



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

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION

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

www.miamidade.gov/economy

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-6174 Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **RD-363**, titled "DC-6174 LOUVER", sheets 1 through 8 of 8, dated 01/27/2006, with revision F dated 04/22/2024, 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 **revises NOA # 23-0103.04** and consists of this page 1 and evidence pages E-1, E-2, E-3 and E-4, as well as approval document mentioned above.

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




06/10/24

NOA No. 24-0516.14
Expiration Date: March 8, 2027
Approval Date: June 20, 2024
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. Evidence submitted under previous NOAs

A. DRAWINGS

1. Drawing No. **RD-363**, titled "DC-6174 LOUVER", sheets 1 through 8 of 8, dated 01/27/2006, prepared by Construction Specialties Inc., signed and sealed by L. David Rice, P.E. ***"Submitted under NOA # 11-1227.05"***
2. Drawing No. **RD-363**, titled "DC-6174 LOUVER", sheets 1 through 8 of 8, dated 01/27/2006, with revision D dated 11/22/2017, prepared by Construction Specialties Inc., signed and sealed by Wayne K. Helmila, P.E. ***"Submitted under NOA # 18-0117.09"***

B. TESTS *"Submitted under NOA # 06-1116.04"*

1. Test report on Uniform Static Air Pressure Test per FBC, TAS 202-94, Large Missile Impact Test per FBC, TAS 201-94 and Cyclic Wind Pressure Test per FBC, TAS 203-94 on Model DC-6174 Aluminum Louvers, prepared by Architectural Testing Inc., Test Report No. **64966.01-122-18**, dated 10/13/2006, signed and sealed by Joseph A. Reed, P.E.

C. CALCULATIONS *"Submitted under NOA # 11-1227.05"*

1. Anchorage and Span Table Calculations for Construction Specialties Louver Model DC-6174, prepared by Rice Engineering, dated 04/03/2012, signed and sealed by L. David Rice, P.E.
2. Anchorage calculations prepared by Rice Engineering, dated 03/07/2018, signed and sealed by Wayne K. Helmila, P.E. ***"Submitted under NOA #18-0117.09"***

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. None.

F. STATEMENTS *"Submitted under NOA #18-0117.09"*

1. Statement letter of code conformance to 6th 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 01/20/2017, signed and sealed by Wayne K. Helmila, P.E.

"Submitted under NOA # 14-1021.10"
3. Statement letter of code conformance to 5th edition (2014) FBC issued Rice Engineering, dated 09/26/2014, signed and sealed by L. David Rice, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0516.14
Expiration Date: March 8, 2027
Approval Date: June 20, 2024

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

2. Evidence submitted under NOA # 21-0125.05

A. DRAWINGS

1. Drawing No. **RD-363**, titled “DC-6174 LOUVER”, sheets 1 through 8 of 8, dated 01/27/2006, with revision D dated 11/22/2017, 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 7th edition (2020) FBC issued Rice Engineering, dated 11/11/2020, signed and sealed by Wayne K. Helmila, P.E.
2. Statement letter of no financial interest issued by Rice Engineering, dated 11/11/2020, signed and sealed by Wayne K. Helmila, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 24-0516.14
Expiration Date: March 8, 2027
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

3. Evidence submitted under NOA # 22-0202.05

A. DRAWINGS

1. Drawing No. **RD-363**, titled “DC-6174 LOUVER”, sheets 1 through 8 of 8, dated 01/27/2006, with revision D dated 11/22/2017, 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 near future verification testing, issued by Intertek, signed by T. McGill.
2. Statement letter of code conformance to 7th edition (2020) of the FBC, issued by Rice Engineering, dated 11/11/2020, signed and sealed by Wayne K. Helmila, P.E.



Carlos M. Utrera, P.E.
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NOA No. 24-0516.14
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. Evidence submitted under NOA # 23-0103.04 and new

A. DRAWINGS

1. Drawing No. **RD-363**, titled “DC-6174 LOUVER”, sheets 1 through 8 of 8, dated 01/27/2006, with revision F dated 04/22/2024, prepared by Construction Specialties Inc., signed and sealed by Wayne K. Helmila, P.E.

B. TESTS “Submitted under NOA # 23-0103.04”

1. Test report 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 DC-6174 Aluminum Louvers, prepared by Intertek, Report No. **N3749.01-109-18**, dated 08/10/2022, signed and sealed by Tanya A. Dolby, P.E.

C. CALCULATIONS

1. Anchorage calculations prepared by Rice Engineering, dated 04/18/2024, 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.

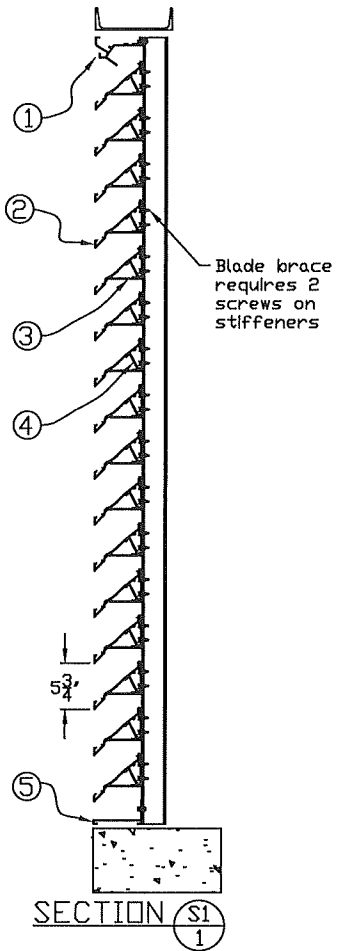
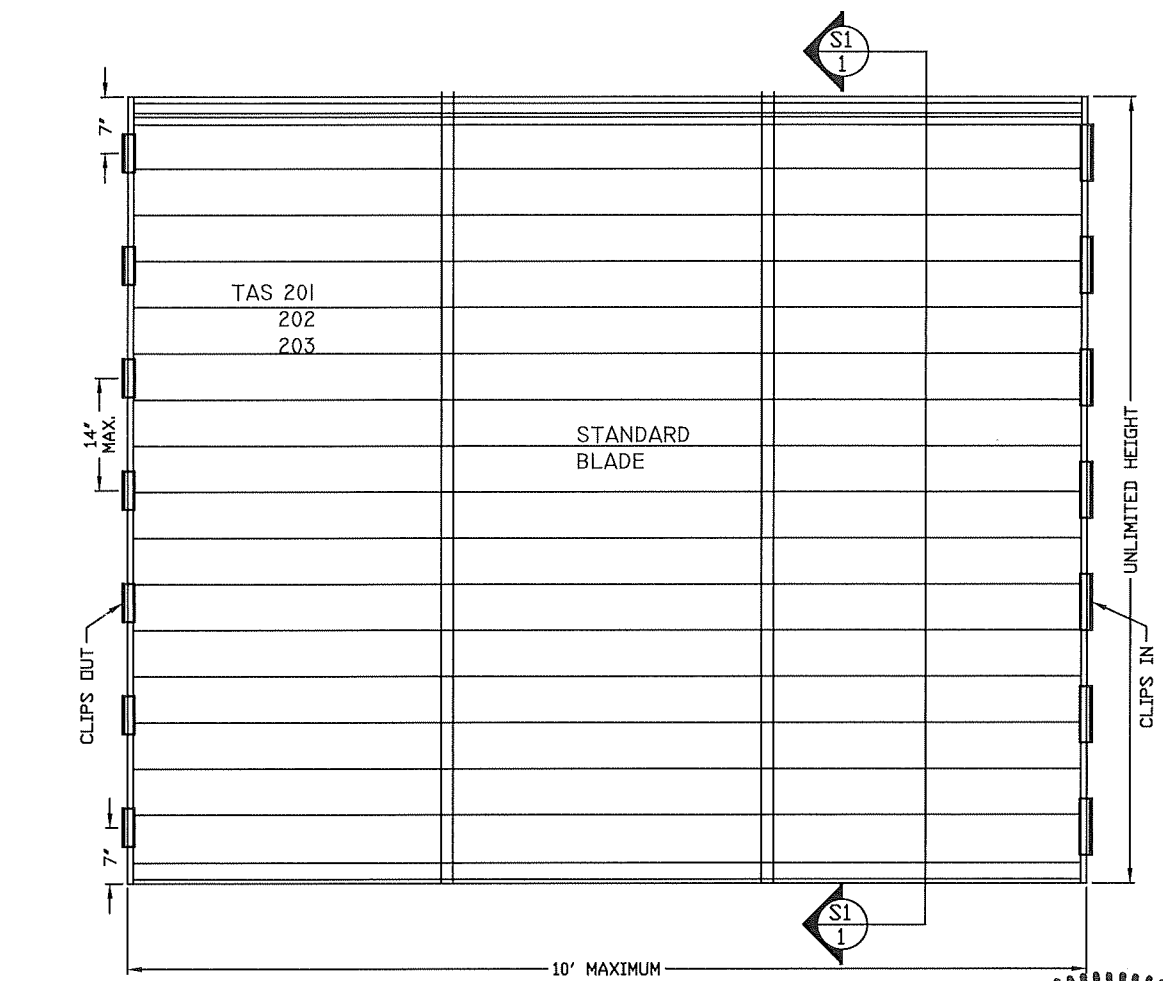
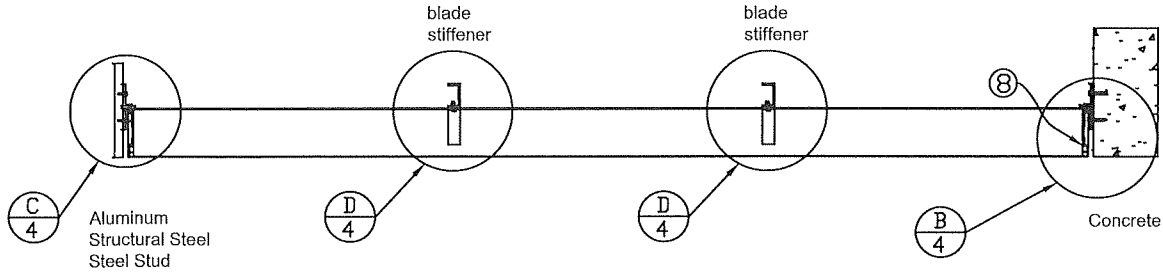
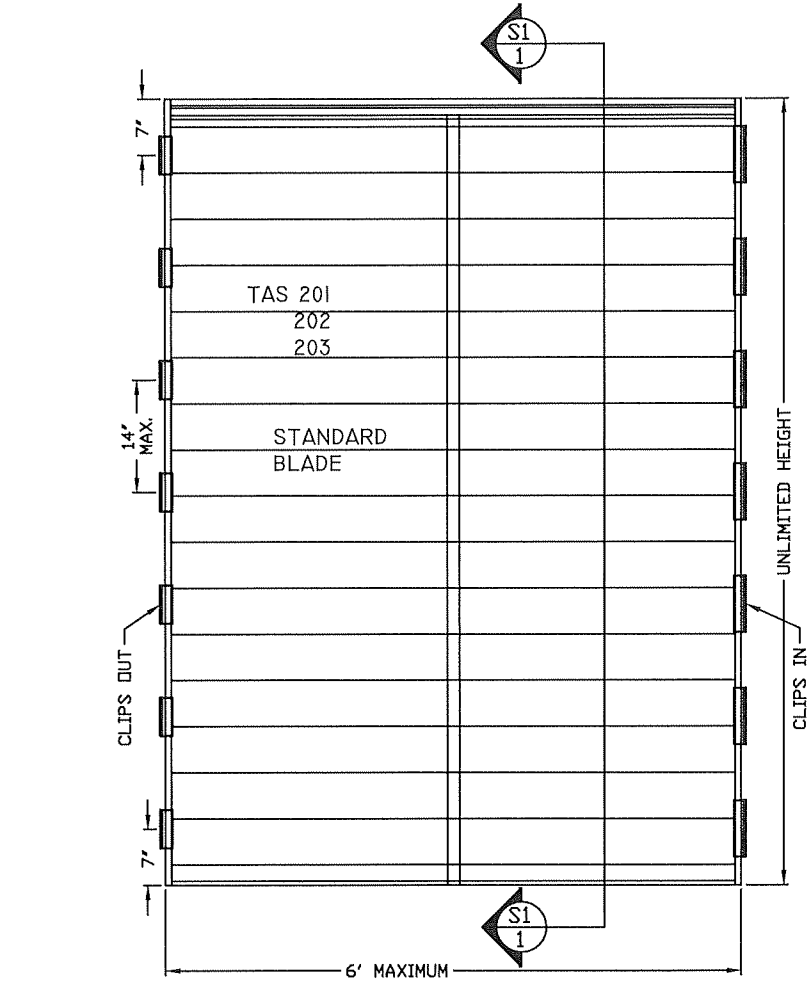
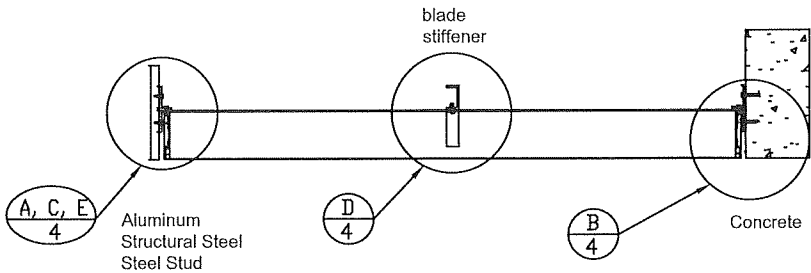
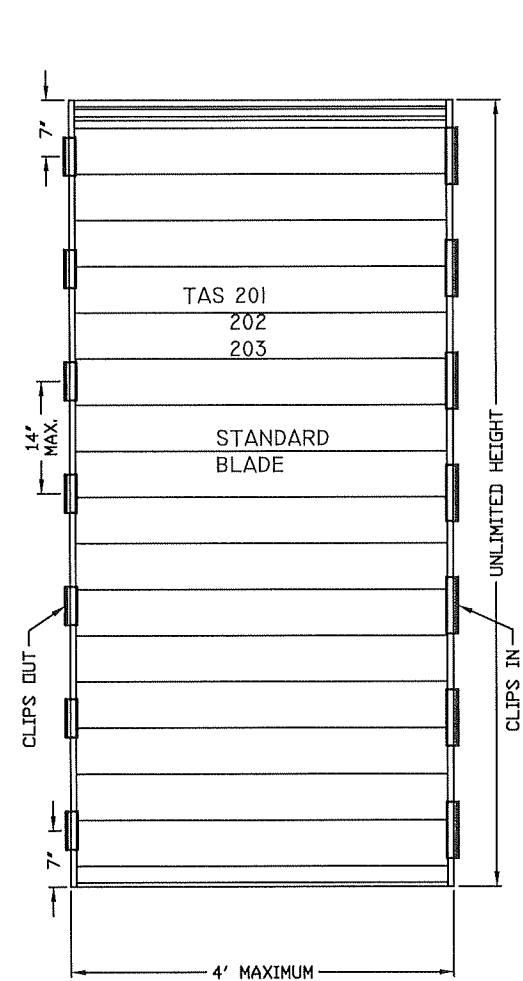
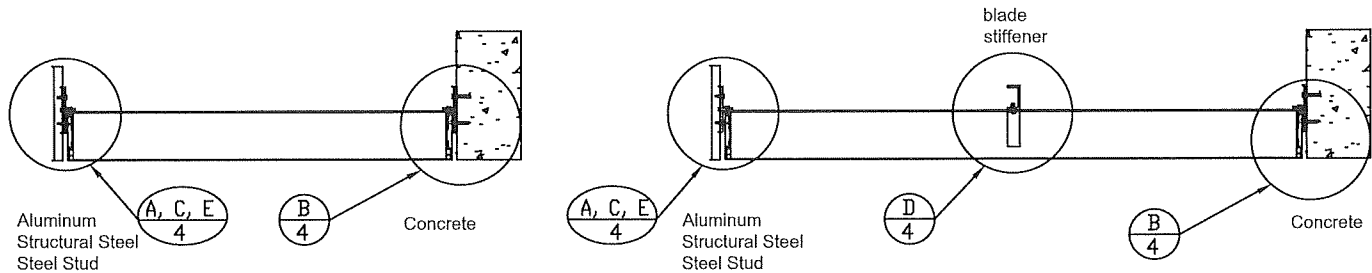
F. STATEMENTS

1. Statement letter of code conformance to 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 # 23-0103.04”
3. Statement letter of code conformance to 7th edition (2020) of the FBC, issued by Rice Engineering, dated 12/07/2022, signed and sealed by Wayne K. Helmila, P.E.
4. Statement letter of no financial interest, issued by Rice Engineering, dated 12/07/2022, signed and sealed by Wayne K. Helmila, P.E.



Carlos M. Utrera, P.E.
Product Control Examiner
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Revisions			
No.	Description	Date	By
D	UPDATE TO 2017 FBC	11-22-17	RCG
E	UPDATE TO 2020 FBC	04-20-21	RCG
F	UPDATE TO 2023 FBC	04-22-24	RCG



SPECIMEN 1 90 PSF
GENERAL NOTES:

SPECIMEN 2 120 PSF

SPECIMEN 3 100 PSF

- 1) It shall be the responsibility of the Structural Engineer of Record to verify the capacity of the structure to support the loads imposed by the louvers and ensure the correct steel and concrete thickness.
- 2) These louvers have been designed and tested in accordance with Dade County protocols TAS 201, TAS 202 and TAS 203.
- 3) All fasteners shall be stainless steel Series 300 Fasteners including Concrete fasteners.
- 4) All concrete substrate shall be a minimum of 4000 psi for jamb fasteners or 4000 psi for mullions.
- 5) Panel widths are as shown on sheet one and load tables. When installed in openings designed to withstand the loads imposed by the louvers, the height is unlimited, as long as there is no connection between the louver head and sill or stiffener to the structure.
- 6) When installed as mulled units, the mullions can be either hidden or visible. The mullion load tables control the distance between mullions and mullion heights.
- 7) The louver 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 waterproof or water resistant equipment, components or supplies.
- 8) Jamb clip spacing may not be altered. Each clip and fastener used must be detailed on the drawing and verified on the NOA.
- 9) The design of the louvers is according to the following codes and standards

The Florida Building Code
ADM - Aluminum Association Design Manual

- 10) Blades and Mullions of this louver are designed as "Pin End" connected to the building structure the structural Engineer of Record should design the building framing and it's members accordingly

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 24-0516.14

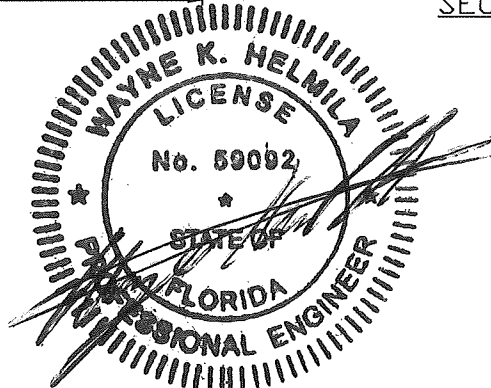
Expiration Date 03/08/2027

By 
Miami-Dade Product Control

RICE
ENGINEERING

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

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



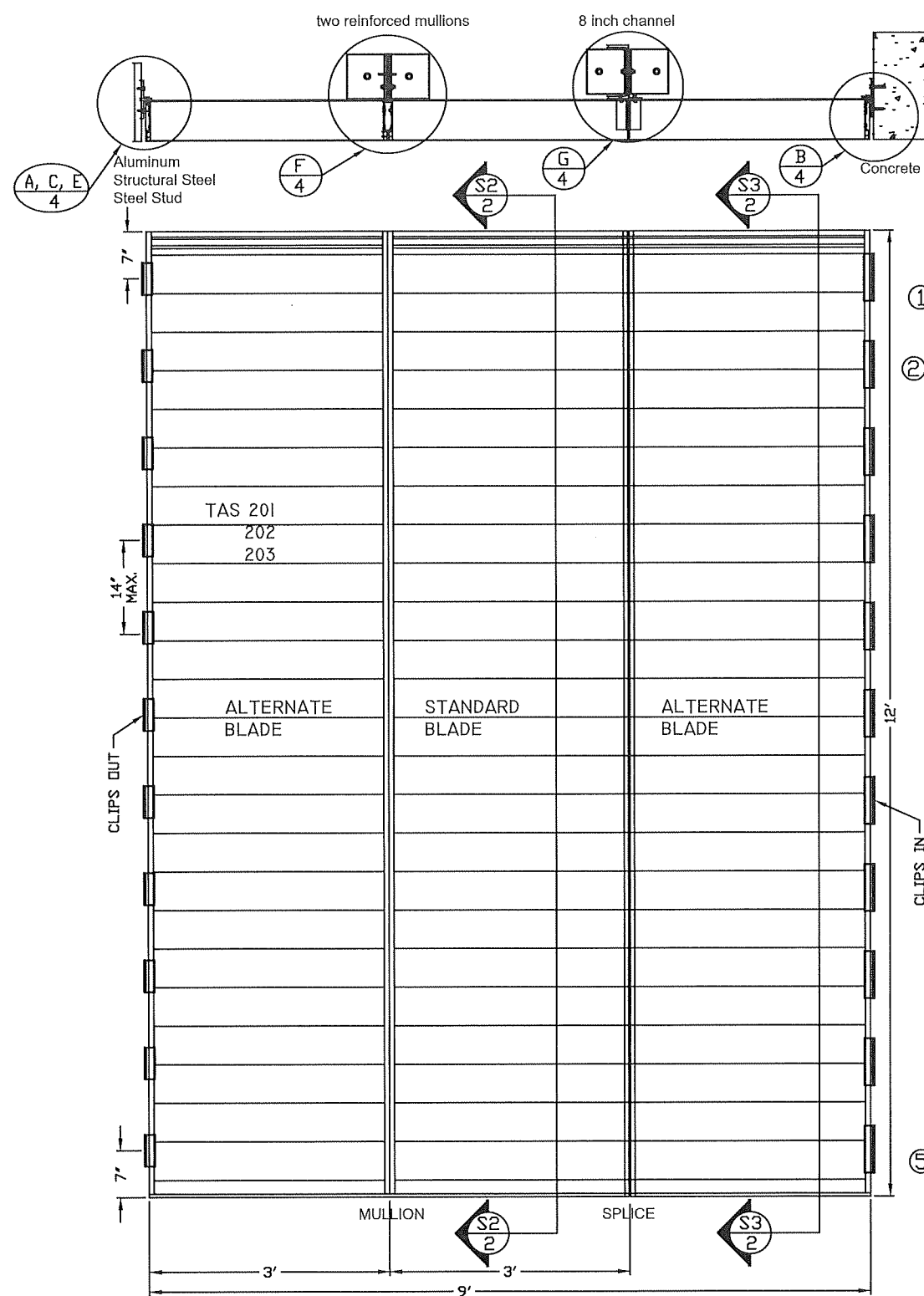
APR 29 2024



CONSTRUCTION SPECIALTIES, INC.

49 MEEKER AVENUE, CRANFORD, NEW JERSEY
PHONE: 1-800-631-7379 / FAX: 908-272-2920

PROJECT:	TITLE: DC - 6174 LOUVER
REVISION: F 04-22-2024	DATE: 1-27-06
SCALE: 1/2" = 1'	SHEET NUM: 1 OF 8
DRW BY: J. BLAKE	DRW NO: RD-363-1



SPECIMEN 4 170 PSF

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ENGINEERING

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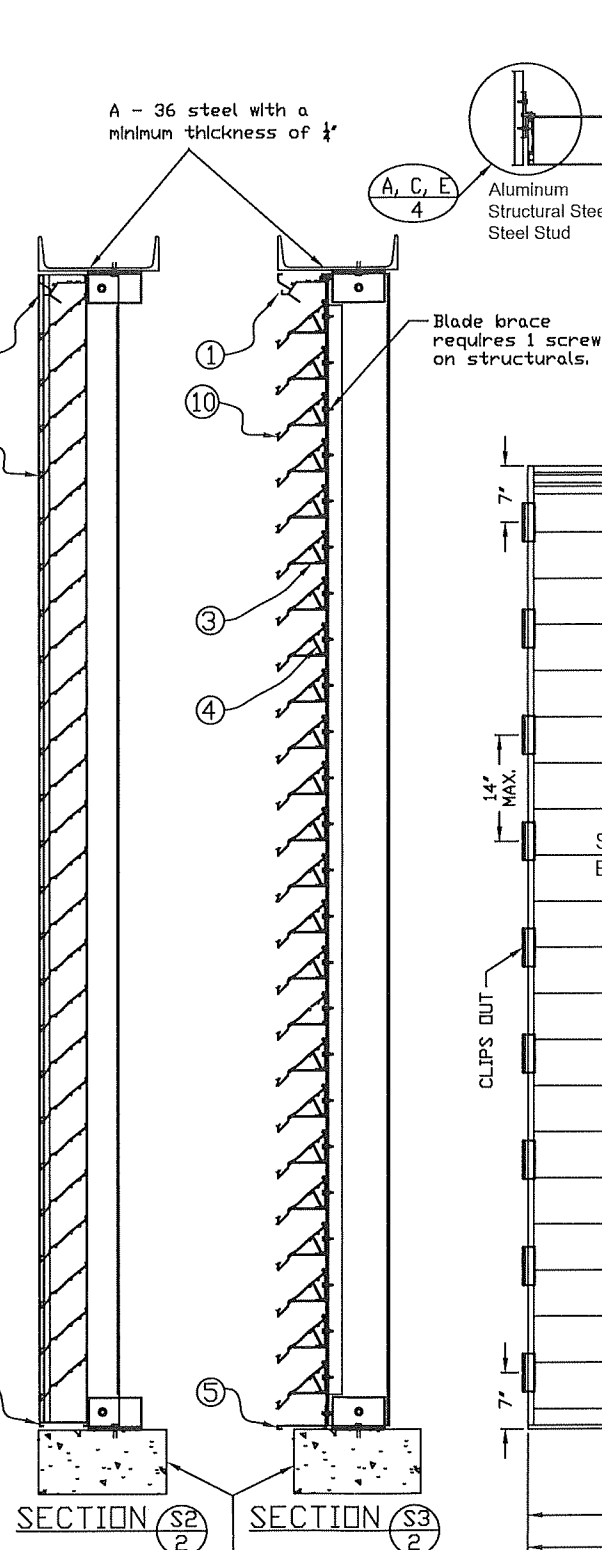
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PRODUCT REVISED
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Building Code

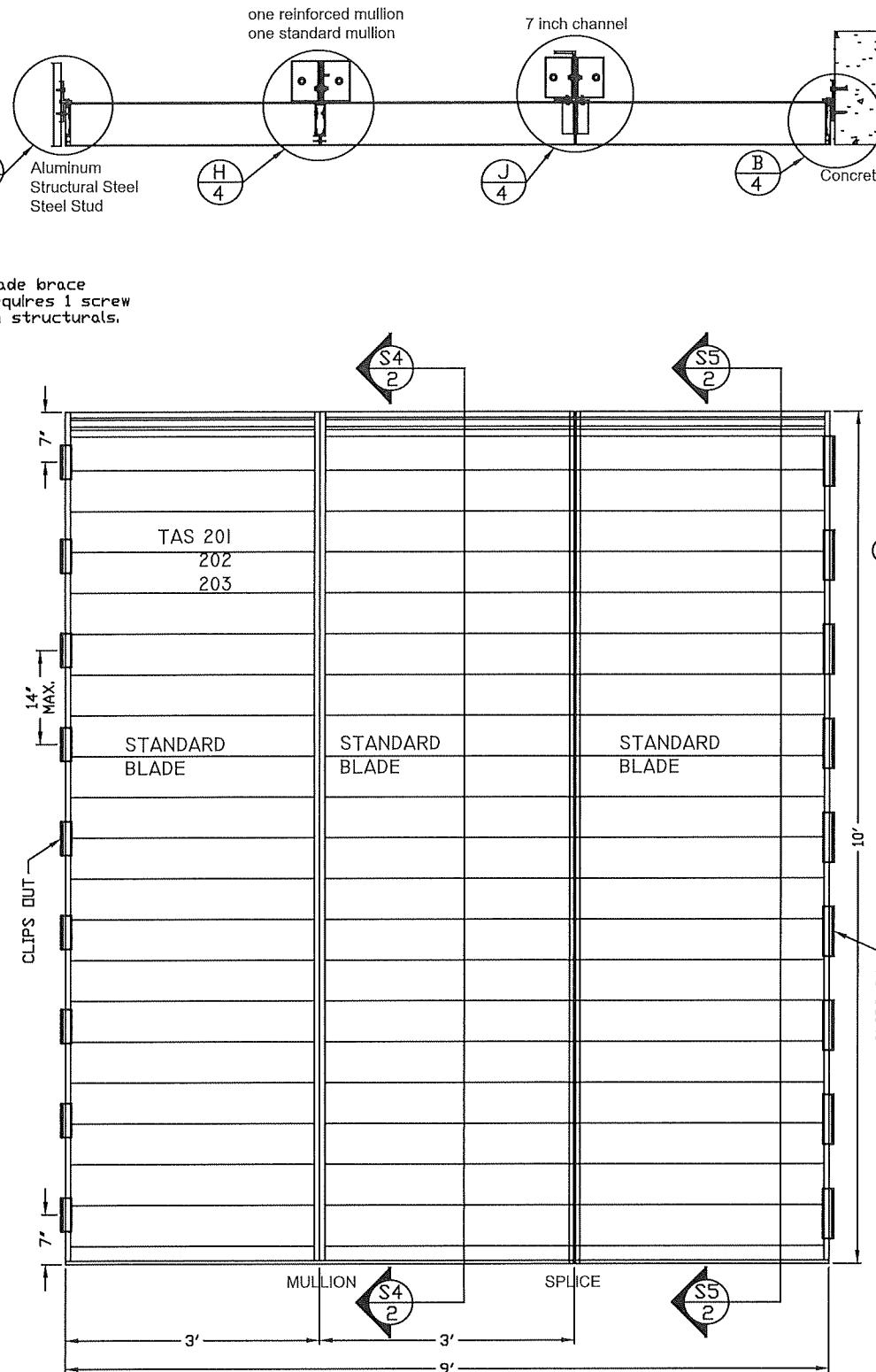
NOA-No. 24-0516.14

Expiration Date 03/08/2027

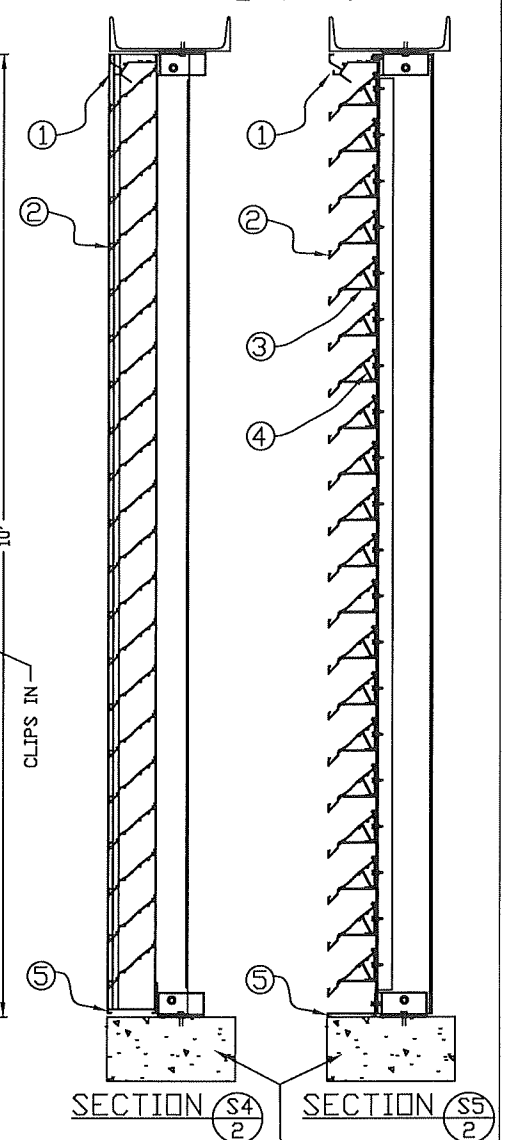
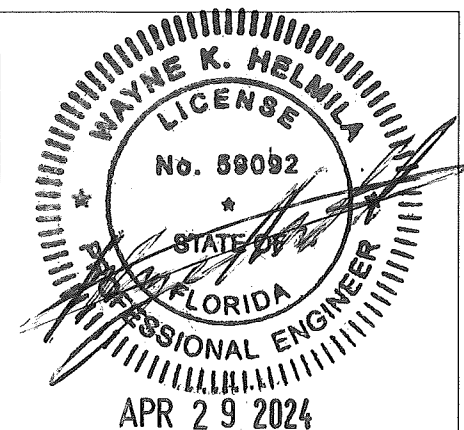
By *[Signature]*
Miami-Dade Product Control



Concrete Substrate
f'c = 4000 psi (min)
See Detail M/3 for
additional information



SPECIMEN 5 150 PSF




Concrete Substrate
f'c = 4000 psi (min)
See Detail M/3 for
additional information

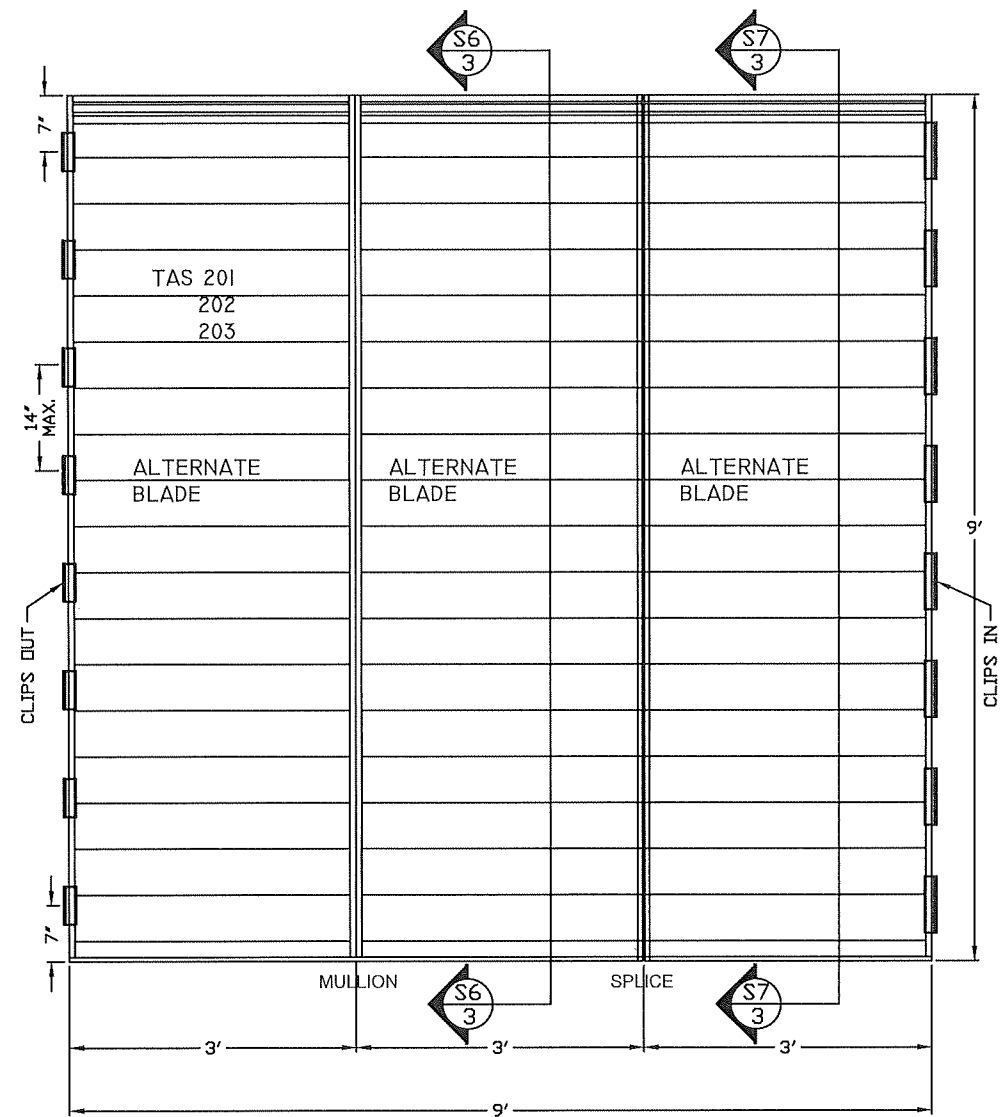
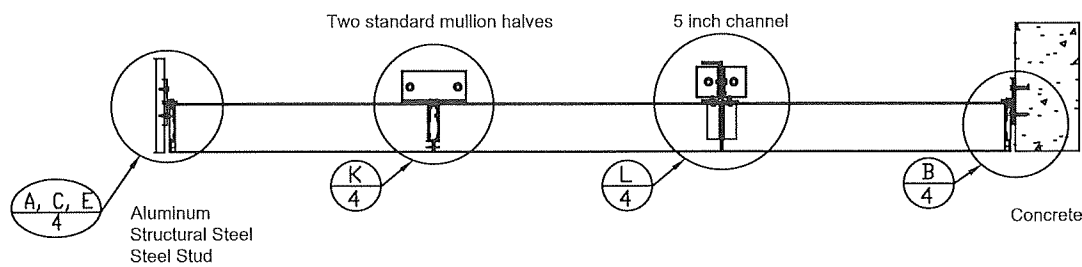
CS GROUP

CONSTRUCTION SPECIALTIES, INC.

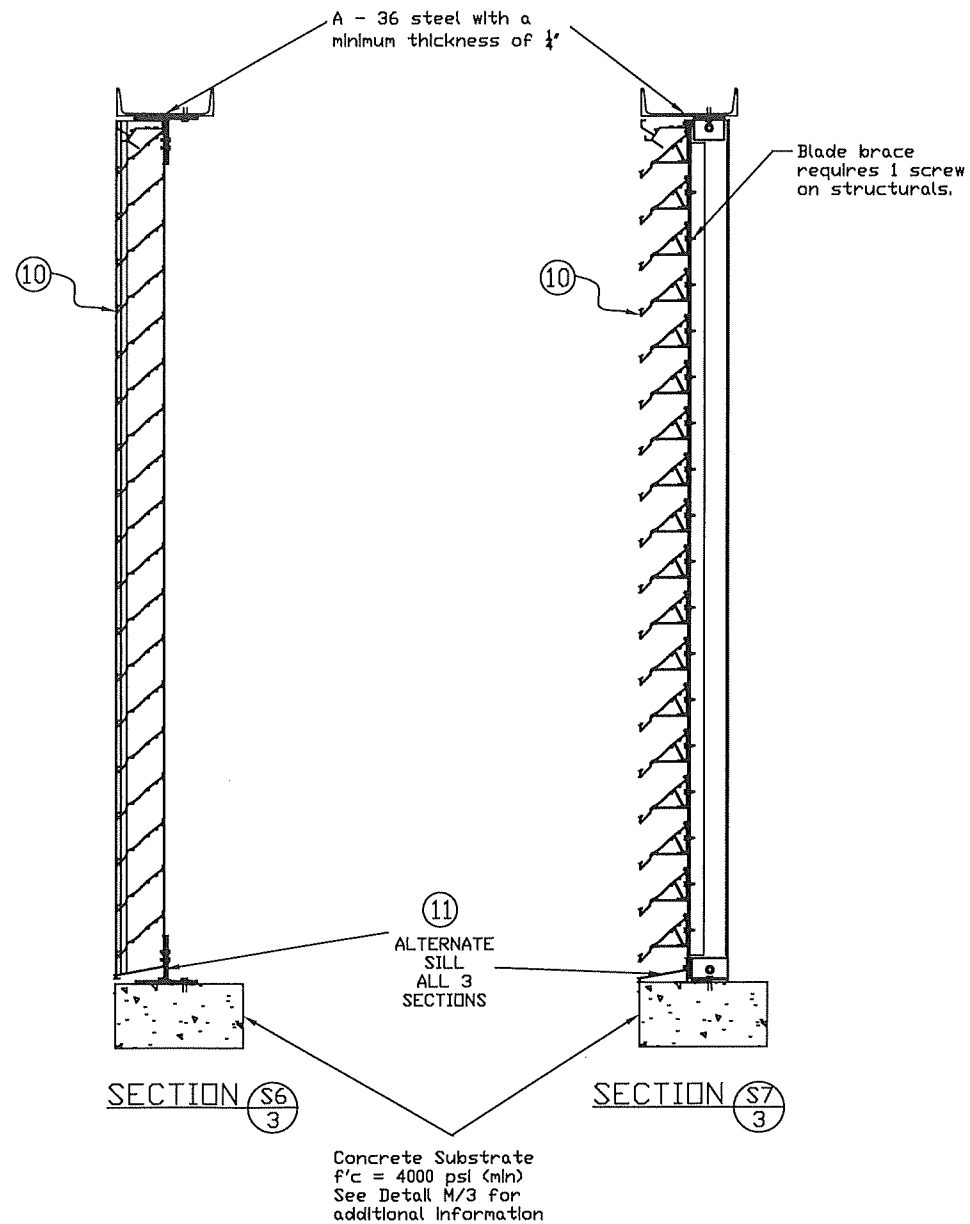
49 MEEKER AVENUE, CRANFORD, NEW JERSEY
PHONE: 1-800-631-7379 / FAX: 908-272-2920

PROJECT:	TITLE: DC- 6174 LOUVER
REVISION: F 04-22-2024	DATE: 1-27-06
SCALE: 1/2" = 1'	SHEET NUM: 2 OF 8
DRW BY: J. BLAKE	DRW NO: RD-363-2

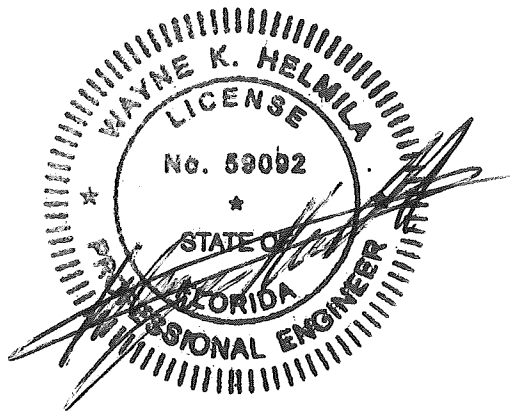
PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 24-0516.14
Expiration Date 03/08/2027
By 
Miami-Dade Product Control



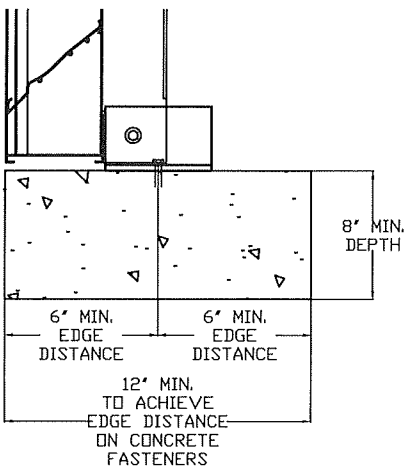
SPECIMEN 6 113 PSF



RICE
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Phone: (920) 617-1042
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Certificate of Authorization: #9090
Wayne K. Helmila
Registration No: 59092



APR 29 2024

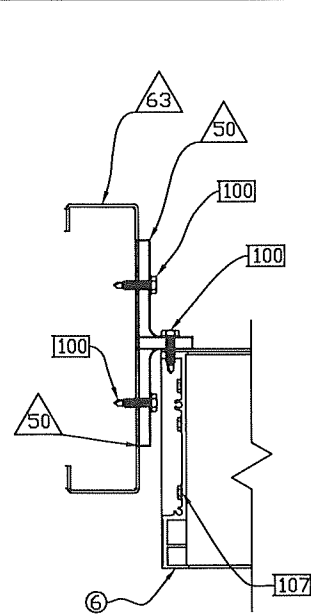


DETAIL M 3



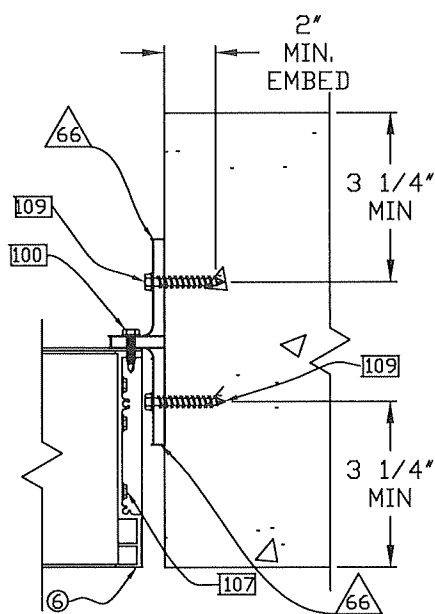
CONSTRUCTION SPECIALTIES, INC.
49 MEEKER AVENUE, CRANFORD, NEW JERSEY
PHONE: 1-800-631-7379 / FAX: 908-272-2920

PROJECT:	TITLE: DC-6174 LOUVER
REVISION: F 04-22-2024	DATE: 1-27-06
SCALE: 1/2" = 1'	SHEET NUM: 3 OF 8
DRW BY: J. BLAKE	DRW NO: RD-363-3



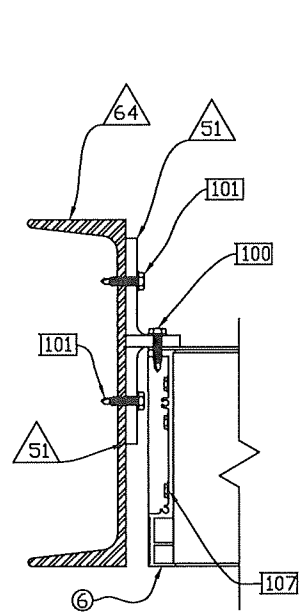
Detail A
SCALE: 1 1/2" = 1' 4

Steel Stud



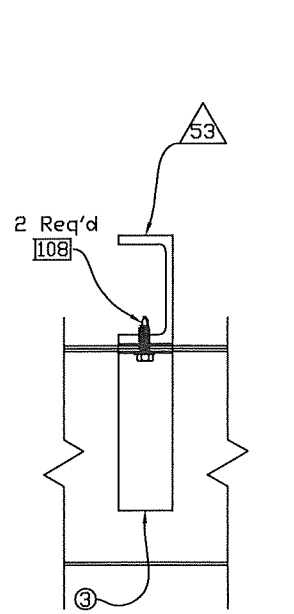
Detail B
SCALE: 1 1/2" = 1' 4

Concrete
4,000 Psi min.
min. 6" deep



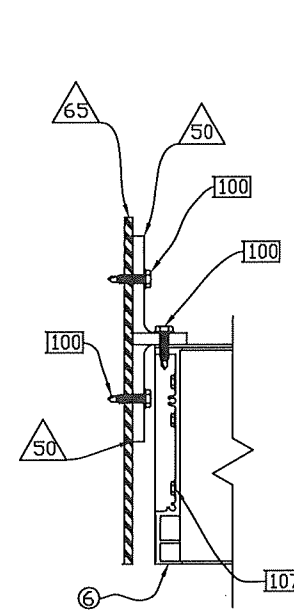
Detail C
SCALE: 1 1/2" = 1' 4

Structural Steel
(Any Shape)



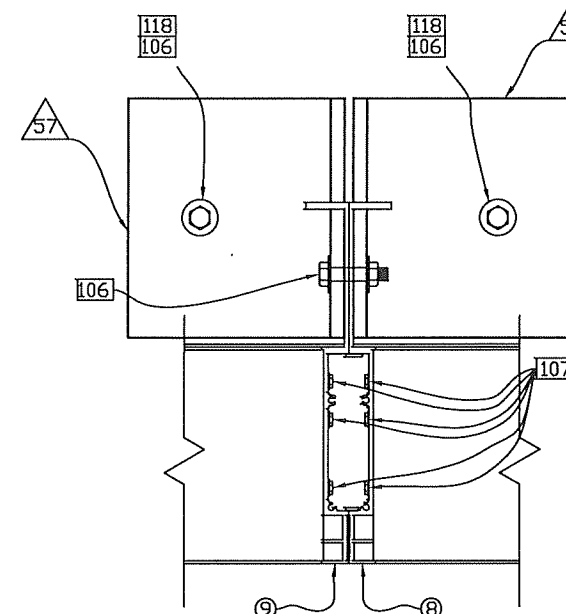
Detail D
SCALE: 1 1/2" = 1' 4

Stiffener not connected
to structure.



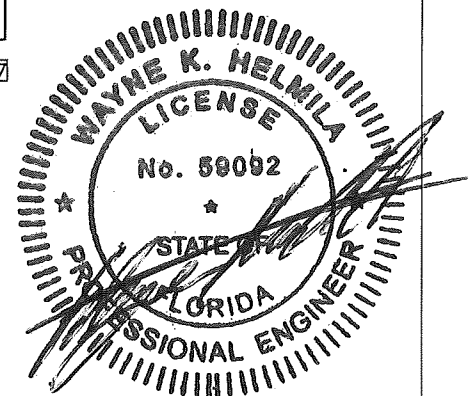
Detail E
SCALE: 1 1/2" = 1' 4

Aluminum (any shape)



Detail F
SCALE: 1 1/2" = 1' 4

SP-4
Two reinforced mullions.
Mullion is connected to structure.
Use parts 8 and 9.

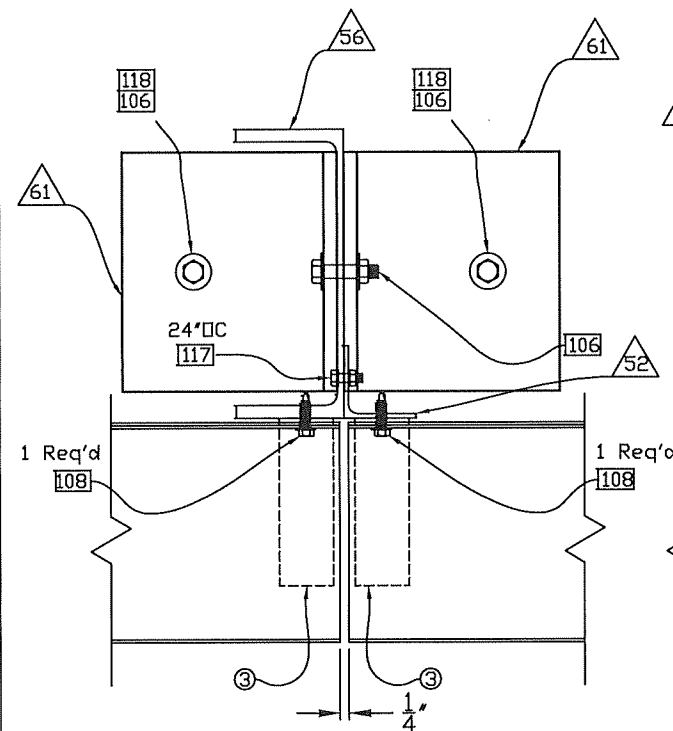


APR 29 2024

PRODUCT REVISED
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NOA-No. 24-0516.14

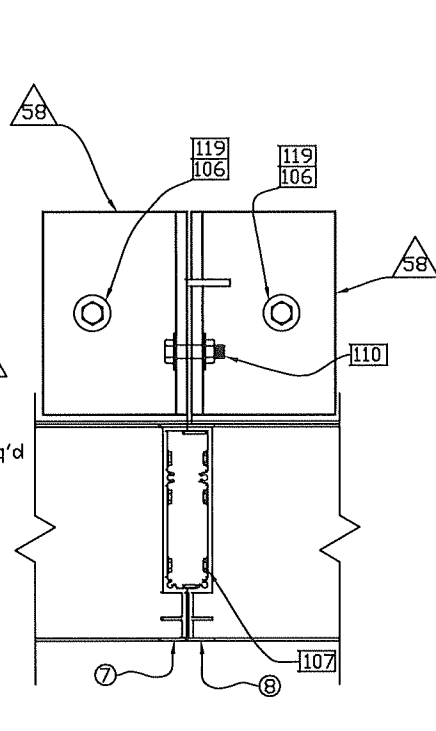
Expiration Date 03/08/2027

By *[Signature]*
Miami-Dade Product Control



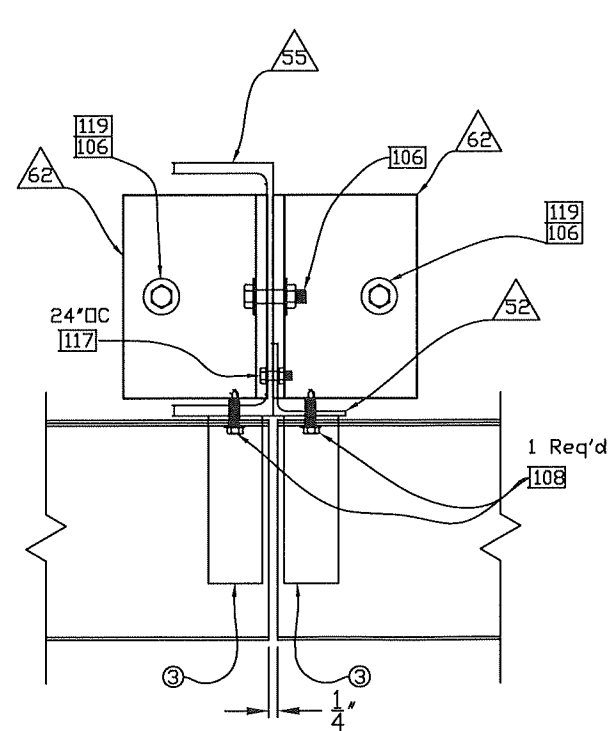
Detail G
SCALE: 1 1/2" = 1' 4

SP-4
One 8 inch channel.
Mullion connected to structure.
Use parts 56 and 52.



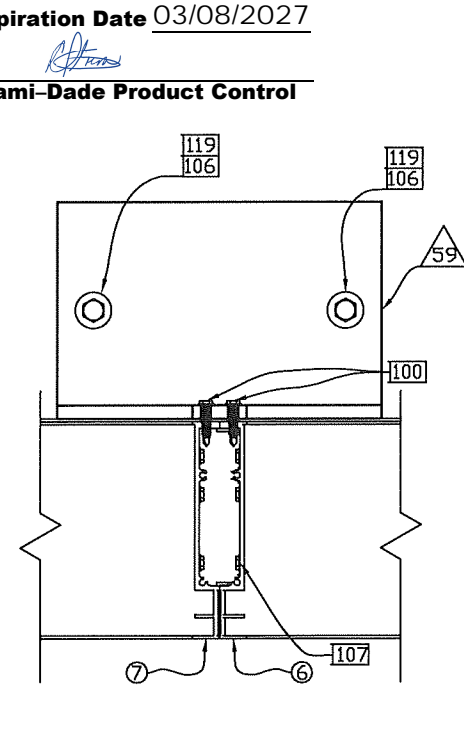
Detail H
SCALE: 1 1/2" = 1' 4

SP-5
One standard and
one reinforced mullion.
Mullion connected to structure.
Use parts 7 and 8.



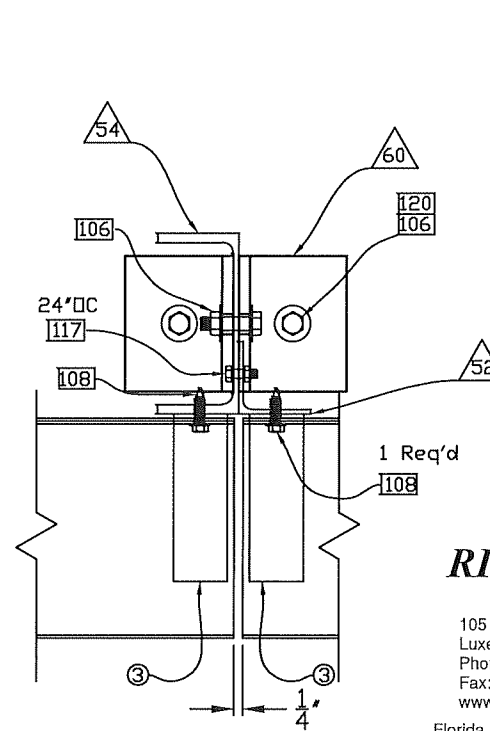
Detail J
SCALE: 1 1/2" = 1' 4

SP-5
One 7 inch channel.
Mullion connected to structure.
Use parts 55 and 52.



Detail K
SCALE: 1 1/2" = 1' 4

SP-6
Two standard mullion halves.
Mullion connected to structure.
Use parts 6 and 7.



Detail L
SCALE: 1 1/2" = 1' 4

SP-6
One 5 inch channel.
Mullion connected to structure.
Use parts 54 and 52.

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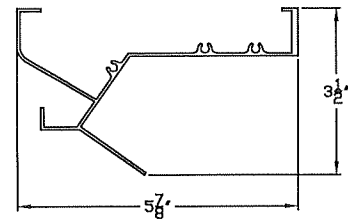
Florida Firm No: F-0100005061
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Wayne K. Helmila
Registration No: 59092



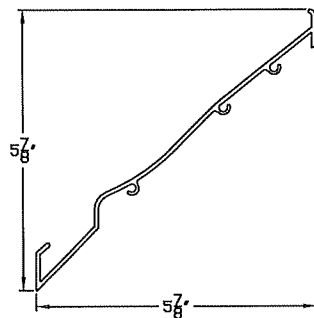
CONSTRUCTION SPECIALTIES, INC.

49 MEEKER AVENUE, CRANFORD, NEW JERSEY
PHONE: 1-800-631-7379 / FAX: 908-272-2920

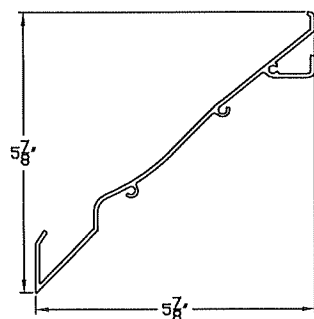
PROJECT:	TITLE: DC-6174 LOUVER
REVISION: F 04-22-2024	DATE: 1-27-06
SCALE: 3/4" = 1'	SHEET NUM: 4 OF 8
DRW BY: J. BLAKE	DRW NO: RD-363-4



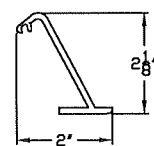
1 - Head



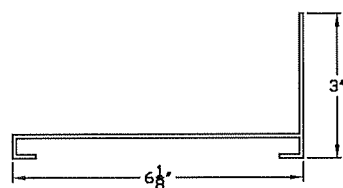
2 - Blade
Standard



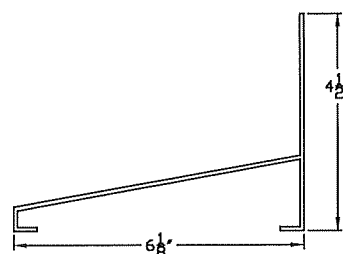
10 - Blade
Alternate



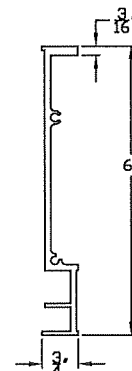
4 - Blade
Brace
Lock
(1 1/2" LG)



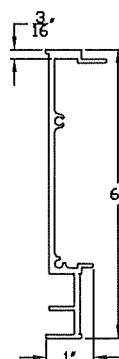
5 - Sill



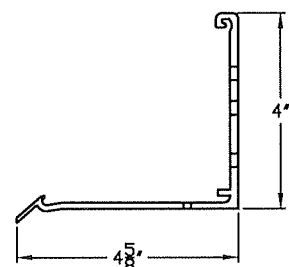
11 - Alternate Sill



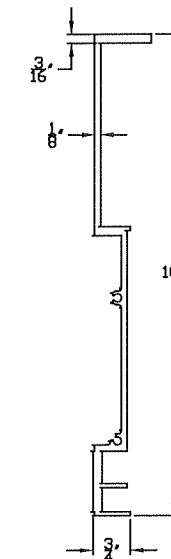
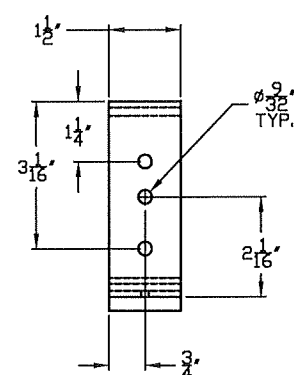
6 - Standard
Jamb/Mullion



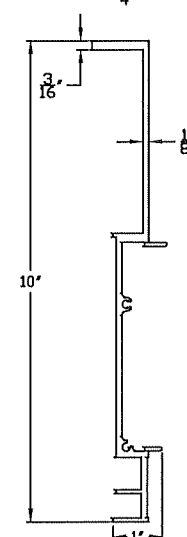
7 - Standard
Mullion Half



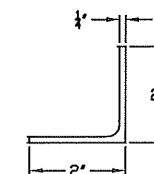
3 - Blade
Brace
(1 1/2" LG)



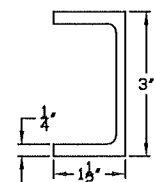
8 - Reinforced
Jamb



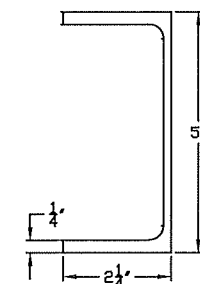
9 - Reinforced
Mullion



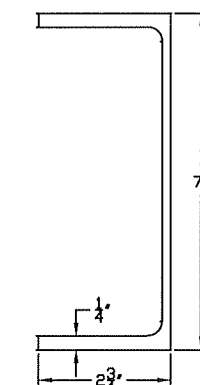
52 - Blade
Brace Carrier



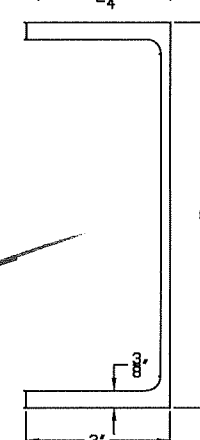
53 - 3"
channel



54 - 5"
channel



55 - 7"
channel

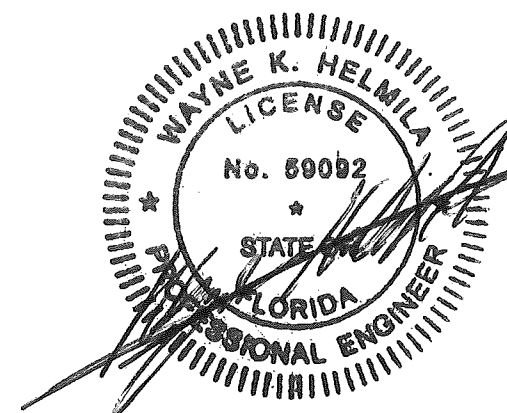


56 - 8"
channel

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 24-0516.14
Expiration Date 03/08/2027
By *[Signature]*
Miami-Dade Product Control

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

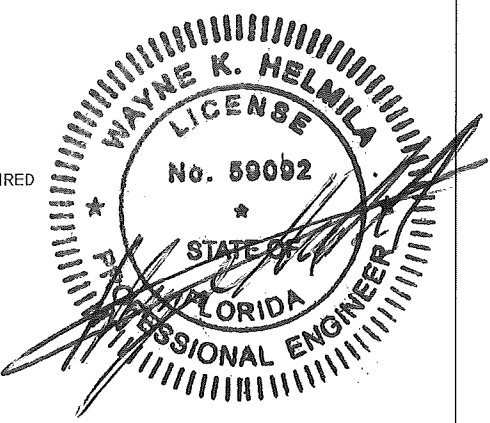
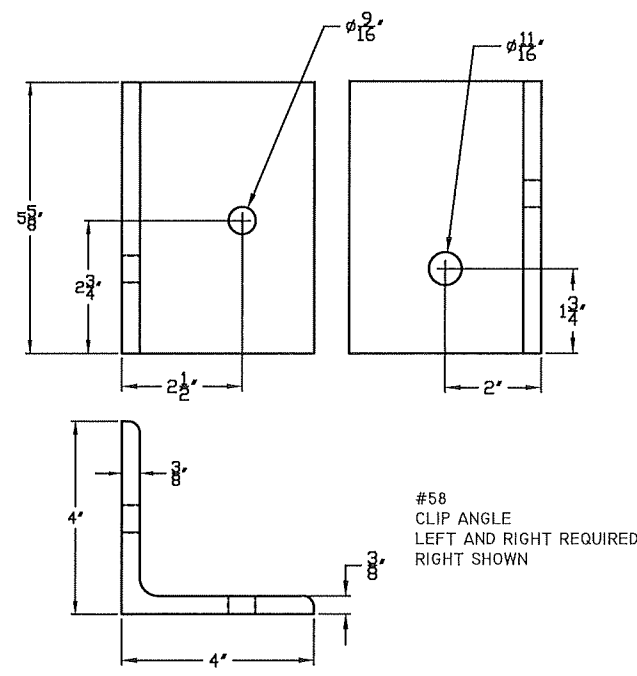
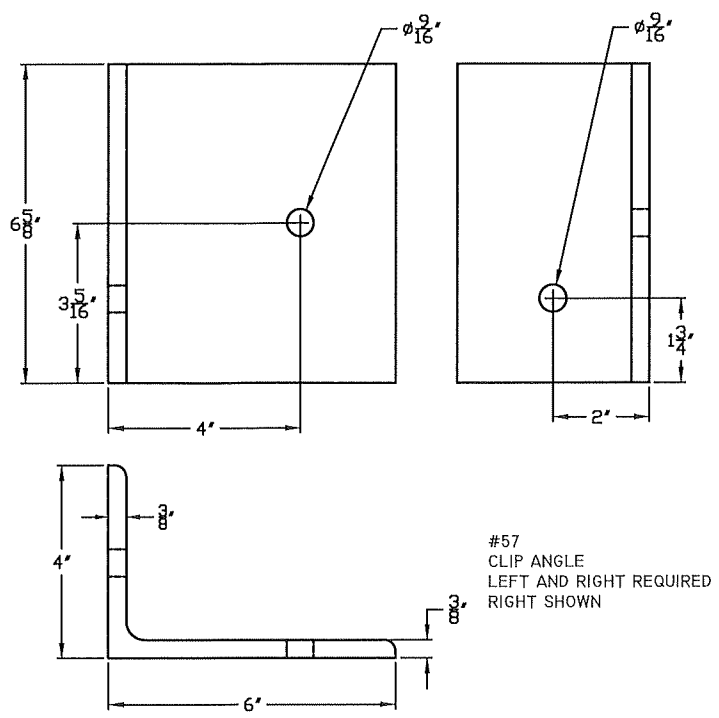
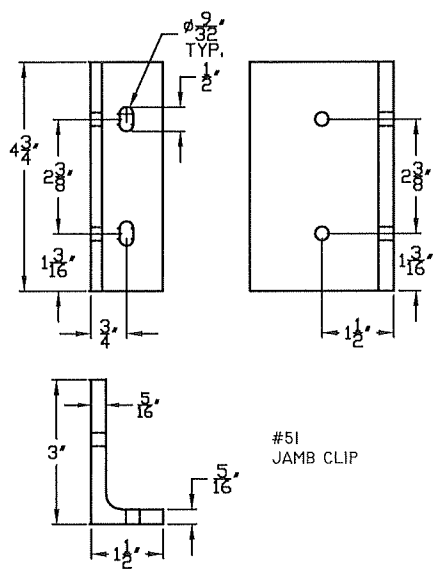
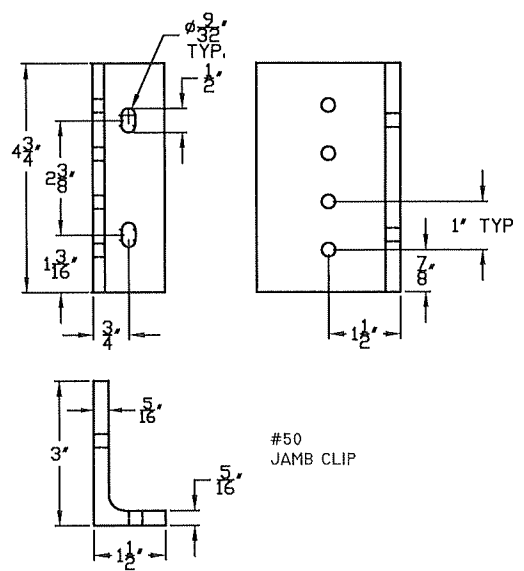


CONSTRUCTION SPECIALTIES, INC.
49 MEEKER AVENUE, CRANFORD, NEW JERSEY
PHONE: 1-800-631-7379 / FAX: 908-272-2920

PROJECT:	TITLE: DC-6174 LOUVER
REVISION: F 04-22-2024	DATE: 1-27-06
SCALE: 3" = 1'	SHEET NUM: 5 OF 8
DRW BY: J. BLAKE	DRW NO: RD-363-5

Parts

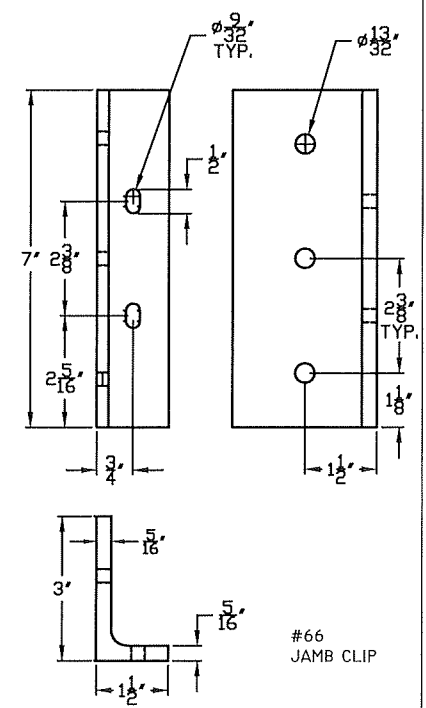
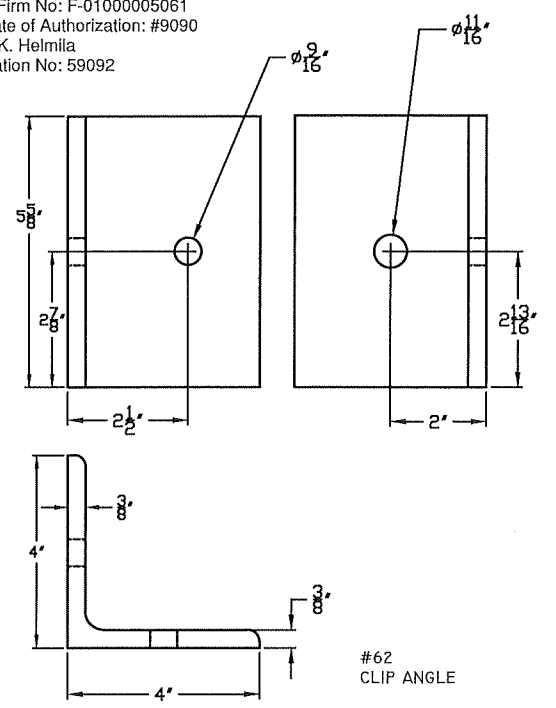
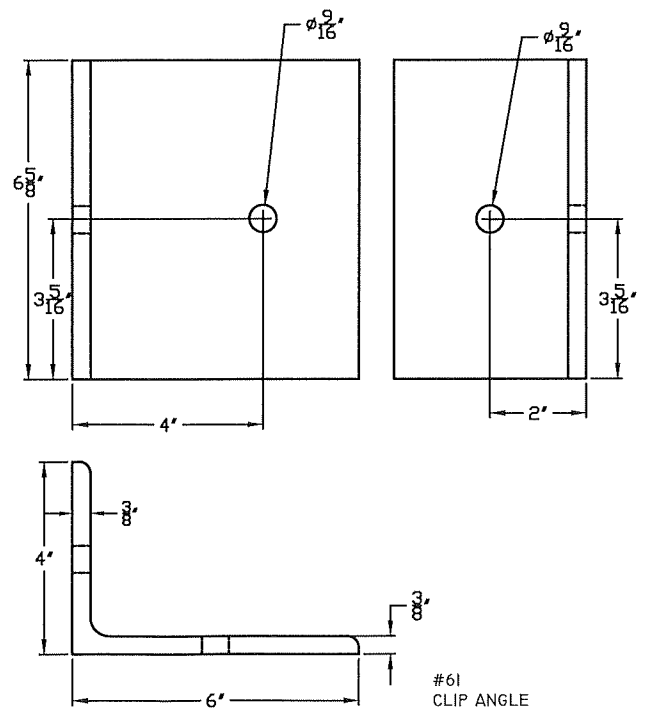
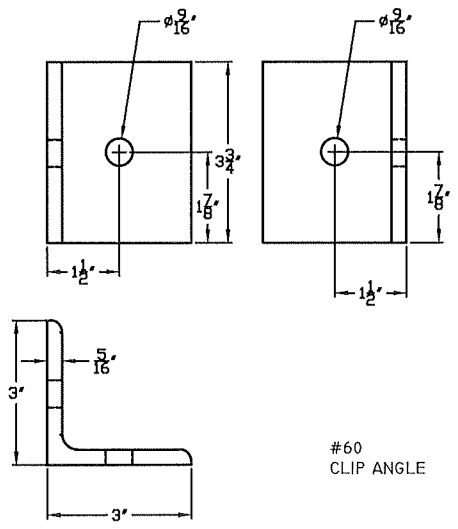
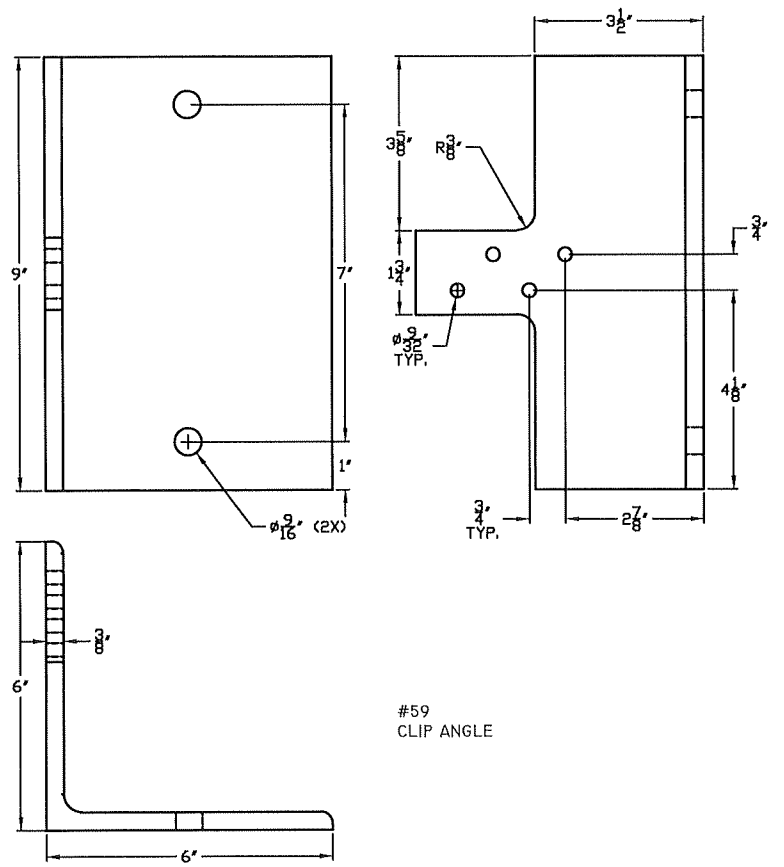
Revisions			
No.	Description	Date	By



APR 29 2024

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

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



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 24-0516.14
Expiration Date 03/08/2027
By *[Signature]*
Miami-Dade Product Control


Parts

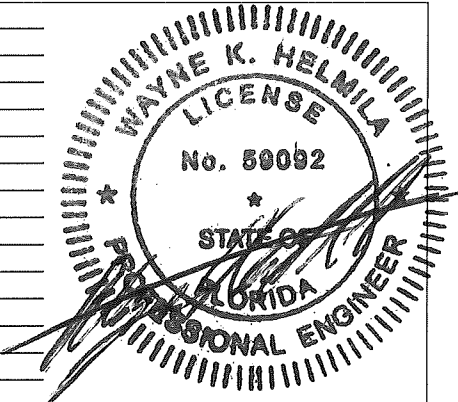


CONSTRUCTION SPECIALTIES, INC.
49 MEEKER AVENUE, CRANFORD, NEW JERSEY
PHONE: 1-800-631-7379 / FAX: 908-272-2920

PROJECT:	TITLE: DC-6174 LOUVER
REVISION: F 04-22-2024	DATE: 1-27-06
SCALE: 3" = 1'	SHEET NUM: 6 OF 8
DRW BY: J. BLAKE	DRW NO: RD-363-6

1	HEAD	PARTS LIST
2	BLADE - STANDARD	6063-T6 ALUMINUM 0.060 THK
3	BLADE BRACE	6063-T6 ALUMINUM 0.080 THK
4	BLADE BRACE LOCK	6063-T6 ALUMINUM 0.125 THK
5	SILL	6063-T6 ALUMINUM 0.125 THK
6	STANDARD JAMB	6063-T6 ALUMINUM 0.080THK
7	STANDARD MULLION HALF	6063-T6 ALUMINUM 0.125 THK
8	REINFORCED JAMB	6063-T6 ALUMINUM 0.080THK
9	REINFORCED MULLION HALF	6063-T6 ALUMINUM 0.125 THK
10	BLADE - ALTERNATE	6063-T6 ALUMINUM 0.080THK
11	ALTERNATE SILL	6063-T6 ALUMINUM 0.080THK

PRODUCT REVISED
as complying with the Florida
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NOA-No. 24-0516.14
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50	JAMB CLIP	3" x 1 1/2" x 5/16" x 4 3/4" LG 6061-T6 ALUMINUM FOR 16 GA STEEL STUDS AND 1/8" ALUMINUM
51	JAMB ANGLE	3" x 1 1/2" x 5/16" x 4 3/4" LG 6061-T6 ALUMINUM FOR STRUCTURAL STEEL
52	BLADE BRACE CARRIER	2" x 2" x 1/4" 6061-T6 ALUMINUM
53	3" AA CHANNEL	6061-T6 ALUMINUM - STIFFENER
54	5" AA CHANNEL	6061-T6 ALUMINUM
55	7" AA CHANNEL	6061-T6 ALUMINUM
56	8" AA CHANNEL	6061-T6 ALUMINUM
57	MULLION CLIP ANGLE	6" x 4" x 3/8" x 6 5/8" LG. 6061-T6 ALUMINUM - REINFORCED MULLION PAIRS
58	MULLION CLIP ANGLE	4" x 4" x 3/8" x 5 5/8" LG. 6061-T6 ALUMINUM - 1 REINFORCED MULLION AND 1 STANDARD MULLION
59	MULLION CLIP ANGLE	6" x 6" x 3/8" x 9" LG. 6061-T6 ALUMINUM - 2 STANDARD MULLIONS
60	MULLION CLIP ANGLE	3" x 3" x 5/16" x 3 3/4" LG. 6061-T6 ALUMINUM - 5" CHANNEL
61	MULLION CLIP ANGLE	6" x 4" x 3/8" x 6 5/8" LG. 6061-T6 ALUMINUM - 1 REINFORCED MULLION AND 1 STANDARD MULLION
62	MULLION CLIP ANGLE	4" x 4" x 3/8" x 5 5/8" LG. 6061-T6 ALUMINUM - 5" OR 7" CHANNEL
63	STEEL STUD	16 GA MINIMUM, Fy=33 ksi MINIMUM
64	STRUCTURAL STEEL (ANY SHAPE)	3/16" MIN. FOR JAMBS, 1/4" THK MIN. FOR HEADS/SILLS, A36 MINIMUM
65	ALUMINUM (ANY SHAPE)	1/8" THK MIN. ALLOY TO BE 6063-T5 OR BETTER
66	JAMB ANGLE	3" x 1 1/2" x 5/16" x 7" LG 6061-T6 ALUMINUM FOR CONCRETE

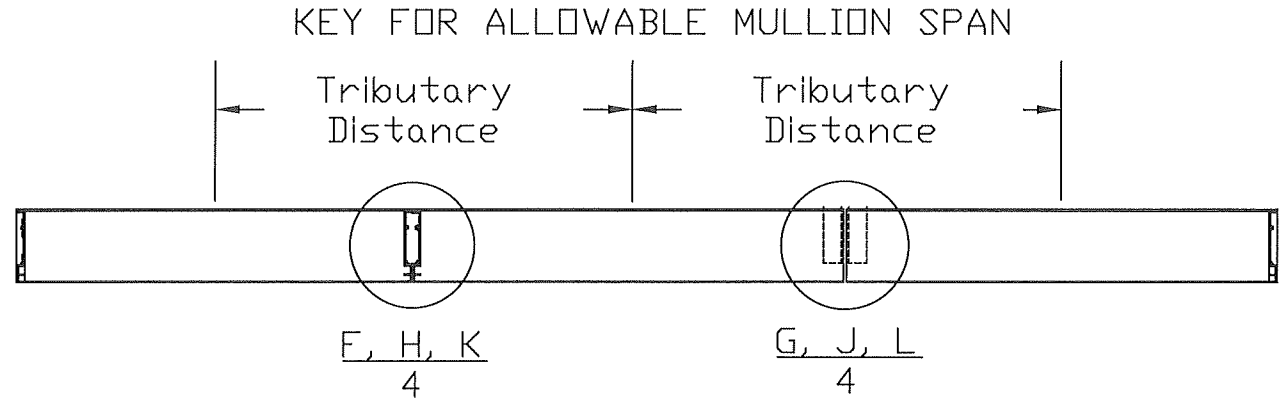
100	1/4-14 SCREW	THREAD FORMING OR SELF DRILLING - SERIES 300 S.S FASTENERS FOR ALUM. AND FOR 16 GA STEEL STUD
101	1/4-20 SCREW	S.S. SERIES 300 THREAD FORMING OR SELF DRILLING FOR STRUCTURAL STEEL

106	1/2" NUT AND BOLT	1/2 - 13 S.S. ALLOY GROUP 1, 2, OR 3 CONDITION CW WITH LOCK WASHER
107	#10 SCREW	#10 x 1 1/2" S.S. HEX WASHER HEAD ALLOY GROUP 1, 2, OR 3
108	1/4-14 x 3/4" SCREW	STAINLESS STEEL THREAD CUTTING B POINT
109	3/8" HILTI KWIK HUS-EZ	316 STAINLESS STEEL FOR CRACKED CONCRETE, 3-1/4" MIN. EDGE DIST., 2" MIN. EMBED.
110	5/8" NUT AND BOLT	5/8 - 11 S.S. ALLOY GROUP 1,2,OR 3 CONDITION CW WITH LOCK WASHER
117	1/4-20 BOLT	1/4-20 SS NUT, BOLT AND LOCKWASHER
118	1/2" HILTI KWIK BOLT T22	FOR CRACKED CONCRETE ONLY - S.S. SERIES 300 - 3-1/4" MIN. EMBEDMENT, 6" MIN. EDGE DISTANCE
119	1/2" HILTI KWIK BOLT T22	FOR CRACKED CONCRETE ONLY - S.S. SERIES 300 - 2-1/2" MIN. EMBEDMENT, 6" MIN. EDGE DISTANCE
120	3/8" HILTI KWIK BOLT T22	FOR CRACKED CONCRETE ONLY - S.S. SERIES 300 - 2" MIN. EMBEDMENT, 6" MIN. EDGE DISTANCE

ALLOWABLE SPAN IN FEET FOR SPECIMEN 6 VISIBLE AND INVISIBLE MULLION - DETAIL K/4 AND L/4															
Tributary Distance For Each Mullion	Design Wind load PSF														
	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170
	24	9	9	9	9	9	9	9	9	9	9	9	9	9	9
	30	9	9	9	9	9	9	9	9	9	9	8.7	8.1	7.6	7.2
	36	9	9	9	9	9	9	9	9	8.5	7.8	7.3	6.8	6.4	6
	42	9	9	9	9	9	9	8.7	7.9	7.3	6.7	6.2	5.8	5.4	5.1
	48	9	9	9	9	9	8.5	7.6	6.9	6.4	5.9	5.4	5.1	4.8	4.5
	54	9	9	9	9	8.5	7.5	6.8	6.2	5.7	5.2	4.8	4.5	4.2	4
	60	9	9	9	9	8.7	7.6	6.8	6.1	5.5	4.7	4.4	4.1	3.8	3.6
	66	9	9	9	9	7.9	6.9	6.2	5.5	5	4.6	4.3	4	3.7	3.3
	72	9	9	9	8.5	7.3	6.4	5.7	5.1	4.6	4.2	3.9	3.6	3.4	3
	78	9	9	9	7.8	6.7	5.9	5.2	4.7	4.3	3.9	3.6	3.4	3.1	2.9
	84	9	9	8.7	7.3	6.2	5.4	4.8	4.4	4	3.6	3.4	3.1	2.9	2.7
	90	9	9	8.1	6.8	5.8	5.1	4.5	4.1	3.7	3.4	3.1	2.9	2.7	2.5
	96	9	9	7.6	6.4	5.4	4.8	4.2	3.8	3.5	3.2	2.9	2.7	2.5	2.2
102	9	9	7.2	6	5.1	4.5	4	3.6	3.3	3	2.8	2.6	2.4	2.2	2.1
108	9	8.5	6.8	5.7	4.8	4.2	3.8	3.4	3.1	2.8	2.6	2.4	2.3	2.1	2
114	9	8	6.4	5.4	4.6	4	3.6	3.2	2.9	2.7	2.5	2.3	2.1	2	1.9
120	9	7.6	6.1	5.1	4.4	3.8	3.4	3.1	2.8	2.5	2.3	2.2	2	1.9	1.8

ALLOWABLE SPAN IN FEET FOR SPECIMEN 5 VISIBLE AND INVISIBLE MULLION - DETAIL H/4 AND J/4														
Tributary Distance For Each Mullion	Design Wind load PSF													
	40	50	60	70	80	90	100	110	120	130	140	150	160	170
	24	10	10	10	10	10	10	10	10	10	10	10	10	10
	30	10	10	10	10	10	10	10	10	10	10	10	10	10
	36	10	10	10	10	10	10	10	10	10	10	9.4	8.8	
	42	10	10	10	10	10	10	10	10	9.9	9.2	8.6	8	7.6
	48	10	10	10	10	10	10	10	9.4	8.7	8	7.5	7	6.6
	54	10	10	10	10	10	10	9.1	8.3	7.7	7.1	6.7	6.3	5.9
	60	10	10	10	10	10	9	8.2	7.5	6.9	6.4	6	5.6	5.3
	66	10	10	10	10	9.1	8.2	7.4	6.8	6.3	5.8	5.5	5.1	4.8
	72	10	10	10	9.4	8.3	7.5	6.8	6.3	5.8	5.4	5	4.7	4.4
	78	10	10	9.9	8.7	7.7	6.9	6.3	5.8	5.3	4.9	4.6	4.3	4.1
	84	10	10	9.2	8	7.1	6.4	5.8	5.4	4.9	4.6	4.3	4	3.8
	90	10	10	8.6	7.5	6.7	6	5.5	5	4.6	4.3	4	3.8	3.5
	96	10	10	9.4	8	7	6.3	5.6	5.1	4.7	4.3	4	3.8	3.5
102	10	10	8.8	7.6	6.6	5.9	5.3	4.8	4.4	4.1	3.8	3.5	3.3	3.1
108	10	10	8.3	7.1	6.3	5.6	5	4.5	4.2	3.8	3.6	3.3	3.1	2.9
114	10	9.5	7.9	6.8	5.9	5.3	4.7	4.3	3.9	3.6	3.4	3.2	3	2.8
120	10	9	7.5	6.4	5.6	5	4.5	4.1	3.8	3.5	3.2	3	2.8	2.6

ALLOWABLE SPAN IN FEET FOR SPECIMEN 4 VISIBLE AND INVISIBLE MULLION - DETAIL F/4 AND G/4														
Tributary Distance For Each Mullion	Design Wind load PSF													
	50	60	70	80	90	100	110	120	130	140	150	160	170	
	24	12	12	12	12	12	12	12	12	12	12	12	12	
	30	12	12	12	12	12	12	12	12	12	12	12	12	
	36	12	12	12	12	12	12	12	12	12	12	12	12	
	42	12	12	12	12	12	12	12	12	12	12	11.7	10.9	10.3
	48	12	12	12	12	12	12	12	11.8	10.9	10.2	9.6	9	
	54	12	12	12	12	12	12	11.3	10.5	9.7	9.1	8.5	8	
	60	12	12	12	12	12	11.1	10.2	9.4	8.7	8.2	7.7	7.2	
	66	12	12	12	12	11.1	10.1	9.3	8.6	7.9	7.4	7	6.5	
	72	12	12	12	11.3	10.2	9.3	8.5	7.8	7.3	6.8	6.4	6	
	78	12	12	11.8	10.5	9.4	8.6	7.8	7.2	6.7	6.3	5.9	5.5	
	84	12	12	10.9	9.7	8.7	7.9	7.3	6.7	6.2	5.8	5.5	5.1	
	90	12	11.7	10.2	9.1	8.2	7.4	6.8	6.3	5.8	5.4	5.1	4.8	
96	12	12	10.9	9.6	8.5	7.7	7	6.4	5.9	5.5	5.1	4.8	4.5	
102	12	12	10.3	9	8	7.2	6.5	6	5.5	5.1	4.8	4.5	4.2	
108	12	11.3	9.7	8.5	7.6	6.8	6.2	5.7	5.2	4.9	4.5	4.3	4	
114	12	10.7	9.2	8.1	7.2	6.4	5.9	5.4	5	4.6	4.3	4	3.8	
120	12	10.2	8.7	7.7	6.8	6.1	5.6	5.1	4.7	4.4	4.1	3.8	3.6	

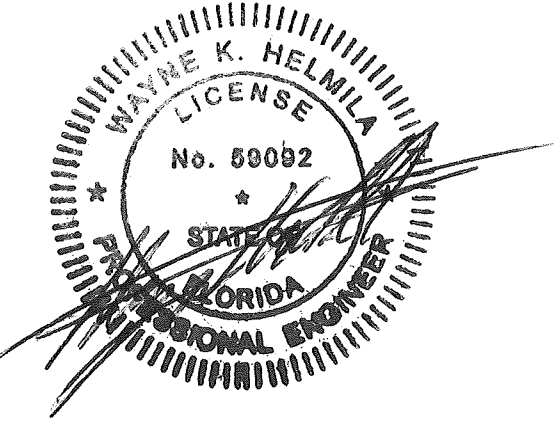


FOR THE REQUIRED WINDLOAD AND REQUIRED DISTANCE BETWEEN MULLIONS, FIND THE MAXIMUM HEIGHT OF THE MULLION COMBINATION. TABLES (LEFT) ARE ARRANGED FROM THE LIGHTEST TO HEAVIEST SECTION.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 24-0516.14

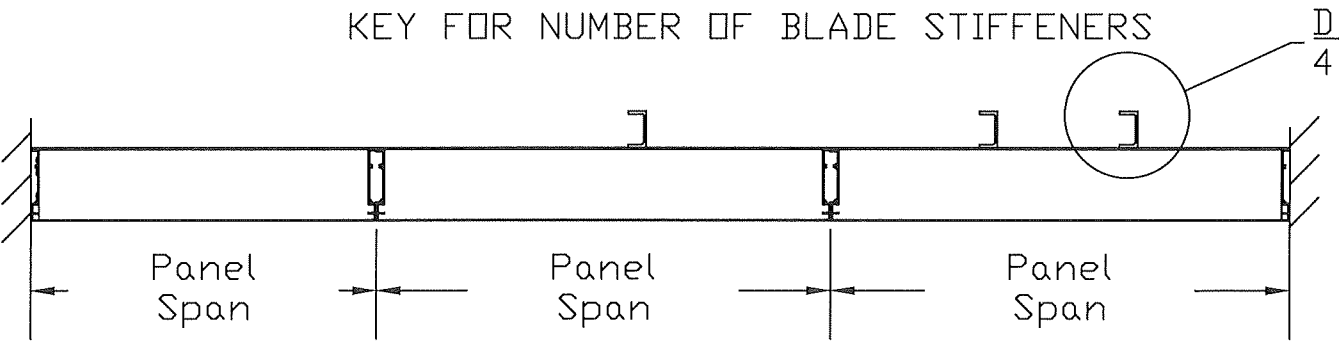
Expiration Date 03/08/2027

By
Miami-Dade Product Control



APR 29 2024

NUMBER OF STIFFENERS REQUIRED FOR EACH PANEL																	
Wind Load Pounds Per Square Foot																	
Panel Horizontal Span		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
	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	36	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	42	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1
	48	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
	54	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2
	60	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2
	66	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2
	72	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	
	78	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
	84	2	2	2	2	2	2	2	2	2	2	2	2	2			
	90	2	2	2	2	2	2	2	2	2	2	2	2				
	96	2	2	2	2	2	2	2	2	2	2	2					
	102	2	2	2	2	2	2	2	2	2	2						
108	2	2	2	2	2	2	2	2	2								
114	2	2	2	2	2	2	2	2									
120	2	2	2	2	2	2	2										



FIND # OF STIFFNERS REQUIRED FOR EITHER THE OPENING WIDTH OR DISTANCE BETWEEN TWO MULLIONS AT THE REQUIRED WINDLOAD.



CONSTRUCTION SPECIALTIES, INC.
49 MEEKER AVENUE, CRANFORD, NEW JERSEY
PHONE: 1-800-631-7379 / FAX: 908-272-2920

PROJECT:	TITLE: DC- 6174 LOUVER
REVISION: F 04-22-2024	DATE: 1-27-06
SCALE: 6" = 1'	SHEET NUM: 8 OF 8
DRW BY: J. BLAKE	DRW NO : RD-363-8