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-6174 Aluminum Louver

APPROVAL DOCUMENT: 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., 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 # 11-1227.05** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

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

MIAMI-DADE COUNTY APPROVED

01/20/2015

NOA No. 14-1021.10
Expiration Date: March 8, 2017
Approval Date: January 29, 2015

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS ***"Submitted under NOA # 11-1227.05"***

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.

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.

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 5th edition (2014) FBC issued Rice Engineering, dated 09/26/2014, signed and sealed by L. David Rice, P.E.

"Submitted under NOA # 11-1227.05"

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

"Submitted under NOA # 11-0218.04"

3. No financial interest letter issued by Rice Engineering, dated 02/15/2011, signed and sealed by L. David Rice, P.E.

1/20/2015

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 14-1021.10
Expiration Date: March 8, 2017
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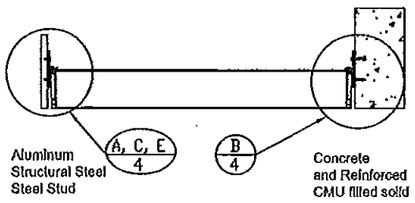
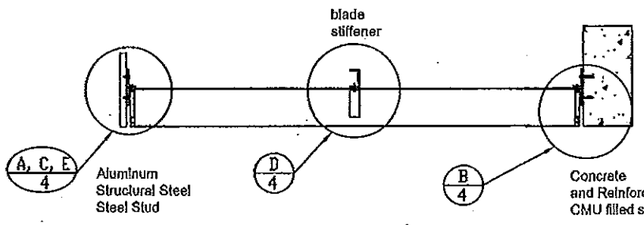
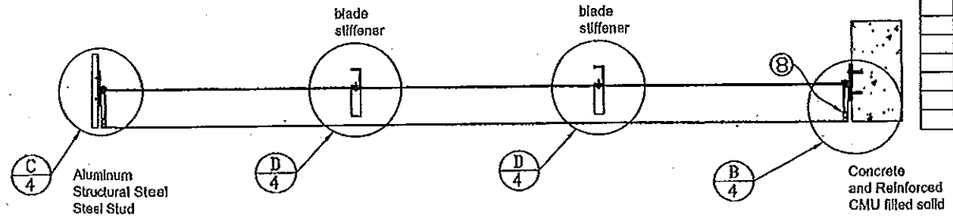
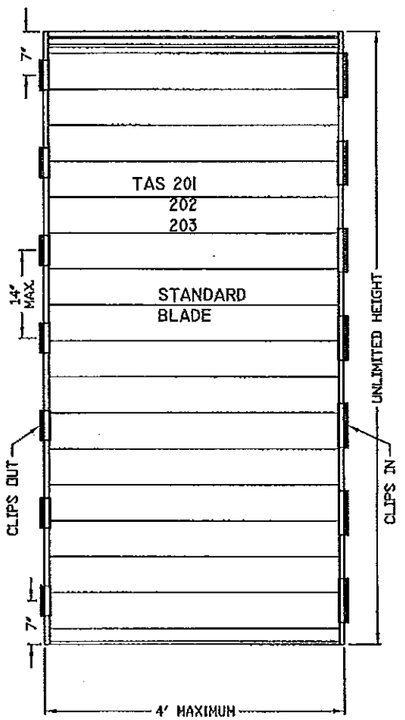
Revisions			
No.	Description	Date	By
B	revise notes 1 and 4, notes 9 and 10 added	02-05-07	WV

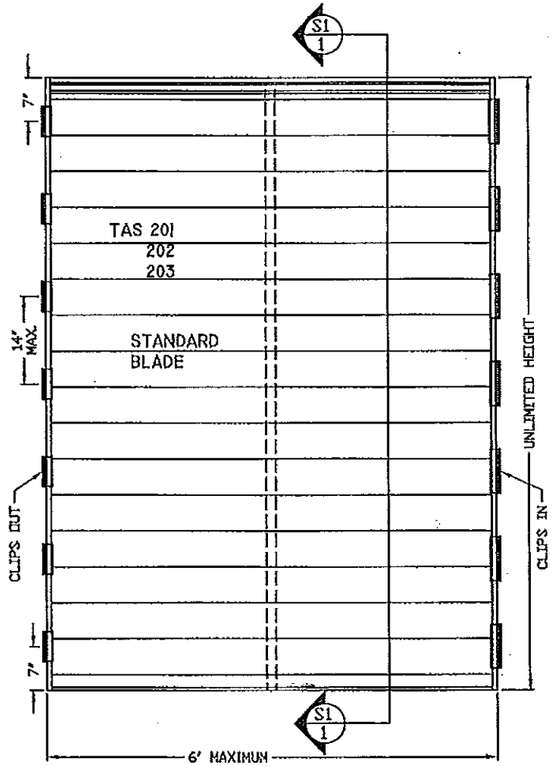




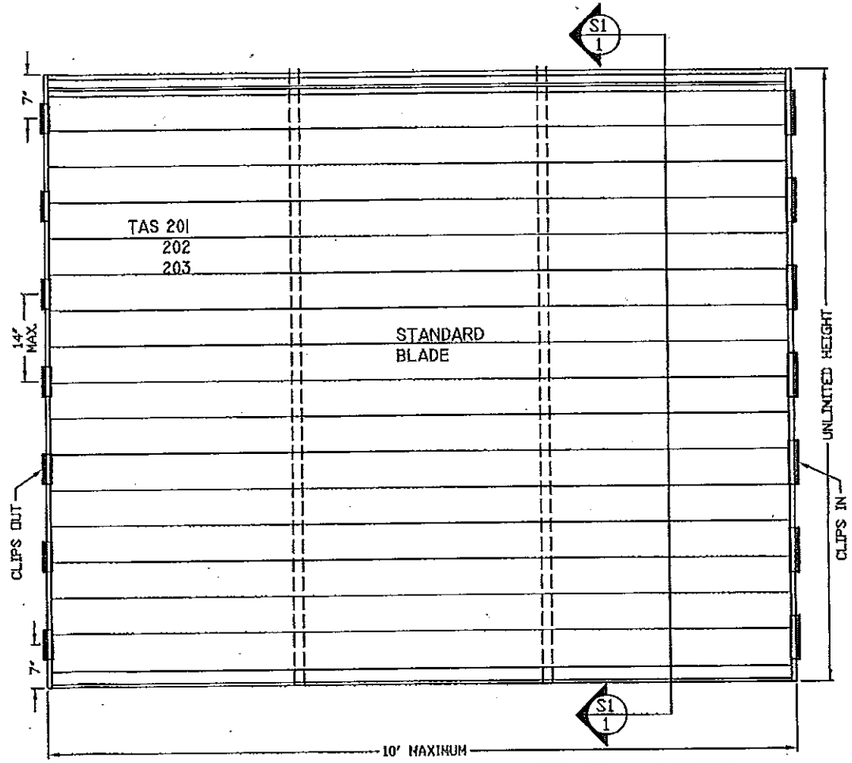




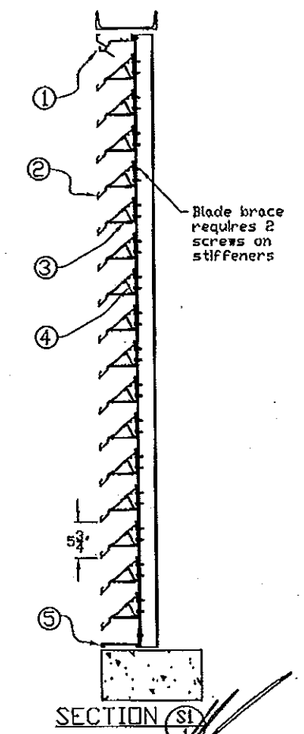
SPECIMEN 1 90 PSF



SPECIMEN 2 120 PSF



SPECIMEN 3 100 PSF



GENERAL NOTES:

1) It shall be the responsibility 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 protocals TAS 201, TAS 202 and TAS 203.
3) All fasteners shall be stainless steel or plated steel.
4) All concrete substrate shall be a minimum of 2000 psi for jamb fasteners or 5000 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
Acceptance No 11-1221.10
Expiration Date 03/08/2017
By _____
Miami Dade Product Control

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No 11-1227.05
Expiration Date 03/08/2017
By _____
Miami Dade Product Control

RICE ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone 920.845.1042
Fax: 920.845.1048
www.rice-inc.com

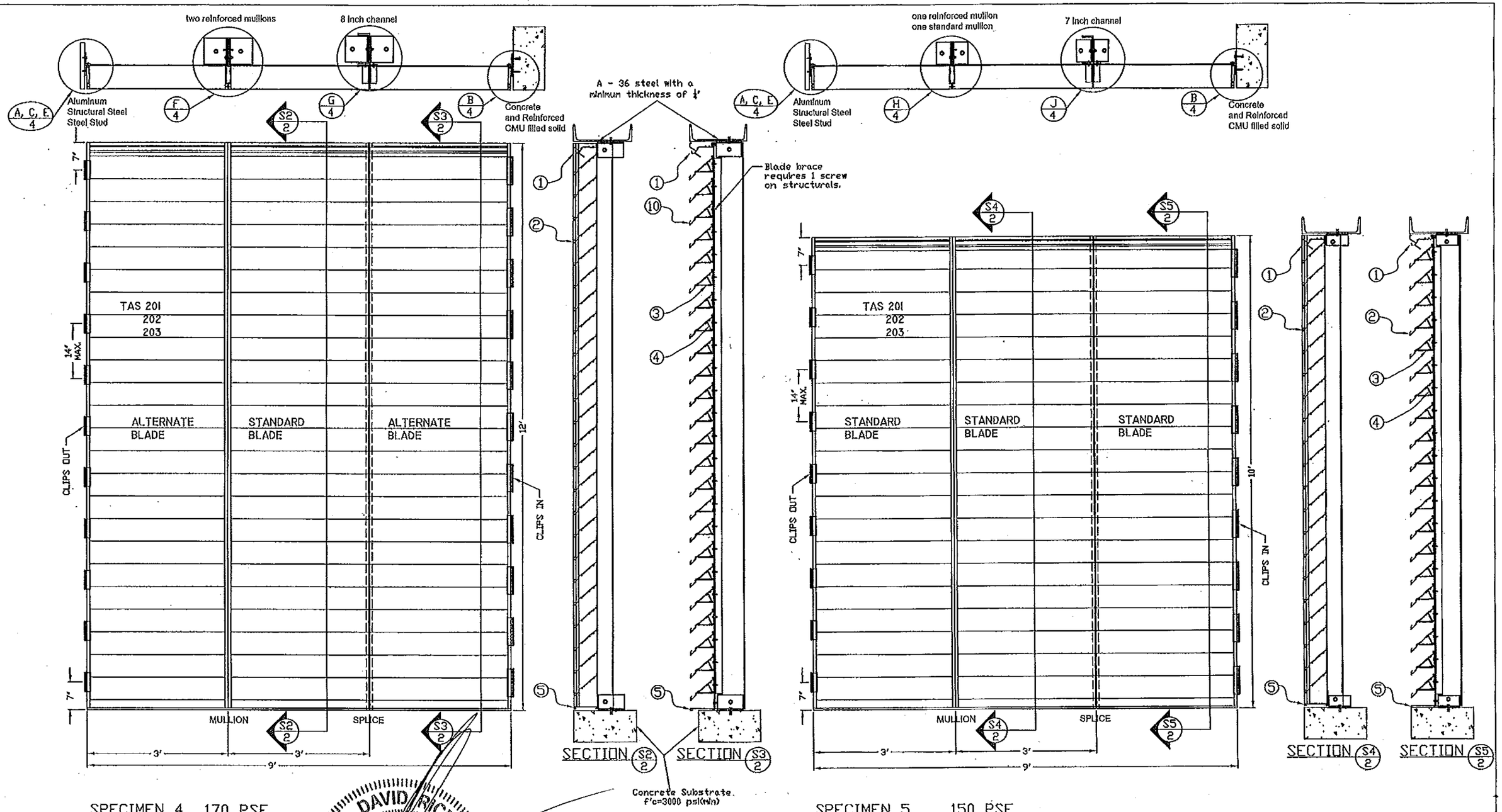
Florida Firm No. E-01000005061
Certificate of Authorization: #9090
L. David Rice
Registration No: 50923

L. DAVID RICE LICENSE NO. 50923 STATE OF FLORIDA PROFESSIONAL ENGINEER

APR 03 2012

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

PROJECT:	TITLE: DC - 6174 LOUVER
REVISION: C 11-16-11	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

SPECIMEN 5 150 PSF

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Expiration Date 03/08/2017
By _____
Miami Dade Product Control

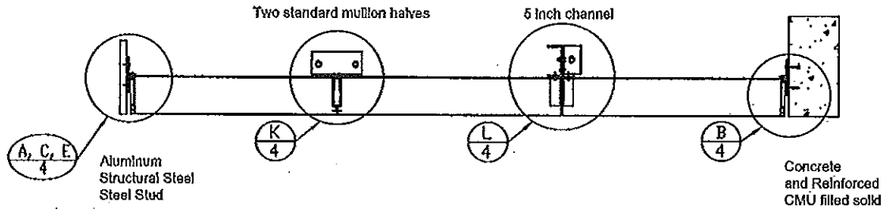
PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 11-1227.05
Expiration Date 03/08/2017
By _____
Miami Dade Product Control

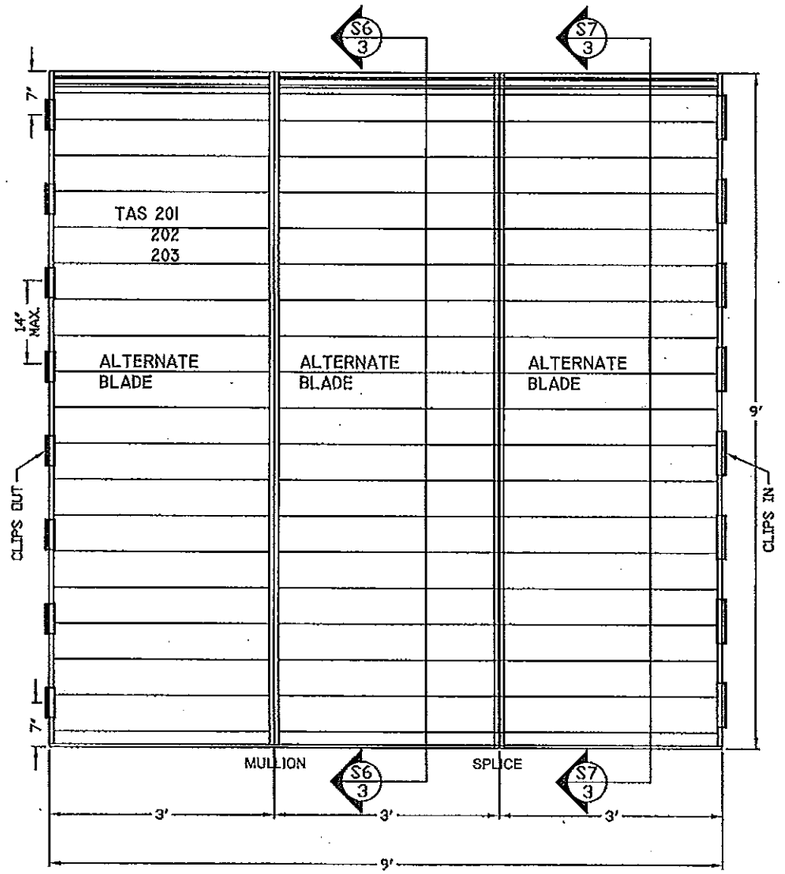
L. DAVID PRICE
LICENSE
No. 50923
STATE OF FLORIDA
PROFESSIONAL ENGINEER

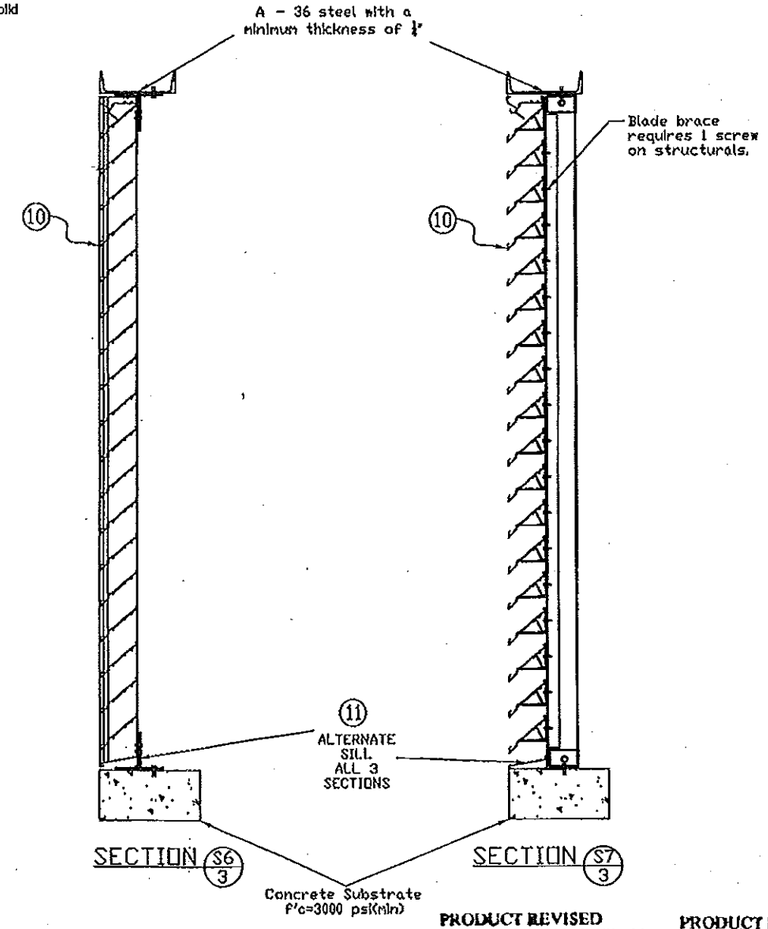
APR 0 3 2012

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

PROJECT:	TITLE: DC- 6174 LOUVER
REVISION: C 11-16-11	DATE: 1-27-06
SCALE: 1/2" = 1'	SHEET NUM: 2 OF 8
DRW BY: J. BLAKE	DRW NO : RD-363-2







SPECIMEN 6 113 PSF

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Miami Dade Product Control

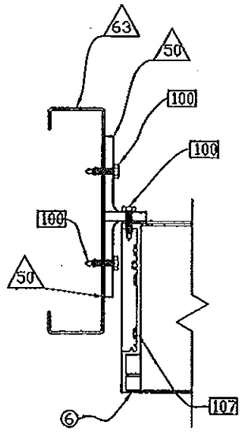
PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 11-1227.05
Expiration Date 03/08/2017
By
Miami Dade Product Control

APR 0 3 2012

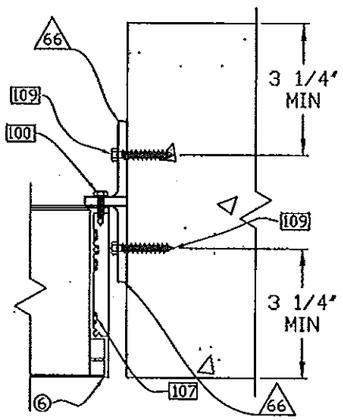
L. DAVID RICE
LICENSED
No. 50923
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

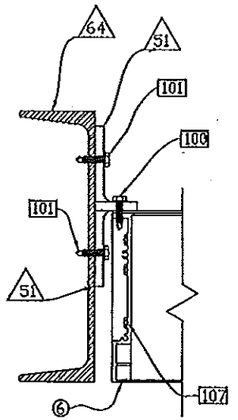
PROJECT:	TITLE: DC-6174 LOUVER
REVISION: C 11-16-11	DATE: 1-27-06
SCALE: 1/2" = 1'	SHEET NUM: 3 OF 8
DRW BY: J. BLAKE	DRW NO : RD-363-3



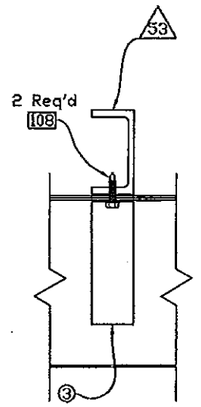
Detail A/4
SCALE: 1 1/2" = 1'
SP-1, 2, 4, 5, & 6
Steel Stud



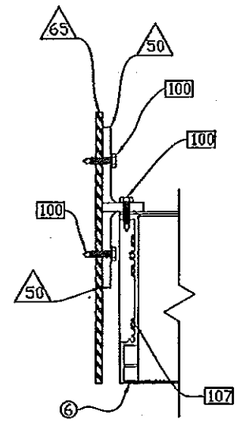
Detail B/4
SCALE: 1 1/2" = 1'
SP-1, 2, 3, 4, 5 & 6
Concrete



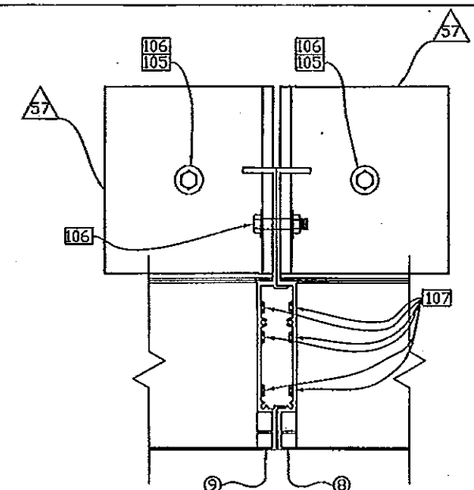
Detail C/4
SCALE: 1 1/2" = 1'
SP-1, 2, 3, 4, 5 & 6
Structural Steel



Detail D/4
SCALE: 1 1/2" = 1'
SP-2 & SP-3
Stiffener not connected to structure.



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



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

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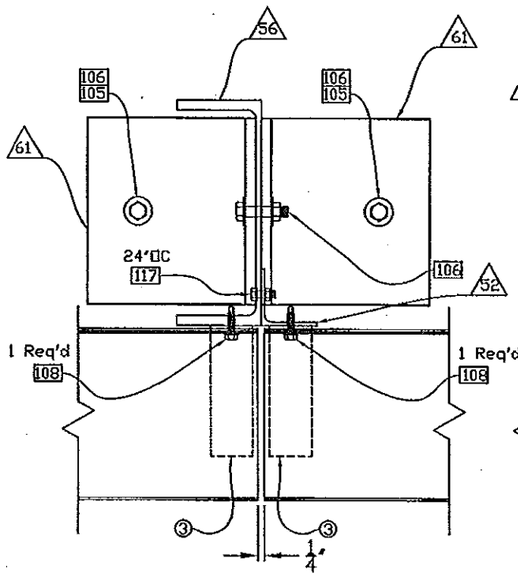
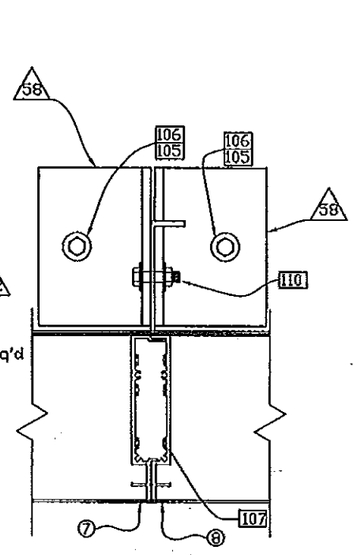
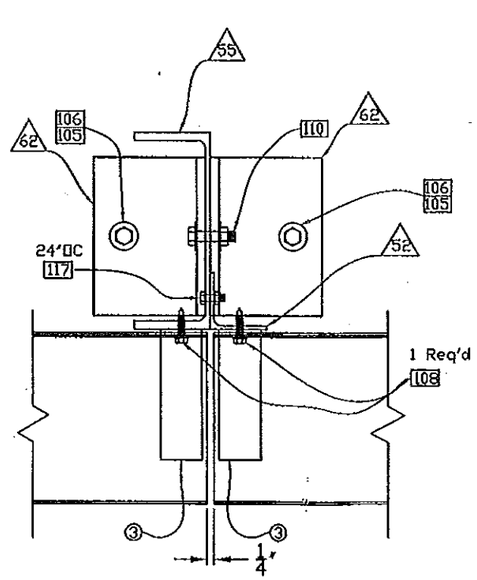


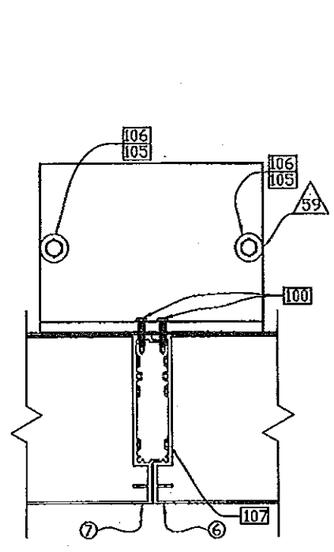
Detail G/4
SCALE: 1 1/2" = 1'
SP-4
One 8 inch channel.
Mullion connected to structure.
Use parts 56 and 52.



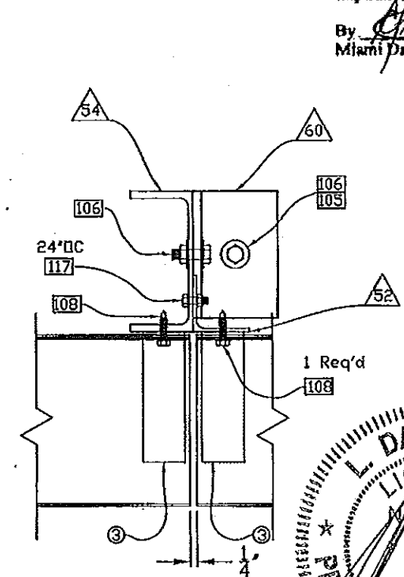
Detail H/4
SCALE: 1 1/2" = 1'
SP-5
One standard and
one reinforced mullion.
Mullion connected to structure.
Use parts 7 and 8.



Detail J/4
SCALE: 1 1/2" = 1'
SP-5
One 7 inch channel.
Mullion connected to structure.
Use parts 55 and 52.



Detail K/4
SCALE: 1 1/2" = 1'
SP-6
Two standard mullion halves.
Mullion connected to structure.
Use parts 6 and 7.



Detail L/4
SCALE: 1 1/2" = 1'
SP-6
One 5 inch channel.
Mullion connected to structure.
Use parts 54 and 52.

L. DAVID RICE
LICENSE
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STATE OF FLORIDA
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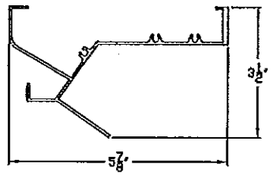
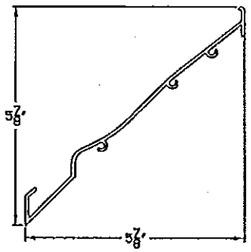
APR 03 2012

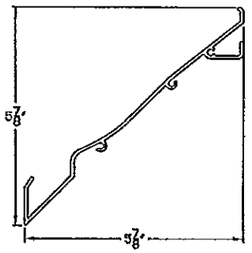
CSGROUP CONSTRUCTION SPECIALTIES, INC. 49 MEEKER AVENUE, CRANFORD, NEW JERSEY PHONE: 1-800-631-7379 / FAX: 908-272-2920	PROJECT:	TITLE: DC-6174 LOUVER
	REVISION: C 11-16-11	DATE: 1-27-06
	SCALE: 3/4" = 1'	SHEET NUM: 4 OF 8
	DRW BY: J. BLAKE	DRW NO: RD-363-4



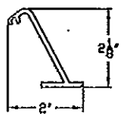
1 - Head



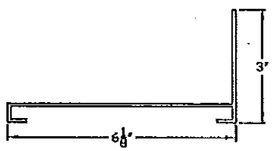
2 - Blade
Standard



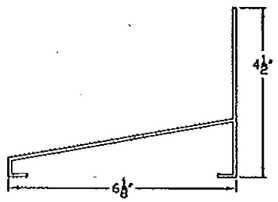
10 - Blade
Alternate



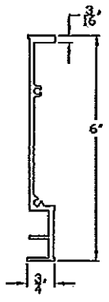
4 - Blade
Brace
Lock
(1½" LG)



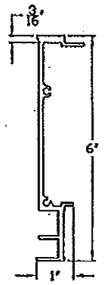
5 - Sill



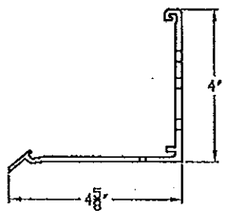
11 - Alternate Sill

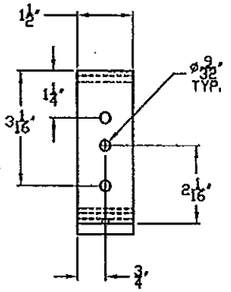


6 - Standard
Jamb/Mullion

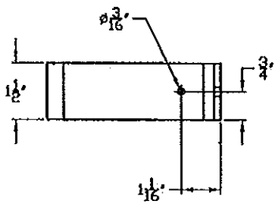


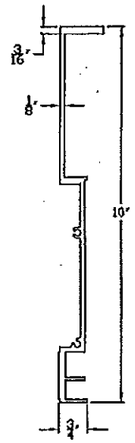
7 - Standard
Mullion Half



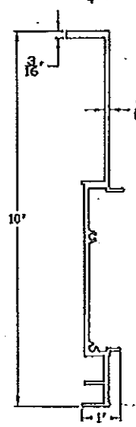


3 - Blade
Brace
(1½" LG)

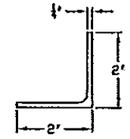




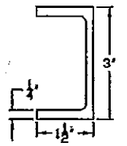
8 - Reinforced
Jamb



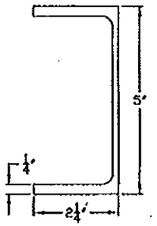
9 - Reinforced
Mullion



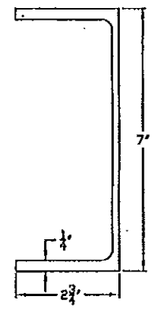
52 - Blade
Brace Carrier



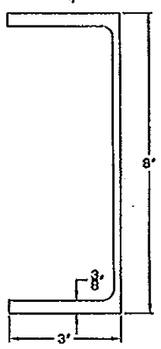
53 - 3"
channel



54 - 5"
channel



55 - 7"
channel



56 - 8"
channel

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 14-1021.10
Expiration Date 03/08/2017
By
Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 11-1227.05
Expiration Date 03/08/2017
By
Miami Dade Product Control

L. DAVID RICE
LICENSE
NO. 50923
STATE OF
FLORIDA
PROFESSIONAL ENGINEER

APR 0 3 2012

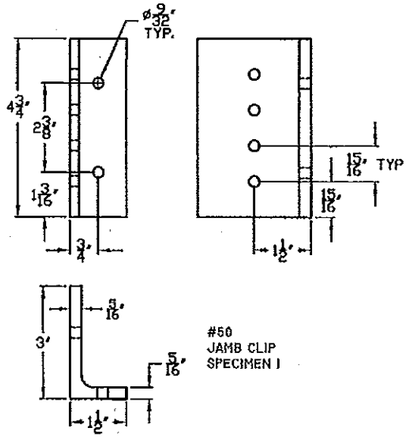
Parts

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

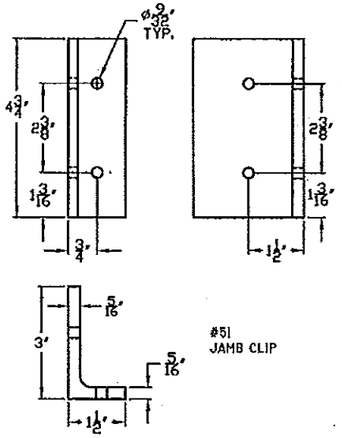
PROJECT:	TITLE: DC-6174 LOUVER
REVISION: C 11-16-11	DATE: 1-27-06
SCALE: 3" = 1'	SHEET NUM: 5 OF 8
DRW BY: J. BLAKE	DRW NO : RD-363-5

Revisions			
No.	Description	Date	By

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 11-1227.05
Expiration Date 03/08/2017
By
Miami Dade Product Control



#50
JAMB CLIP
SPECIMEN I



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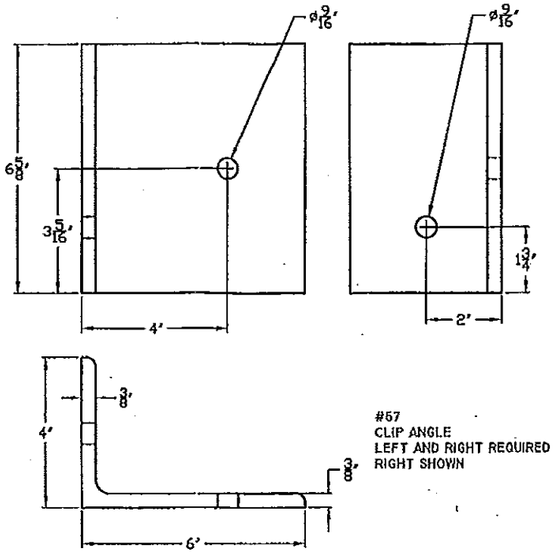
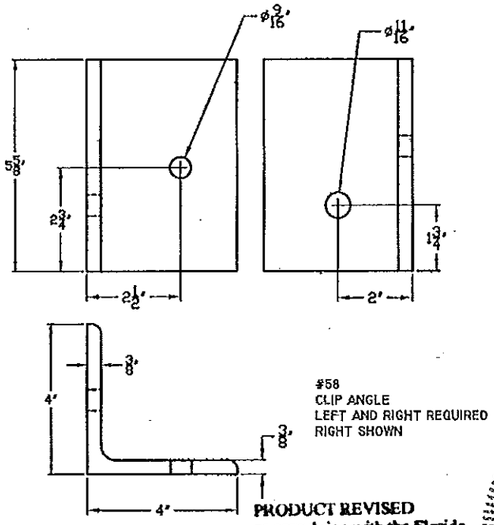
JAMB CLIP



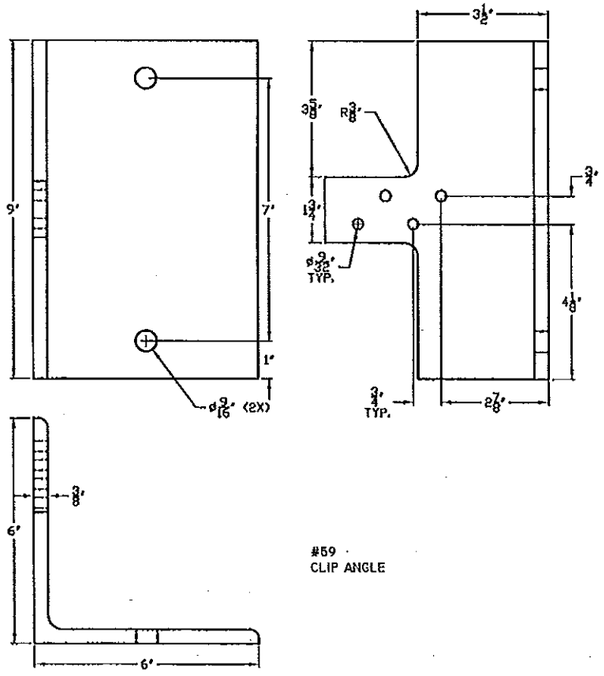
#57
CLIP ANGLE
LEFT AND RIGHT REQUIRED
RIGHT SHOWN



#58
CLIP ANGLE
LEFT AND RIGHT REQUIRED
RIGHT SHOWN

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-1021.10
Expiration Date 03/08/2017
By
Miami Dade Product Control

L. DAVID [illegible]
LICENSE
No. 50923
STATE OF FLORIDA
PROFESSIONAL ENGINEER
APR 03 2012



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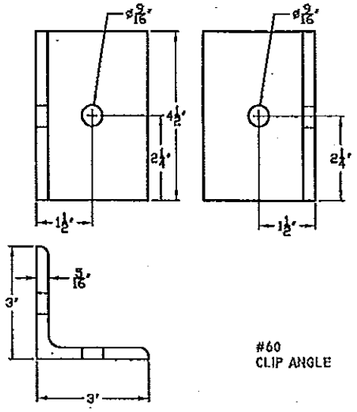
CLIP ANGLE



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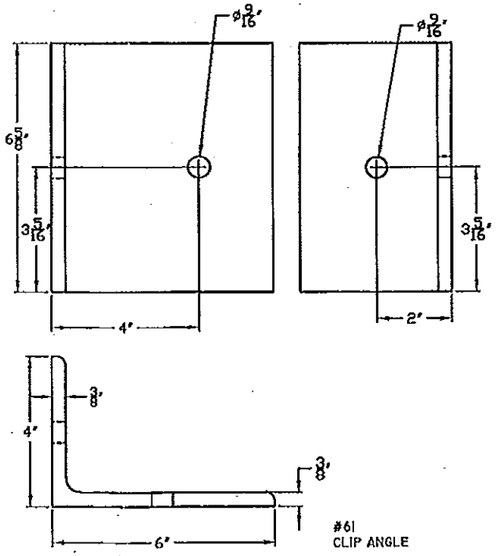
CLIP ANGLE



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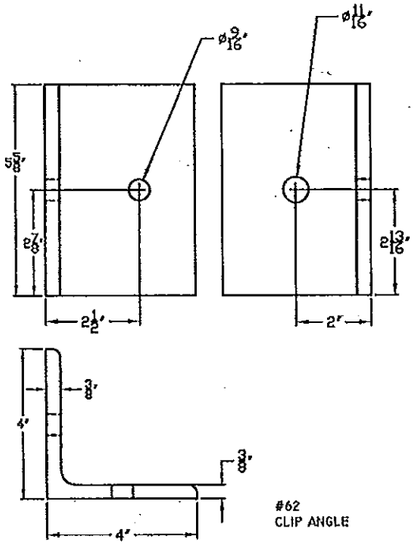
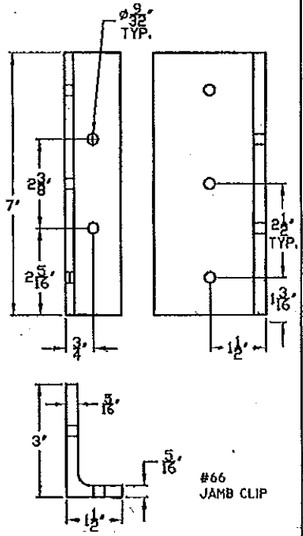
CLIP ANGLE



#62
CLIP ANGLE



#66
JAMB CLIP

Parts

CONSTRUCTION SPECIALTIES, INC.	PROJECT:		TITLE: DC-6174 LOUVER
49 MEEKER AVENUE, CRANFORD, NEW JERSEY	REVISION: C 11-16-11		DATE: 1-27-06
PHONE: 1-800-631-7379 / FAX: 908-272-2920	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 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 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
101	1/4-20 SCREW	S.S. THREAD FORMING OR PLATED CARBON STEEL SELF DRILLING FOR STRUCTURAL STEEL
105	1/2" HILTI KWIK BOLT III	S.S. STUD TYPE- 4 INCHES MINIMUM EMBEDMENT-TESTED EDGE DISTANCE 8"
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 CONCRETE
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

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 11-1227.05
Expiration Date 03/08/2017
By
Miami Dade Product Control

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 11-1021.10
Expiration Date 03/08/2017
By
Miami Dade Product Control

APR 03 2012

DAVID L. RICH
LICENSE
NO. 50923
STATE OF FLORIDA
PROFESSIONAL ENGINEER

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

PROJECT:	TITLE: DC 6174 LOUVER
REVISION: C 11-16-11	DATE: 1-27-06
SCALE: 1 1/2" = 1'	SHEET NUM: 7 OF 8
DRW BY: J. BLAKE	DRW NO : RD-363-7

ALLOWABLE SPAN IN FEET FOR SPECIMEN 6 VISIBLE AND INVISIBLE MULLION - DETAIL K/4 AND L/4

Design Wind load PSF

Tributary Distance For Each Mullion	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	9
30	9	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	9	8.5	7.8	7.3	6.8	6.4	6
42	9	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	9	8.5	7.6	6.9	6.4	5.9	5.4	5.1	4.8	4.5
54	9	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	5.1	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	3.5	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	3.2	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	2.8
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	2.6
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	2.4
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	2.4	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

Design Wind load PSF

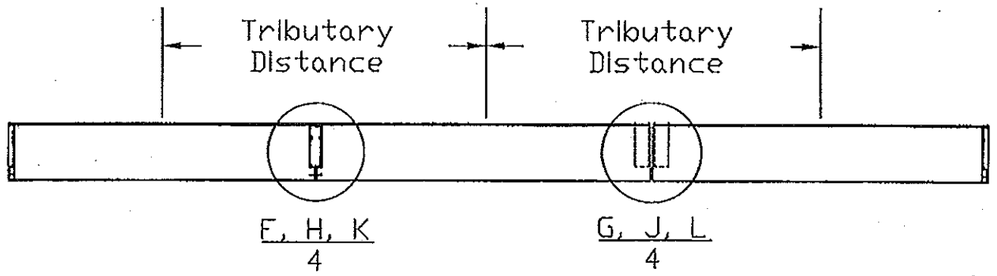
Tributary Distance For Each Mullion	40	50	60	70	80	90	100	110	120	130	140	150	160	170
24	10	10	10	10	10	10	10	10	10	10	10	10	10	10
30	10	10	10	10	10	10	10	10	10	10	10	10	10	10
36	10	10	10	10	10	10	10	10	10	10	10	10	9.4	8.8
42	10	10	10	10	10	10	10	10	10	9.9	9.2	8.6	8	7.6
48	10	10	10	10	10	10	10	10	9.4	8.7	8	7.5	7	6.6
54	10	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	10	9	8.2	7.5	6.9	6.4	6	5.6	5.3
66	10	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	10	9.4	8.3	7.5	6.8	6.3	5.8	5.4	5	4.7	4.4
78	10	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	10	9.2	8	7.1	6.4	5.8	5.4	4.9	4.6	4.3	4	3.8
90	10	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	3.3
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

Design Wind load PSF

Tributary Distance For Each Mullion	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	12
30	12	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	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	12	11.8	10.9	10.2	9.6	9
54	12	12	12	12	12	12	12	11.3	10.5	9.7	9.1	8.5	8
60	12	12	12	12	12	12	11.1	10.2	9.4	8.7	8.2	7.7	7.2
66	12	12	12	12	12	11.1	10.1	9.3	8.6	7.9	7.4	7	6.5
72	12	12	12	12	11.3	10.2	9.3	8.5	7.8	7.3	6.8	6.4	6
78	12	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	12	10.9	9.7	8.7	7.9	7.3	6.7	6.2	5.8	5.5	5.1
90	12	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

KEY FOR ALLOWABLE MULLION SPAN

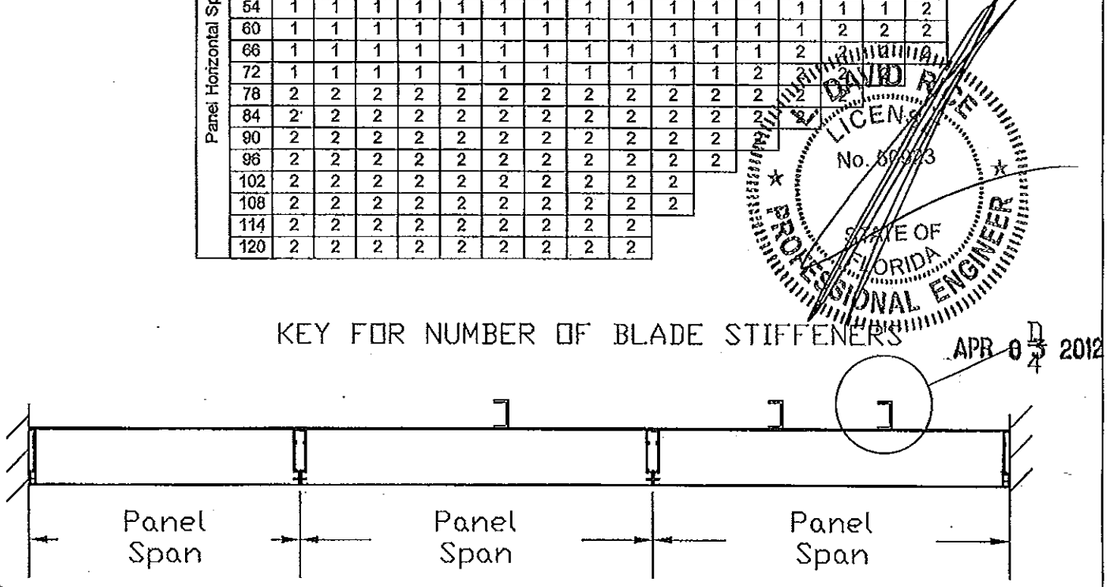


FOR THE REQUIRED WINDLOAD AND REQUIRED DISTANCE BETWEEN MULLIONS, FIND THE MAXIMUM HEIGHT OF THE MULLION COMBINATION. TABLES (LEFT) ARE ARRANGED FROM THE LIGHTEST TO HEAVIEST SECTION.

NUMBER OF STIFFENERS REQUIRED FOR EACH PANEL

Wind Load Pounds Per Square Foot

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	2
78	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
90	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
102	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
114	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



KEY FOR NUMBER OF BLADE STIFFENERS

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

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No 14-1021.10
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By
Miami Dade Product Control

PRODUCT RENEWED
as complying with the Florida Building Code
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Expiration Date 03/08/2017
By
Miami Dade Product Control

DAVID R. [illegible]
LICENSE
No. 60373
STATE OF FLORIDA
PROFESSIONAL ENGINEER

APR 0 4 2012

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

PROJECT:	TITLE: DC- 6174 LOUVER
REVISION: C 11-16-11	DATE: 1-27-06
SCALE: 1 1/2" = 1'	SHEET NUM: 8 OF 8
DRW BY: J. BLAKE	DRW NO : RD-363-8