



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
 (305) 375-2901 FAX (305) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.maimidade.gov/buildingcode

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

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed by Miami-Dade County Product Control Division and accepted by the Board of Rules and Appeals (BORA) 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 Division (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. BORA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Division 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 SP-537DC 5" Drainable Blade Louver.

APPROVAL DOCUMENT: Drawing No. **107256**, titled "SP-537DC 5" Drainable Blade Louver", sheets 1 through 8 of 8, dated 10/31/07, with revision 1 dated 02/28/08, prepared by Industrial Louvers, Inc., signed and sealed by L. David Rice, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Division.

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 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 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.**



Handwritten signature and date: 6/19/08

NOA No. 08-0513.08
Expiration Date: July 10, 2013
Approval Date: July 10, 2008
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **107256**, titled "SP-537DC 5" Drainable Blade Louver", sheets 1 through 8 of 8, dated 10/31/07, with revision 1 dated 02/28/08, prepared by Industrial Louvers, Inc., signed and sealed by L. David Rice, P.E.

B. TESTS

1. Test reports on 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
Along with marked-up drawings and installation diagram of Model SP-537DC Aluminum Louver, prepared by Architectural Testing, Inc., Test Report No. **79282.01-201-18**, dated 03/20/08, signed and sealed by Joseph A. Reed, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis prepared by Rice Engineering, dated 05/05/08, signed and sealed by L. David Rice, P.E.

D. QUALITY ASSURANCE

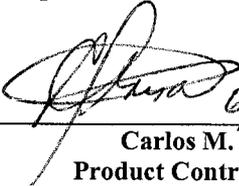
1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

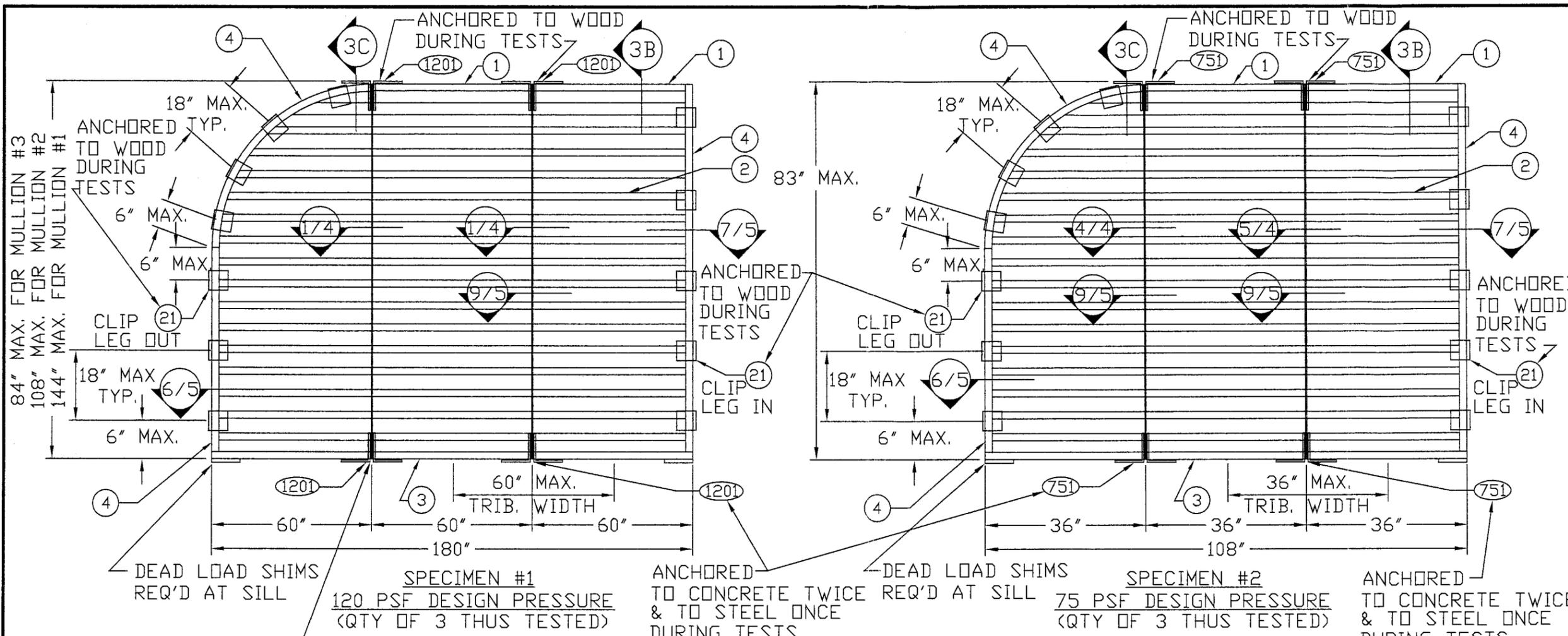
1. None.

F. STATEMENTS

1. Statement letter of conformance issued by Rice Engineering, dated 05/05/08, signed and sealed by L. David Rice, P.E.
2. Statement letter of no financial interest issued by Rice Engineering, dated 04/16/08, signed and sealed by L. David Rice, P.E.
3. Laboratory compliance letter issued by Architectural Testing, Inc. for Test Report No. **79282.01-201-18**, dated 03/20/08, signed and sealed by Joseph A. Reed, P.E.


6/19/08

Carlos M. Utrera, P.E.
Product Control Examiner
NOA No. 08-0513.08
Expiration Date: July 10, 2013
Approval Date: July 10, 2008



SPECIMEN #1
 120 PSF DESIGN PRESSURE
 (QTY OF 3 THUS TESTED)

SPECIMEN #2
 75 PSF DESIGN PRESSURE
 (QTY OF 3 THUS TESTED)

GENERAL NOTES:

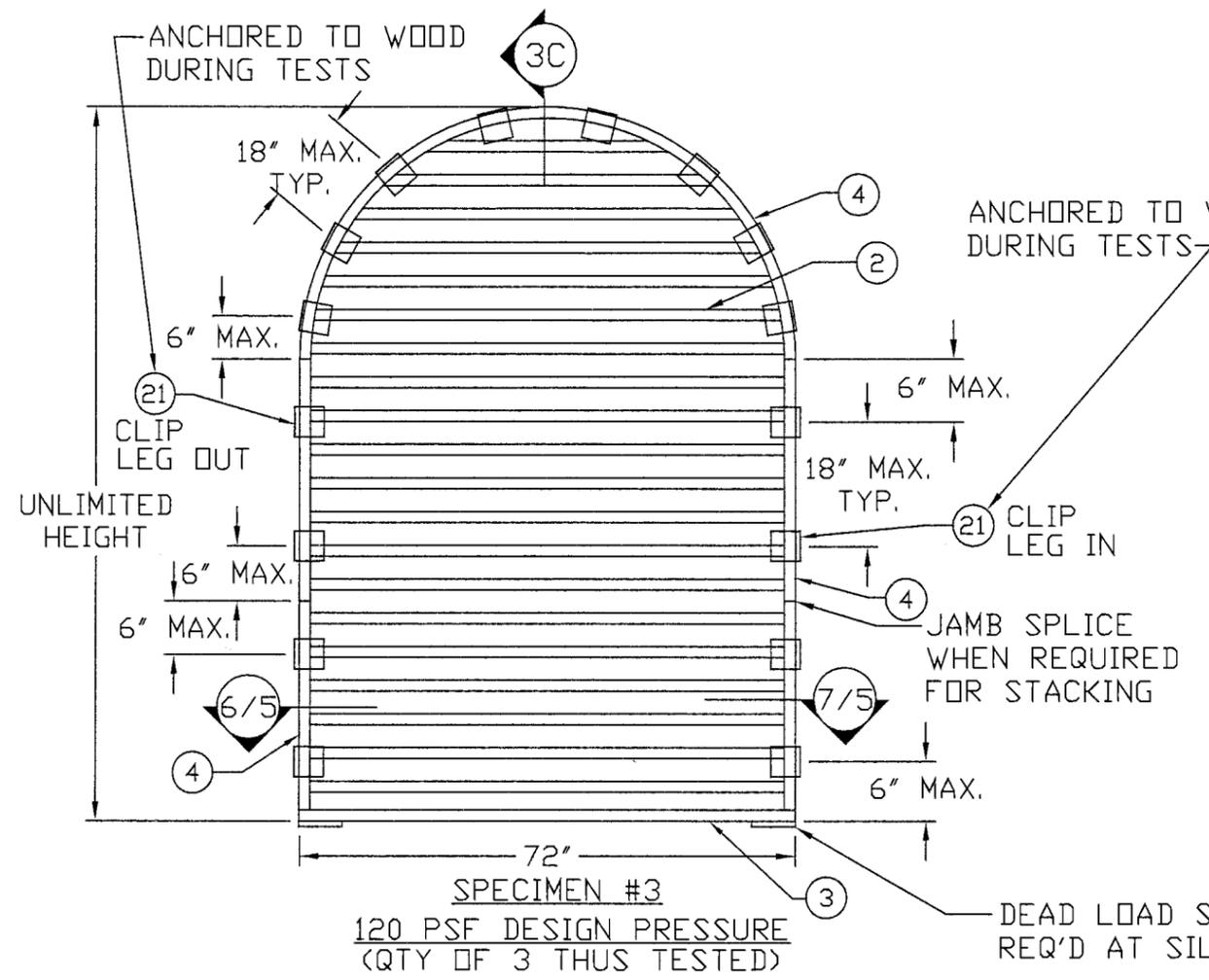
- IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS SUPERIMPOSED BY THE LOUVERS.
- THESE LOUVER SYSTEMS HAVE BEEN DESIGNED AND TESTED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE (FBC) AND FBC PROTOCOLS TAS-201, 202 & 203 FOR AREAS INCLUDING HIGH VELOCITY HURRICANE ZONES.
- EACH LOUVER ASSEMBLY SHALL BE PERMANENTLY LABELED AS FOLLOWS:
 INDUSTRIAL LOUVERS, INC.
 DELAND, MN
 MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
- ALL CONCRETE SUBSTRATE SHALL BE MINIMUM 4000 PSI.
- ALL WOOD SUBSTRATE SHALL BE MIN. G = 0.42 DENSITY.
- ALL METAL STUD SUBSTRATE SHALL BE MIN. 16 GA. Fy = 33 ksi.
- ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MIN. Fy = 36 ksi.
- PANEL WIDTHS & HEIGHTS ARE LIMITED AS SHOWN IN ELEVATIONS AND DETAILS.
- PANELS MAY BE HORIZONTALLY STACKED TO AN UNLIMITED WIDTH. VERTICAL STACKING MAY OCCUR PROVIDING A STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO WITHSTAND ALL LOADS SUPERIMPOSED BY THE LOUVERS. SINGLE, NON-REINFORCED PANELS MAY BE STACKED VERTICALLY TO AN UNLIMITED HEIGHT.
- SEPARATION OF DISSIMILAR METALS MUST BE MAINTAINED PER SECTION 2003.8.4 OF THE FBC.
- THIS SYSTEM HAS NOT BEEN TESTED FOR WATER INFILTRATION RESISTANCE AND IS NOT A WATER RESISTANT SYSTEM.
- 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 WATER RESISTANT/WATER PROOF EQUIPMENT, COMPONENTS OR SUPPLIES.

Approved as complying with the
 Florida Building Code
 Date 07/10/2008
 NOAH 08-10513-02
 Miami Dade Product Control
 Division
 By *[Signature]*

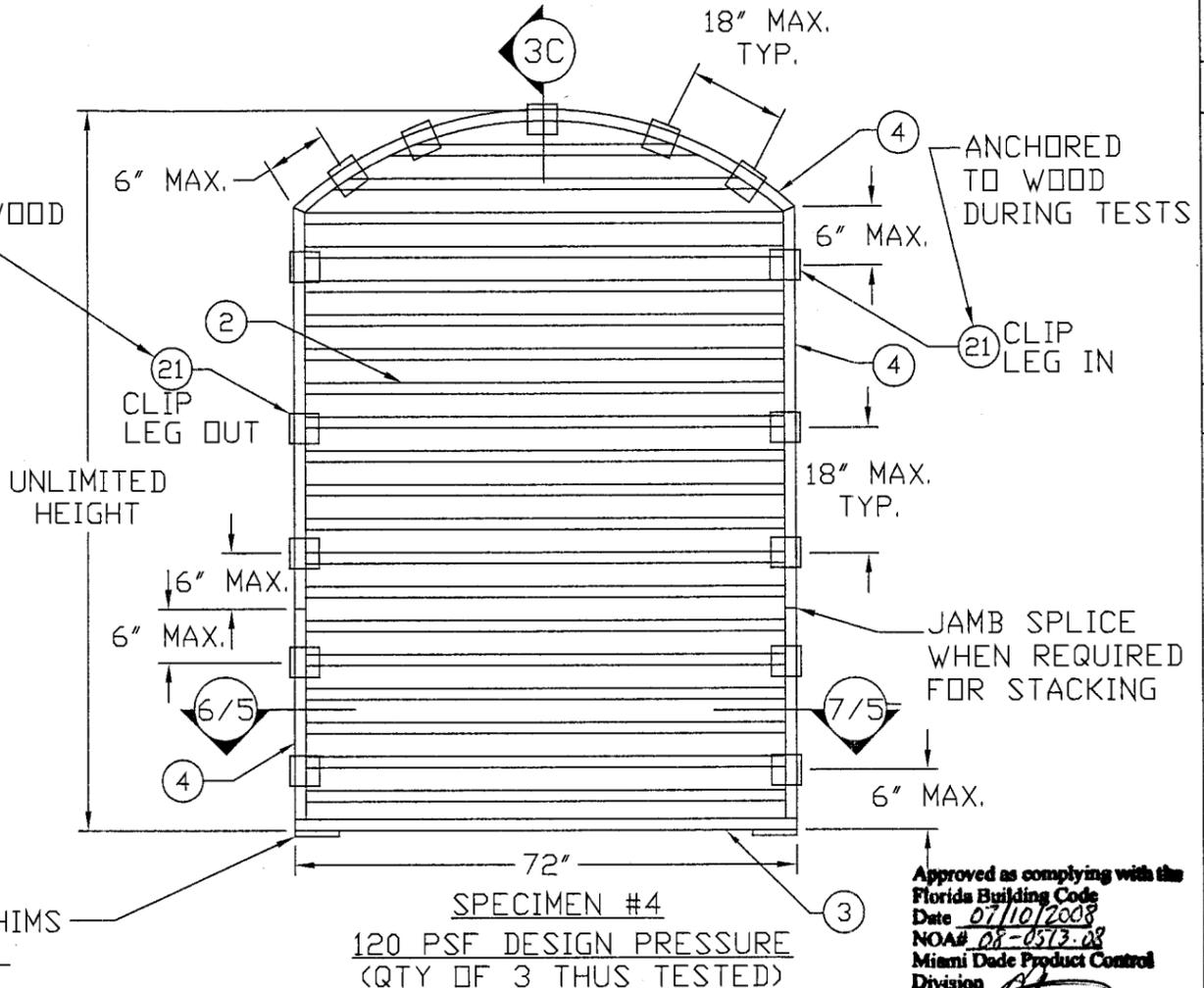
RICE ENGINEERING
 105 School Creek Trail
 Luxemburg, WI 54217
 Phone: 920.845.1042
 Fax: 920.845.1048
 www.rice-inc.com
 Florida Firm No: F-0100005061
 Certificate of Authorization: #9090
 L. David Rice
 Registration No: 50923

[Signature]
 APR 29 2008

NO.	REVISION DESCRIPTION	BY	DATE
	1		SHOW AS TESTED CONDITION LDR 2/28/08
SP-537DC 5" DRAINABLE BLADE LOUVER			
INDUSTRIAL LOUVERS INC. DELAND, MINNESOTA			
EXTERIOR ELEVATIONS			
DRAWN BY	CHK'D BY	DATE	SCALE
LR		10-31-07	
SHEET NO.			DRAWING NO.
1 OF 8			107256

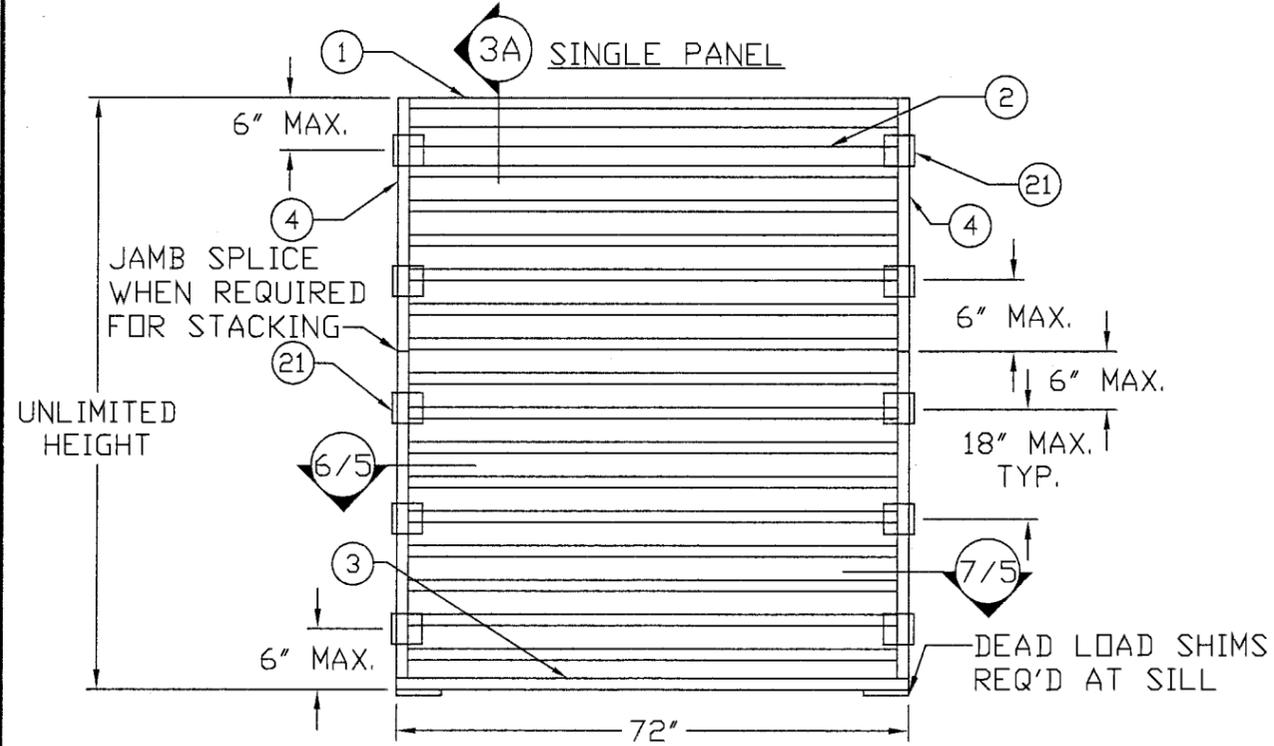


SPECIMEN #3
120 PSF DESIGN PRESSURE
(QTY OF 3 THUS TESTED)

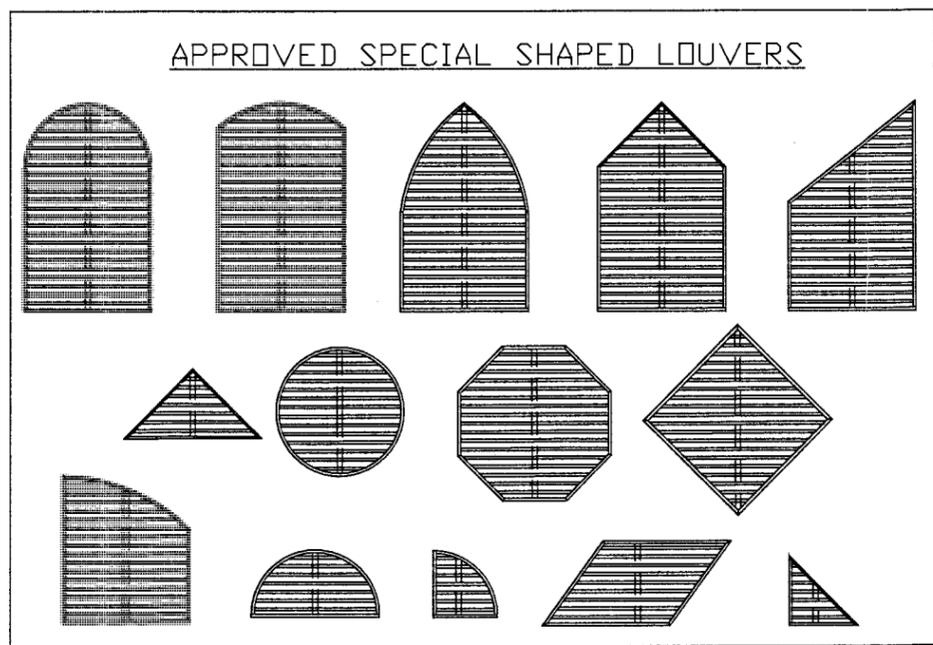


SPECIMEN #4
120 PSF DESIGN PRESSURE
(QTY OF 3 THUS TESTED)

Approved as complying with the
Florida Building Code
Date 07/10/2008
NOA# 08-0513-08
Miami Dade Product Control
Division
By *[Signature]*



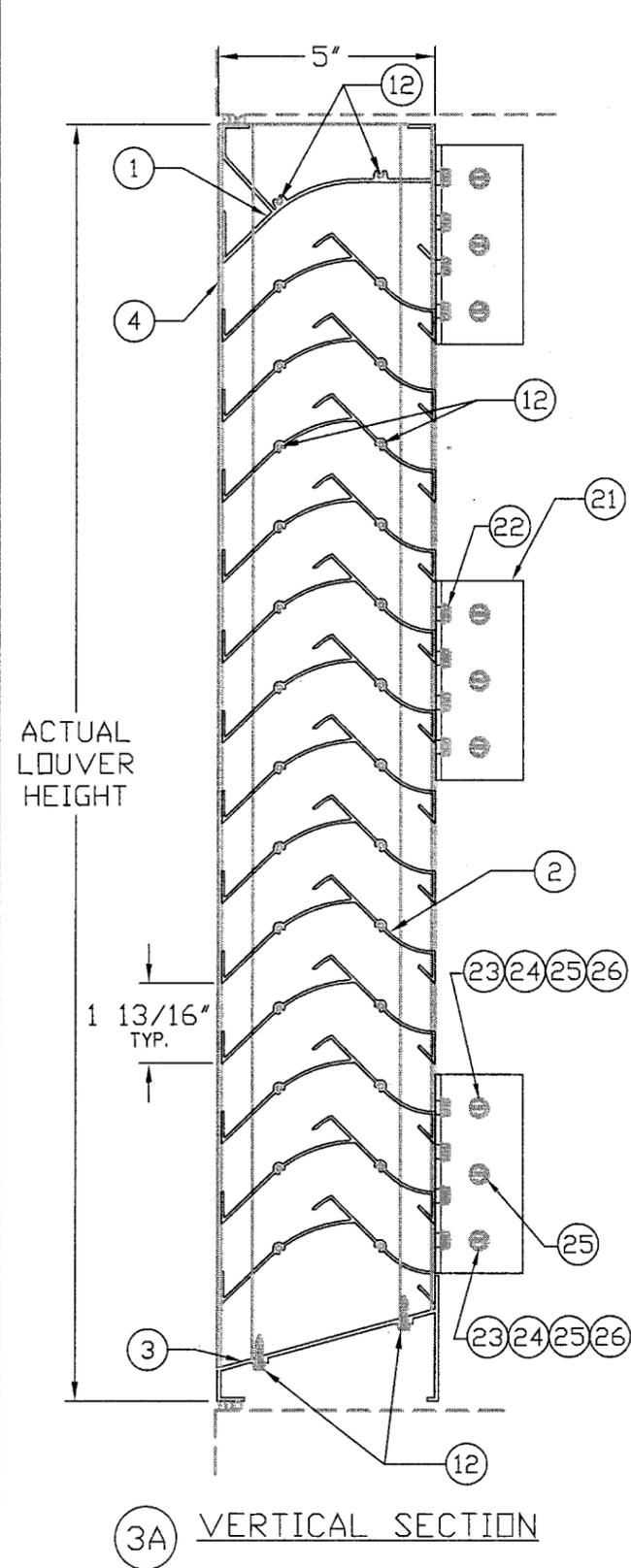
SINGLE PANEL



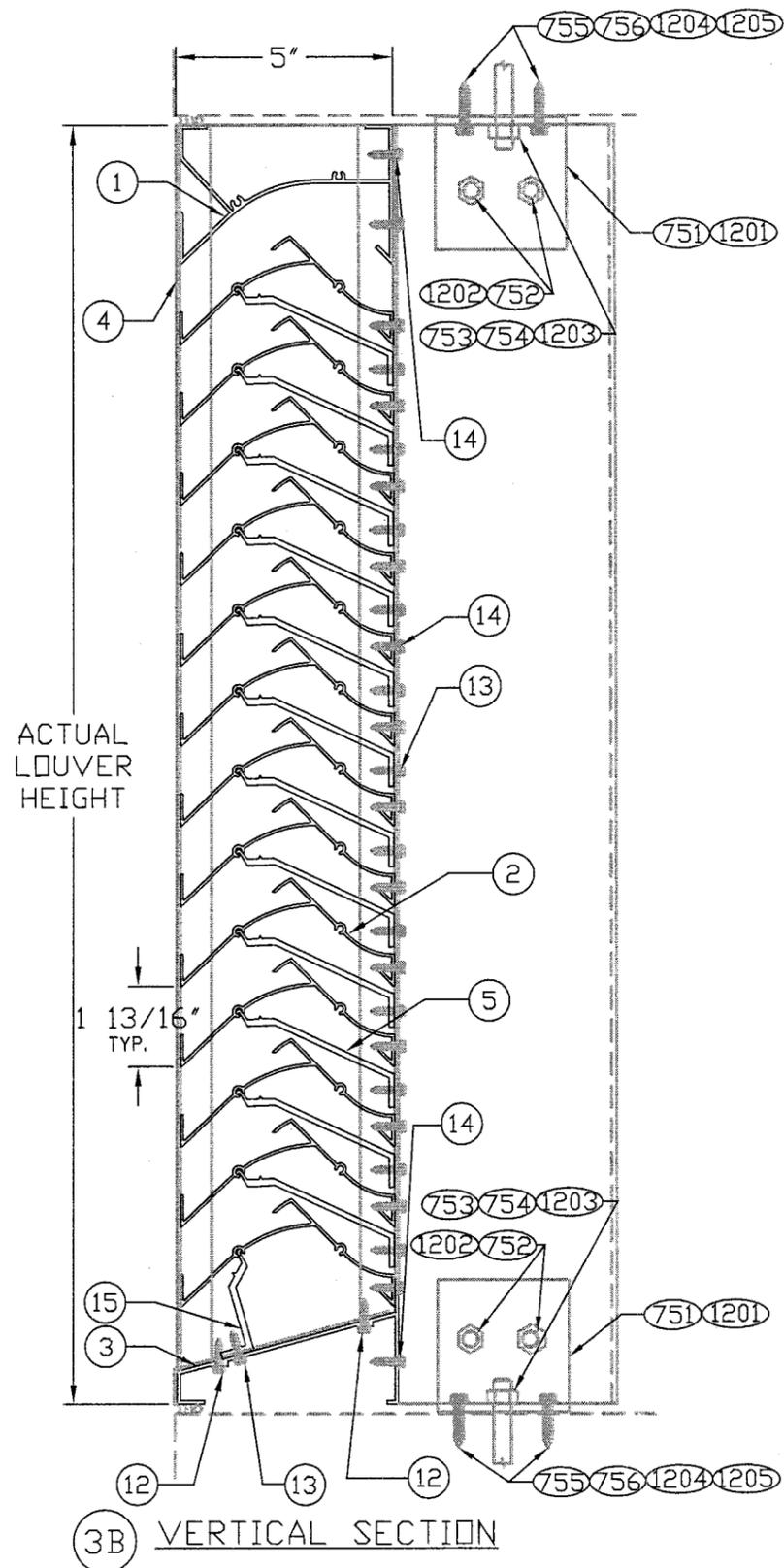
RICE
ENGINEERING
105 School Creek Trail
Luxemburg, WI 54217
Phone: 920.845.1042
Fax: 920.845.1048
www.rice-inc.com
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
L. David Rice
Registration No: 50923

[Signature]
APR 29 2008

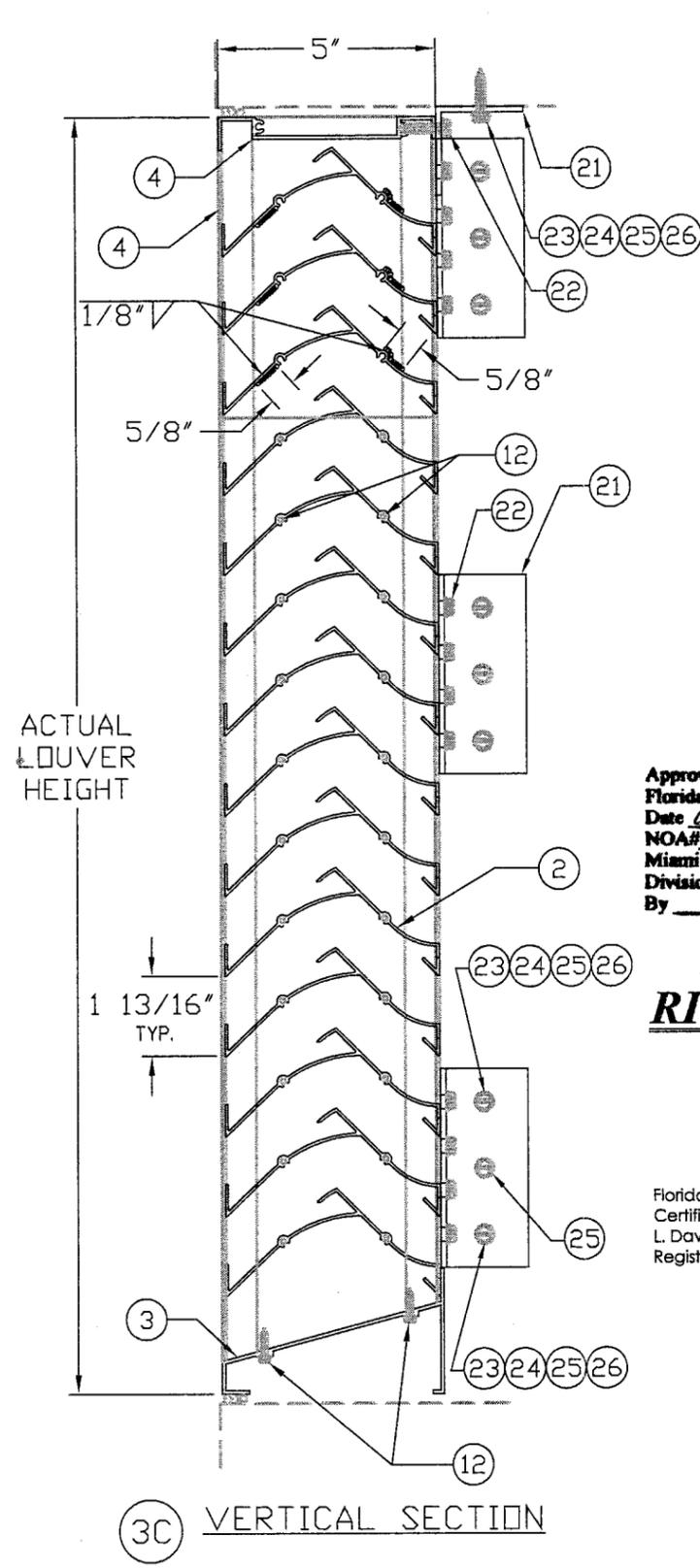
NO.	REVISION DESCRIPTION	BY	DATE
1	SHOW AS TESTED CONDITION	LDR	2/28/08
SP-537DC 5" DRAINABLE BLADE LOUVER			
INDUSTRIAL LOUVERS INC. DELAND MINNESOTA			
EXTERIOR ELEVATIONS			
DRAWN BY	CHK'D BY	DATE	SCALE
LR		10-31-07	
DRAWING NO.		SHEET NO.	
107256		2 OF 8	



3A VERTICAL SECTION



3B VERTICAL SECTION



3C VERTICAL SECTION

Approved as complying with the
 Florida Building Code
 Date 07/10/2008
 NOA# 08-0513.08
 Miami Dade Product Control
 Division
 By *[Signature]*

RICE
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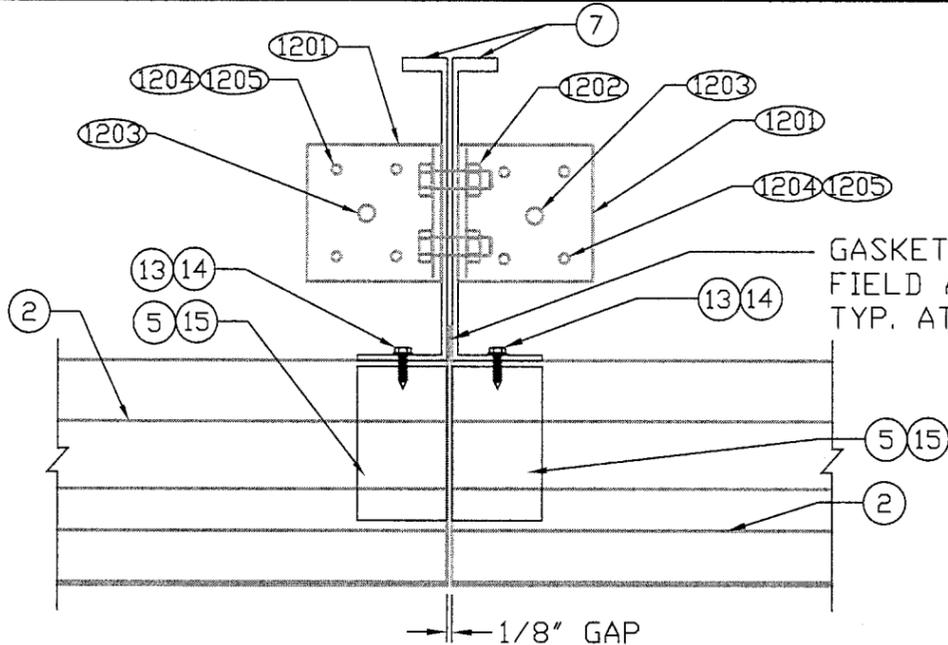
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NO.	REVISION DESCRIPTION	BY	DATE
1	SHOW AS TESTED CONDITION	LDR	2/28/08

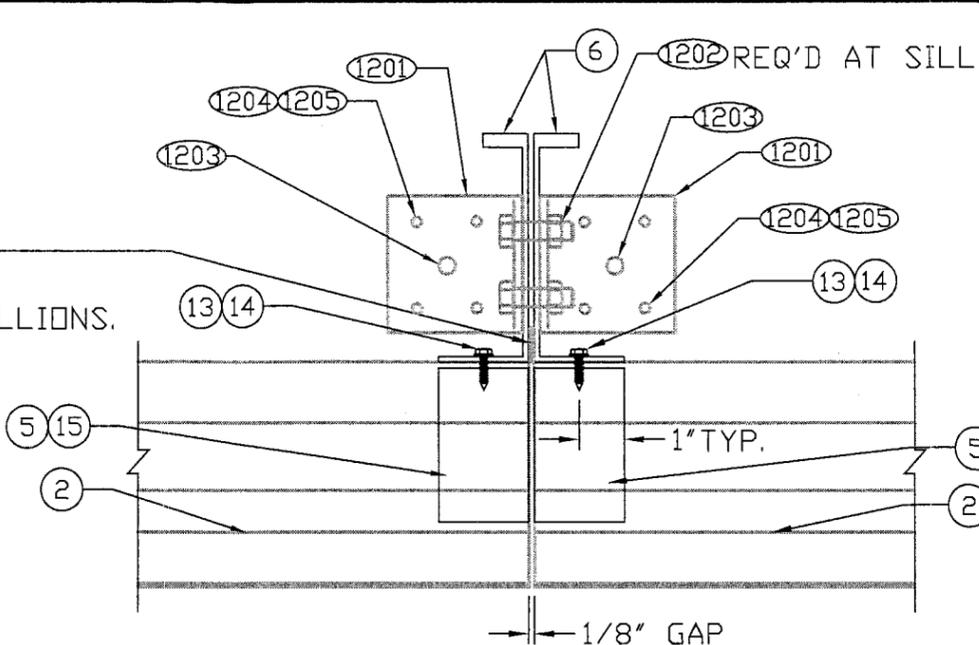
SP-537DC 5" DRAINABLE BLADE LOUVER	INDUSTRIAL LOUVERS INC.	DELAND MINNESOTA
VERTICAL SECTIONS		

DRAWN BY LR	CHECK'D BY	DATE 10-31-07	SCALE	DRAWING NO. 107256
SHEET NO. 3 OF 8				

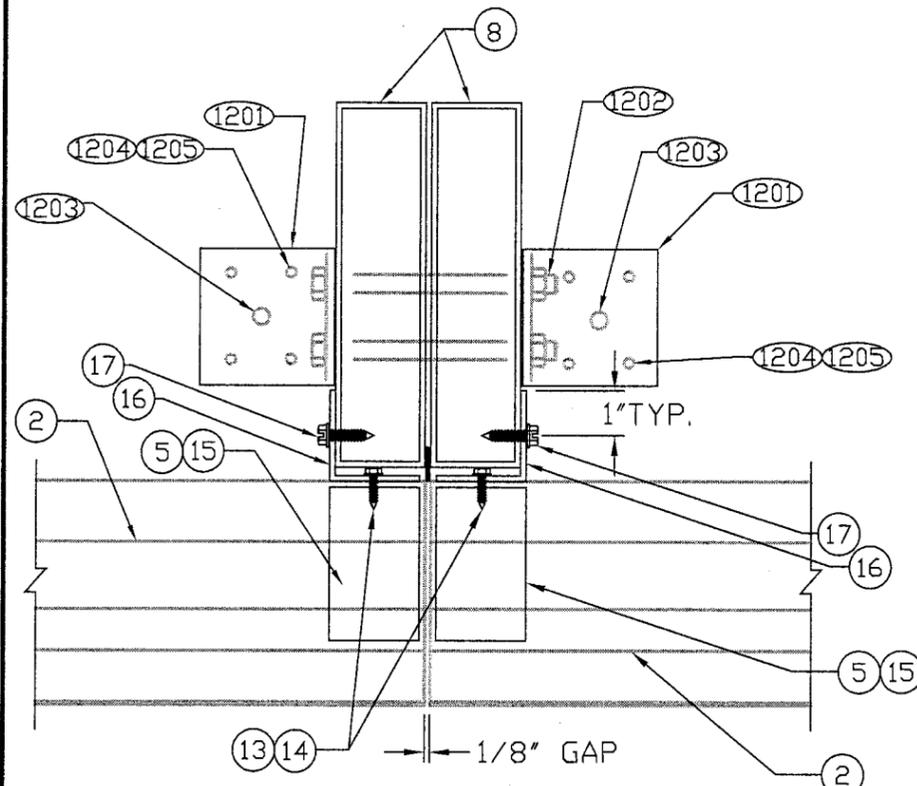
APR 29 2008



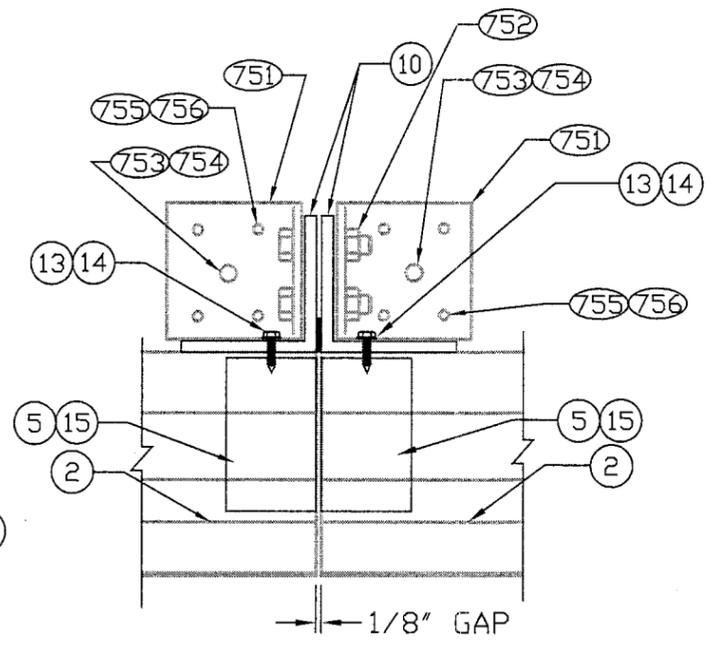
2 MULLION & MULLION ANCHOR CLIPS
W/ DOUBLE 1/8" X 6 5/8" DEEP CHANNELS
120 PSF



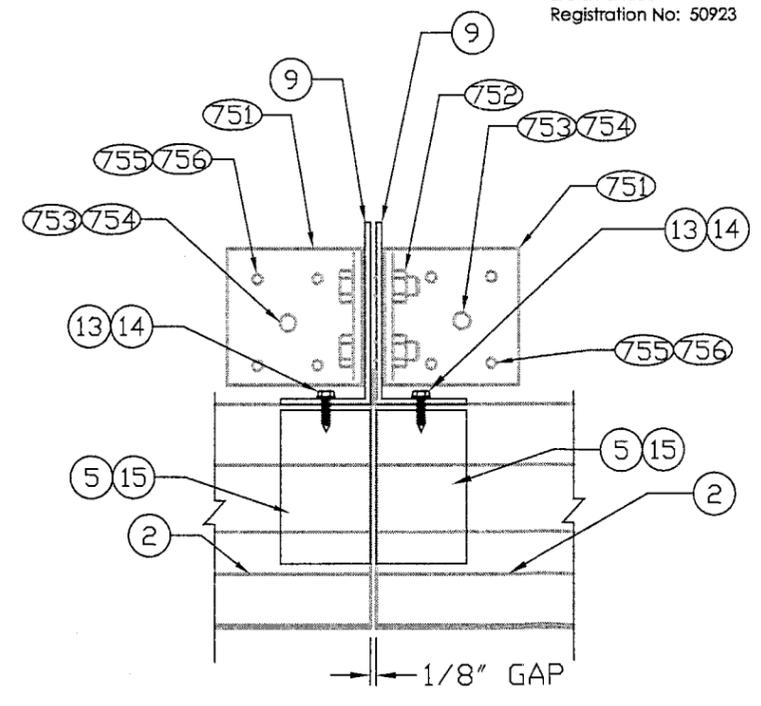
3 MULLION & MULLION ANCHOR CLIPS
W/ DOUBLE 1/8" X 5" DEEP CHANNELS
120 PSF



1 MULLION & MULLION ANCHOR CLIPS
W/ DOUBLE 2" X 8" X 1/8" TUBES
120 PSF



4 MULLION & MULLION ANCHOR CLIPS
W/ (2) 3" X 3" X 1/4" ANGLES
75 PSF



5 MULLION & MULLION ANCHOR CLIPS
W/ (2) 2" X 4" X 1/8" ANGLES
75 PSF

GASKET TAPE,
FIELD APPLIED
TYP. AT ALL MULLIONS.

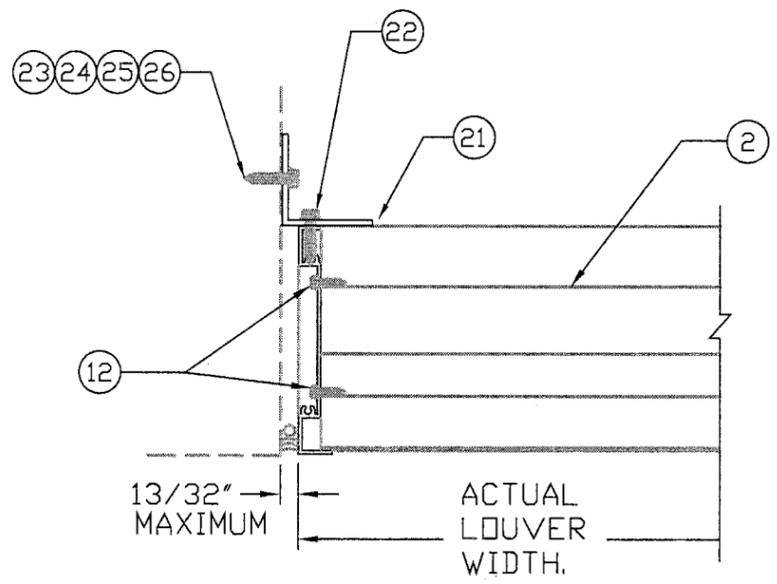
Approved as complying with the
Florida Building Code
Date 07/10/2008
NOA# DR-0573.62
Miami Dade Product Control
Division
By *[Signature]*

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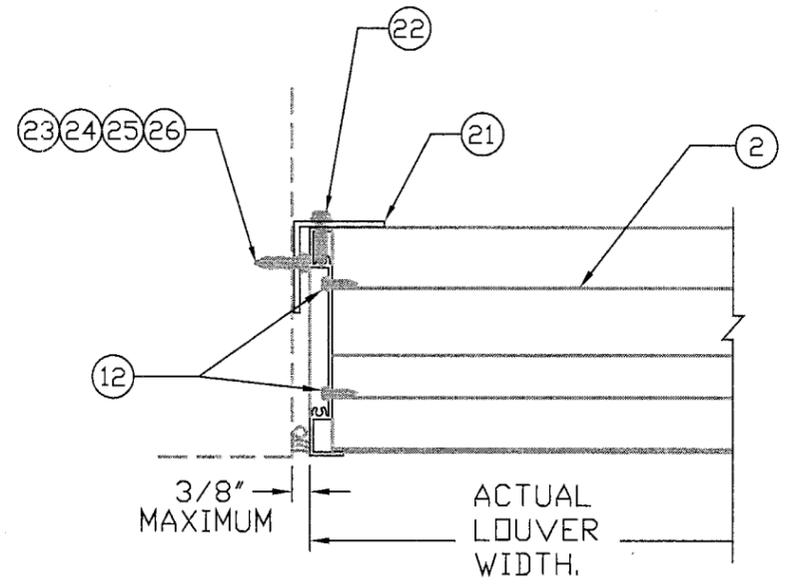
Florida Firm No: F-01000005061
Certificate of Authorization: #9090
L. David Rice
Registration No: 50923

NO.	REVISION DESCRIPTION	BY	DATE
1	SHOW AS TESTED CONDITION	LDR	2/28/08
SP-537DC 5" DRAINABLE BLADE LOUVER			
MULLION DETAILS		INDUSTRIAL LOUVERS INC. DELAND, MINNESOTA	
DRAWN BY	CHK'D BY	DATE	SCALE
DR	DR	10-31-07	
SHEET NO.		DRAWING NO.	
4 OF 8		107256	

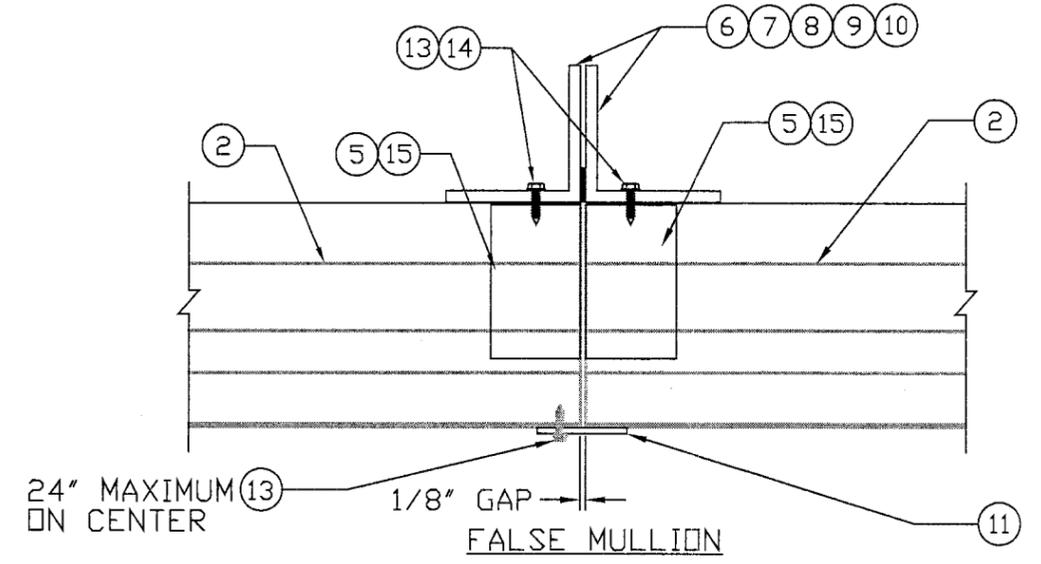
[Signature]
APR 29 2008



6 JAMB ANCHOR CLIP (LEG OUT)



7 JAMB ANCHOR CLIP (LEG IN)



9 EXPOSED FLAT BAR ATTACHED AT FACE OF LOUVER TO SIMULATE A VISIBLE VERTICAL MULLION.

Approved as complying with the Florida Building Code
 Date 07/10/2008
 NOAH 02-0513-02
 Miami Dade Product Control
 Division
 By *[Signature]*

RICE ENGINEERING
 105 School Creek Trail
 Luxemburg, WI 54217
 Phone: 920.845.1042
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 Certificate of Authorization: #9090
 L. David Rice
 Registration No: 50923

NO.	REVISION DESCRIPTION	BY	DATE
1	SHOW AS TESTED CONDITION	LDR	2/28/08

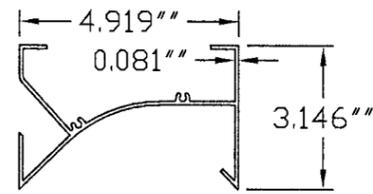
SP-537DC 5" DRAINABLE BLADE LOUVER

INDUSTRIAL LOUVERS INC.
 DELAND, MINNESOTA

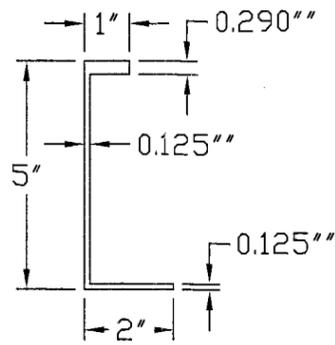
JAMB & FALSE MULLION DETAILS

DRAWN BY	LR
CHK'D BY	
DATE	10-31-07
SCALE	
DRAWING NO.	107256

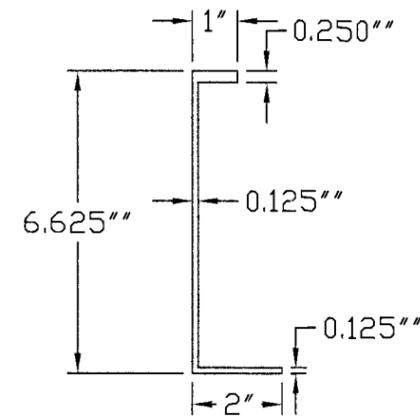
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 APR 29 2008



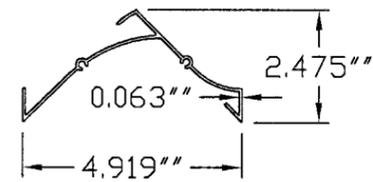
ITEM #1
TOP FRAME



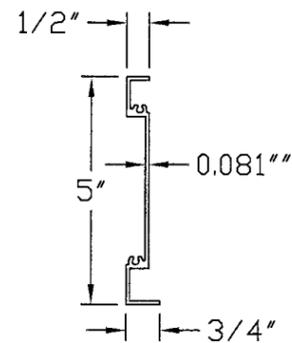
ITEM #6
5' CHANNEL



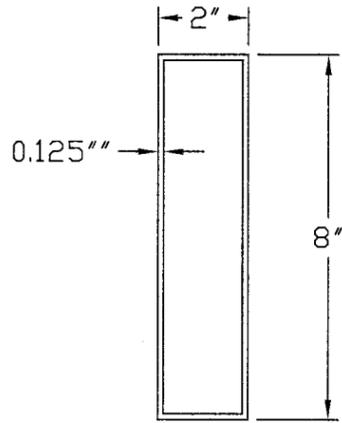
ITEM #7
6.625' CHANNEL



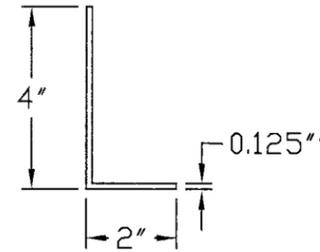
ITEM #2
537XP BLADE



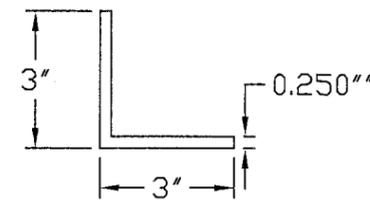
ITEM #4
JAMB SIDE FRAME



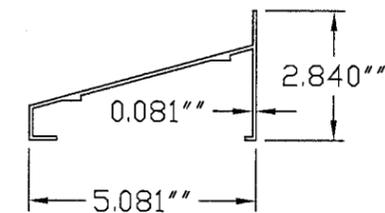
ITEM #8
8'X2' TUBE



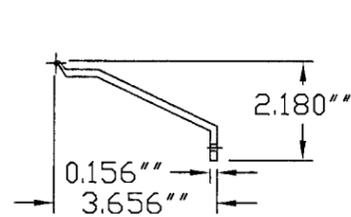
ITEM #9
4'X2' ANGLE



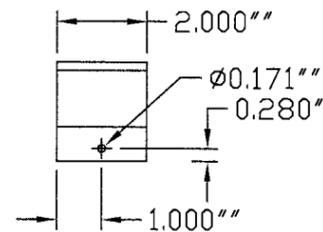
ITEM #10
3'X3' ANGLE



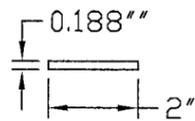
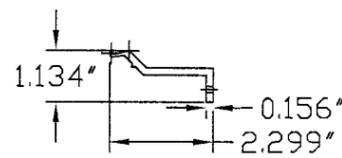
ITEM #3
BOTTOM FRAME



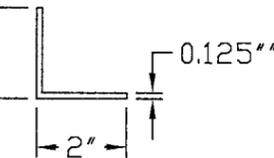
ITEM #5
BLADE BRACE



ITEM #15
BOTTOM BLADE BRACE



ITEM #11
2'X3/16' FLAT BAR



ITEM #16
2'X2' ANGLE

Approved as complying with the
Florida Building Code
Date 07/10/2008
NOA# 08-0513.02
Miami Dade Product Control
Division

RICE
ENGINEERING

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

Florida Firm No: F-0100005061
Certificate of Authorization: #9090
L. David Rice
Registration No: 50923

NO.	REVISION DESCRIPTION	BY	DATE
1	SHOW AS TESTED CONDITION LDR		2/28/08

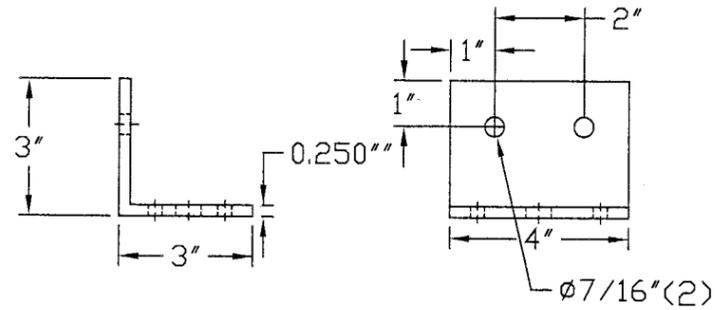
SP-537DC 5" DRAINABLE BLADE LOUVER

INDUSTRIAL LOUVERS INC.
DELAND MINNESOTA

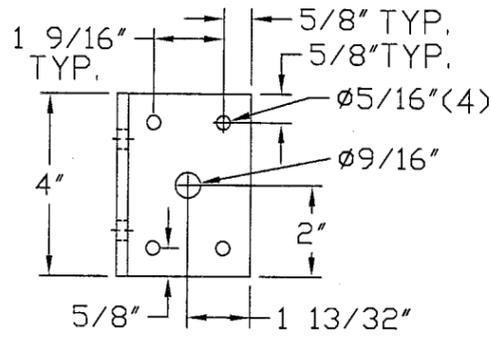
PART DETAILS

DRAWN BY	LR
CHK'D BY	
DATE	10-31-07
SCALE	
DRAWING NO.	107256
SHEET NO.	6 OF 8

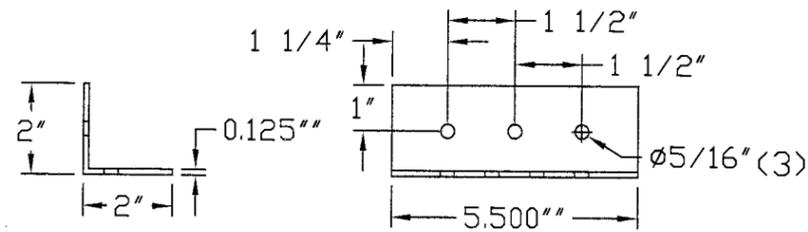
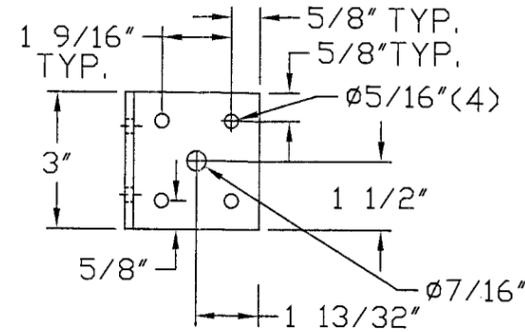
APR 29 2008



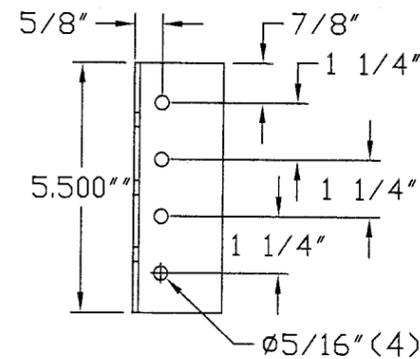
ITEM #1201
3'X3' MULLION ANCHOR CLIP - 4' LONG



ITEM #751
3'X3' MULLION ANCHOR CLIP - 3' LONG



ITEM #21
2'X2'X1/8' JAMB ANCHOR CLIP



Approved as complying with the
Florida Building Code
Date 07/10/2008
NOA# DB-0513-08
Miami Dade Product Control
Division
By [Signature]

RICE
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105 School Creek Trail
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[Signature]
APR 29 2008

NO.	REVISION DESCRIPTION	BY	DATE
1	SHOW AS TESTED CONDITION	LDR	2/28/08

SP-537DC 5" DRAINABLE BLADE LOUVER	INDUSTRIAL LOUVERS INC. DELAND MINNESOTA
ANCHOR CLIP DETAILS	

DRAWN BY	LR
CHK'D BY	
DATE	10-31-07
SCALE	
DRAWING NO.	107256

SHEET NO.	7 OF 8
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LOUVER PARTS LIST	
ITEM #	DESCRIPTION
1	TOP FRAME 0.081" THK 6063-T6 ALUMINUM
2	537XP BLADE 0.063" THK 6063-T6 ALUMINUM
3	BOTTOM FRAME 0.081" THK 6063-T6 ALUMINUM
4	JAMB SIDE FRAME 0.081" THK 6063-T6 ALUMINUM
5	BLADE BRACE 0.156" THK 6063-T6 ALUMINUM
6	5"X2"X1"X0.125" THK CHANNEL 6061-T6 ALUMINUM
7	6.625"X2"X1"X0.125" THK CHANNEL 6061-T6 ALUMINUM
8	8"X2"X0.125" THK TUBE 6061-T6 ALUMINUM
9	4"X2"X0.125" THK ANGLE 6061-T6 ALUMINUM
10	3"X3"X1/4" THK ANGLE 6061-T6 ALUMINUM
11	2"X3/16" THK FLAT BAR 6063-T6 ALUMINUM
12	#8 X 3/4" S.S. HWH SCREW ALLOY 1,2,3 COND. CW
13	#10 X 5/8" S.S. HWH SCREW ALLOY 1,2,3 COND. CW (1/BRACE)
14	#10 X 5/8" S.S. HWH SCREW ALLOY 1,2,3 COND. CW (1/BLADE)
15	BOTTOM BLADE BRACE 0.156" THK 6063-T6 ALUMINUM
16	2"X2"X1/8" THK 6061-T6 ALUMINUM ANGLES
17	1/4" DIA. 304 STAINLESS STEEL COND. CW SCREW - 7" D.C.

JAMB ANCHOR CLIP SCHEDULE						
ITEM #	QUANTITY	DESCRIPTION	SUBSTRATE	MIN. EMB.	MIN. EDGE	DN CENTER
* 21	1	2"X2"X1/8" 6061-T6 ALUMINUM ANGLE - 5-1/2" LONG	---	---	---	---
* 22	4 / CLIP	1/4" X 1-1/2" 304 S.S. COND. CW SELF-DRILL SCREW	ALUM	N/A	N/A	1'
* 23	2 / CLIP	1/4" DIA. S.S. SELF-DRILLING/SELF-TAPPING FASTENER	16 GA MIN. STL/STL STUDS	---	---	3'
* 24	2 / CLIP	1/4" DIA. S.S. HILTI KWIK BOLT III	ASTM C90 TYPE II CONC. BLOCK	2"	3"	3'
* 25	3 / CLIP	1/4" DIA. S.S. LAGBOLTS	SPF WOOD SG = 0.42	3"	N/A	1-1/2'
* 26	2 / CLIP	1/4" DIA. S.S. HILTI KWIK BOLT III	4000 PSI MIN. CONCRETE	2"	3"	3'

* DENOTES USAGE DURING TESTING

75 PSF MULLION ANCHOR CLIP SCHEDULE						
ITEM #	QUANTITY	DESCRIPTION	SUBSTRATE	MIN. EMB.	MIN. EDGE	DN CENTER
* 751	2/MULLION END	3"X3"X3/16" 6061-T6 ALUMINUM ANGLE - 3" LONG	---	---	---	---
* 752	2/MULLION END	1/4" DIA. 304 S.S. COND CW BOLT	---	N/A	N/A	1-1/2'
* 753	1 / CLIP	3/8" DIA. S.S. THREADED ROD W/ POWERS AC-100 EPOXY	ASTM C90 GROUT FILLED CMU	3-1/2"	3"	---
* 754	1 / CLIP	3/8" DIA. S.S. POWERS POWER-STUD	4000 PSI CONCRETE	3-1/2"	3"	---
* 755	2 / CLIP	1/4" DIA. HWH TEK FASTENER WITH CLIMASEAL FINISH	1/4" MIN. STL	N/A	N/A	N/A
* 756	4 / CLIP	1/4" DIA. S.S. LAGBOLTS	SPF WOOD SG = 0.42	3"	N/A	N/A

* DENOTES USAGE DURING TESTING

120 PSF MULLION ANCHOR CLIP SCHEDULE						
ITEM #	QUANTITY	DESCRIPTION	SUBSTRATE	MIN. EMB.	MIN. EDGE	DN CENTER
* 1201	2/MULLION END	3"X3"X1/4" 6061-T6 ALUMINUM ANGLE - 4" LONG	---	---	---	---
* 1202	2/MULLION END	3/8" DIA. 304 S.S. COND CW BOLT	---	N/A	N/A	2"
* 1203	1 / CLIP	1/2" DIA. S.S. THREADED ROD W/ POWERS AC-100 EPOXY	4000 PSI CONCRETE	4-1/4"	4"	---
* 1204	4 / CLIP	1/4" DIA. HWH TEK FASTENER WITH CLIMASEAL FINISH	1/4" MIN. STL	N/A	N/A	N/A
* 1205	4 / CLIP	1/4" DIA. S.S. LAGBOLTS	SPF WOOD SG = 0.42	5-1/2"	N/A	N/A

* DENOTES USAGE DURING TESTING

Approved as complying with the
Florida Building Code
Date 07/10/2008
NOA# 08-051308
Miami Dade Product Control
Division
By [Signature]

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Certificate of Authorization: #9090
L. David Rice
Registration No: 50923

NO.	REVISION	DESCRIPTION	BY	DATE
	1	SHOW AS TESTED CONDITION	LDR	2/28/08
SP-537DC 5" DRAINABLE BLADE LOUVER				
INDUSTRIAL LOUVERS INC. DELANO MINNESOTA				
PART DESCRIPTIONS				
DRAWN BY	CHK'D BY	DATE	SCALE	DRAWING NO.
LR		10-31-07		107256
SHEET NO. 8 OF 8				

APR 29 2008