



**MIAMI-DADE COUNTY**  
**BUILDING AND NEIGHBORHOOD COMPLIANCE DEPARTMENT (BNC)**  
**BOARD AND CODE ADMINISTRATION DIVISION**

**MIAMI-DADE COUNTY**  
**PRODUCT CONTROL SECTION**  
 11805 SW 26 Street, Room 208  
 Miami, Florida 33175-2474  
 T (786) 315-2590 F (786) 315-2599

**NOTICE OF ACCEPTANCE (NOA)**

[www.miamidade.gov/building/home/asp](http://www.miamidade.gov/building/home/asp)

**Industrial Louvers, Inc.**  
**511 South 7<sup>th</sup> 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 Section 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 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. BORA 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 653XPDC 6" Aluminum Louver**

**APPROVAL DOCUMENT:** Drawing No. **DCT**, titled "653XPDC 6" Drainable Blade Louver" dated 10/07/09, with Revision 5 dated 08/25/10, 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 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, Geneva, AL 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]*  
 01/13/11

**NOA No. 10-1006.15**  
**Expiration Date: February 02, 2016**  
**Approval Date: February 02, 2011**  
 Page 1

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **DCT**, titled "653XPDC 6" Drainable Blade Louver" dated 10/07/09, with Revision 5 dated 08/25/10, 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 three Series/Model 653XPDC, aluminum louvers, prepared by Architectural Testing, Inc., Test Report No. **99545.01-202-18**, dated 08/31/10, signed and sealed by Joseph A. Reed, P.E.

**C. CALCULATIONS**

1. Model 653 XPDC 6" Drainable Blade Louver, prepared by Rice Engineering, dated 09/28/10, signed and sealed by L. David Rice, P.E.

**D. QUALITY ASSURANCE**

1. Miami-Dade Building and Neighborhood Compliance Department (BNC)

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letter of code compliance to FBC 2007 issued by Rice Engineering, dated 09/28/10, signed and sealed by L. David Rice, P.E.
2. Statement letter of no financial Interest issued by Rice Engineering, dated 09/28/10, signed and sealed by L. David Rice, P.E.

**G. OTHERS**

1. Test Proposal No. **10-0097**, issued to Industrial Louvers, Inc, for their Model 653XPMDC 6" Drainable Blade Louver, approved on 03/18/10.



01/13/11

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Carlos M. Utrera, P.E.  
Product Control Examiner  
NOA No. 10-1006.15  
Expiration Date: February 02, 2016  
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MULLION ANCHOR LIST USING 3" X 3" X 1/4" ALUMINUM CLIP ANGLES

ITEM	SUBSTRATE	FASTENER(S)	MIN. EMBEDMENT	MIN. EDGE DISTANCE
MA01	CONCRETE	(1) 5/8" DIA. S.S. THREADED ROD W/ HILTI HIT-RE 500 EPOXY ANCHORS PER CLIP ANGLE	2 7/8"	2 3/4"
MA02	* STEEL	(4) 1/4" DIA. S.S. SELF DRILLING SELF TAPPING SCREWS PER CLIP ANGLE	N.A.	1/2"
MA03	WOOD	(4) 3/8" DIA. S.S. LAG BOLTS PER CLIP ANGLE	2 3/4"	1 1/2"

\* STEEL SUBSTRATE MUST BE A MINIMUM 12 GA W/ Fy = 50 ksi OR 1/8" THICK W/ Fy = 36 ksi.

**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

LOUVER PARTS LIST

ITEM	DESCRIPTION	MATERIAL
1	653XPDC TOP FRAME	6063-T6
2	653XPDC BOTTOM FRAME	6063-T6
3	653XPDC JAMB FRAME	6063-T6
4	653XPDC BLADE	6063-T6
5	6" SUPPORT BRACE MF	6063-T6
6	1" SLIP MULLION	6063-T6
7	2" X 2" X 1/8" ANGLE - 3 5/8" LONG	6061-T6
8	2" X 4" X 1/8" ANGLE - 6 1/8" LONG	6061-T6
9	3" X 3" X 1/4" ANGLE - 3" LONG	6063-T6
10	2" X 7" X 1" X 3/16" CHANNEL	6061-T6
11	2" X 5" X 1" X 1/8" CHANNEL	6061-T6
12	2" X 1/8" FLAT BAR	6063-T6
13	#12 X 1 1/2" SL PH SM SCREW	18-8 SS CW
14	#12 X 1" SL HWH SM SCREW	18-8 SS CW
15	3/8"-16 X 1 1/4" HH BOLT	18-8 SS CW
16	1/4"-20 X 1" HH BOLT	18-8 SS CW
17	#12 X 3/4" SL PAN HD. SM SCREW	18-8 SS CW
18	#14 X 1 1/2" SELF-DRILLING SCREW	18-8 SS CW

JAMB ANCHOR LIST USING 2" X 2" X 1/8" ALUMINUM CLIP ANGLES (3 5/8" LONG)

ITEM	SUBSTRATE	SPAN TO ADJACENT JAMB OR MULLION	MAX CLIP ANGLE SPACING	FASTENER(S)	MIN. EMBEDMENT	MIN. EDGE DISTANCE
JA01	CONCRETE	36" OR LESS	20" O.C.	(1) 1/4" DIA. S.S. HILTI KWIK-BOLT III PER CLIP ANGLE	2"	2 7/8"
JA02		72" OR LESS	10" O.C.	(1) 1/4" DIA. S.S. HILTI KWIK-BOLT III PER CLIP ANGLE	2"	2 7/8"
JA03		96" OR LESS	6 7/8" O.C.	(1) 1/4" DIA. S.S. HILTI KWIK-BOLT III PER CLIP ANGLE	2"	2 7/8"
JA04		144" OR LESS	4 3/4" O.C.	(1) 1/4" DIA. S.S. HILTI KWIK-BOLT III PER CLIP ANGLE	2"	2 7/8"
JA05	** STEEL	36" OR LESS	20" O.C.	(2) 1/4" DIA. S.S. SELF DRILLING SELF TAPPING SCREWS PER CLIP ANGLE	N.A.	1/2"
JA06		72" OR LESS	10" O.C.	(2) 1/4" DIA. S.S. SELF DRILLING SELF TAPPING SCREWS PER CLIP ANGLE	N.A.	1/2"
JA07		96" OR LESS	6 7/8" O.C.	(2) 1/4" DIA. S.S. SELF DRILLING SELF TAPPING SCREWS PER CLIP ANGLE	N.A.	1/2"
JA08		144" OR LESS	4 3/4" O.C.	(2) 1/4" DIA. S.S. SELF DRILLING SELF TAPPING SCREWS PER CLIP ANGLE	N.A.	1/2"
JA09	WOOD	36" OR LESS	20" O.C.	(2) 1/4" DIA. S.S. LAG BOLTS PER CLIP ANGLE	2 3/4"	1"
JA10		72" OR LESS	10" O.C.	(2) 1/4" DIA. S.S. LAG BOLTS PER CLIP ANGLE	2 3/4"	1"
JA11		96" OR LESS	6 7/8" O.C.	(2) 1/4" DIA. S.S. LAG BOLTS PER CLIP ANGLE	2 3/4"	1"
JA12		144" OR LESS	4 3/4" O.C.	(2) 1/4" DIA. S.S. LAG BOLTS PER CLIP ANGLE	2 3/4"	1"

\*\* STEEL SUBSTRATE MUST BE A MINIMUM OF 16 GA W/ Fy = 33ksi.

JAMB ANCHOR LIST USING 2" X 2" X 1/8" ALUMINUM CLIP ANGLES (CONTINUOUS)

ITEM	SUBSTRATE	SPAN TO ADJACENT JAMB OR MULLION	MAX ANCHOR SPACING	FASTENER(S)	MIN. EMBEDMENT	MIN. EDGE DISTANCE
JA13	CONCRETE	144" OR LESS	6" O.C.	(1) 1/4" DIA. S.S. HILTI KWIK-BOLT III	2 1/2"	2 7/8"
JA14	** STEEL	144" OR LESS	3" O.C.	(1) 1/4" DIA. S.S. SELF DRILLING SELF TAPPING SCREW	N.A.	1/2"
JA15	WOOD	144" OR LESS	3" O.C.	(1) 1/4" DIA. S.S. LAG BOLT	2 3/4"	1"

\*\* STEEL SUBSTRATE MUST BE A MINIMUM OF 16 GA W/ Fy = 33ksi.

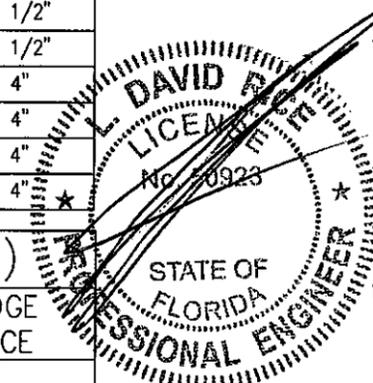
JAMB ANCHOR LIST USING 2" X 4" X 1/8" ALUMINUM CLIP ANGLES (6 1/8" LONG)

ITEM	SUBSTRATE	SPAN TO ADJACENT JAMB OR MULLION	MAX CLIP ANGLE SPACING	FASTENER(S)	MIN. EMBEDMENT	MIN. EDGE DISTANCE
JA16	CONCRETE	36" OR LESS	24" O.C.	(1) 3/8" DIA. S.S. HILTI KWIK-BOLT III PER CLIP ANGLE	2 1/2"	2 1/2"
JA17		72" OR LESS	16" O.C.	(1) 3/8" DIA. S.S. HILTI KWIK-BOLT III PER CLIP ANGLE	2 1/2"	2 1/2"
JA18		96" OR LESS	8" O.C.	(1) 3/8" DIA. S.S. HILTI KWIK-BOLT III PER CLIP ANGLE	2 1/2"	2 1/2"
JA19		144" OR LESS	8" O.C.	(1) 3/8" DIA. S.S. HILTI KWIK-BOLT III PER CLIP ANGLE	2 1/2"	2 1/2"
JA20	CMU	36" OR LESS	24" O.C.	(1) 3/8" DIA. S.S. HILTI KWIK-BOLT III PER CLIP ANGLE	2 1/2"	4"
JA21		72" OR LESS	16" O.C.	(1) 3/8" DIA. S.S. HILTI KWIK-BOLT III PER CLIP ANGLE	2 1/2"	4"
JA22		96" OR LESS	8" O.C.	(1) 3/8" DIA. S.S. HILTI KWIK-BOLT III PER CLIP ANGLE	2 1/2"	4"
JA23		144" OR LESS	8" O.C.	(1) 3/8" DIA. S.S. HILTI KWIK-BOLT III PER CLIP ANGLE	2 1/2"	4"

JAMB ANCHOR LIST USING 2" X 4" X 1/8" ALUMINUM CLIP ANGLES (CONTINUOUS)

ITEM	SUBSTRATE	SPAN TO ADJACENT JAMB OR MULLION	MAX ANCHOR SPACING	FASTENER(S)	MIN. EMBEDMENT	MIN. EDGE DISTANCE
JA24	CONCRETE	144" OR LESS	8" O.C.	(1) 3/8" DIA. S.S. HILTI KWIK-BOLT III	2 1/2"	2 7/8"
JA25	CMU	144" OR LESS	8" O.C.	(1) 3/8" DIA. S.S. HILTI KWIK-BOLT III	2 1/2"	4"

Approved as complying with the Florida Building Code  
 Date 02/02/2011  
 NOA# 10-1006.15  
 Miami Dade Product Control  
 By *[Signature]*



SEP 28 2010

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 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  
 DELANO, MN  
 MIAMI-DADE COUNTY PRODUCT CONTROL APPROVED
- ALL CONCRETE SUBSTRATE SHALL BE MINIMUM 4000 psi.
- ALL WOOD SUBSTRATE SHALL BE MINIMUM G = 0.42 DENSITY.
- ALL METAL STUD SUBSTRATE SHALL BE MINIMUM Fy = 33 ksi FOR JAMB ANCHORAGE AND Fy = 50 ksi FOR MULLION ANCHORAGE.
- ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MINIMUM 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 STAKED 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, AND/OR SUPPLIES.

NO.	REVISION	DESCRIPTION	DATE
	1	POST ENGINEERING UPDATE	DG 1/14/10
	2	ASSEMBLY CLARIFICATION	DG 2/11/10
	3	COMPLIANCE OFC REQUESTS	DG 2/25/10
	4	TRIANGLE LOUVER ADDED	DG 3/8/10
5	COMPLIANCE TO A.T.I. TEST	DM 8/25/10	

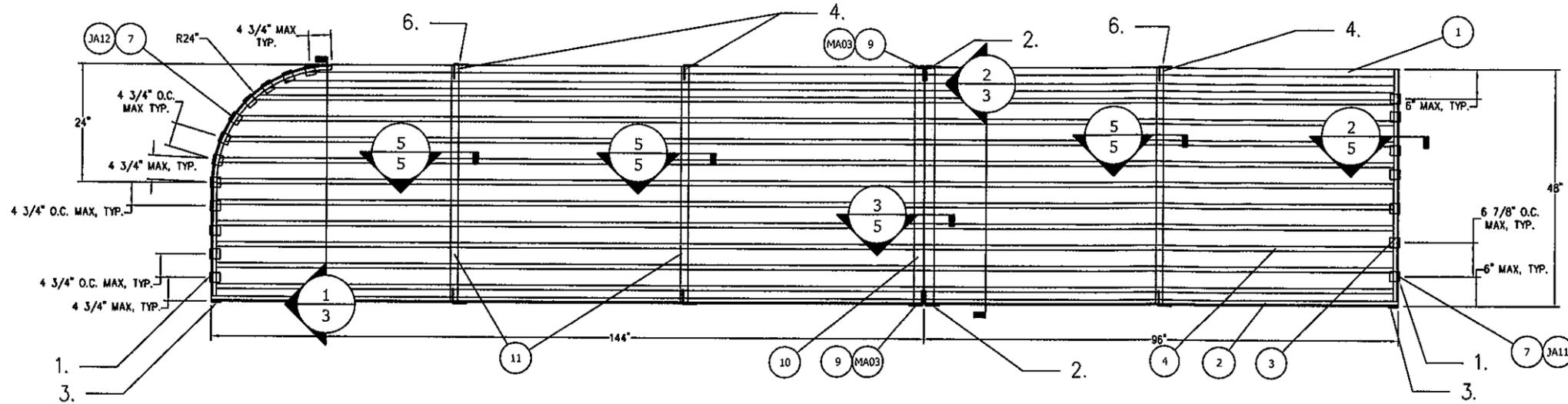
653XPDC  
 6" DRAINABLE BLADE LOUVER

**INDUSTRIAL LOUVERS INC.**  
 DELANO  
 MINNESOTA

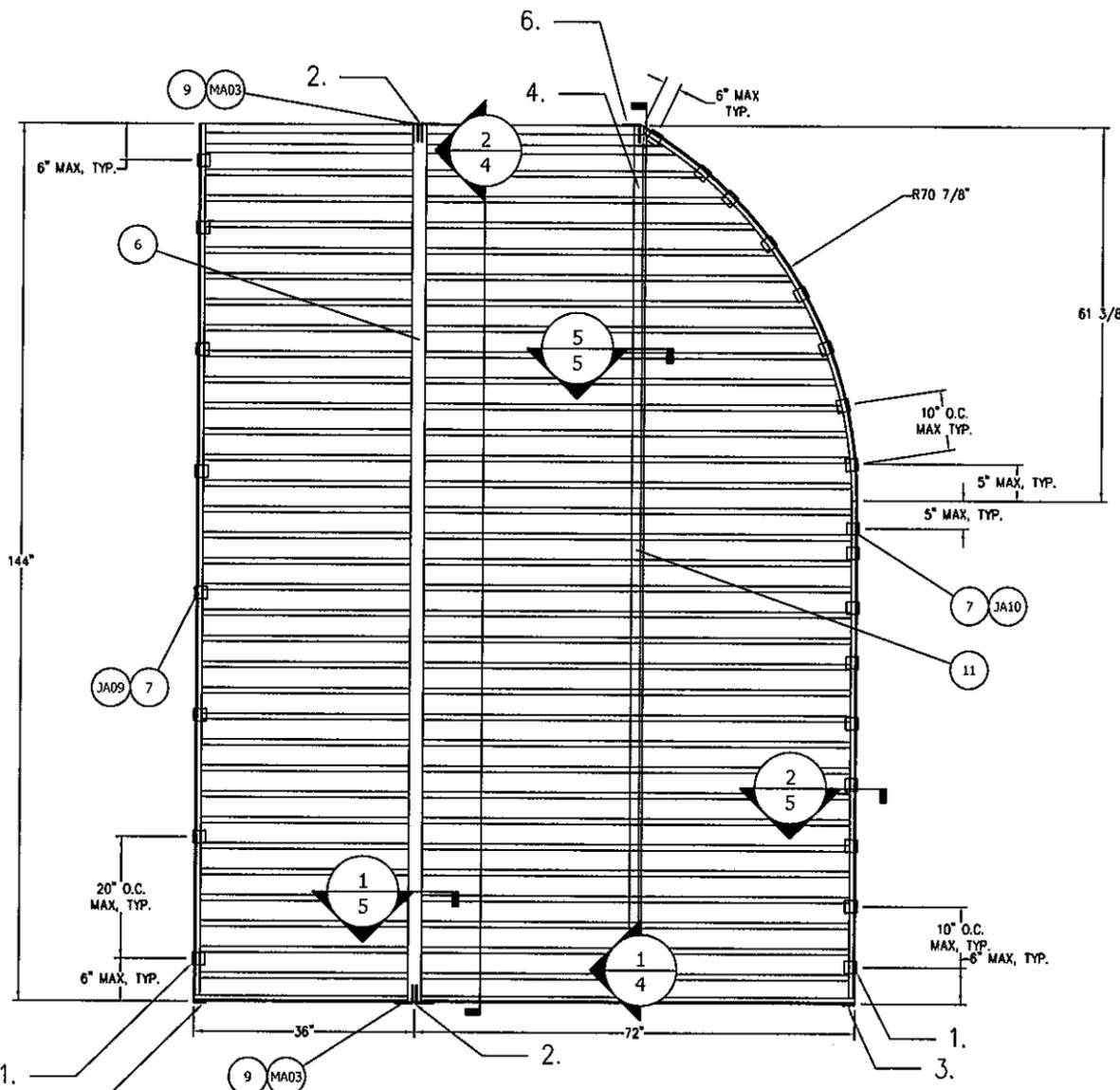
GENERAL NOTES & PARTS LIST

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 CHKD BY ---  
 DATE 10-7-09  
 SCALE ---  
 DRAWING NO. DCT

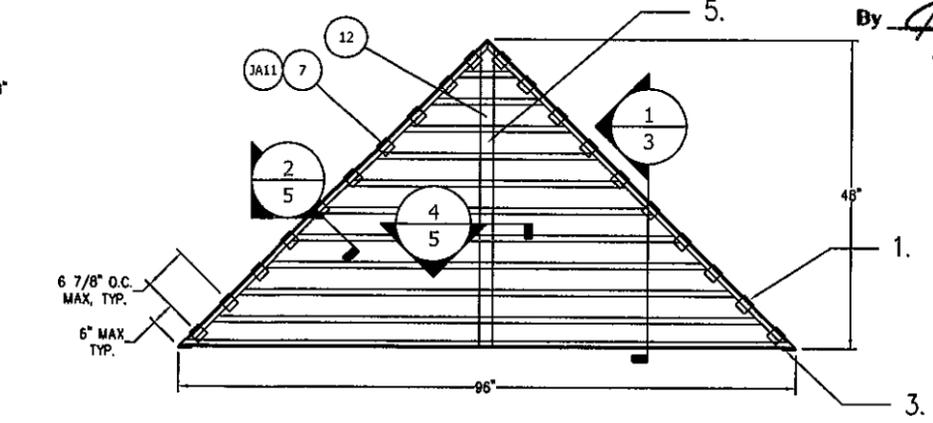
SHEET NO.  
 1 OF 7



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



**2 SPECIMEN #2 (DESIGN PRESSURE: 120 PSF)**  
QTY OF 1 THUS TESTED

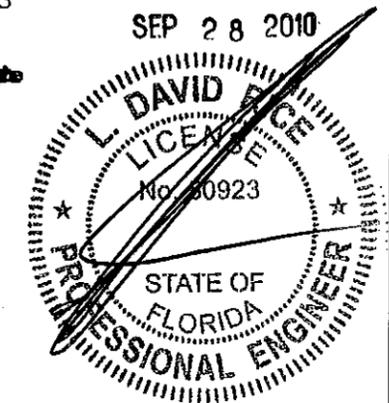


**3 SPECIMEN #3 (DESIGN PRESSURE: 120 PSF)**  
QTY OF 1 THUS TESTED

**KEY NOTES:**

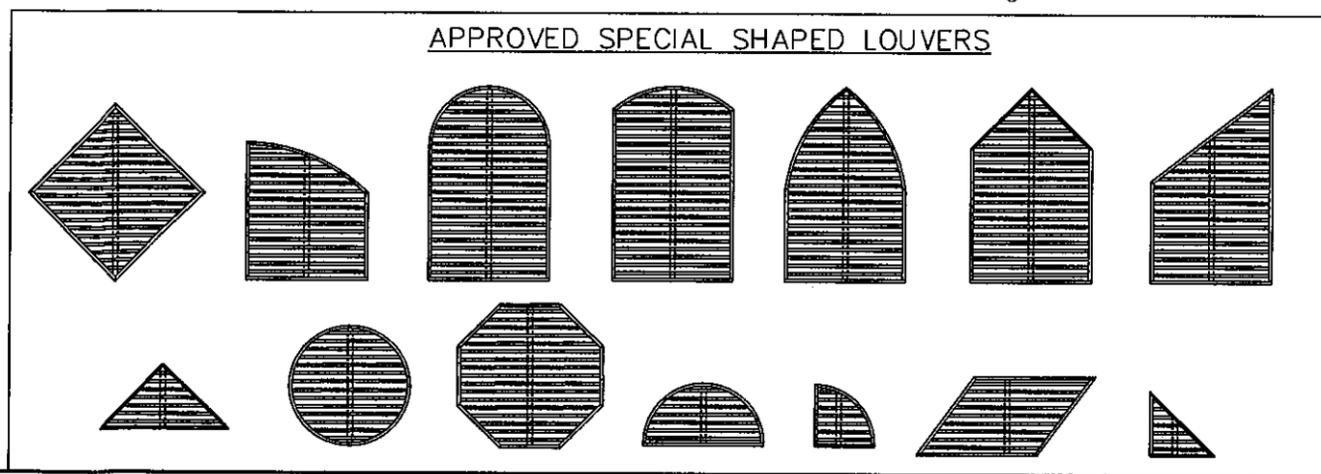
- 3 5/8" LONG 2" X 2" X 1/8" ALUM. ANGLES ATTACHED TO LOUVER JAMB FRAMES W/ (2) #12 S.S. SCREWS. SEE JAMB ANCHOR LIST ON SHEET 1 FOR ANCHOR REQUIREMENTS.
- (2) 3" LONG 3" X 3" X 1/4" ALUM. ANGLES ATTACHED TO CHANNELS W/ (2) 3/8" DIA. S.S. THRU BOLTS. SEE MULLION ANCHOR LIST ON SHEET 1 FOR ANCHOR REQUIREMENTS.
- DEAD LOAD SHIMS REQUIRED AT HEAD & SILL.
- 2" X 5" X 1/8" ALUM. CHANNEL ATTACHED TO BACK SIDE OF LOUVERS.
- 2" X 1/8" ALUM. F.B. ATTACHED TO BACK SIDE OF LOUVERS.
- (1) 3" LONG 3" X 3" X 1/4" CLIP ANGLE ATTACHED TO CHANNEL W/ (2) 3/8" DIA. S.S. BOLTS

Approved as complying with the Florida Building Code  
Date 02/02/2011  
NOA# 10-1006-15  
Miami Dade Product Control  
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-01000005061  
Certificate of Authorization: #9090  
L. David Rice  
Registration No: 50923



NO.	REVISION DESCRIPTION	BY	DATE
1	POST ENGINEERING UPDATE	DG	1/14/10
2	ASSEMBLY CLARIFICATION	DG	2/11/10
3	COMPLIANCE OFC REQUESTS	DG	2/25/10
4	TRIANGLE LOUVER ADDED	DG	3/8/10
5	COMPLIANCE TO A.T.I. TEST	DM	8/25/10

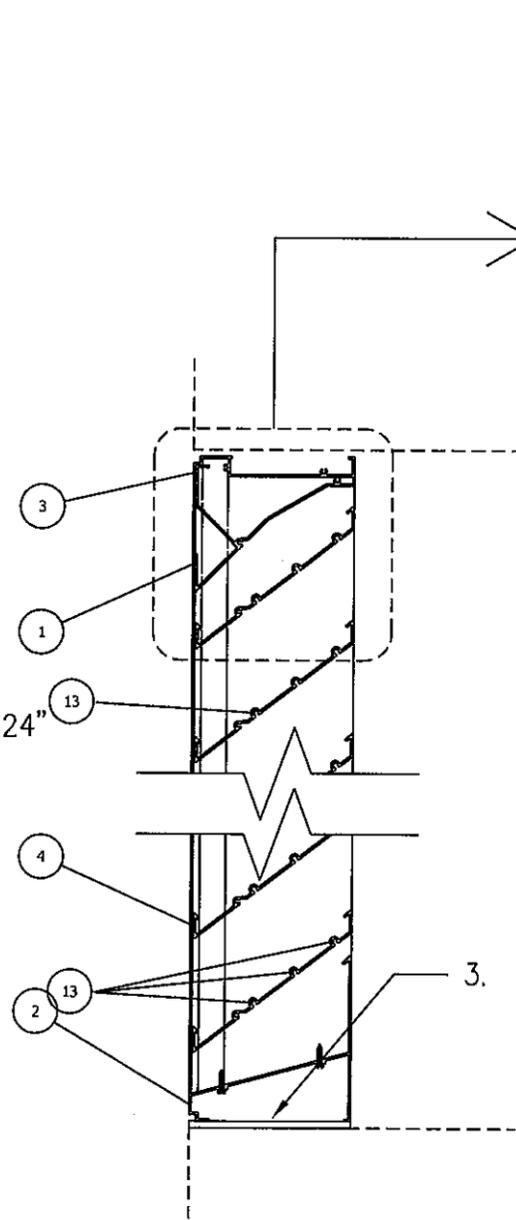
653XPDC	INDUSTRIAL LOUVERS INC. DELANO MINNESOTA
6" DRAINABLE BLADE LOUVER	EXTERIOR ELEVATIONS

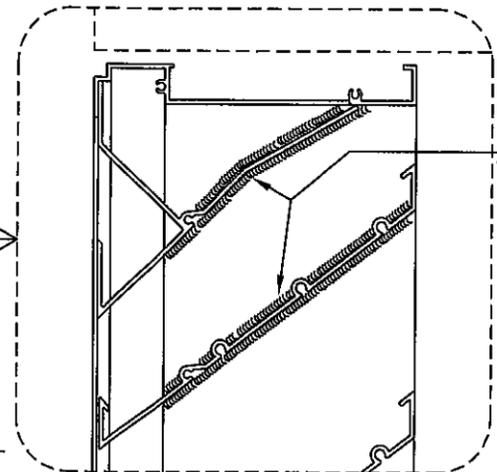
DRAWN BY DG	CHKD BY ---	DATE 10-7-09	SCALE ---	DRAWING NO. DCT
SHEET NO.				2 OF 7

**KEY NOTES:**

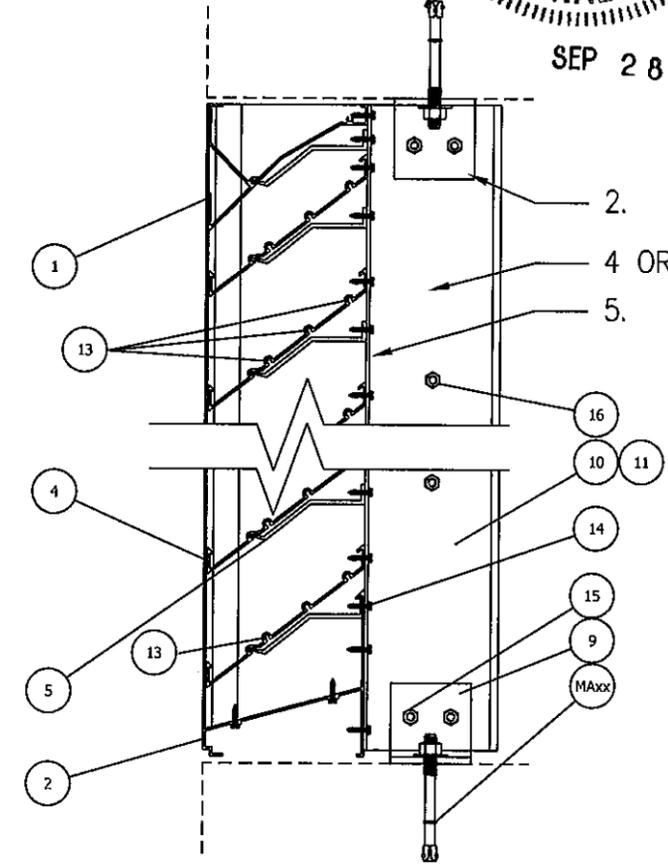
1. 3 5/8" LONG 2" X 2" X 1/8" ALUM. ANGLES ATTACHED TO LOUVER JAMB FRAMES W/ (2) #12 S.S. SCREWS. SEE JAMB ANCHOR LIST ON SHEET 1 FOR ANCHOR REQUIREMENTS.
2. (2) 3" LONG 3" X 3" X 1/4" ALUM. ANGLES ATTACHED TO CHANNELS W/ (2) 3/8" DIA. S.S. THRU BOLTS. SEE MULLION ANCHOR LIST ON SHEET 1 FOR ANCHOR REQUIREMENTS.
3. DEAD LOAD SHIMS REQUIRED AT HEAD & SILL.
4. 2" X 5" X 1/8" ALUM. CHANNEL ATTACHED TO BACK SIDE OF LOUVERS.
5. 2" X 1/8" ALUM. F.B. ATTACHED TO BACK SIDE OF LOUVERS.
6. 2" X 7" X 1" X 3/16" CONTINUOUS ALUM. CHANNELS, ATTACHED TO BACK OF LOUVERS, BOLTED TOGETHER W/ 1/4" X 1" S.S. THRU BOLTS @ 24" O.C. APPROX.



1 VERTICAL SECTION



NOTE: LOUVER BLADES, TOP FRAME, AND/OR BOTTOM FRAME MUST BE WELDED TO JAMB FRAMES IN LIEU OF MECHANICAL FASTENERS AT ALL JAMBS THAT ARE NOT NORMAL TO THE BLADE AXIS.

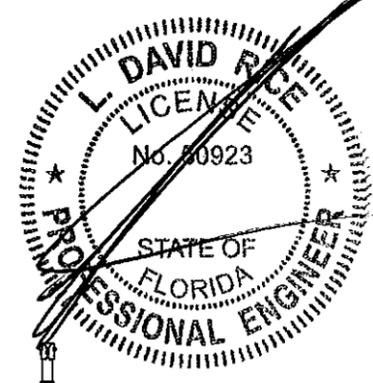


2 VERTICAL SECTION

Approved as complying with the Florida Building Code  
 Date 02/07/2011  
 NOA# 10-1006-15  
 Miami Dade Product Control  
 By *[Signature]*

**RICE ENGINEERING**  
 105 School Creek Trail  
 Luxemburg, WI 54217  
 Phone: 920.845.1042  
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SEP 28 2010

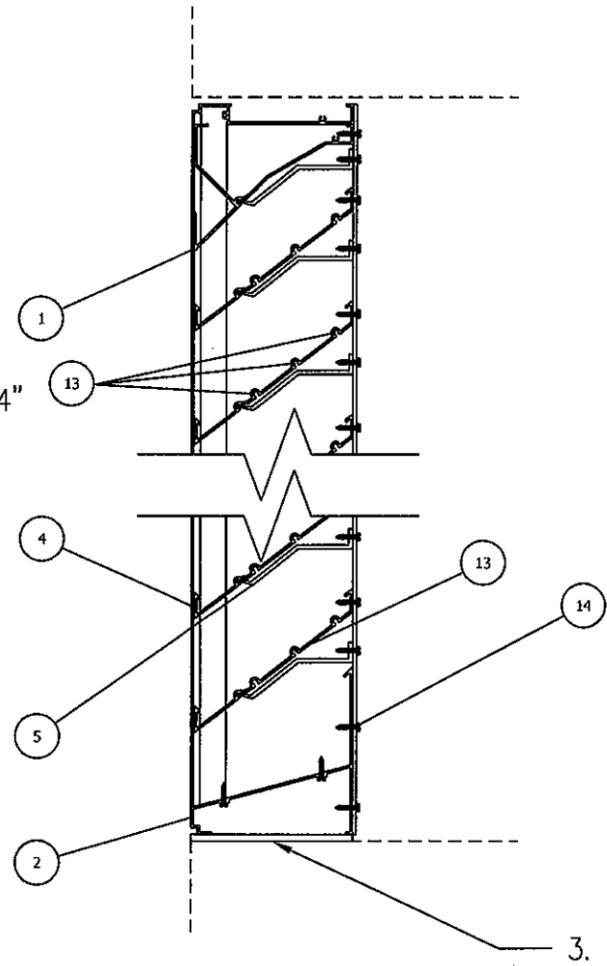
NO.	REVISION DESCRIPTION	BY	DATE
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4	TRIANGLE LOUVER ADDED	DG	3/8/10
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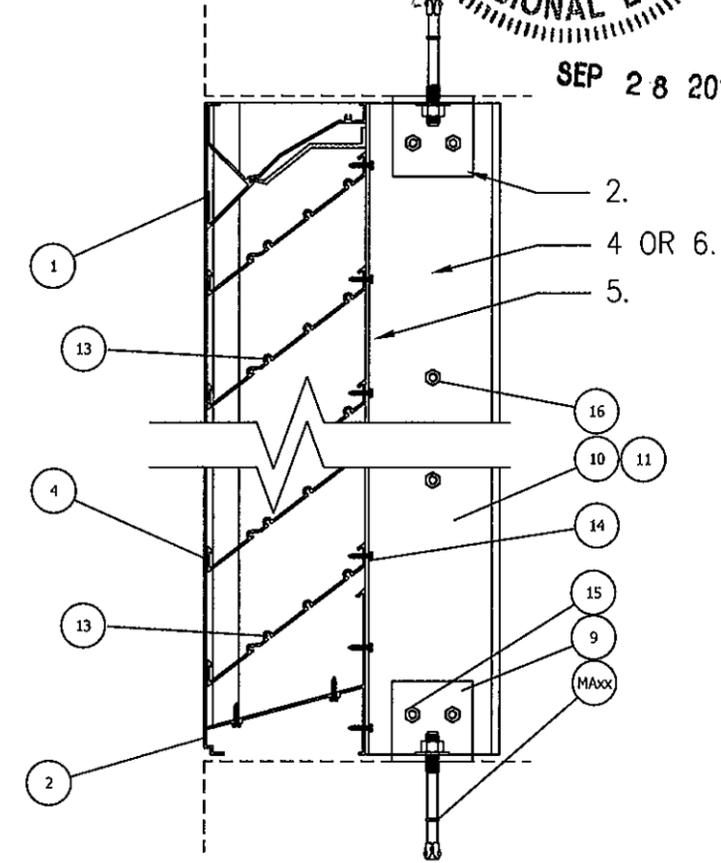
653XPDC	INDUSTRIAL LOUVERS INC. DELANO MINNESOTA
6" DRAINABLE BLADE LOUVER	DETAILS
DRAWN BY DG	DCT
CHK'D BY ---	
DATE 10-7-09	
SCALE ---	
DRAWING NO. ---	
SHEET NO. 3 OF 7	

**KEY NOTES:**

1. 3 5/8" LONG 2" X 2" X 1/8" ALUM. ANGLES ATTACHED TO LOUVER JAMB FRAMES W/ (2) #12 S.S. SCREWS. SEE JAMB ANCHOR LIST ON SHEET 1 FOR ANCHOR REQUIREMENTS.
2. (2) 3" LONG 3" X 3" X 1/4" ALUM. ANGLES ATTACHED TO CHANNELS W/ (2) 3/8" DIA. S.S. THRU BOLTS. SEE MULLION ANCHOR LIST ON SHEET 1 FOR ANCHOR REQUIREMENTS.
3. DEAD LOAD SHIMS REQUIRED AT HEAD & SILL.
4. 2" X 5" X 1/8" ALUM. CHANNEL ATTACHED TO BACK SIDE OF LOUVERS.
5. 2" X 1/8" ALUM. F.B. ATTACHED TO BACK SIDE OF LOUVERS.
6. 2" X 7" X 1" X 3/16" CONTINUOUS ALUM. CHANNELS, ATTACHED TO BACK OF LOUVERS, BOLTED TOGETHER W/ 1/4" X 1" S.S. THRU BOLTS @ 24" O.C. APPROX.



1 VERTICAL SECTION

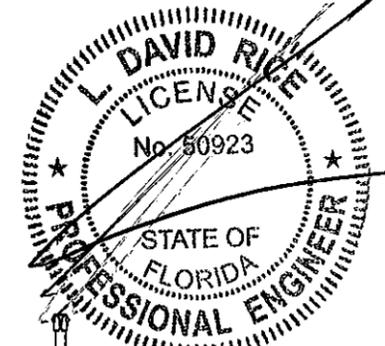


2 VERTICAL SECTION

Approved as complying with the Florida Building Code  
 Date 02/02/2011  
 NOAH 10-1006.15  
 Miami Dade Product Control  
 By *[Signature]*

**RICE ENGINEERING**  
 105 School Creek Trail  
 Luxemburg, WI 54217  
 Phone: 920.845.1042  
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1	POST ENGINEERING UPDATE	DG	1/14/10
2	ASSEMBLY CLARIFICATION	DG	2/11/10
3	COMPLIANCE OFC REQUESTS	DG	2/25/10
4	TRIANGLE LOUVER ADDED	DG	3/8/10
5	COMPLIANCE TO A.T.I. TEST	DM	8/25/10

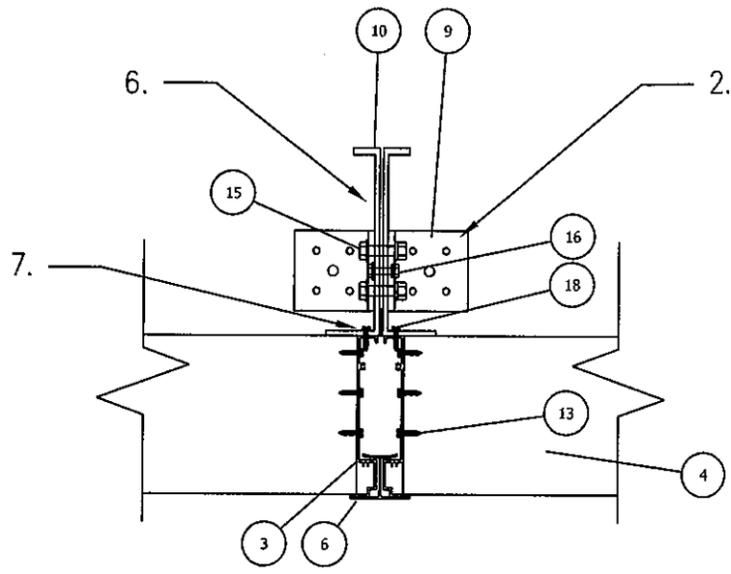
653XPDC	6" DRAINABLE BLADE LOUVER
INDUSTRIAL LOUVERS INC	DELANO MINNESOTA
DETAILS	

DRAWN BY DG	CHK'D BY ---	DATE 10-7-09	SCALE ---	DRAWING NO. DCT
SHEET NO. 4 OF 7				

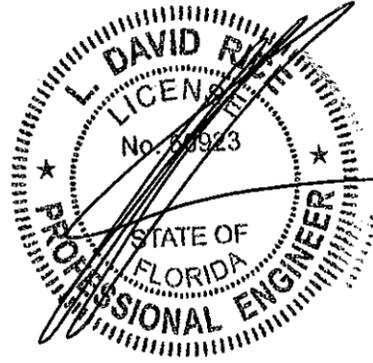
**KEY NOTES:**

1. 3 5/8" LONG 2" X 2" X 1/8" ALUM. ANGLES ATTACHED TO LOUVER JAMB FRAMES W/ (2) #12 S.S. SCREWS. SEE JAMB ANCHOR LIST ON SHEET 1 FOR ANCHOR REQUIREMENTS.
2. (2) 3" LONG 3" X 3" X 1/4" ALUM. ANGLES ATTACHED TO CHANNELS W/ (2) 3/8" DIA. S.S. THRU BOLTS. SEE MULLION ANCHOR LIST ON SHEET 1 FOR ANCHOR REQUIREMENTS.
3. DEAD LOAD SHIMS REQUIRED AT HEAD & SILL.
4. 2" X 5" X 1/8" ALUM. CHANNEL ATTACHED TO BACK SIDE OF LOUVERS.
5. 2" X 1/8" ALUM. F.B. ATTACHED TO BACK SIDE OF LOUVERS.
6. 2" X 7" X 1" X 3/16" CONTINUOUS ALUM. CHANNELS, ATTACHED TO BACK OF LOUVERS, BOLTED TOGETHER W/ 1/4" X 1" S.S. THRU BOLTS @ 24" O.C. APPROX.
7. ( 2 ) - #14 X 1 1/2" S.S. SELF-DRILLING SCREWS AT 10" O/C.

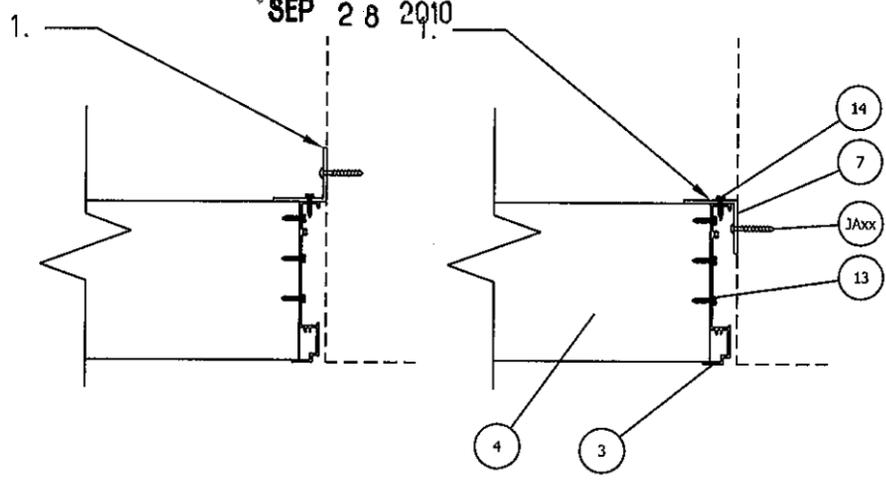


**1 VVM DETAIL**

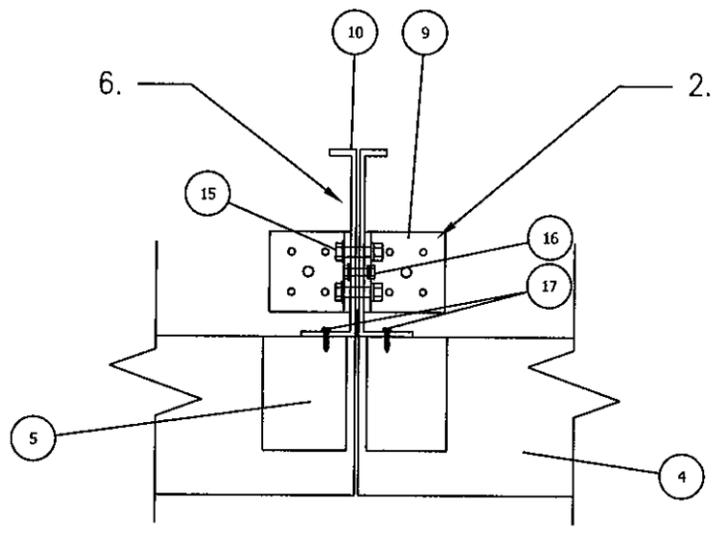
Approved as complying with the Florida Building Code  
 Date: 02/02/2011  
 NOAH: 10-1006.15  
 Miami Dade Product Control  
 By: *[Signature]*



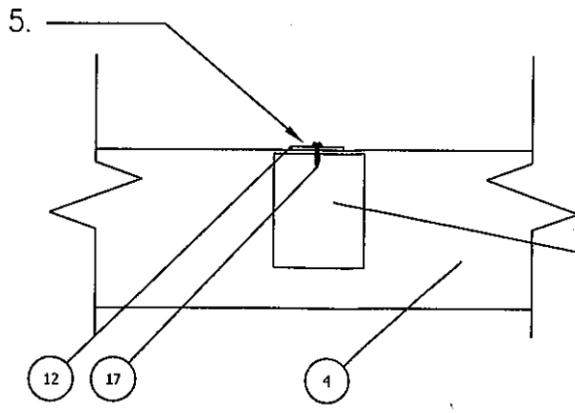
**RICE ENGINEERING**  
 105 School Creek Trail  
 Luxemburg, WI 54217  
 Phone: 920.845.1042  
 Fax: 920.845.1048  
 www.rice-inc.com  
 Florida Firm No: F-01000005061  
 Certificate of Authorization: #9090  
 L. David Rice  
 Registration No: 50923



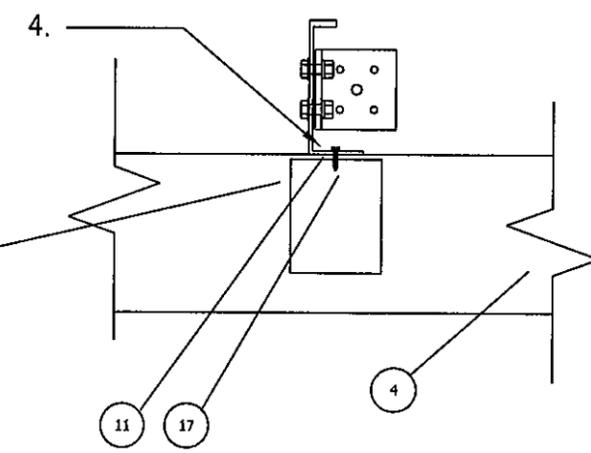
**2 JAMB DETAILS**



**3 IVM DETAIL**



**4 BLADE SUPPORT DETAIL**



**5 BLADE SUPPORT DETAIL**

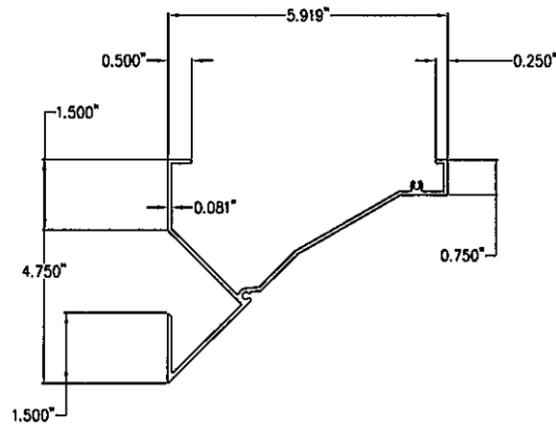
NO.	REVISION DESCRIPTION	BY	DATE
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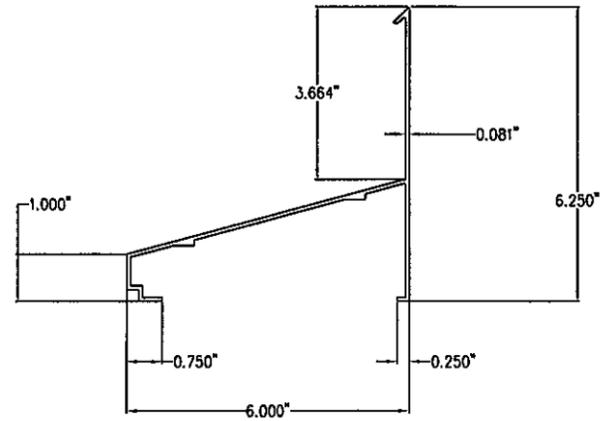
DRAWN BY CHKD BY DATE SCALE DRAWING NO.	DG --- 10-7-09 --- DCT
	SHEET NO. 5 OF 7

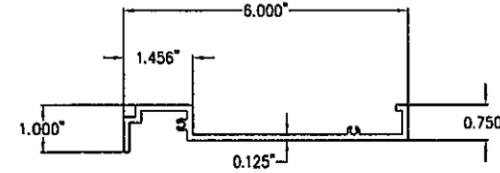
653XPDC	6" DRAINABLE BLADE LOUVER	INDUSTRIAL LOUVERS INC. DELANO MINNESOTA
DETAILS		



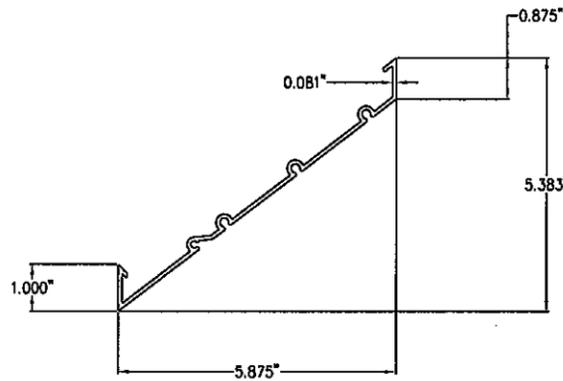
1 TOP FRAME



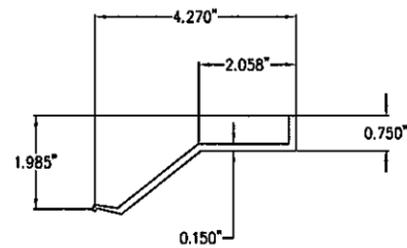
2 BOTTOM FRAME



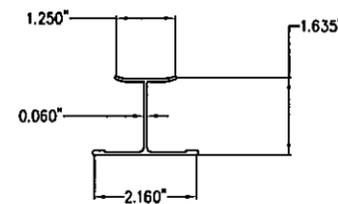
3 JAMB FRAME



4 BLADE

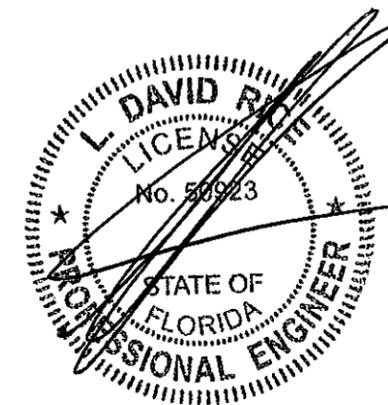


5 SUPPORT BRACE



6 "I" SLIP MULLION

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**RICE** SEP 28 2010  
**ENGINEERING**  
105 School Creek Trail  
Luxemburg, WI 54217  
Phone: 920.845.1042  
Fax: 920.845.1048  
www.rice-inc.com

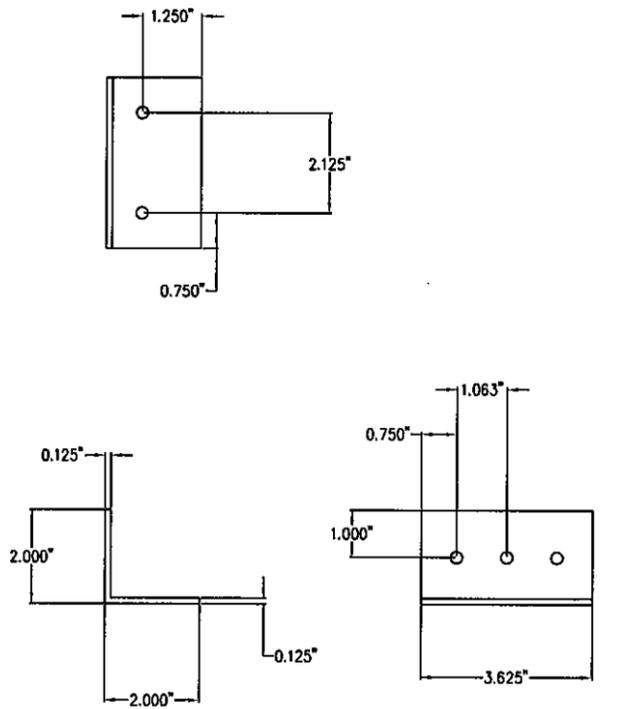
Florida Firm No: F-01000005061  
Certificate of Authorization: #9090  
L. David Rice  
Registration No: 50923

NO.	REVISION DESCRIPTION	BY	DATE
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4	TRIANGLE LOUVER ADDED	DG	3/8/10
5	COMPLIANCE TO A.T.I. TEST	DM	8/25/10

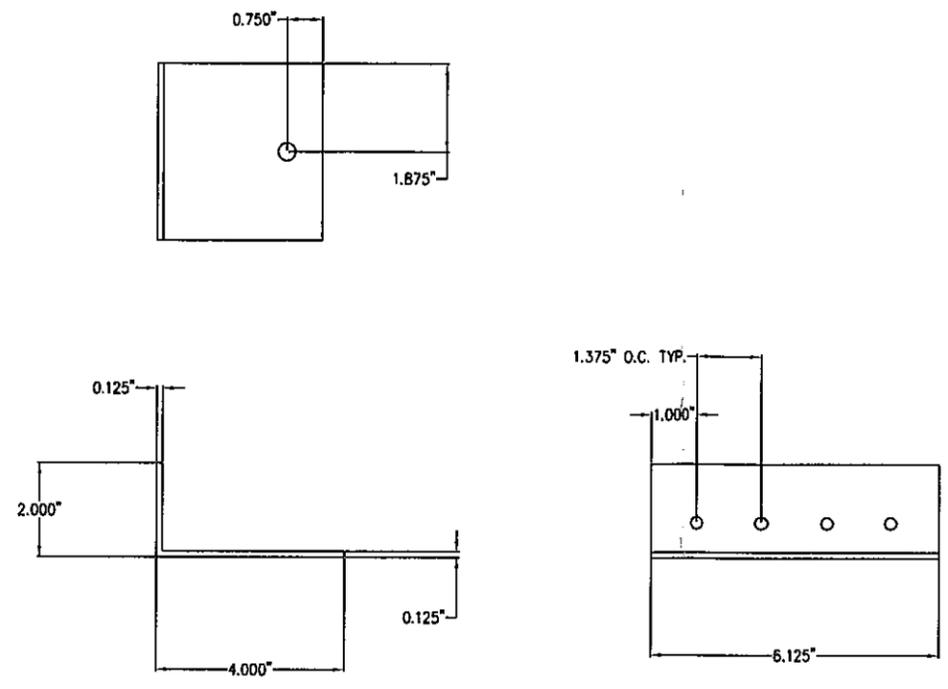
653XPDC  
6" DRAINABLE BLADE LOUVER  
**INDUSTRIAL LOUVERS INC.**  
DELANO  
MINNESOTA  
COMPONENT DETAILS

DRAWN BY DG  
CHKD BY ---  
DATE 10-7-09  
SCALE ---  
DRAWING NO. DCT

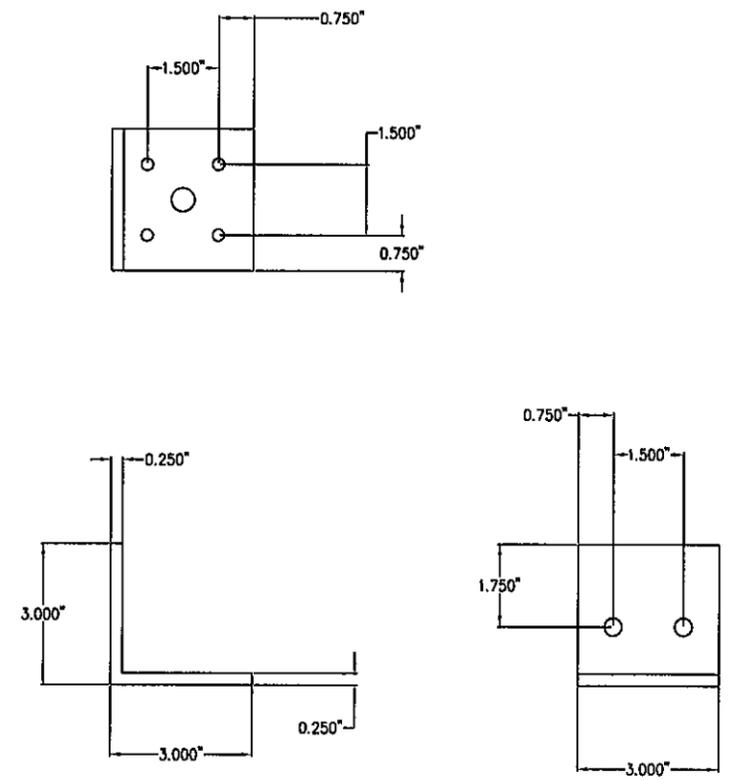
SHEET NO.  
6 OF 7



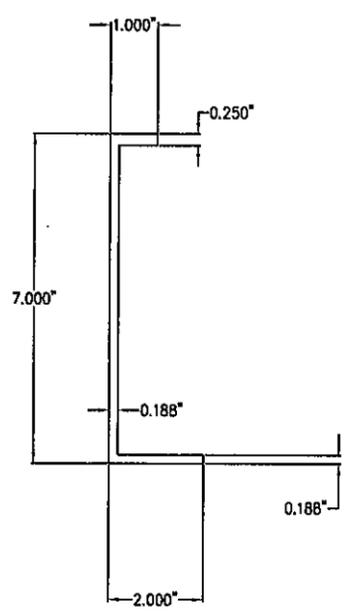
7 JAMB CLIP ANGLE



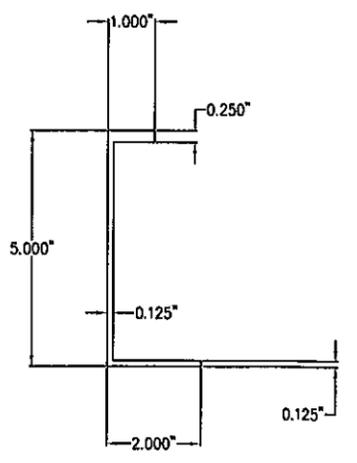
8 ALT. JAMB CLIP ANGLE



9 MULLION CLIP ANGLE

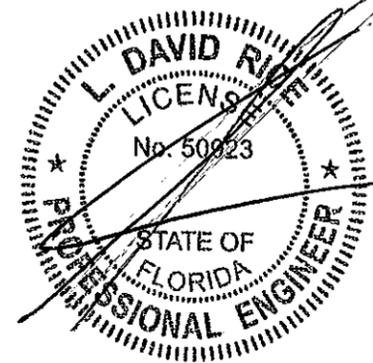


10 MULLION CHANNEL



11 STIFFENER CHANNEL

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Date 02/02/2011  
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Miami Dade Product Control  
By *[Signature]*



SEP 28 2010

**RICE**  
**ENGINEERING**

105 School Creek Trail  
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www.rice-inc.com

12 1/8" FLAT BAR

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

NO.	REVISION DESCRIPTION	BY	DATE
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6" DRAINABLE BLADE LOUVER	653XPDC
	<b>INDUSTRIAL LOUVERS INC.</b> DELANO MINNESOTA
COMPONENT DETAILS	

DRAWN BY	DG
CHK'D BY	---
DATE	10-7-09
SCALE	---
DRAWING NO.	DCT

SHEET NO.	7 OF 7
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