



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 D dated 11/22/2017, prepared by Construction Specialties Inc., signed and sealed by Wayne K. Helmila, P.E., 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 # 22-0202.05** 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.**



NOA No. 23-0103.04
Expiration Date: March 08, 2027
Approval Date: February 02, 2023
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. 23-0103.04
Expiration Date: March 08, 2027
Approval Date: February 02, 2023

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. 23-0103.04
Expiration Date: March 08, 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.
Product Control Examiner
NOA No. 23-0103.04
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

4. New evidence submitted

A. DRAWINGS

1. None.

B. TESTS

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. 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) of the FBC, issued by Rice Engineering, dated 12/07/2022, signed and sealed by Wayne K. Helmila, P.E.
2. Statement letter of no financial interest, issued by Rice Engineering, dated 12/07/2022, signed and sealed by Wayne K. Helmila, P.E.



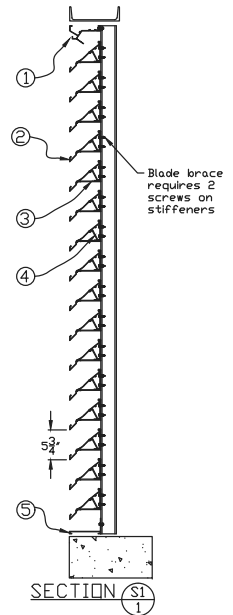
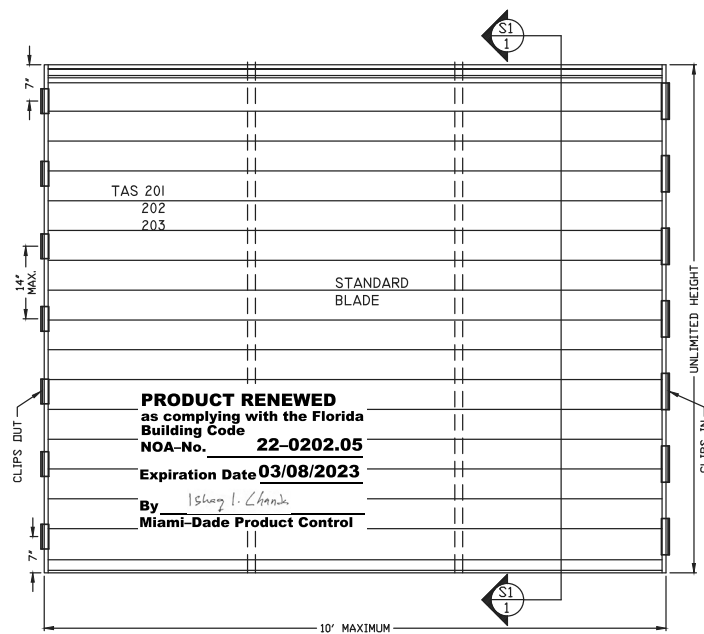
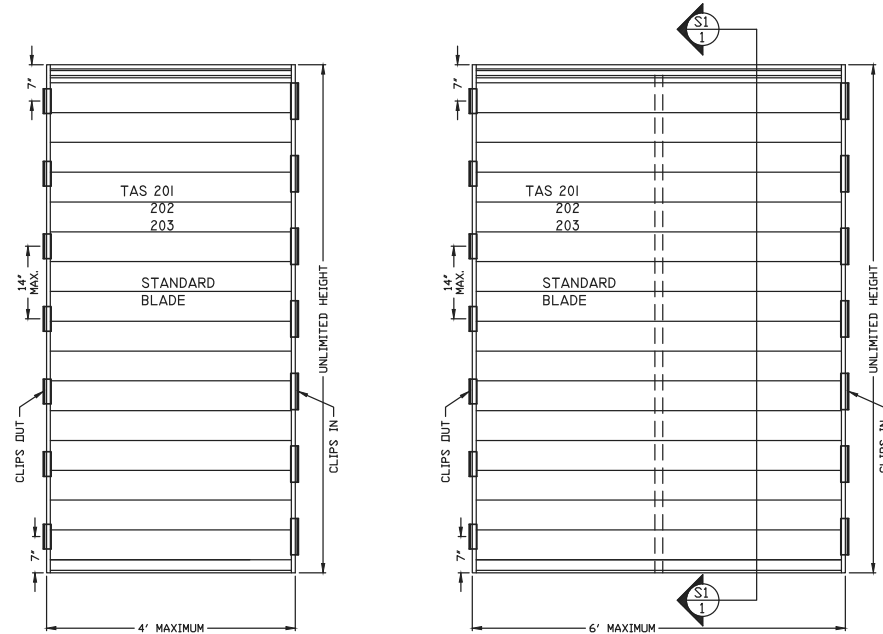
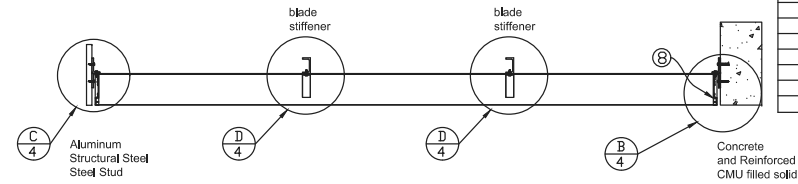
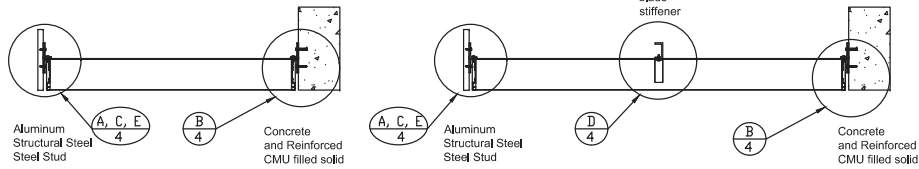
Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 23-0103.04
Expiration Date: March 08, 2027
Approval Date: February 02, 2023

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 23-0103.04

Expiration Date 03/08/2027

By *[Signature]*
Miami-Dade Product Control

Revisions			
No.	Description	Date	By
D	UPDATE TO 2017 FBC	11-22-17	RCD



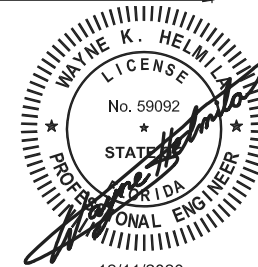
SPECIMEN 1 90 PSF
GENERAL NOTES:

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
- 4) All concrete substrate shall be a minimum of 2000 psi for jamb fasteners or 3000 psi for mullions. S.S. Series 300
- 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. 21-0125.05
Expiration Date 03/08/2022
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. Helm
Registration No: 59092

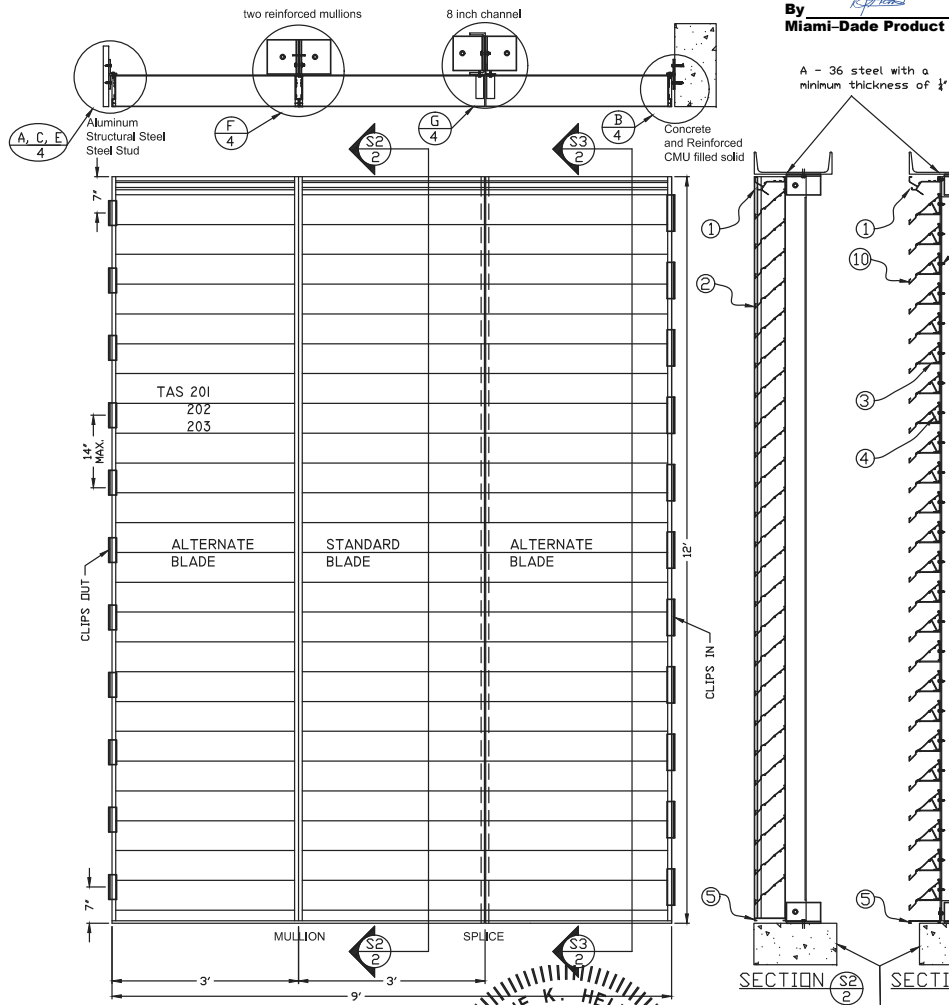
CS GROUP

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

PROJECT:	COA: 9090	TITLE: DC - 6174 LOUVER
REVISION: D 11-22-17		DATE: 1-27-06
SCALE: 1/2" = 1'		SHEET NUM: 1 OF 8
DRW BY: J. BLAKE		DRW NO : RD-363-1

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 23-0103.04
Expiration Date 03/08/2027

By *[Signature]*
Miami-Dade Product Control



SPECIMEN 4 170 PSF

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 22-0202.05
Expiration Date 03/08/2023

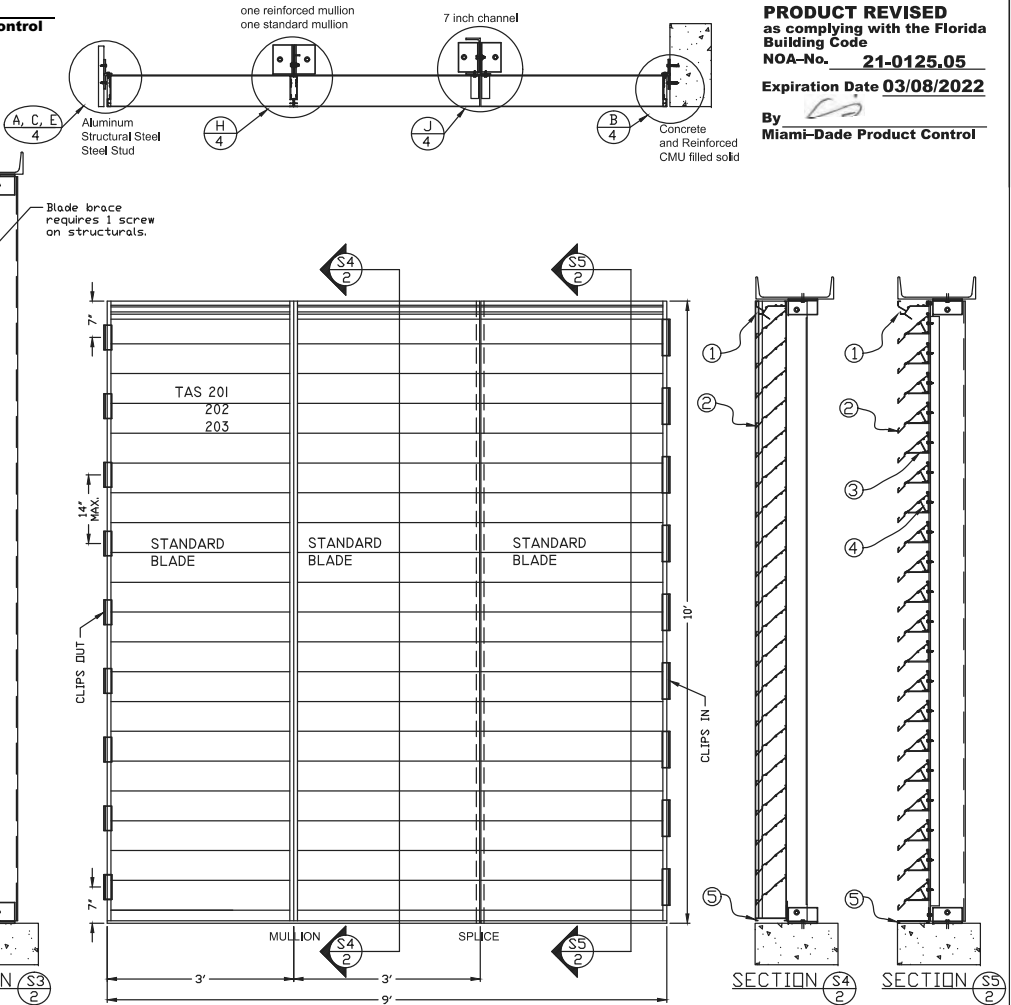
By *[Signature]*
Miami-Dade Product Control



12/11/2020
COA: 9090

CS GROUP

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



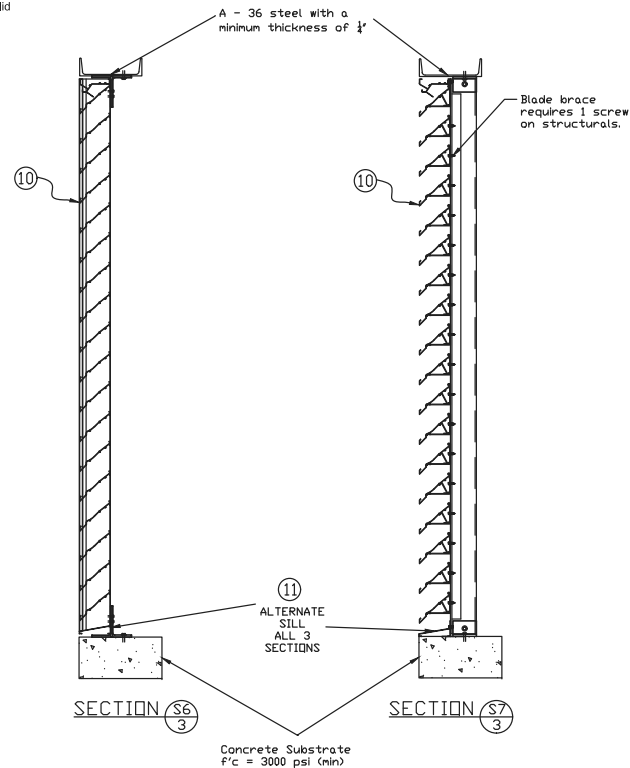
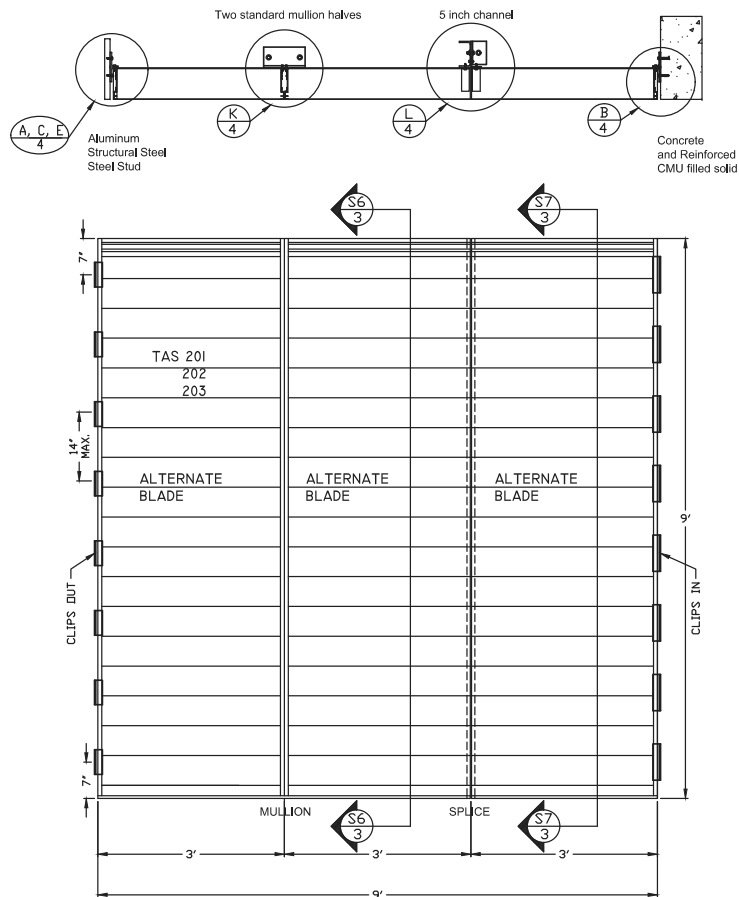
SPECIMEN 5 150 PSF

PRODUCT REVISED
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Expiration Date 03/08/2022

By *[Signature]*
Miami-Dade Product Control

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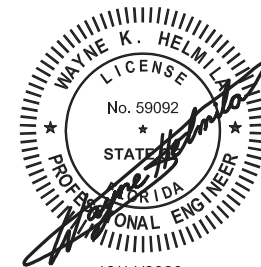
PROJECT:	TITLE: DC- 6174 LOUVER
REVISION: D 11-22-17	DATE: 1-27-06
SCALE: 1/2" = 1'	SHEET NUM: 2 OF 8
DRW BY: J. BLAKE	DRW NO: RD-363-2



PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 23-0103.04
Expiration Date 03/08/2027
By R. H. H. H.
Miami-Dade Product Control

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 22-0202.05
Expiration Date 03/08/2023
By Isang I. Chank
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0125.05
Expiration Date 03/08/2022
By CS
Miami-Dade Product Control



12/11/2020
COA: 9090

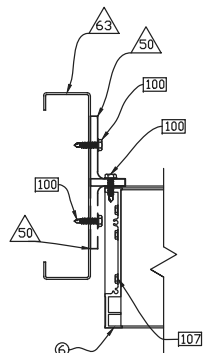
RICE
ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone: (920) 617-1042
Fax: (920) 617-1100
www.rice-inc.com
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helm
Registration No: 59092

SPECIMEN 6 113 PSF

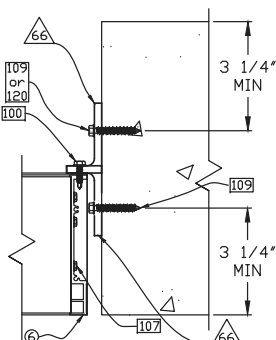
CS GROUP

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

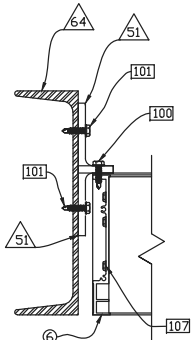
PROJECT:	TITLE: DC-6174 LQUVER
REVISION: D 11-22-17	DATE: 1-27-06
SCALE: 1/2" = 1'	SHEET NUM: 3 OF 8
DRW BY: J. BLAKE	DRW NO: RD-363-3



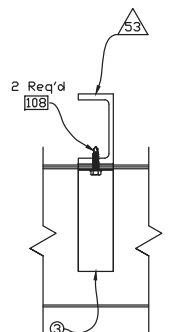
Detail A
SCALE: 1 1/2" = 1'
SP-1, 2, 4, 5, & 6
Steel Stud



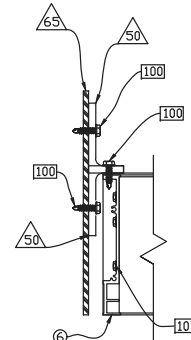
Detail B
SCALE: 1 1/2" = 1'
SP-1, 2, 3, 4, 5 & 6
Concrete



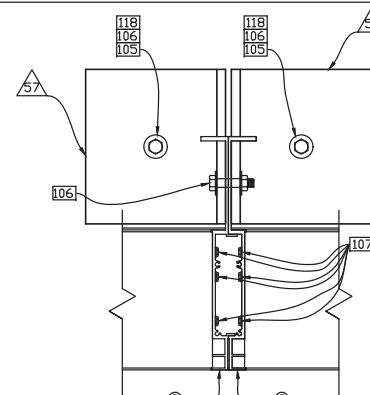
Detail C
SCALE: 1 1/2" = 1'
SP-1, 2, 3, 4, 5 & 6
Structural Steel



Detail D
SCALE: 1 1/2" = 1'
SP-2 & SP-3
Stiffener not connected to structure.



Detail E
SCALE: 1 1/2" = 1'
SP-1, 2, 4, 5 & 6
Aluminum

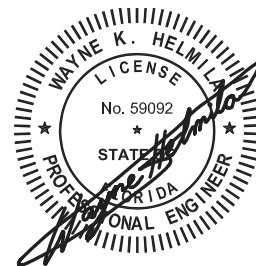


Detail F
SCALE: 1 1/2" = 1'
SP-4
Two reinforced mullions.
Mullion is connected to structure.
Use parts 8 and 9.

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **21-0125.05**

Expiration Date **03/08/2022**

By *[Signature]*
Miami-Dade Product Control



12/11/2020
COA: 9090

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. **23-0103.04**

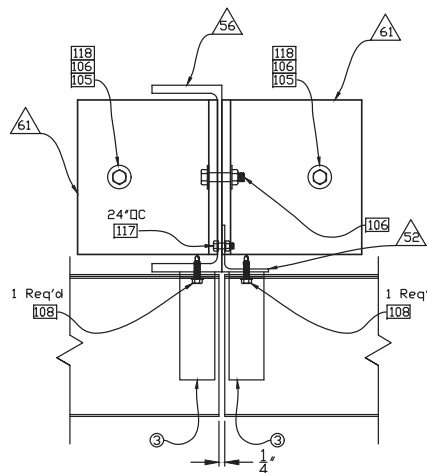
Expiration Date **03/08/2027**

By *[Signature]*
Miami-Dade Product Control

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. **22-0202.05**

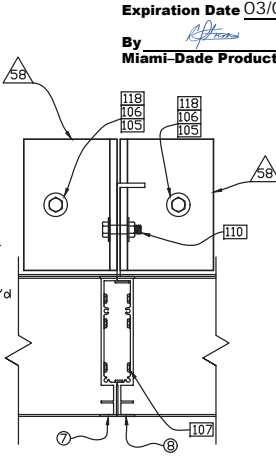
Expiration Date **03/08/2023**

By *[Signature]*
Miami-Dade Product Control



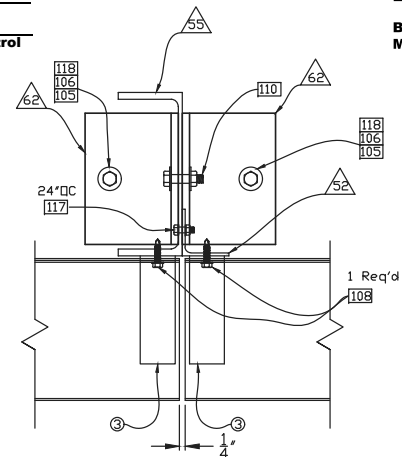
Detail G
SCALE: 1 1/2" = 1'
SP-4

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



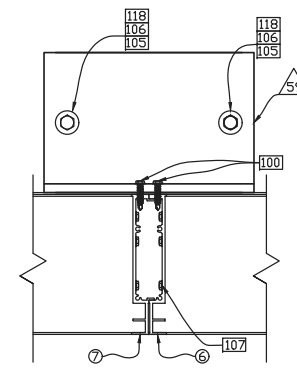
Detail H
SCALE: 1 1/2" = 1'
SP-5

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



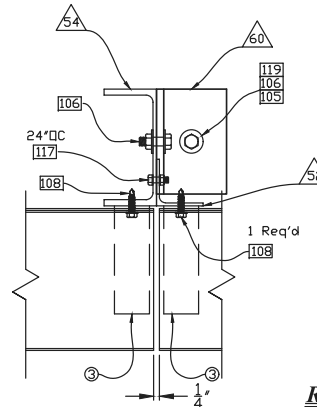
Detail J
SCALE: 1 1/2" = 1'
SP-5

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



Detail K
SCALE: 1 1/2" = 1'
SP-6

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



Detail L
SCALE: 1 1/2" = 1'
SP-6

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

RICE
ENGINEERING

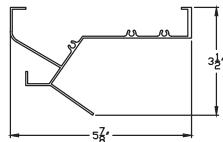
105 School Creek Trail
Lusenburg, WI 54217
Phone: (920) 617-1042
Fax: (920) 617-1100
www.rice-inc.com

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

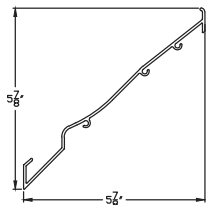
CS GROUP

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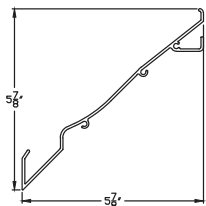
PROJECT:	TITLE: DC-6174 LOUVER
REVISION: D 11-22-17	DATE: 1-27-06
SCALE: 3/4" = 1'	SHEET NUM: 4 OF 8
DRW BY: J. BLAKE	DRW NO: RD-363-4



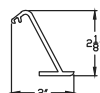
1 - Head



2 - Blade
Standard



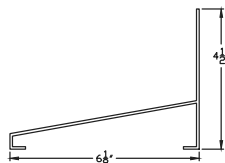
10 - Blade
Alternate



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



5 - Sill



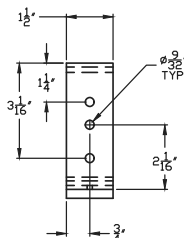
11 - Alternate Sill



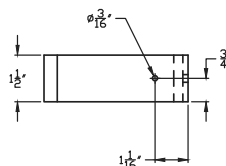
6 - Standard
Jamb/Mullion



7 - Standard
Mullion Half

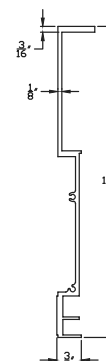


3 - Blade
Brace
(1 1/2" LG)

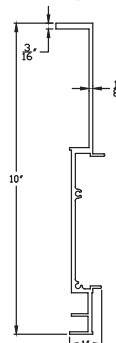


PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 23-0103.04
Expiration Date 03/08/2027
By *[Signature]*
Miami-Dade Product Control

PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0125.05
Expiration Date 03/08/2022
By *[Signature]*
Miami-Dade Product Control



8 - Reinforced
Jamb

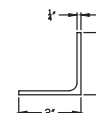


9 - Reinforced
Mullion

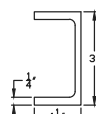
PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 22-0202.05
Expiration Date 03/08/2023
By *[Signature]*
Miami-Dade Product Control



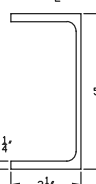
12/11/2020
COA: 9090



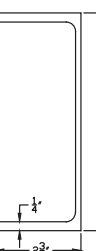
52 - Blade
Brace Carrier



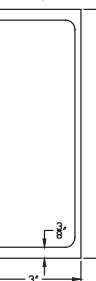
53 - 3"
channel



54 - 5"
channel



55 - 7"
channel



56 - 8"
channel

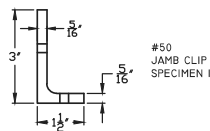
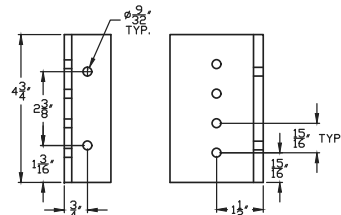
RICE
ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone: (920) 617-1042
Fax: (920) 617-1100
www.rice-inc.com
Florida Firm No: F-01000005061
Certificate of Authorization: #0090
Wayne K. Helmli
Registration No: 59092

Parts

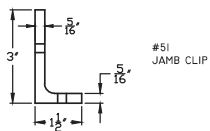
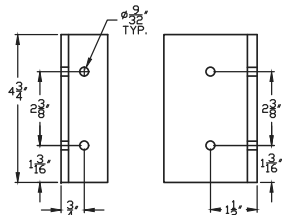
CS GROUP

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

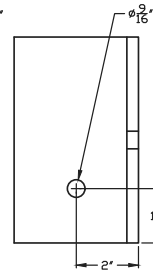
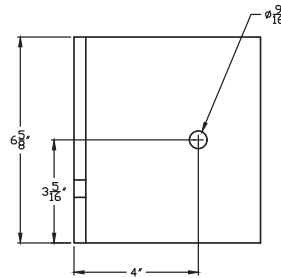
PROJECT:	TITLE: DC-6174 LOUVER
REVISION: D 11-22-17	DATE: 1-27-06
SCALE: 3" = 1'	SHEET NUM: 5 OF 8
DRW BY: J. BLAKE	DRW NO: RD-363-5



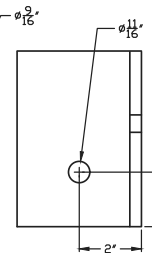
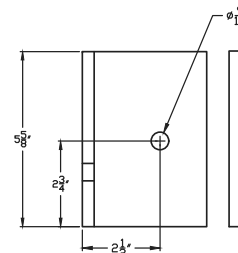
#50
JAMB CLIP
SPECIMEN I



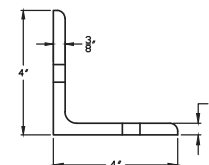
#51
JAMB CLIP



#57
CLIP ANGLE
LEFT AND RIGHT REQUIRED
RIGHT SHOWN



#58
CLIP ANGLE
LEFT AND RIGHT REQUIRED
RIGHT SHOWN



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. **21-0125.05**

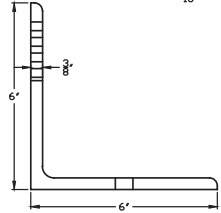
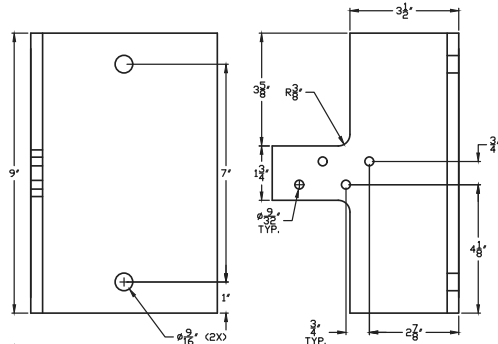
Expiration Date **03/08/2022**

By *[Signature]*
Miami-Dade Product Control

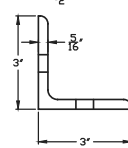
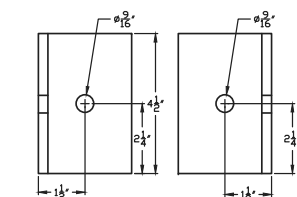
PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. **22-0202.05**

Expiration Date **03/08/2023**

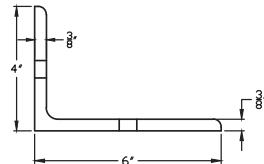
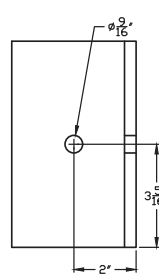
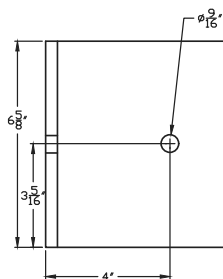
By *[Signature]*
Miami-Dade Product Control



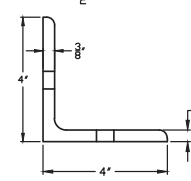
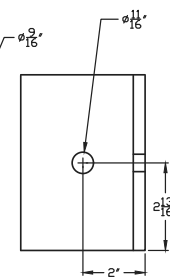
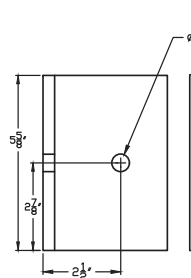
#59
CLIP ANGLE



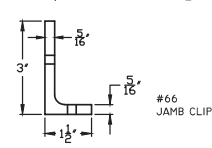
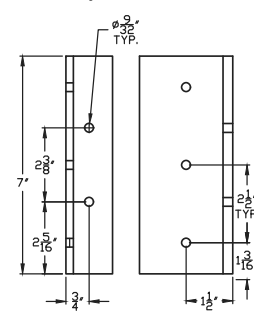
#60
CLIP ANGLE



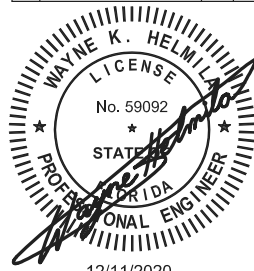
#61
CLIP ANGLE



#62
CLIP ANGLE



#66
JAMB CLIP



12/11/2020
COA: 9090

RICE
ENGINEERING

105 School Creek Trail
Luxemburg, WI 54217
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www.rice-inc.com

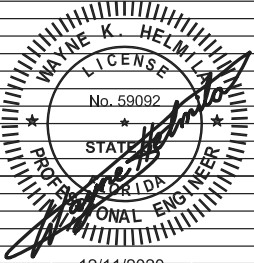

Florida Firm No. F-01000005961
Certificate of Authorization: #9090
Wayne K. Helmila
Registration No. 59092

Parts

CS GROUP

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

PROJECT:	TITLE: DC-6174 LQUVER
REVISION: D 11-22-17	DATE: 1-27-06
SCALE: 3' = 1'	SHEET NUM: 6 OF 8
DRW BY: J. BLAKE	DRW NO: RD-363-6

		PARTS LIST	
1	HEAD	6063-T6 ALUMINUM	0.060 THK
2	BLADE - STANDARD	6063-T6 ALUMINUM	0.080 THK
3	BLADE BRACE	6063-T6 ALUMINUM	0.125 THK
4	BLADE BRACE LOCK	6063-T6 ALUMINUM	0.125 THK
5	SILL	6063-T6 ALUMINUM	0.080THK
6	STANDARD JAMB	6063-T6 ALUMINUM	0.125 THK
7	STANDARD MULLION HALF	6063-T6 ALUMINUM	0.080THK
8	REINFORCED JAMB	6063-T6 ALUMINUM	0.125 THK
9	REINFORCED MULLION HALF	6063-T6 ALUMINUM	0.080THK
10	BLADE - ALTERNATE	6063-T6 ALUMINUM	0.080THK
11	ALTERNATE SILL	6063-T6 ALUMINUM	0.080THK
50	JAMB CLIP	3" x 1 1/2" x 5/16" x 4 3/4" LG 6061-T6 ALUMINUM FOR 16 GA STEEL STUDS	
51	JAMB ANGLE	3" x 1 1/2" x 5/16" x 4 3/4" LG 6061-T6 ALUMINUM FOR STEEL AND 1/8" ALUMINUM	
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 3 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 4 1/2" LG. 6061-T6 ALUMINUM - 5" CHANNEL	
61	MULLION CLIP ANGLE	4" x 6" x 3/8" x 6 3/8" 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	
64	STRUCTURAL STEEL	3/16" THK MIN.	
65	ALUMINUM PLATE	1/8" THK MIN.	
66	JAMB ANGLE	3" x 1 1/2" x 5/16" x 7" LG 6061-T6 ALUMINUM FOR CONCRETE OR CMU	
100	1/4-14 SCREW	THREAD FORMING OR SELF DRILLING - S.S. FOR ALUM. - PLATED CARBON STEEL FOR 16 GA STEEL STUD ← S.S. Series 300	
101	1/4-20 SCREW	S.S. THREAD FORMING OR PLATED CARBON STEEL SELF DRILLING FOR STRUCTURAL STEEL ←	
105	1/2" HULTI KWIK BOLT III	S.S. STUD TYPE - 4 INCHES MINIMUM EMBEDMENT-TESTED EDGE DISTANCE 8" ← S.S. Series 300	
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	1/4 DIA 2 1/4" LG. POWER FASTENERS TAPPER 2724	COATED CARBON STEEL OR STAINLESS STEEL FOR UNCRACKED CONCRETE, 3-1/4" MIN. EDGE DIST., 1-3/4" 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" HULTI KWIK BOLT IZ	FOR CRACKED CONCRETE ONLY - S.S. OR CARBON STEEL - 3-1/4" MIN. EMBEDMENT, 6" MIN. EDGE DISTANCE. ← S.S. Series 300	
119	5/8" HULTI KWIK BOLT IZ	FOR CRACKED CONCRETE ONLY - S.S. OR CARBON STEEL - 5" MIN. EMBEDMENT, 6-1/2" MIN. EDGE DISTANCE. ←	
120	1/4" DIA TAPCON PLUS	COATED CARBON STEEL OR STAINLESS STEEL FOR CRACKED CONCRETE, 2-1/2" MIN. EDGE DIST., 1-1/2" MIN. EMBED. ←	
PRODUCT RENEWED as complying with the Florida Building Code NOA-No. <u>23-0103.04</u> Expiration Date <u>03/08/2027</u> By <u>RPT</u> Miami-Dade Product Control		PRODUCT RENEWED as complying with the Florida Building Code NOA-No. <u>22-0202.05</u> Expiration Date <u>03/08/2023</u> By <u>Isang I. Choan</u> Miami-Dade Product Control	
		PRODUCT REVISED as complying with the Florida Building Code NOA-No. <u>21-0125.05</u> Expiration Date <u>03/08/2022</u> By <u>CS</u> Miami-Dade Product Control	
			
12/11/2020 COA: 9090			
		PROJECT: REVISION: D 11-22-17 SCALE: 6" = 1' DRW BY: J. BLAKE	TITLE: DC 6174 LQUVER DATE: 1-27-06 SHEET NUM: 7 OF 8 DRW NO: RD-363-7
		CONSTRUCTION SPECIALTIES, INC. 49 MEEKER AVENUE, CRANFORD, NEW JERSEY PHONE: 1-800-631-7379 / FAX: 908-272-2920	

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 23-0103.04

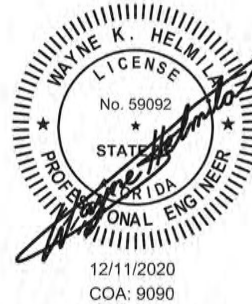
Expiration Date 03/08/2027

By *RPT*
Miami-Dade Product Control

PRODUCT RENEWED
as complying with the Florida
Building Code
NOA-No. 22-0202.05

Expiration Date 03/08/2023

By *Isang I. Chanda*
Miami-Dade Product Control



PRODUCT REVISED
as complying with the Florida
Building Code
NOA-No. 21-0125.05

Expiration Date 03/08/2022

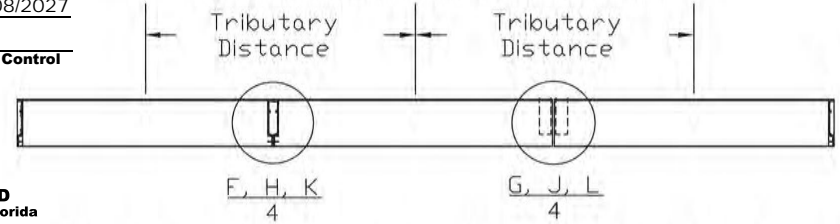
By *CS*
Miami-Dade Product Control

RICE
ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
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www.rice-inc.com
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
Wayne K. Helm
Registration No: 59092

CS GROUP

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

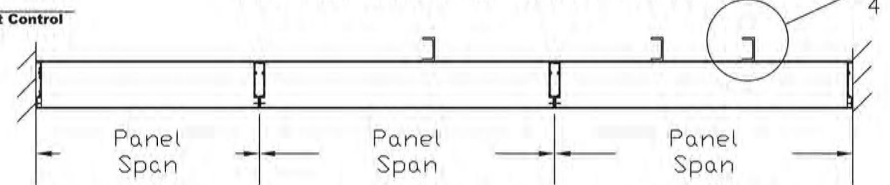
KEY FOR ALLOWABLE MULLION SPAN



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.

NUMBER OF STIFFENERS REQUIRED FOR EACH PANEL																		
		Wind Load Pounds Per Square Foot																
		20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	
Panel Horizontal Span	24	0	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	0
	36	0	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	0	1	1	1	1	1	1	1
	48	0	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	1	2
	60	1	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	1	2	2	2	2
	72	1	1	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2
	78	2	2	2	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	2	2	2	2
	90	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	96	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
	102	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
108	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
114	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
120	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	

KEY FOR NUMBER OF BLADE STIFFENERS



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

PROJECT:	TITLE: DC- 6174 LOUVER
REVISION: D 11-22-17	DATE: 1-27-06
SCALE: 6" = 1'	SHEET NUM: 8 OF 8
DRW BY: J. BLAKE	DRW NO: RD-363-8