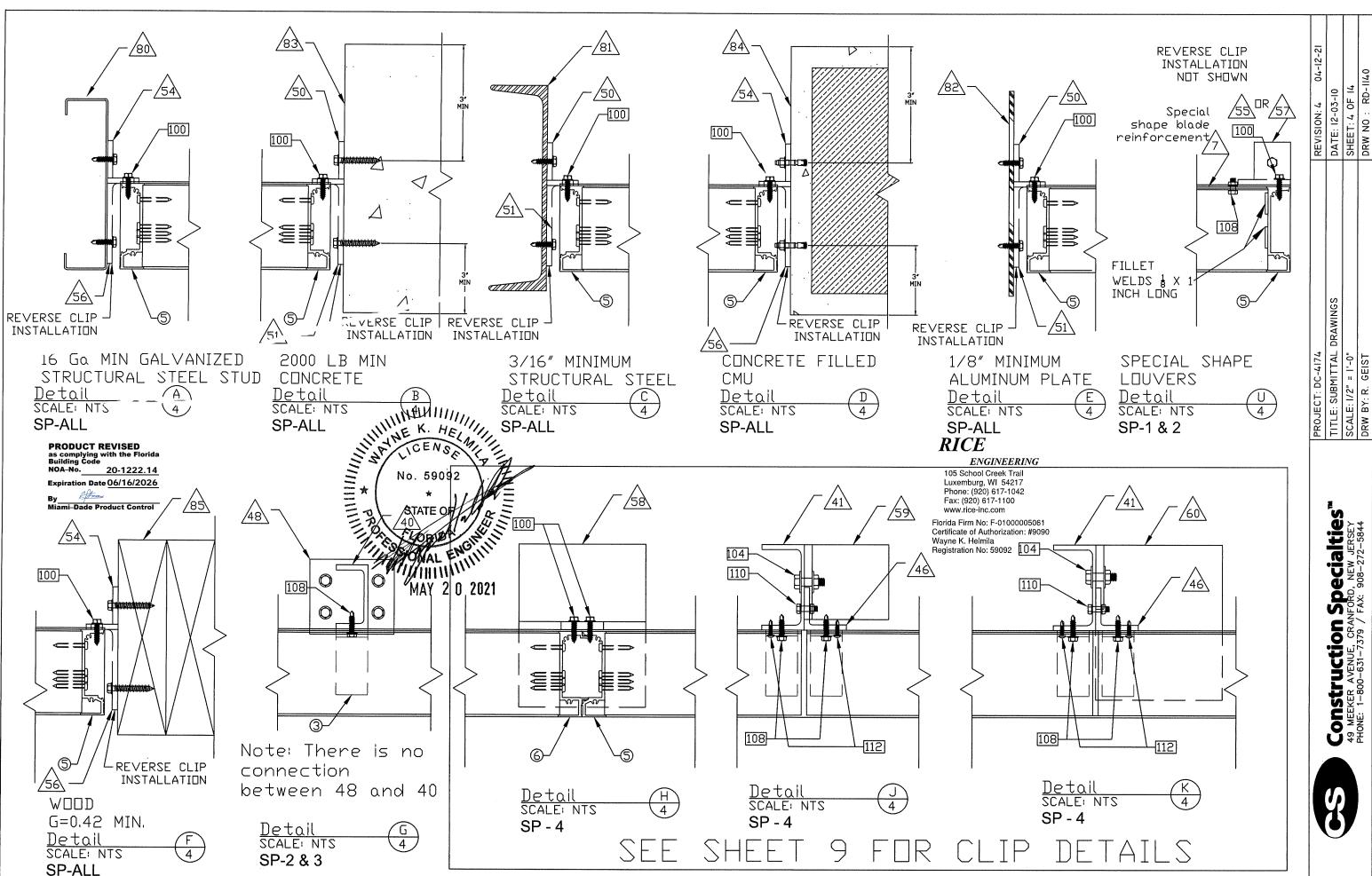


KER AVENUE, CR 1-800-631-7379

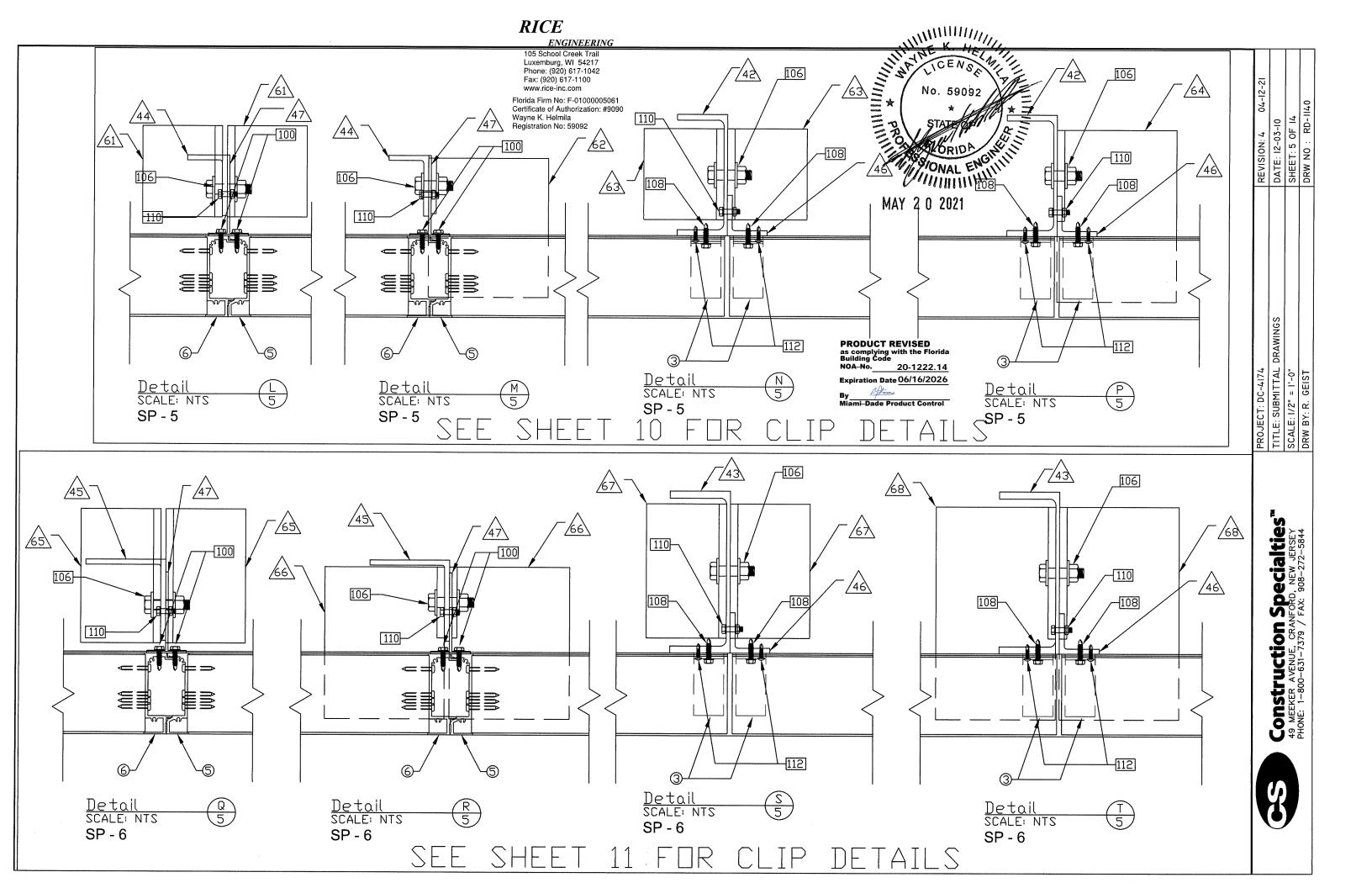


SEE TABLES 2,3 AND 4 ON SHEET 12 FOR MAXIMUM BLADE LENGTH AND STIFFENER SPACING ACCORDING TO DESIGN WINDLOAD FOR SPECIMEN 5 OR 6 APPLICATIONS.

Miami-Dade Product Control

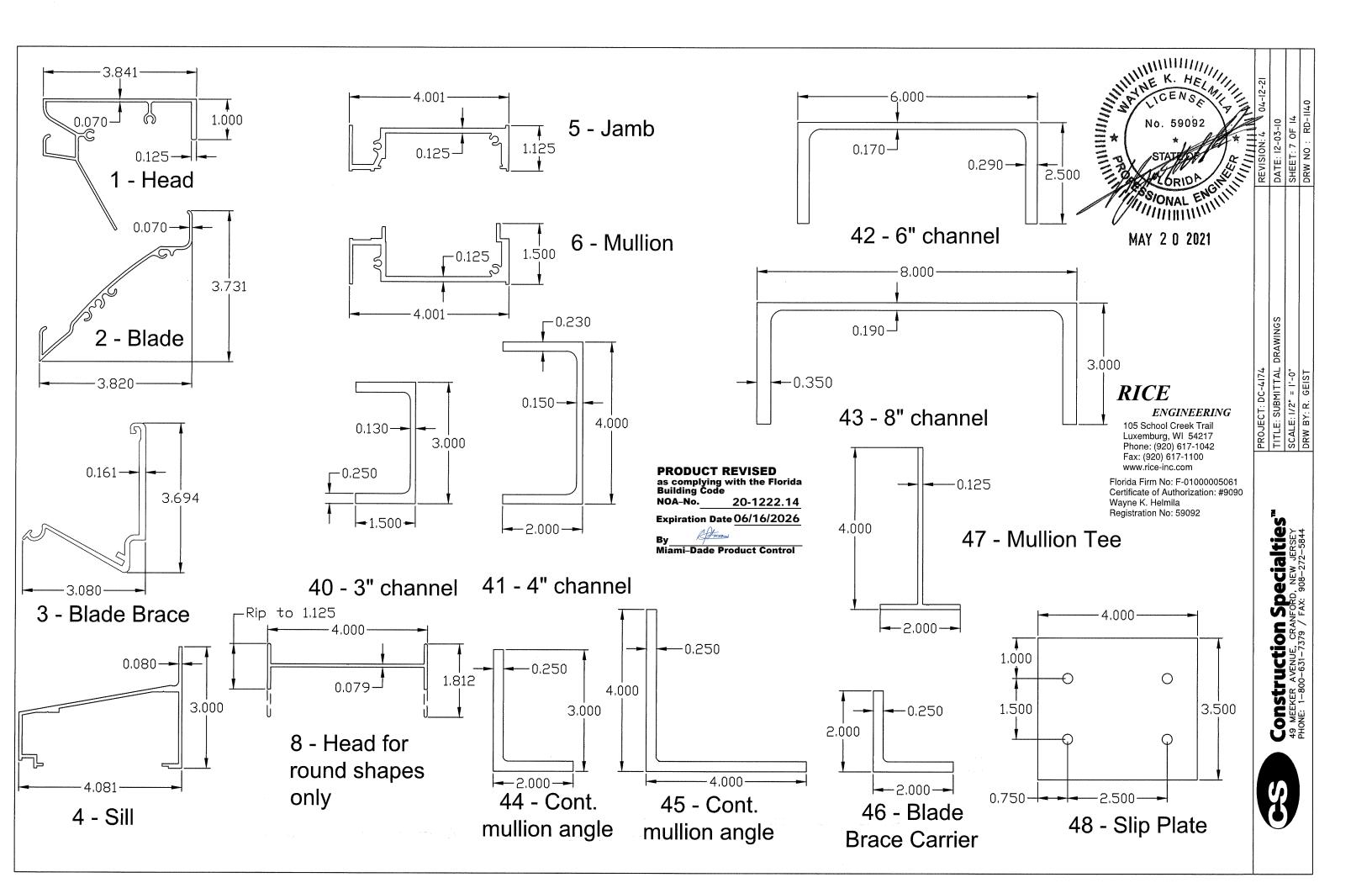


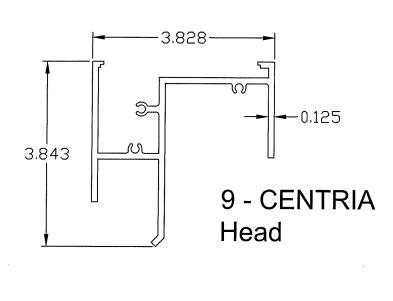
Construction Specialties" 49 MEEKER AVENUE, CRANFORD, NEW JERSEY PHONE: 1-800-631-7379 / FAX: 908-272-5844

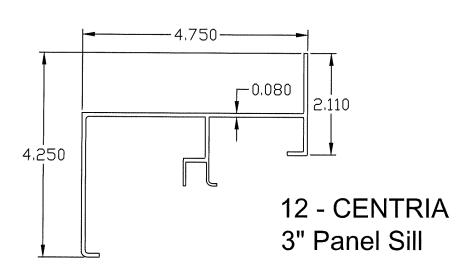


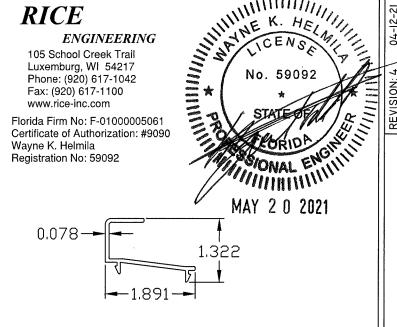
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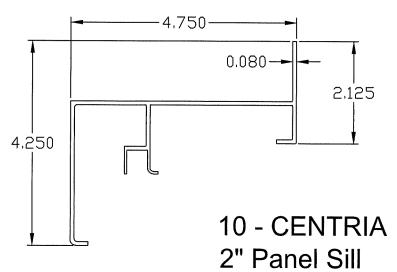
1 THEAD	6063-T6 ALUMINUM 0.070 THK	
12 BLADE - STANDARD	6063-T6 ALUMINUM 0.070 THK	
3 BLADE BRACE	6105-T5 ALUMINUM 0.121 THK	
4 SILL 5 STANDARD JAMB	6063-T5 ALUMINUM 0.080 THK	
	6063-T6 ALUMINUM 0125 THK 6063-T6 ALUMINUM 0.125 THK	-
6 STANDARD MULLION HALF 7 SHAPE BLADE REINFORCEMEN	T3"x0.080 TRIM TO MATCH SPECIAL SHAPE PROFILE 6063-T6 ALUMINUM	
<u> 18 Thead - For Round Shapes</u>	6063-T6 ALUMINUM	
9 CENTRIA HEAD	6063-T6 ALUMINUM 0.125 THK	
10 CENTRIA 2" SILL	6063-T6 ALUMINUM 0.080 THK	
11 CENTRIA JAMB 12 CENTRIA 3" SILI	6063-T6 ALUMINUM 0.125 THK 6063-T6 ALUMINUM 0.080 THK	
13 CENTRÍA 2" HEAD EXTENSION	6063-T6 ALUMINUM 0.125 THK AT BUILDING CONNECTION	
114   CENTRIA 3" HEAD EXTENSION	16063-T6 ALUMINUM 0.125 THK AT BUILDING CONNECTION	What had here
15   CENTRIA 2" JAMB EXTENSION	6063-T6 ALUMINUM	WITTEN WILL
16 CENTRÍA 3" JAMB EXTENSIÓN	[6063-T6 ALUMINUM 0.125 THK	TINK TOENSE WALLER
		No. 59092
40 3" AA CHANNEL	6061-T6 ALUMINUM	
41  4" AA CHANNEL	6061-T6 ALUMINUM	STATE
42 6" AA CHANNEL 43 8" AA CHANNEL	6061-T6 ALUMINUM	3X / S =
43 8" AA CHANNEL	6061-T6 ALUMINUM	STATE STATE OF THE
44 CONTINUOUS MULLION ANGLE	2"×3"×1/4" ANGLE 6061-T6 ALUMINUM	A Second Front Property of the Control of the Contr
45 CONTINUOUS MULLION ANGLE 46 BLADE BRACE CARRIER	4"×4"×1/4" ANGLE 6061-T6 ALUMINUM 2"×2"×1/4" ANGLE 6061-T6 ALUMINUM	//////////////////////////////////////
47 2"×4"×1/8" MULLION TEE	6063-T6 ALUMINUM	
48 3 1/2"×4"×1/4" SLIP PLATE	6063-T6 ALUMINUM	MAY 2 0 2021
50 JAMB CLIP	2"×1-1/2"×1/4"×4-3/4" LG 6061-T6 ALUMINUM	RICE
50 JAMB CLIP 51 JAMB CLIP 54 JAMB CLIP 55 JAMB CLIP 56 JAMB CLIP	4"x1-1/2"x1/4"x4-3/4" LG 6061-T6 ALUMINUM 2"x1-1/2"x1/4" CONTINUOUS ANGLE 6061-T6 ALUMINUM	ENGINEERING
55 JAMB CLIP	2"x1-1/2"x1/4"x2" LG 6061-T6 ALUMINUM	105 School Creek Trail
56 JAMB CLIP	4"x1-1/2"x1/4" CONTINUOUS ANGLE 6061-T6 ALUMINUM	Luxemburg, WI 54217
5/ JAMB CLIP	4"×1-1/2"×1/4"×2" LG 6061-T6 ALUMINUM	Phone: (920) 617-1042 ————————————————————————————————————
58 MULLION CLIP ANGLE	4" x 6" x 3/8" x 6" LG CLIP 6061-T6 ALUMINUM - 2 STANDARD MULLIONS	www.rice-inc.com
59   MULLION CLIP ANGLE   60   MULLION CLIP ANGLE	4" × 4" × 3/8" × 3 1/2" LG. CLIP 6061-T6 ALUMINUM - 4" CHANNEL SPLICE	Florida Firm No: F-01000005061
61 MULLION CLIP ANGLE	4" × 4" × 3/8" × 7 1/4" LG. COPED CLIP 6061-T6 ALUMINUM - 4" CHANNEL SPLICE ALT. 4" × 4" × 3/8" × 4 1/2" LG. CLIP 6061-T6 ALUMINUM - 2"×4"×1/8" TEE/2"×3"×1/4" ANGLE MULLION	Certificate of Authorization: #9090 Wayne K. Helmila
62 MULLION CLIP ANGLE	4" × 6" × 3/8" × 6 7/8" LG, COPED CLIP 6061-T6 ALUMINUM - 2"×4"×1/8" TEE/2"×3"×1/4" ANGLE MULTIN	
62 MULLION CLIP ANGLE 63 MULLION CLIP ANGLE 64 MULLION CLIP ANGLE	4" × 4" × 3/8" × 4 1/2" LG. CLIP 6061-T6 ALUMINUM - 6" CHANNEL SPLICE	
64 MULLION CLIP ANGLE	4" × 6" × 3/8" × 8 1/2" LG. COPED CLIP 6061-T6 ALUMINUM - 6" CHANNEL SPLICE ALT.	
65 MULLION CLIP ANGLE	4" × 4" × 3/8" × 6 5/8" LG. CLIP 6061-T6 ALUMINUM - 2"×4"×1/8" TEE/4"×4"×1/4" ANGLE MULLION	1 701 1 1
67 MULLION CLIP ANGLE	4" x 6" x 3/8" x 7 1/2" LG. COPED CLIP 6061-T6 ALUMINUM - 2"x4"x1/8" TEE/4"x4"x1/4" ANGLE MUL 4" x 4" x 3/8" x 6 5/8" LG. CLIP 6061-T6 ALUMINUM - 8" CHANNEL SPLICE	LIUN ALI,
68 MULLION CLIP ANGLE	4" × 6" × 3/8" × 10 1/2" LG. COPED CLIP 6061-T6 ALUMINUM - 8" CHANNEL SPLICE ALT.	
80 STEEL STUD 81 STRUCTURAL STEEL 82 ALUMINUM PLATE	16 GA MINIMUM GALVANIZED STRUCTURAL STEEL STUD	
<u>81   STRUCTURAL STEEL</u>   82   ALUMINUM PLATE	3/16" THK MIN. 1/8" MINIMUM	
83 CONCRETE	2000 LB MIN. CONCRETE	
83 CONCRETE 84 CMU 85 WOOD	GROUT FILLED CONCRETE MASONRY UNIT	
85 WOOD	G = 0.42 MINIMUM	PRODUCT REVISED
	TUDEAR ERRAING OF SELECTION OF	as complying with the FloridaBuilding Code
100  1/4-14 SCREW	THREAD FORMING OR SELF DRILL 300 SERIES S.S. CONDITION CW Fy=65 KSI, Fu-110KSI MIN. FOR ALUM. AND 16 GA STEEL STUD, SPACING DETERMINED BY CLIP LAYOUT	NOA-No. 20-1222.14
104 3/8" NUT AND BOLT	3/8 - 13 S.S. ALLOY GROUP 1, 2, OR 3 CONDITION CW WITH LOCK WASHER	Expiration Date 06/16/2026 ——
106 1/2" NUT AND BOLT	1/2 - 13 S.S. ALLOY GROUP 1, 2, OR 3 CONDITION CW WITH LOCK WASHER	By Africa
108 1/4-20 × 1" SCREW	STAINLESS STEEL THREAD CUTTING F POINT PILOT HOLE .226 - No 1 DRILL SPACED 3 1/4 INCHES	Miami-Dade Product Control
110 1/4-20 BOLT, NUT & WASHER	1/4-20 SS NUT. BOLT AND LOCKWASHER SPACING 3 1/2 INCHES	
112 H12 SCREW	#12-24 x 1 1/2" S.S. TEK SCREW ALLOY GROUP 1, 2, OR 3 spacing 3-1/4 INCHES	

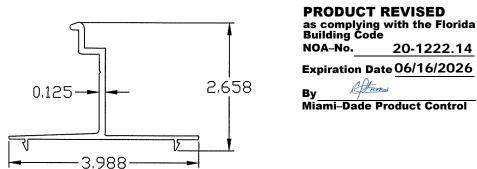






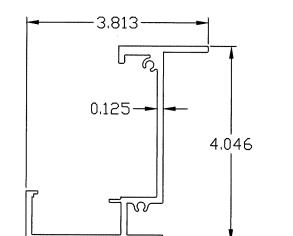


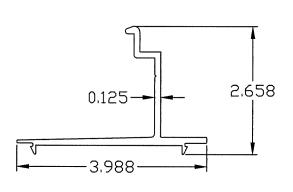


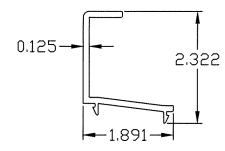


15 - 2" CENTRIA Panel Jamb Extension

20-1222.14







11- CENTRIA Jamb

14 CENTRIA Head Extension 3" panel

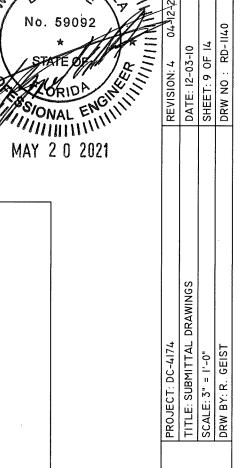
13 CENTRIA Head

Extension 2" panel

16 - 3" CENTRIA Panel Jamb Extension

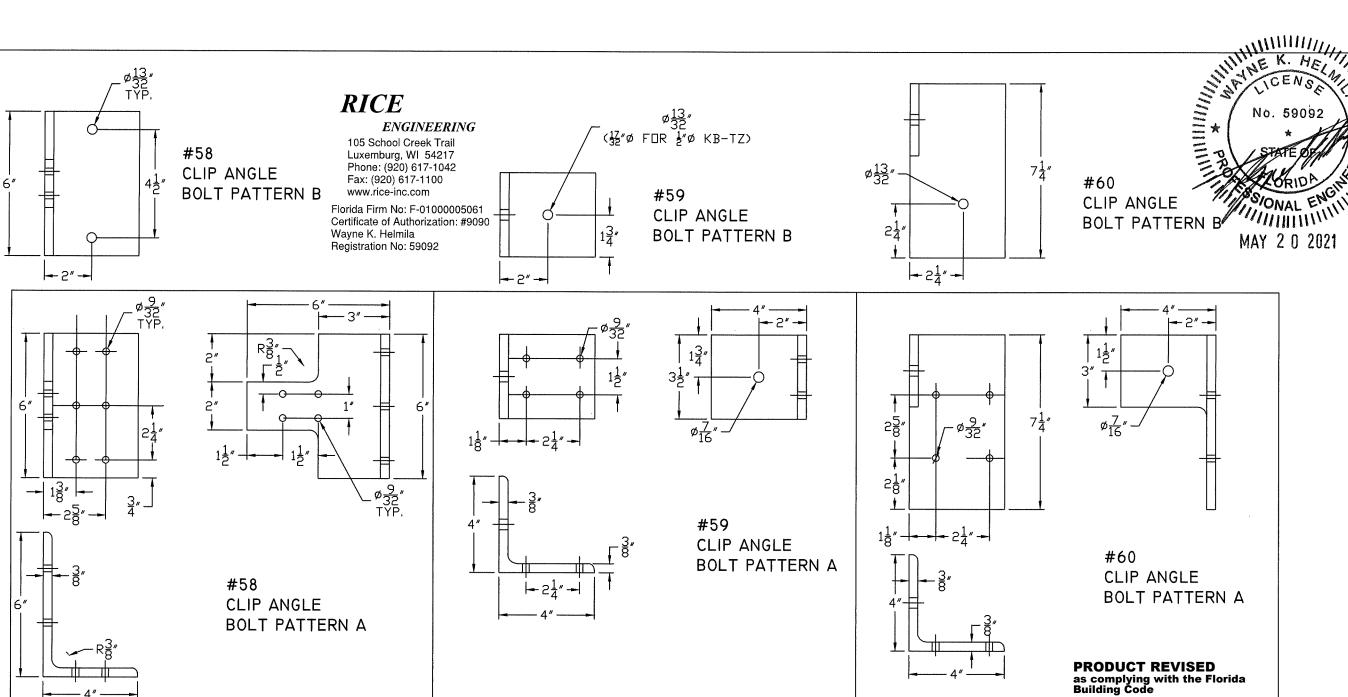
Construction Specialties"
49 MEEKER AVENUE, CRANFORD, NEW JERSEY
PHONE: 1-800-631-7379 / FAX: 908-272-5844

PROJECT: DC-4174
TITLE: SUBMITTAL DRAWINGS
SCALE: 1/2" = 1'-0"
DRW BY: R. GEIST





8



Expiration Date <u>06/16/2026</u>

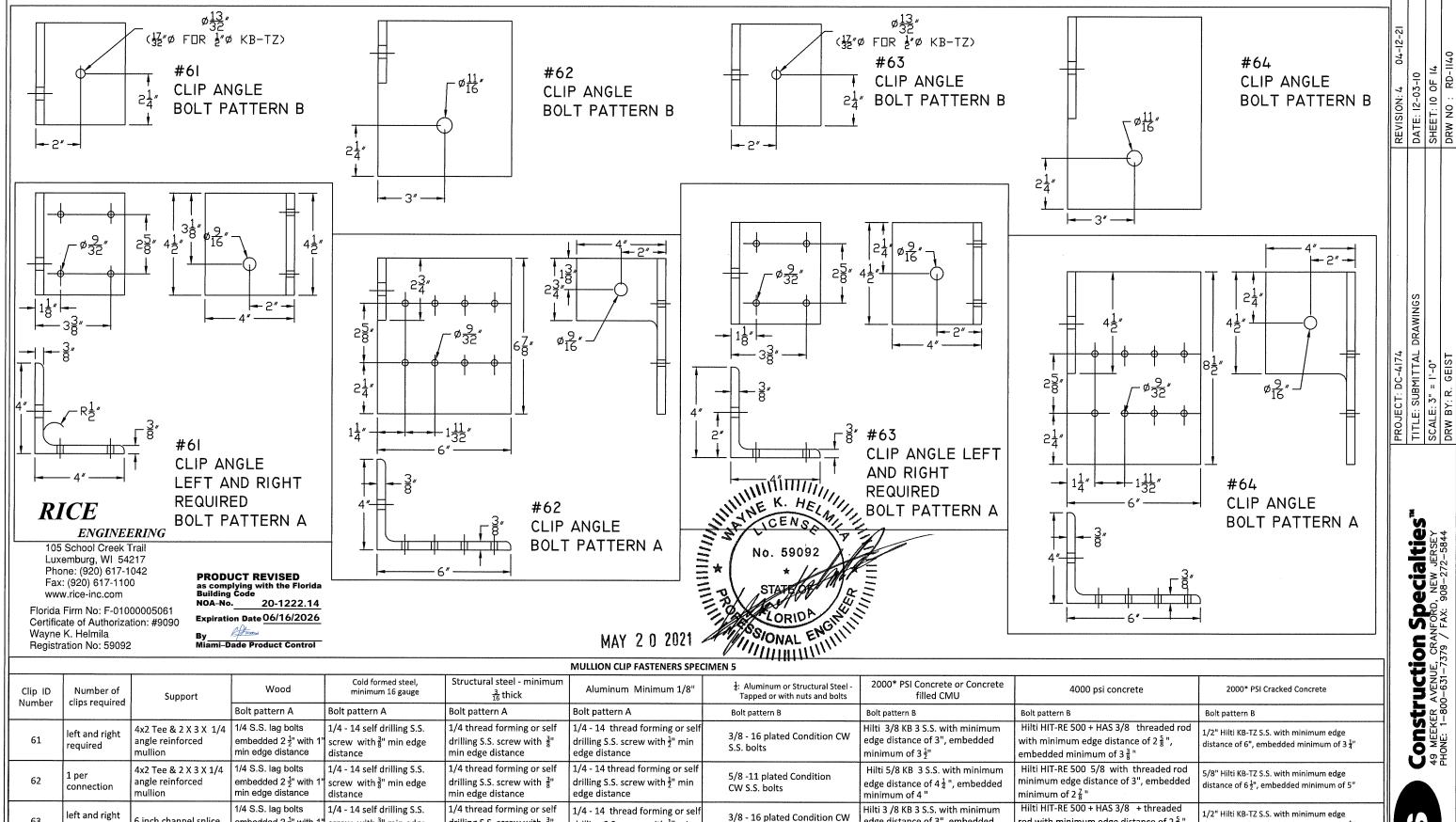
20-1222.14

Miami–Dade Product Control

NOA-No.

					M	<b>ULLION CLIP FASTENERS SPEC</b>	CIMEN 4			
Clip ID Number	Number of clips required	Support	Wood	Cold formed steel, minimum 16 gauge	Structural steel - minimum 3/16	Aluminum Minimum 1/8"	Aluminum or Structural Steel - Tapped or with nuts and bolts minimum $\frac{1}{4}$ " thick	2000* PSI Concrete or Concrete filled CMU	4000 psi concrete	2000* PSI Cracked Concrete
Number	required		Bolt pattern A	Bolt pattern A	Bolt pattern A	Bolt pattern A	Bolt pattern B	Bolt pattern B	Bolt pattern B	Bolt pattern B
58	1 per connection	Standard mullion	1/4 S.S lag bolts embedded 2 ½" with 1" edge distance	$1/4$ - 14 thread forming or self drilling S.S. screw min $\frac{3}{8}$ " edge distance	drilling S.S. screw with 3 min	1/4 - 14 thread forming or self drilling S.S. screw with ½" min edge distance	3/8 - 16 plated Condition CW S.S. bolts	$\frac{3}{3}$ " Hilti KB 3 S.S. with minimum edge distance of 4", embedded minimum of $3\frac{1}{2}$ "	Hilti HIT-RE 500 $\frac{3}{8}$ with threaded rod for reverse clip installation with minimum edge distance of $3\frac{1}{2}$ ", embedded minimum of $3\frac{3}{8}$ "	$\frac{3}{8}$ " Hilti KB-TZ SS with minimum edge distance of $4\frac{1}{8}$ ", embedded minimum of $2\frac{3}{4}$ "
59	1 per connection	4 inch channel splice	1/4 S.S lag bolts embedded 2 ½" with 1" edge distance	1	drilling S.S. screw with 3" min	1/4 - 14 thread forming or self drilling S.S. screw with $\frac{1}{2}$ " min edge distance	3/8 - 16 plated Condition CW 5.5. bolts	$\frac{3}{8}$ " Hilti KB 3 S.S. with minimum edge distance of 4 $\frac{1}{2}$ ", embedded minimum of 2 $\frac{1}{2}$ "	Hilti HIT-RE 500 3/8 and threaded rod with minimum edge distance of 3 ", embedded minimum of 3 g ""	$\frac{1}{2}$ " Hilti KB-TZ SS with minimum edge distance of 6", embedded minimum of 3 $\frac{1}{4}$ "
60	1 per connection	4 inch channel splice	1/4 S.S lag bolts embedded 2 ½" with 1" edge distance	1/4 - 14 thread forming or self drilling S.S. screw min 3 edge distance	drilling S.S. screw with 3 min	1/4 - 14 thread forming or self drilling S.S. screw with ½" min edge distance	3/8 - 16 plated Condition CW S.S. bolts	$\frac{3}{8}$ " Hilti KB 3 S.S. with minimum edge distance of $2\frac{1}{4}$ ", embedded minimum of $2\frac{1}{2}$ "	Hilti HIT-RE 500 + HAS 3/8 and $\frac{3}{8}$ rod with minimum edge distance of 2" embedded minimum of 3 $\frac{3}{8}$ "	$\frac{3}{8}$ " Hilti KB-TZ SS with minimum edge distance of $4\frac{1}{8}$ ", embedded minimum of $2\frac{3}{8}$ "

\*Any fastener rated for 2000 psi concrete can be used in 4000 psi concrete \*All Hilti RE-500 Fasteners specified in this Mullion Clip Fasteners Specimen 4 Table must be sealed with Liquid Prosoco Flashing



S.S. bolts

CW S.S. bolts

5/8 - 11 plated Condition

63

64

required

connection

1 per

6 inch channel splice

6 inch channel splice

embedded 2 ½" with 1

min edge distance

1/4 S.S. lag bolts

min edge distance

screw with 3" min edge

1/4 - 14 self drilling S.S.

\*ALL S.S. ANCHORS SPECIFIED IN THIS MULLION CLIP FASTENERS SPECIMEN 5 TABLE MUST BE PROVIDED AS SERIES 300 S.S.

distance

distance

embedded  $2\frac{1}{2}$ " with 1" screw with  $\frac{3}{8}$ " min edge

drilling S.S. screw with 3™

1/4 thread forming or self

drilling S.S. screw with 3"

min edge distance

min edge distance

drilling S.S. screw with 3" min

1/4 - 14 thread forming or self

drilling S.S. screw with  $\frac{1}{2}$ " min

edge distance

edge distance

edge distance of 3", embedded

Hilti 5/8 KB 3 S.S. with minimum

edge distance of  $4\frac{1}{4}$ ", embedded

\*Any fastener rated for 2000 psi

concrete can be used in 4000 psi

concrete

minimum of 3 1/3"

minimum of 4"

rod with minimum edge distance of  $2\frac{5}{8}$ ",

minimum edge distance of 3", embedded

\*All Hilti RE-500 Fasteners specified in this

Mullion Clip Fasteners Specimen 5 Table must be

sealed with Liquid Prosoco Flashing

HIT-RE 500 5/8 with threaded rod

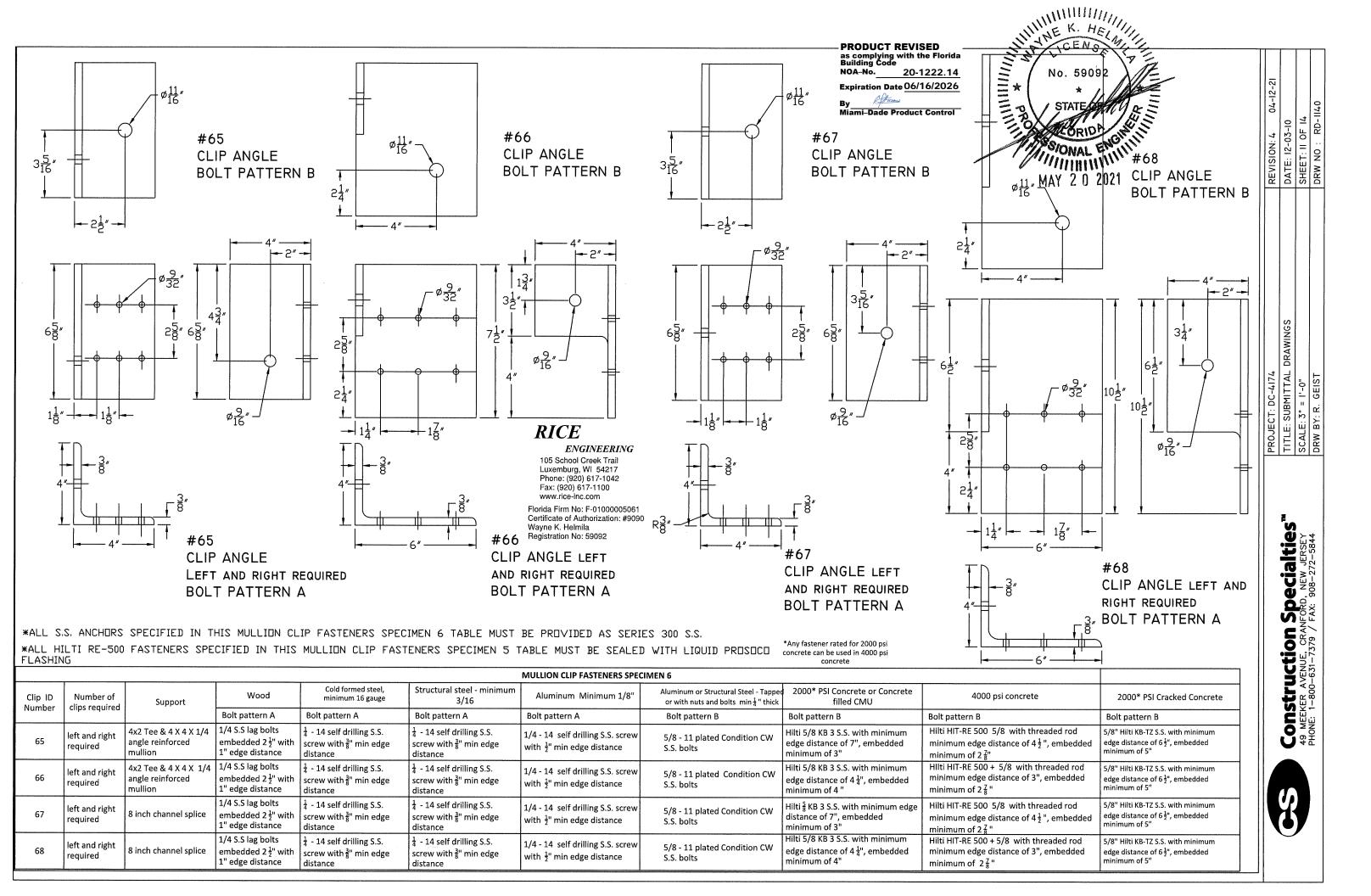
embedded minimum of 3 3 4

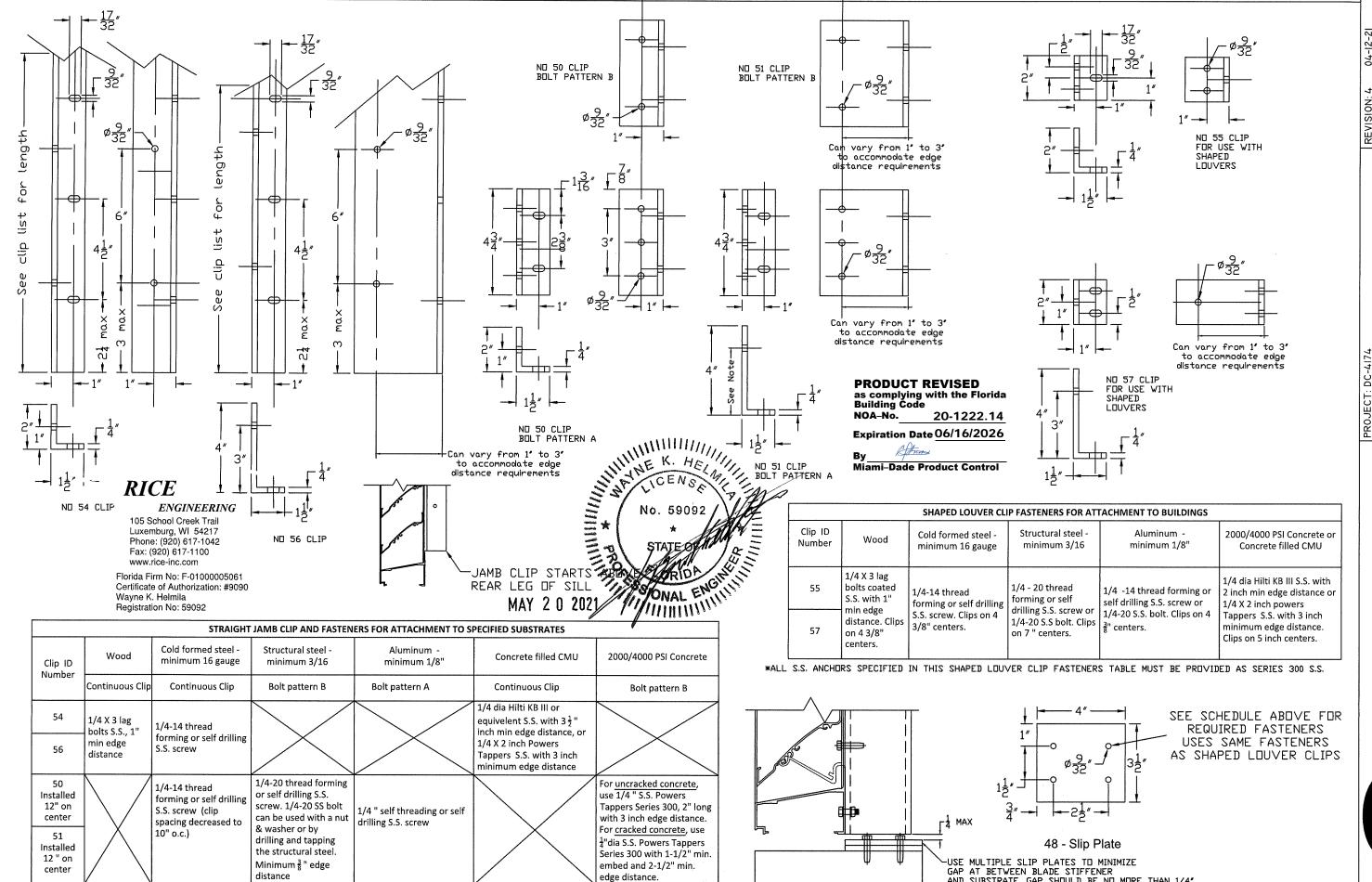
minimum of 2 🧸 "

distance of 6", embedded minimum of 3  $\frac{1}{4}$ "

5/8" Hilti KB-TZ S.S. with minimum edge

distance of 6 ½", embedded minimum of 5"





\*ALL S.S. ANCHORS SPECIFIED IN THIS STRAIGHT JAMB CLIP AND FASTENERS TABLE MUST BE PROVIDED AS SERIES 300

ACÍAITÍES"

NEW JERSEY

O8-272-5844

PROJECT: DC-4174

TITLE: SUBMITTAL DRAWINGS

SCALE: 3" = 1'-0"

DRW BY: R. GEIST

Construction Specialties"
49 MEEKER AVENUE, CRANFORD, NEW JERSEY
PHONE: 1-800-631-7379 / FAX: 908-272-5844

S

AND SUBSTRATE, GAP SHOULD BE NO MORE THAN 1/4". ATLEAST DNE SLIP PLATE IS REQUIRED AT HEAD AND

SILL OF EVERY BLADE STIFFENER.

- 1) Determine the required mullion spacing and louver height either from structural or architectural considerations.
- 2) Starting with Mullion Table 1, under the job wind load go down through the tables until the required opening height is found. The heading at the top of the table will indicate the detail to be used for the mullion. The same tables apply to visible or hidden mullions (splices). Once the required height has been found for the job windload, move left along the row to find the corresponding mullion/splice distance. This will give you your section height and width. Proceed to step 3 for any additional "stiffener" supports required.
- 3) From table 4, read the panel horizontal span (mullion spacing from Step 2) and read the number of stiffeners required under the design wind load. It may be necessary to change the mullion spacing if the allowable blade span falls out side the table values, if so go back and repeat step 2.
- 4) It is possible to start with the stiffener tables to find a panel width (mullion spacing), and then go to the mullion tables to verify the mullion or chanel, detail and allowable height.

Mι	ullion			ALL	.OWABLE	HEIGHT I	OR STAN	DARD MI	JLLION D	ETAIL H/4	AND 4 II	NCH CHAI	NNEL DET	AILS J/4 -	K/4		
Ta	ble 1								Wind L	oad PSF							
		20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
	24	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.0	7.2	6.6	6.1	5.7	5.3	5.0	4.7
5	30	8.5	8.5	8.5	8.5	8.5	8.5	8.0	7.1	6.4	5.8	5.3	4.9	4.6	4.3	4.0	3.8
mullion to mullion	36	8.5	8.5	8.5	8.5	8.5	7.6	6.6	5.9	5.3	4.8	4.4	4.1	3.8	3.5	3.3	3.1
to m	42	8.5	8.5	8.5	8.5	7.6	6.5	5.7	5.1	4.6	4.1	3.8	3.5	3.3	3.0	2.8	2.7
lion	48	8.5	8.5	8.5	8.0	6.6	5.7	5.0	4.4	4.0	3.6	3.3	3.1	2.8	2.7	2.5	2.3
	54	8.5	8.5	8.5	7.1	5.9	5,1	4.4	3.9	3.5	3.2	3.0	2.7	2.5	2.4	2.2	2.1
JO UC	60	8.5	8.5	8.0	6.4	5.3	4.6	4.0	3.5	3.2	2.9	2.7	2.5	2.3	2.1	2.0	1.9
illic	66	8.5	8.5	7.2	5.8	4.8	4.1	3.6	3.2	2.9	2.6	2.4	2.2	2.1	1.9	1.8	
to m	72	8.5	8.5	6.6	5.3	4.4	3.8	3.3	3.0	2.7	2.4	2.2	2.0	1.9	1.8		•
from jamb to mullion or	78	8.5	8.2	6.1	4.9	4.1	3.5	3.1	2.7	2.5	2.2	2.0	1.9	1.8		•	
i mc	84	8.5	7.6	5.7	4.6	3.8	3.3	2.8	2.5	2.3	2.1	1.9	1.8				JCT R
1	90	8.5	7.1	5.3	4.3	3.5	3.0	2.7	2.4	2.1	1.9	1.8		,		s comp uilding	olying w Code
•										<del> </del>					_		,

2.5

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2.2

2.1

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1.9

2.0

1.9

1.8

3.3

3.1

3.0

2.8

2.7

2.5

2.4

2.3

3.8

3.5

3.4

3.2

102

108

114

8.5

8.5

8.4

5.9

5.6

4.4

4.2

PRODUCT REVISED
as complying with the Florida
Building Code
NOA–No. 20-1222.14

102

108

12.0

12.0

12.0

12.0

12.0

12.0

12.0

12.0

12.0

11.3

10.7

10.2

10.0

9.4

8.9

8.5

12.0

12.0

12.0

12.0

Expiration Date 06/16/2026

By Miami-Dade Product Control

Mι	ıllion	ALLOV	VABLE HE	IGHT FOR	REINFO	RCED MU	LLION 4 X	2 TEE WI	TH 2 X 3 )	( ANGL	E DETAILS	i L/5 - M/	5 AND 6	INCH CHA	ANNEL DE	TAILS N	/5 - P/5
Tal	ole 2								Wind L	oad PSF							
		20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
	24	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8	9.2
٦	30	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.6	8.9	8.3	7.8	7.4
l j	36	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.5	8.7	8.0	7.4	6.9	6.5	6.1
t o	42	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.9	8.9	8.1	7.4	6.9	6.4	6.0	5.6	5.3
lion	48	10.0	10.0	10.0	10.0	10.0	10.0	9.8	8.7	7.8	7.1	6.5	6.0	5.6	5.2	4.9	4.6
E E	54	10.0	10.0	10.0	10.0	10.0	9.9	8.7	7.7	6.9	6.3	5.8	5.3	5.0	4.6	4.3	4.1
l o	60	10.0	10.0	10.0	10.0	10.0	8.9	7.8	6.9	6.3	5.7	5.2	4.8	4.5	4.2	3.9	3.7
- from jamb to mullion or mullion to mullion	66	10.0	10.0	10.0	10.0	9.5	8.1	7.1	6.3	5.7	5.2	4.7	4.4	4.1	3.8	3.6	
to	72	10.0	10.0	10.0	10.0	8.7	7.4	6.5	5.8	5.2	4.7	4.3	4.0	3.7	3.5		-
amp	78	10.0	10.0	10.0	9.6	8.0	6.9	6.0	5.3	4.8	4.4	4.0	3.7	3.4			
om j	84	10.0	10.0	10.0	8.9	7.4	6.4	5.6	5.0	4.5	4.1	3.7	3.4				
-f-	90	10.0	10.0	10.0	8.3	6.9	6.0	5.2	4.6	4.2	3.8	3.5					
Panel span (in.)	96	10.0	10.0	9.8	7.8	6.5	5.6	4.9	4.3	3.9	3.6						
spar	102	10.0	10.0	9.2	7.4	6.1	5.3	4.6	4.1	3.7							
ane	108	10.0	10.0	8.7	6.9	5.8	5.0	4.3	3.9	3.5							
ے ا	114	10.0	10.0	8.2	6.6	5.5	4.7	4.1	3.7								
	120	10.0	10.0	7.8	6.3	5.2	4.5	3.9	3.5								

Mu	llion	ALLOV	NABLE HE	IGHT FO	R REINFO	RCED MU	LLION 4 >	( 2 TEE W	TH 4 X 4	X 4 ANGL	E DETAIL	S Q/5 - R/	5 AND 8	INCH CH	ANNEL DI	TAILS S	′5 - T/5
Tab	le 3								Wind L	oad PSF							
		20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
	24	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
Ē	30	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
mullion to mullion	36	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.3	10.6	10.0
to m	42	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.2	10.4	9.7	9.1	8.6
lion	48	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.6	10.6	9.8	9.1	8.5	8.0	7.5
	54	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.3	10.3	9.4	8.7	8.1	7.6	7.1	6.7
n or	60	12.0	12.0	12.0	12.0	12.0	12.0	12.0	11.3	10.2	9.3	8.5	7.8	7.3	6.8	6.4	6.0
ullic	66	12.0	12.0	12.0	12.0	12.0	12.0	11.6	10.3	9.3	8.4	7.7	7.1	6.6	6.2	5.8	
to m	72	12.0	12.0	12.0	12.0	12.0	12.0	10.6	9.4	8.5	7.7	7.1	6.5	6.1	5.7	111111 5 K.	1177
dme	78	12.0	12.0	12.0	12.0	12.0	11.2	9.8	8.7	7.8	7.1	6.5	6.0	5.6	1111	EK.	HE
from jamb to mullion or	84	12.0	12.0	12.0	12.0	12.0	10.4	9.1	8.1	7.3	6.6	6.1	5.6	5.6	1.74	CE	N
	90	12.0	12.0	12.0	12.0	11.3	9.7	8.5	7.6	6.8	6.2	5.7			7/2	,\"	, o.
n.)	06	12.0	12.0	12.0	12.0	10.6	0.1	0.0	7 1	<i>c</i> 1	г о			-	/ .	•	!

6.7

6.3

6.0

6.0

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8.1

7.7

7.3

MAY 2 0 2021

	eners						NUMBE	R OF STIF	FENERS R	EQUIRED	FOR EACI	H PANEL					
Tabl	e 4							Wind Lo	ad Pound	ls Per Squ	are Foot						
		20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
_	24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
u C	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
la like	36	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1
to	42	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1
amb	48	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1
lb, J	54	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1
on on	60	0	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1
Span (in.) From Jamb to Jamb, Jamb to mullion or mullion to mullion	66	0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	
n Jan I to r	72	0	0	1	1	1	1	1	1	1	1	1	1	1	1		
Fron	78	0	0	1	1	1	1	1	1	1	1	1	1	1			
(ji.)	84	0	1	1	1	1	1	1	1	1	1	1	1				
ban	90	0	1	1	1	1	1	1	1	1	1	1					
ra S	96	0	1	1	1	1	1	1	1	1	1						
Horizontal	102	1	1	1	1	1	1	1	1	1							
Нōг	108	1	1	1	1	1	1	1	1	2							
								<del> </del>									

NOTE: Comparative analysis may be used to find values that fall between the values shown in tables 1, 2 or 3.

## **ENGINEERING**

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

**RICE** 

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

	1 10 10 10 10 10 10 10 10 10 10 10 10 10
TITLE: SUBMITTAL DRAWINGS	DATE: 12-03-10
SCALE: 3" = 1'-0"	SHEET: 13 OF 14
DRW BY: R. GEIST	DRW NO : RD-1140
Personal Control of Co	

Construction Specialties"
49 MEEKER AVENUE, CRANFORD, NEW JERSEY
PHONE: 1-800-631-7379 / FAX: 908-272-5844



