

Industrial Louvers, Inc. 511 South 7th Street Delano, MN 55328

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 SP537DC 5" Deep Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **RD1032**, titled "SP-537DC 5" Deep Storm Performance Louver", sheets 1 through 12 of 12, dated 03/21/2013, with revision 9 dated 04/28/2023, prepared by Industrial Louvers, Inc., signed and sealed by Wayne K. Helmila, P.E. on 05/09/2023, bearing the Miami-Dade County Product Control renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, 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 NOA # 21-1012.02** 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.



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NOA No. 23-0714.02 Expiration Date: July 10, 2028 Approval Date: August 17, 2023 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOA's

A. DRAWINGS "Submitted under NOA #13-0717.12"

1. Drawing No. **RD1032**, titled "SP-537DC 5" Deep Storm Performance Louver", sheets 1 through 11 of 11, dated 03/21/2013, with revision 5 dated 10/11/2013, prepared by Industrial Louvers, Inc., signed and sealed by L. David Rice, P.E.

B. TESTS "Submitted under NOA # 08-0513.08"

- 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 marked-up drawings and installation diagram of Model SP-537DC Aluminum Louver, prepared by Architectural Testing, Inc., Test Report No. **79282.01-201-18**, dated 03/20/2008, signed and sealed by Joseph A. Reed, P.E.

C. CALCULATIONS "Submitted under NOA #13-0717.12"

1. Anchor verification calculations and structural analysis prepared by Rice Engineering, dated 07/11/2013, signed and sealed by L. David Rice, P.E.

"Submitted under NOA # 08-0513.08"

2. Anchor verification calculations and structural analysis prepared by Rice Engineering, dated 05/05/2008, 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 "Submitted under NOA #13-0717.12"

- 1. Statement letter of conformance to 2010 FBC, issued by Rice Engineering, dated 07/09/2013, signed and sealed by L. David Rice, P.E.
- 2. Statement letter of no financial interest issued by Rice Engineering, dated 07/09/2013, signed and sealed by L. David Rice, P.E.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 23-0714.02 Expiration Date: July 10, 2028 Approval Date: August 17, 2023

Industrial Louvers, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under NOA # 18-0222.07

A. DRAWINGS

1. Drawing No. **RD1032**, titled "SP-537DC 5" Deep Storm Performance Louver", sheets 1 through 12 of 12, dated 03/21/2013, with revision 7 dated 02/08/2018, prepared by Industrial Louvers, Inc., signed and sealed by Wayne K. Helmila, P.E.

B. TESTS

1. None.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis prepared by Rice Engineering, dated 02/09/2018, 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 conformance to the 6th edition (2017) FBC, issued by Rice Engineering, dated 02/09/2018, signed and sealed by Wayne K. Helmila, P.E.
- 2. Statement letter of no financial interest issued by Rice Engineering, dated 02/09/2018, signed and sealed by Wayne K. Helmila, P.E.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 23-0714.02 Expiration Date: July 10, 2028 Approval Date: August 17, 2023

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under NOA # 21-1012.02 and new

A. DRAWINGS

1. Drawing No. **RD1032**, titled "SP-537DC 5" Deep Storm Performance Louver", sheets 1 through 12 of 12, dated 03/21/2013, with revision 9 dated 04/28/2023, prepared by Industrial Louvers, Inc., signed and sealed by Wayne K. Helmila, P.E. on 05/09/2023.

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 marked-up drawings and installation diagram of Model SP-537DC Aluminum Louver, prepared by Intertek, Test Report No. P9270.01-201-18 R0, dated 06/15/2023, signed and sealed by Tanya A. Dolby, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis prepared by Rice Engineering, dated 09/29/2021, 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

 Test report on Performance of Exterior Windows, Curtain Walls, Doors, and Impact Protective Systems per ASTM E1886-13a and Louvers Impacted by Wind Borne Debris (Missile Level "E") per AMCA 540 along with marked-up drawings and installation diagram of Model SP-537DC Aluminum Louver, prepared by Intertek/Architectural Testing, Test Report No. G8708.01-201-44, dated 08/10/2017, signed and sealed by Gary T. Hartman, P.E.

F. STATEMENTS

- 1. Statement letter of code conformance to the 7th edition (2020) of the FBC, issued by Rice Engineering, dated 09/20/2021, signed and sealed by Wayne K. Helmila, P.E.
- 2. Statement letter of no financial interest issued by Rice Engineering, dated 09/20/2021, signed and sealed by Wayne K. Helmila, P.E.

Carlos M. Utrera, P.E. Product Control Examiner NOA No. 23-0714.02 Expiration Date: July 10, 2028 Approval Date: August 17, 2023

GENERAL NOTES:

- G-01 IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THE LOUVERS.
- G-02 THESE LOUVER SYSTEMS HAVE BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 2020 FLORIDA BUILDING CODE (FBC), AMCA 540 ENHANCED LEVEL E IMPACT, AND FBC PROTOCOLS TAS-201 LARGE MISSILE, TAS-202, AND TAS-203 FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
- G-03 EACH LOUVER ASSEMBLY SHALL BE PERMANENTLY LABELED AS FOLLOWS: INDUSTRIAL LOUVERS, INC. MODEL SP537DC DELANO, MN

MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED

- G-04 ALL CONCRETE SUBSTRATE SHALL BE MINIMUM 4000 PSI.
- G-05 ALL GROUT FILLED CMU SUBSTRATE SHALL BE MINIMUM 1500 PSI CONFORMING TO UBC 21-17.
- G-06 ALL WOOD SUBSTRATE SHALL BE MINIMUM G = 0.55 DENSITY.
- G-07 ALL METAL STUD SUBSTRATE SHALL BE MINIMUM 16 GAUGE Fy = 33 KSI.
- G-08 ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MINIMUM Fy = 46 KSI. G-09 ALL STAINLESS STEEL FASTENERS AND ANCHORS SHALL BE 300 SERIES STAINLESS STEEL.
- G-10 PANEL WIDTHS AND HEIGHTS ARE LIMITED AS SHOWN ON SHEETS 2 AND 3.
- G-11 PANELS MAY BE HORIZONTALLY STACKED TO AN UNLIMITED WIDTH. VERTICAL STACKING MAY OCCUR PROVIDING A STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO WITHSTAND ALL LOADS IMPOSED BY THE LOUVERS. SINGLE NON-REINFORCED PANELS MAY BE STACKED VERTICALLY TO AN UNLIMITED HEIGHT.
- G-12 SEPARATION OF DISSIMILAR METALS MUST BE MAINTAINED PER SECTION 2003.8.4 OF THE FBC.
- G-13 THIS LOUVER 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 OR WATER PROOF EQUIPMENT, COMPONENTS, AND/OR SUPPLIES.

KEY NOTES:

- K-01 SHELF ANGLES ATTACHED TO SURROUNDINGS PER SHELF ANGLE ANCHOR SCHEDULE. SHELF ANGLES WILL ONLY BE SUPPLIED IF THE PROJECT CONDITIONS REQUIRE IT.
- K-10 4" LONG 3 1/2" X 6" X 3/8" CLIP ANGLES ATTACHED TO SURROUNDINGS PER MULLION ANCHOR SCHEDULE.
- MULLION CLIP ANGLES ATTACHED TO VERTICAL CHANNELS W/ (4) 1/2" X K-11 2 1/2" SS THRU BOLTS.
- K-12 VERTICAL CHANNELS FASTENED TOGETHER W/ 1/4" X 1" SS THRU BOLTS AT 24" O.C.
- K-13 1/4" X 1 1/4" GASKET TAPE APPLIED BETWEEN VERTICAL CHANNELS.
- 4" LONG 2" X 2" X 1/8" CLIP ANGLES ANCHORED TO SURROUNDINGS AT K-21 NO MORE THAN 10" O.C. PER JAMB ANCHOR SCHEDULE.
- K-22 JAMB CLIP ANGLES ATTACHED TO SIDE FRAMES W/ (2) #12 X 1" SS SCREWS PER CLIP ANGLE.
- K-31 VERTICAL CHANNELS ATTACHED TO EACH BLADE AND EACH BLADE BRACE W/ (1) #10 X 1" SS SCREW.
- K-32 BOTTOM FRAME ATTACHED TO SIDE FRAMES W/ (2) #8 X 5/8" SS SCREWS PER SIDE FRAME.
- K-33 BLADES ATTACHED TO SIDE FRAMES W/ (3) #10 X 1" SS SCREWS PER BLADE END.
- TOP FRAME ATTACHED TO SIDE FRAMES W/ (2) #8 X 5/8" SS SCREWS PER K-34 SIDE FRAME.
- K-41 BACKER ROD AND SEALANT APPLIED AROUND THE PERIMETER OF EACH LOUVER AFTER INSTALLATION.

SHELF ANGLE ANCHOR SCHEDULE (SEE SHEET 5)

ITEM	ANCHOR QUANTITY	ANCHOR DESCRIPTION	MAX. LOUVER HEIGHT	SHELF ANGLE	SUBSTRATE	MIN.
SA11	2 PER SHELF ANGLE	1/2" DIA. S.S. HILTI KWIK BOLT TZ2	60''	ITEM 34	CONCRETE	3"
SA12	2 PER SHELF ANGLE	HILTI HIT-HY 200 WITH 1/2" DIA. S.S. HIT-Z-R	108"	ITEM 34	CONCRETE	5 3/4
SA13	3 PER SHELF ANGLE	HILTI HIT-HY 200 WITH 1/2" DIA. S.S. HIT-Z-R	135"	ITEM 35	CONCRETE	5 3/4
SA14	4 PER SHELF ANGLE	HILTI HIT-HY 200 WITH 1/2" DIA. S.S. HIT-Z-R	154"	ITEM 36	CONCRETE	5 3/4
SA21	2 PER SHELF ANGLE	1/2" DIA. S.S. BOLT	108"	ITEM 34	1/4" THICK STEEL	
SA22	3 PER SHELF ANGLE	1/2" DIA. S.S. BOLT	154"	ITEM 34	1/4" THICK STEEL	
SA31*	4 PER SHELF ANGLE	1/2" DIA. S.S. HILTI KWIK BOLT TZ2	108"	ITEM 36	CONCRETE	3 5/8
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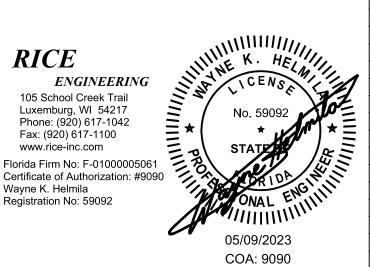
INDICATES NON-STANDARD CONFIGURATION. AVAILABLE UPON SPECIAL REQUEST ONLY.

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ITEM	ANCHOR QUANTITY	ANCHOR DESCRIPTION	CLIP ANGLE	SUBSTRATE	SLAB THICKNESS	MIN
MA11	1 PER CLIP	1/2" DIA. S.S. HILTI KWIK BOLT TZ2	ITEM 32	CONCRETE	8"	3 5/
MA12	1 PER CLIP	1/2" DIA. S.S. BOLT	ITEM 32	1/4" THICK STEEL		
MA13*	4 PER CLIP	1/2" DIA. S.S. LAGBOLT	ITEM 33	WOOD		51/

INDICATES NON-STANDARD CONFIGURATION. AVAILABLE UPON SPECIAL REQUEST ONLY

		JAMB	ANCHOR	SCHEDULE	
ITEM	QUANTITY	DESCRIPTION	CLIP ANGLE	SUBSTRATE	MIN.
JA11	2 PER CLIP	HILTI S.S. HUS-HR M6	ITEM 31	CONCRETE	2 3/
JA12	1 PER CLIP	1/4" DIA. S.S. HILTI KWIK BOLT III	ITEM 31	CONC. BLOCK	2"
JA13	2 PER CLIP	1/4" DIA. S.S. SELF-DRILLING SCREW	ITEM 31	3/16" THICK STEEL	
JA14	3 PER CLIP	1/4" DIA. S.S. SELF-DRILLING SCREW	ITEM 31	16 GA. STL STUDS	
JA15	2 PER CLIP	1/4" DIA. S.S. LAG BOLT	ITEM 31	WOOD	4"

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ITEM	DESCRIPTION	PART N
01	LOUVER BOTTOM FRAME	FRM138
02	LOUVER SIDE FRAME	FRM138
03	LOUVER TOP FRAME	FRM138
04	LOUVER BLADE	BLD14C
11	BLADE BRACE, BOTTOM BLADE, 1" LONG	HARPU
12	BLADE BRACE, TYPICAL, 2" LONG	HARPU
21	1" X 5" X 2" X 1/8" CHANNEL	CHN10
22	1" X 6 5/8" X 2" X 1/8" CHANNEL	CHN10
23	1" X 7" X 2" X 3/16" CHANNEL	CHN10
31	4" LONG 2" X 2" X 1/8" CLIP ANGLE	HAR93
32	4" LONG 3 1/2" X 6" X 3/8" CLIP ANGLE	HAR93
33	4" LONG 3 1/2" X 6" X 3/8" CLIP ANGLE	HAR93
34	15" LONG 4" X 6" X 1/2" SHELF ANGLE	HAR93
35	22" LONG 4" X 6" X 1/2" SHELF ANGLE	HAR93
36	27" LONG 4" X 6" X 1/2" SHELF ANGLE	HAR93
41	#8 X 5/8" SD PH SM SCREW	FAS504
42	#10 X 1" SD PH SM SCREW	FAS651
43	#12 X 1" SL HWH SM SCREW	FAS513
44	1/4"-20 X 1" HH BOLT W/ WASHERS AND NUT	FAS515
45	1/2"-13 X 2" HH BOLT W/ WASHERS AND NUT	FAS518
46	1/2"-13 X 2 1/2" HH BOLT W/ WASHERS AND NUT	FAS518
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RICE

105 School Creek Trail

Luxemburg, WI 54217

Phone: (920) 617-1042

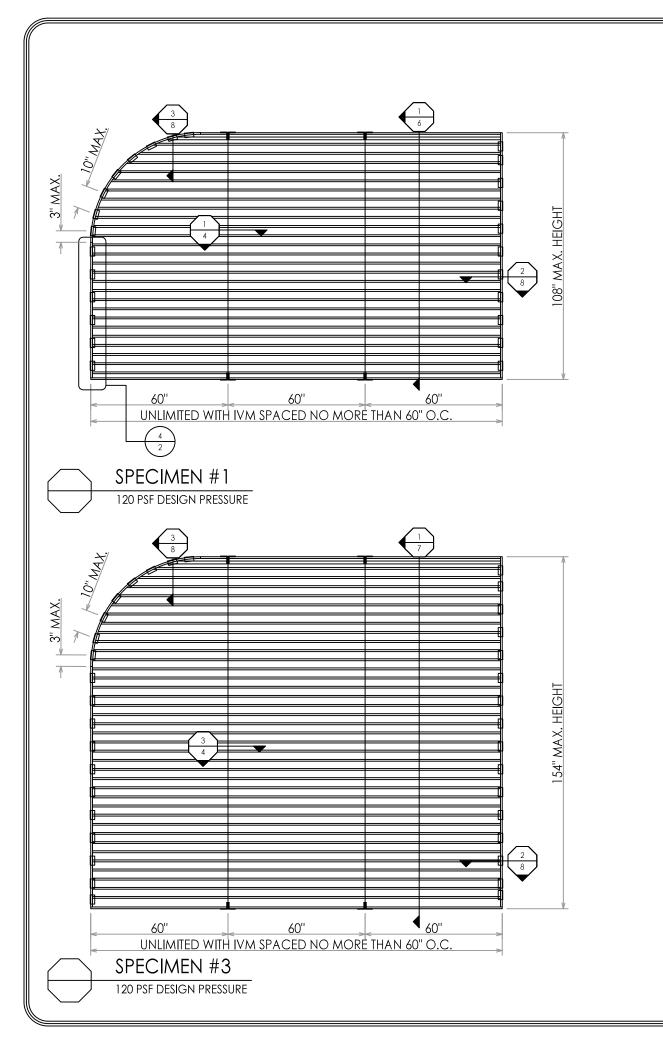
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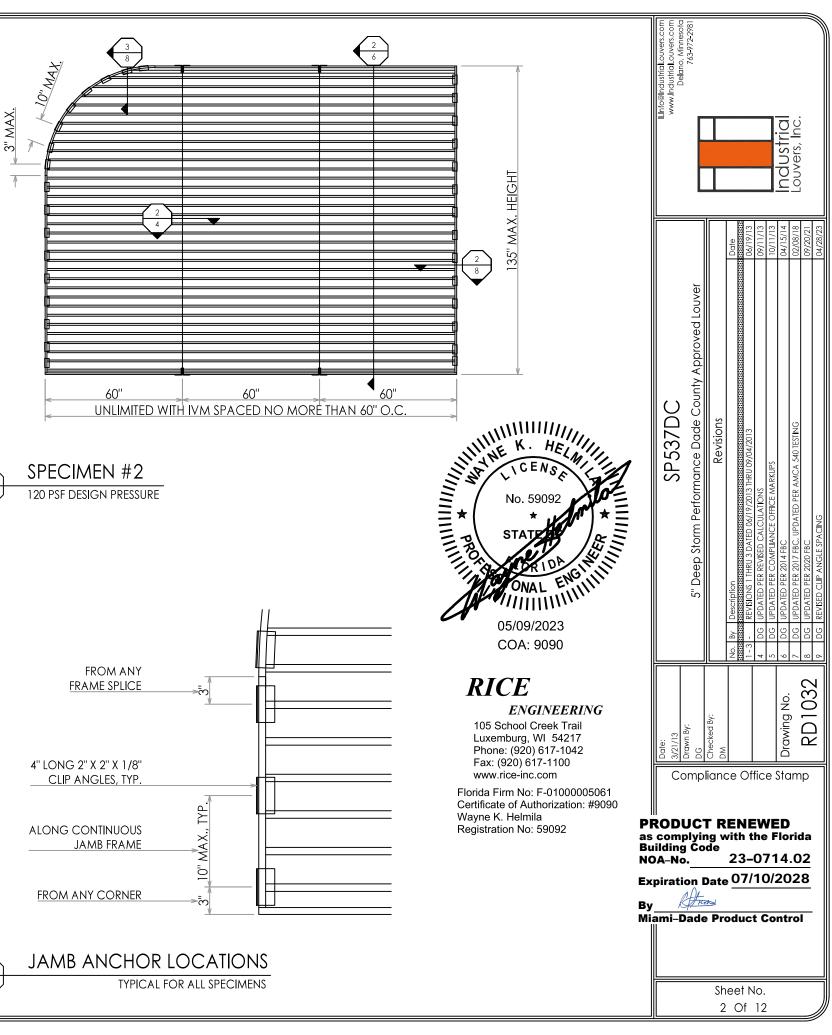
www.rice-inc.com

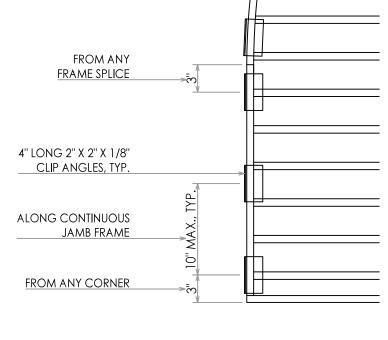
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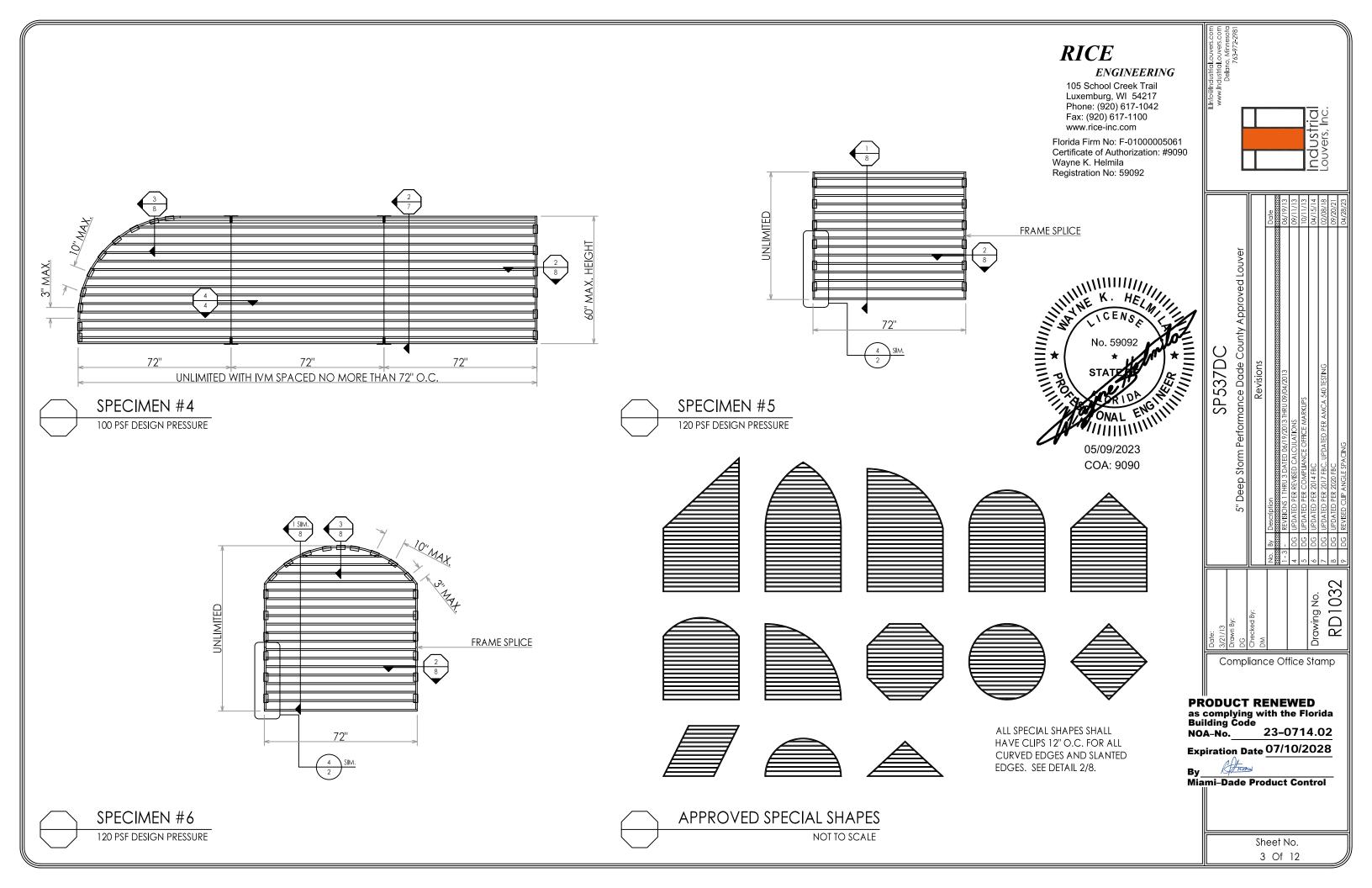
Wayne K. Helmila

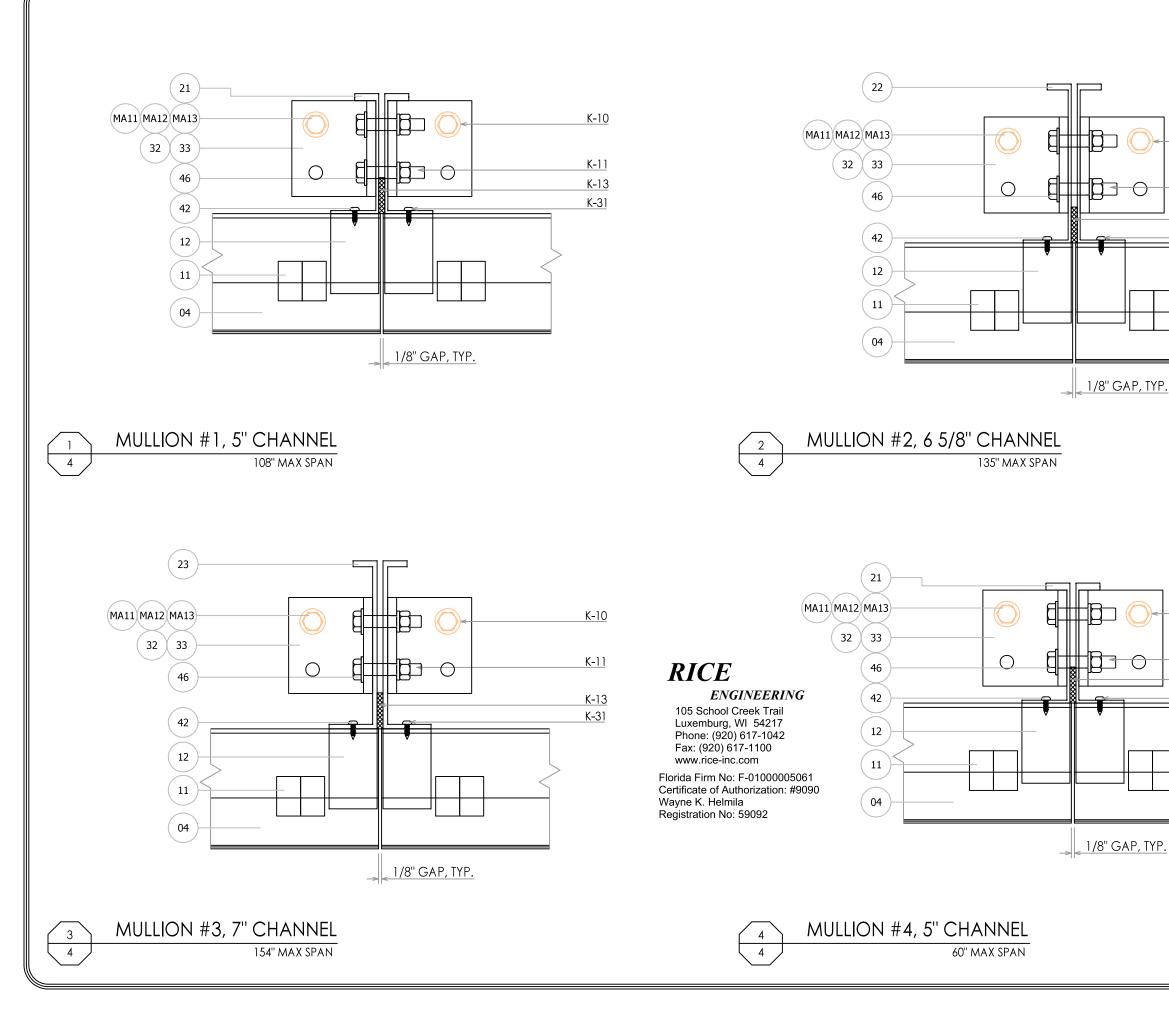
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Miami-Dade Product Co	ntrol
Sheet No. 1 Of 12	

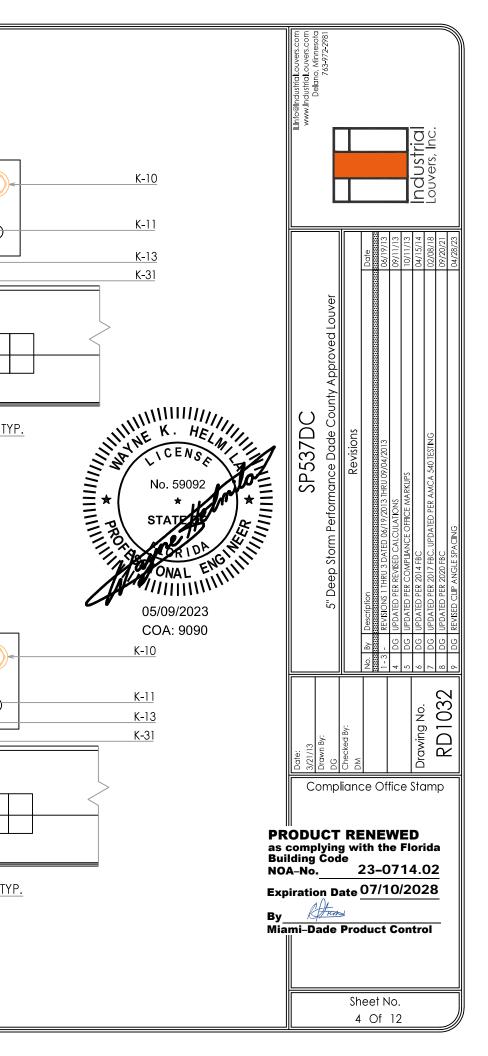


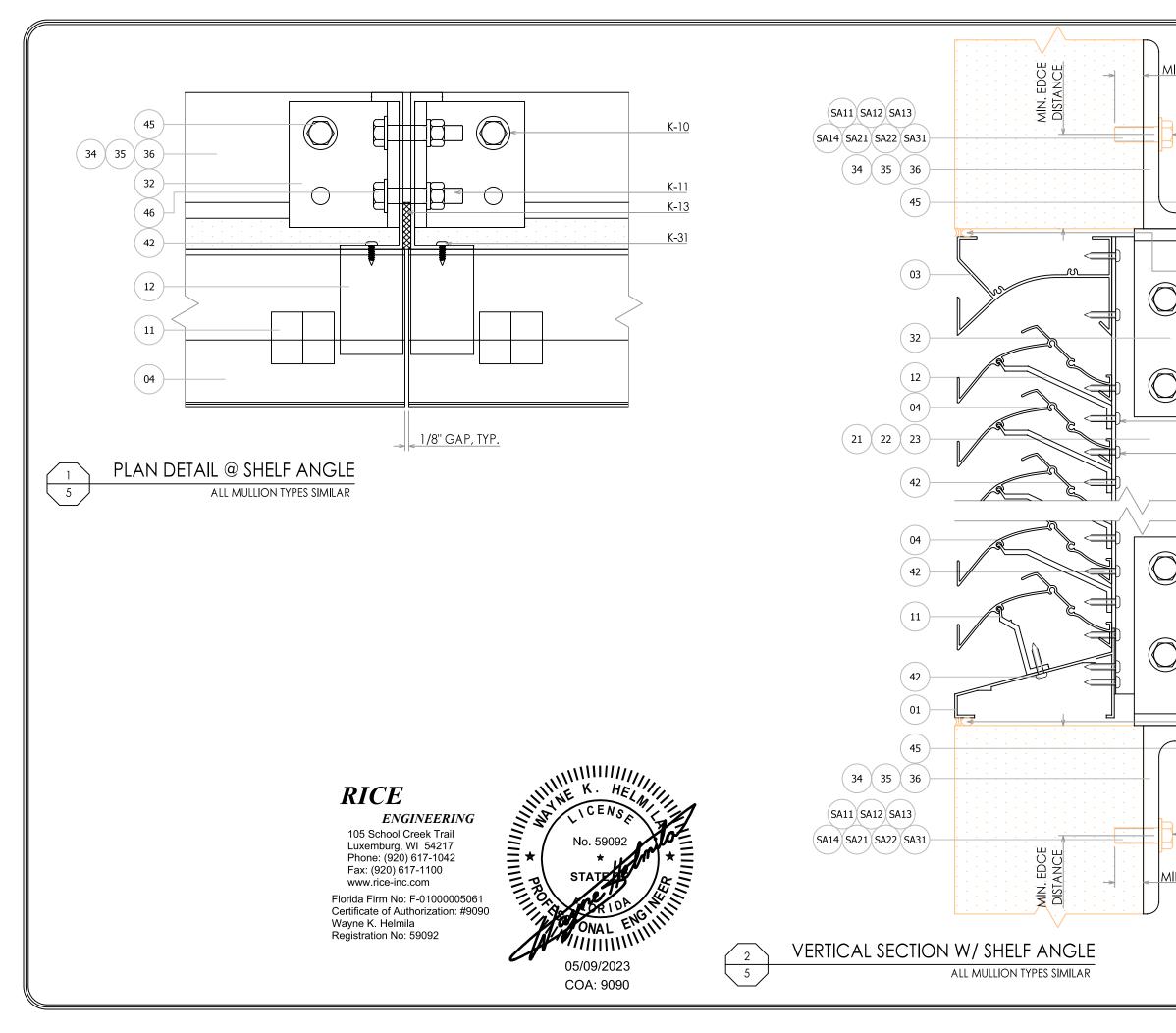


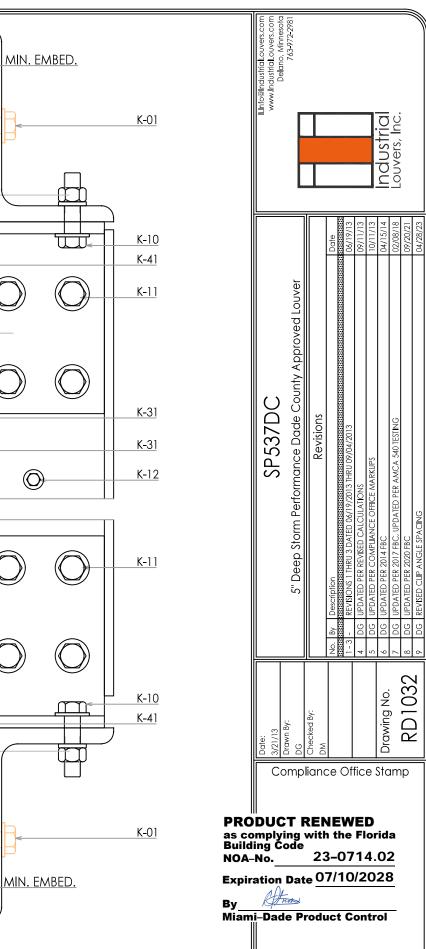




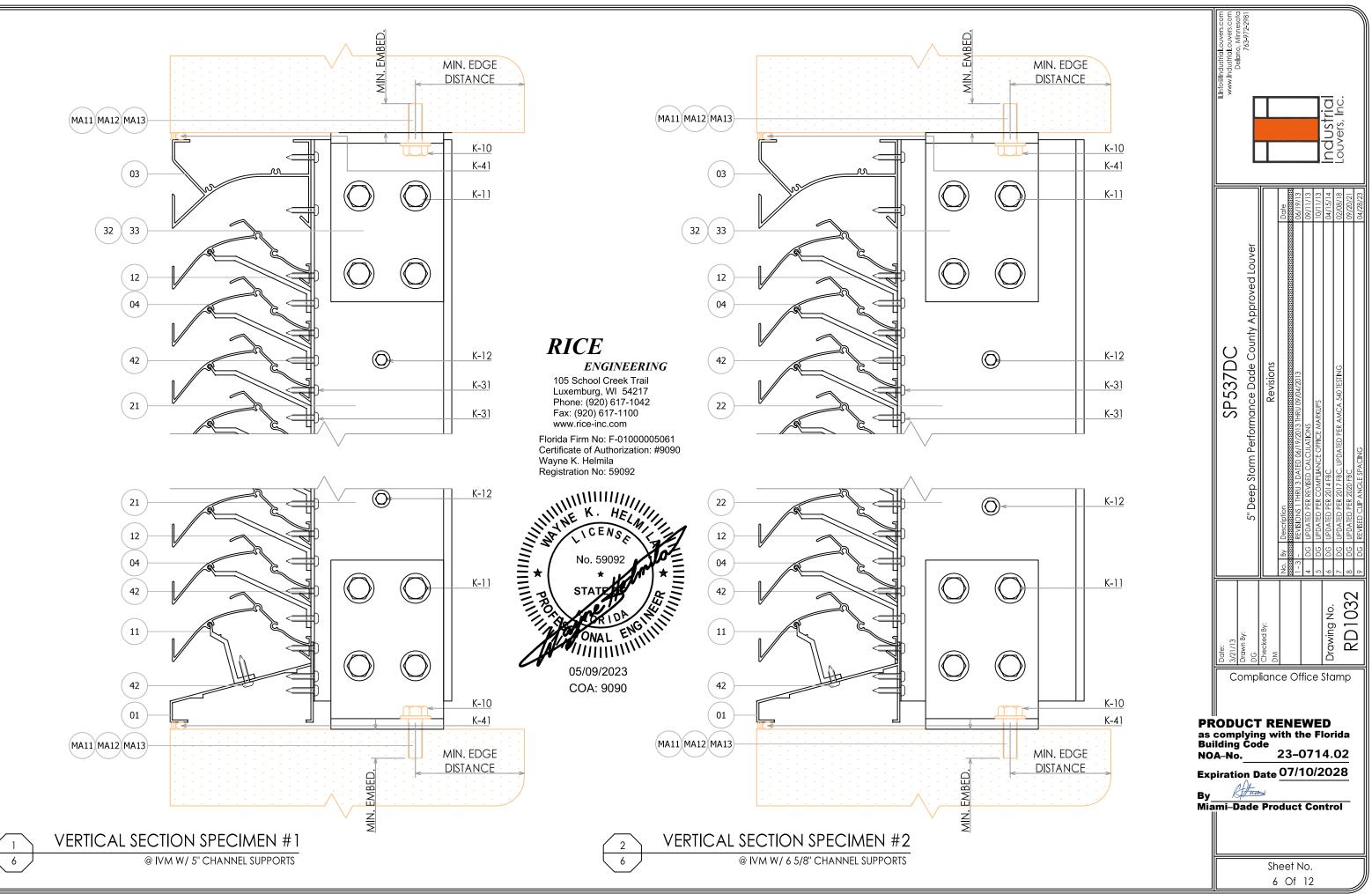


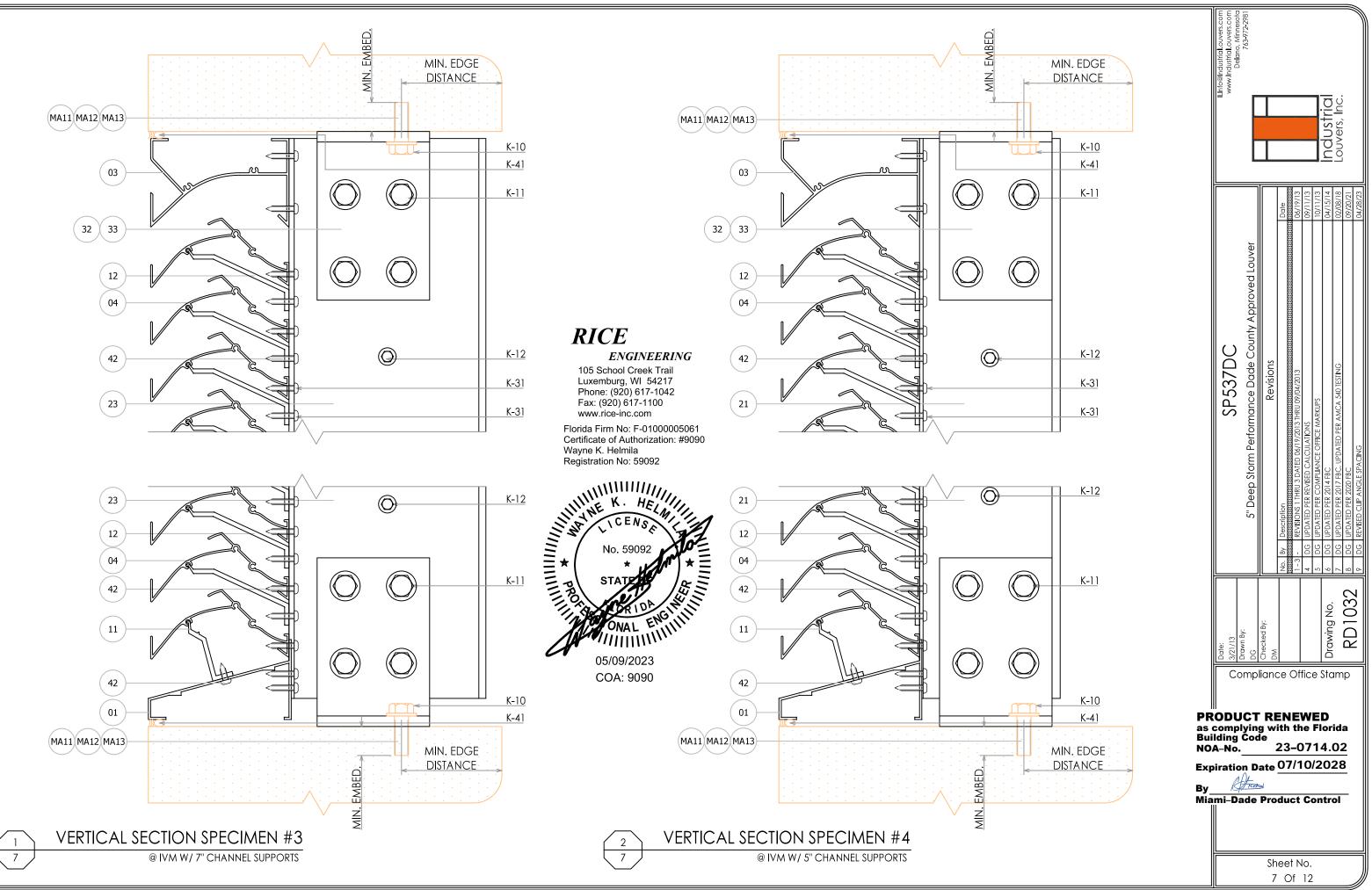


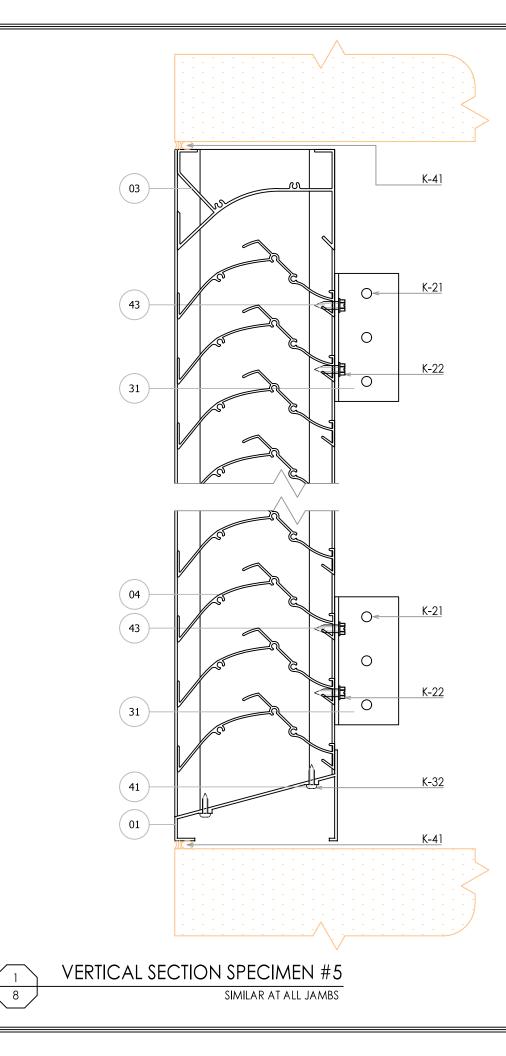


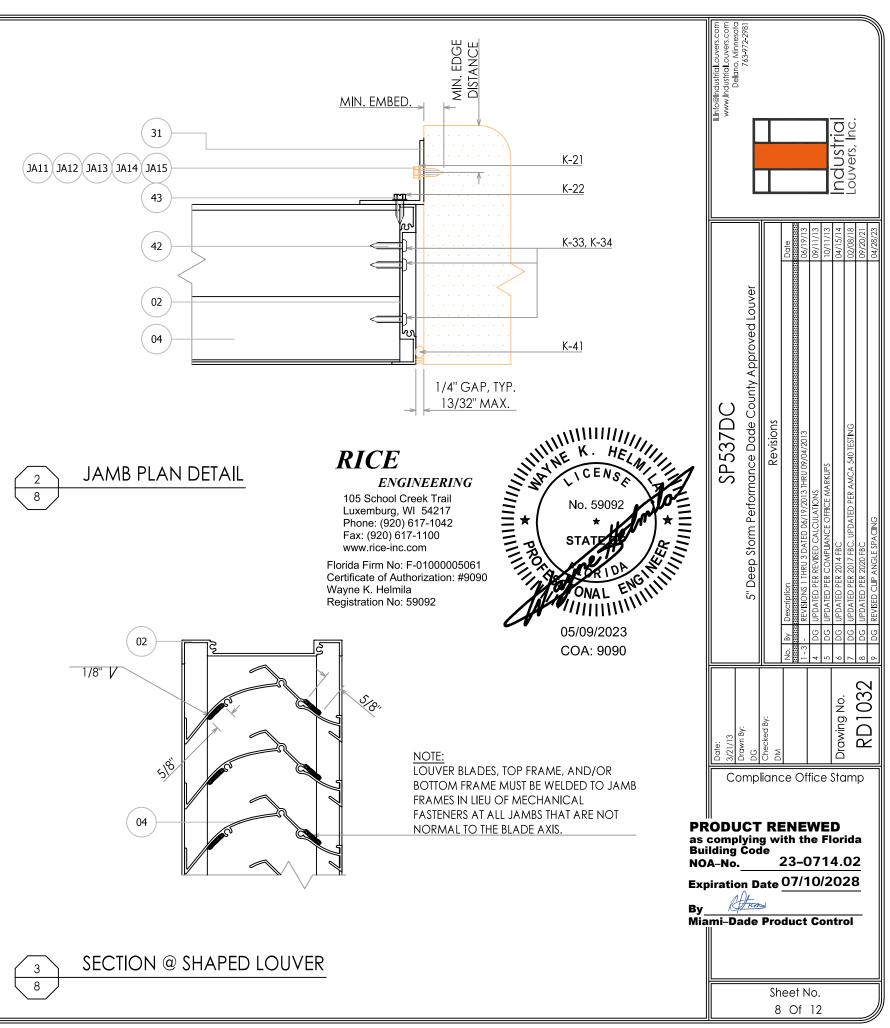


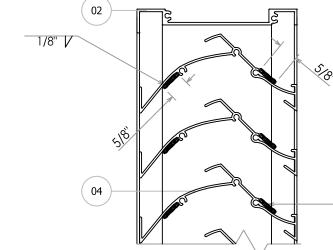
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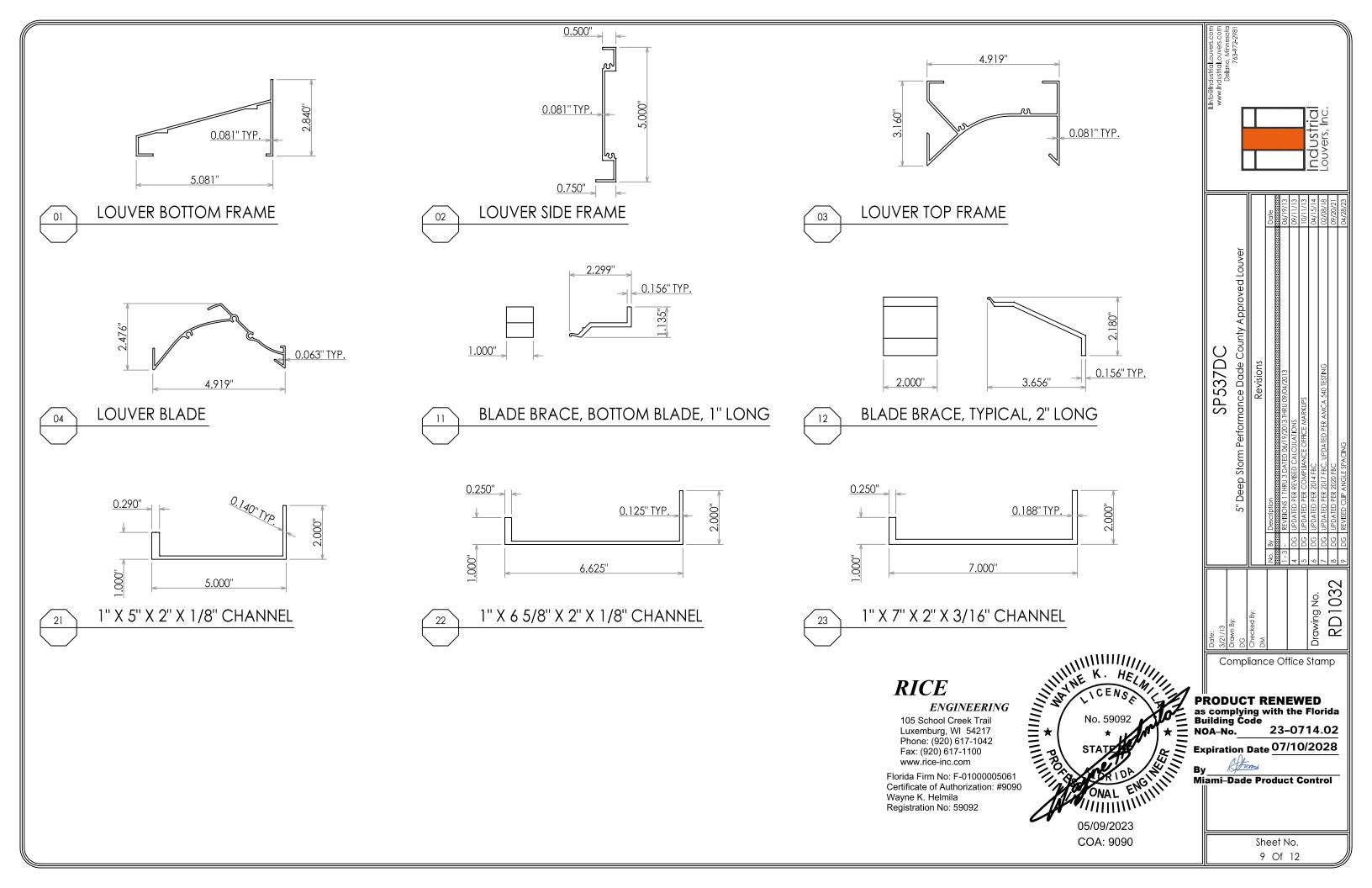


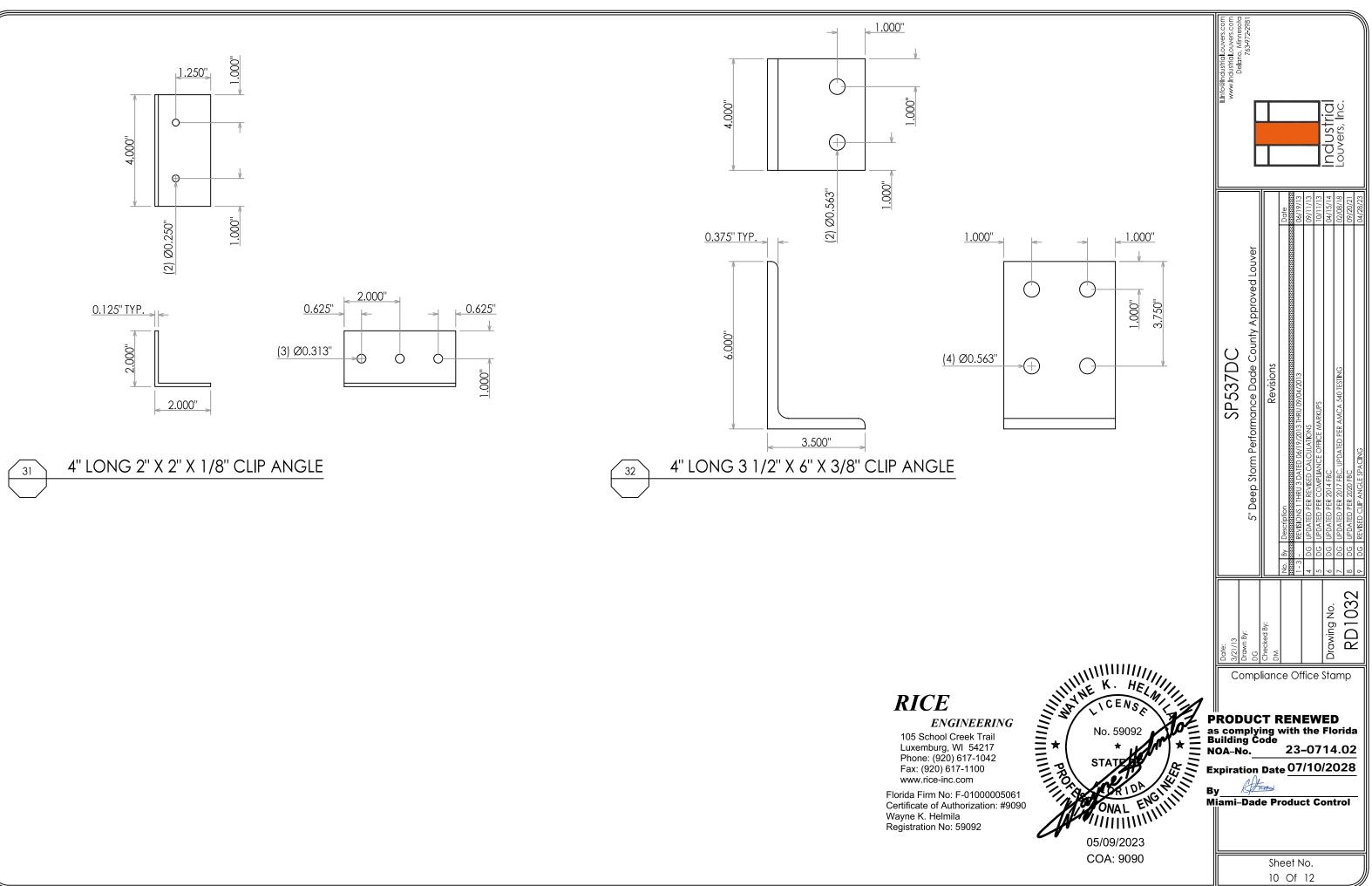


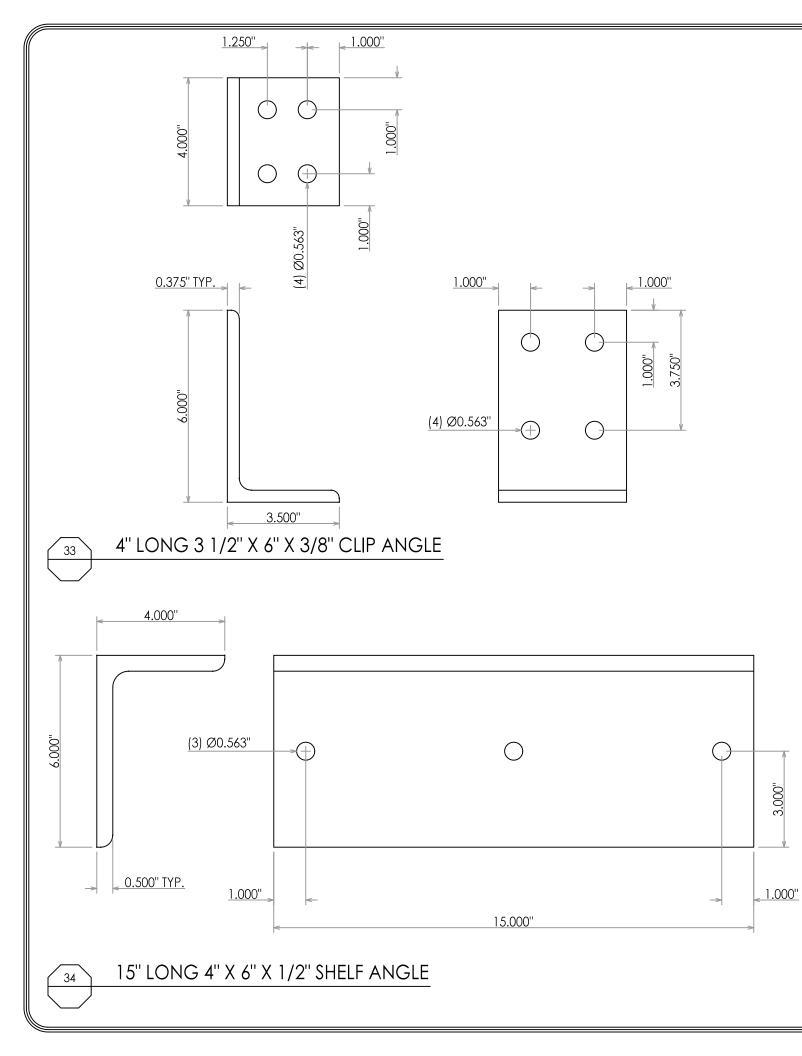












RICE ENGINEERING 105 School Creek Trail Luxemburg, WI 54217 Phone: (920) 617-1042 Fax: (920) 617-1100

www.rice-inc.com

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

Lundosfinatiouvers.com www.industriatiouvers.com Delano, Minnesota 763-972-2981 r63-972-2981 Industriat Louvers, Inc.
S" Deep Storm Performance Dade County Approved Louver 5" Deep Storm Performance Dade County Approved Louver S" Deep Storm Performance Dade County Approved Louver S" Deep Storm Performance Dade County Approved Louver Note: Secription Revisions Revisions No. By No. By No. By 1-3 Revisions 1-3 Revisions 1-3 D 1-4 D 1-5 D 1-6 UPDATED FER AMCA 540 TESTING 1-7 DG 1-7 DG 1-7 DG 1-7 DG 1-7 DG 1-7 DG 1-7 DG
Compliance Office Stamp

