



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) 375-2908

NOTICE OF ACCEPTANCE (NOA)

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: 653 XPDC 6" Drainable Blade Louver.

APPROVAL DOCUMENT: Drawing No.1014, titled "653XPDC 6" Drainable Blade Louver" sheets 1 through 7 of 7 dated 01/18/01 and last revised on Aug 24, 2005, prepared by W.W. Schaefer Engineering & consulting, PA., signed and sealed by W. W. Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the NOA number and expiration 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 or MDCPCA", 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 & renews** NOA # 05-0913.02 consisting of this page, evidence page as well as approval document mentioned above.

The submitted documentation was reviewed by Ishaq I. Chanda, P. E.



NOA No: 06-0531.03
 Expiration Date: June 28, 2011
 Approval Date: June 07, 2007
 Page 1

Industrials Louvers, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS.

1. Drawing No. **1014**, titled "653XPDC 6" Drainable Blade Louver" sheets 1 through 7 of 7 dated 01/18/01 and last revised on Aug 24, 2005, prepared by W.W. Schaefer Engineering & consulting, PA., signed and sealed by W. W. Schaefer, P.E.

B. TESTS (transferred from file # 05-0913.02) original test conducted per SFBC, PA 201, 202 & 203 now termed as FBC, TAS 201, 202 & 203-94.

1. Test report on Large Missile Impact Test per PA 201, Cyclic Wind Pressure Test per PA 203, and Uniform Static Air Pressure Test per PA 202 of "653XPDC 6" DRAINABLE BLADE LOUVER", No. specimens 1, 4, & 5, prepared by Hurricane Test Laboratory, Inc., report No. 0236-0103-01, dated 01/4, 5, & 8/2001, signed and sealed by V. J. Abraham, PE
2. Test report on Large Missile Impact Test per PA 201, Cyclic Wind Pressure Test per PA 203 and Uniform Static Air Pressure Test per PA 202 of "653XPDC 6" DRAINABLE BLADE LOUVER", specimen 1, prepared by Hurricane Test Laboratory, Inc., report No. 0236-1018-00, dated 10/26/00, signed and sealed by V. J. Abraham, PE.
3. Test report on Uniform Static Air Pressure Test per PA 202 of "653XPDC 6" DRAINABLE BLADE LOUVER", specimen 2, prepared by Hurricane Test Laboratory, Inc., report No. 0236-0103-01, dated 01/03/01, signed and sealed by V. J. Abraham, PE.
4. Revision to test report NO. 01-0215.03, prepared by Hurricane Testing Laboratory, Inc., dated 04/21/2001, signed and sealed by V. J. Abraham, PE.

C. CALCULATIONS.

1. Anchor verification & stress calculations dated 08-04-2005, compliance to FBC 2004, prepared, signed & sealed by W. W. Schaefer, PE.
2. Louver Blade, Mullion & Support Calculations of Industrial Louvers, 653XP 6", dated 01/22/01, pages 1 to 17 of 17, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed, dated and sealed by W. W. Schaefer, PE.(transferred from file # 05-0913.02)

D. QUALITY ASSURANCE.

1. Miami Dade Building Code Compliance Office (BCCO)

E. MATERIAL CERTIFICATIONS (transferred from file # 05-0913.02)

1. Extrusions drawings No. 60-021562-06B/12B, 16B/28B, prepared by Ruskin Manufacturing, on 04/22/98 & 04/23/98, signed and sealed by E. P. Hutson, PE.

F. STATEMENTS

1. Statement of compliance and "No financial interest" dated 08-04-2005, signed and sealed W. W. Schaefer, PE.
2. Lab compliance letter issued by Hurricane Test Laboratory, Inc., on 02/08/01, signed, dated and sealed by V. J. Abraham, PE.

G. OTHER

1. This NOA **revises & renews** NOA # **05-0913.02**, expiring June 28, 2007.

Ishaq I. Chanda

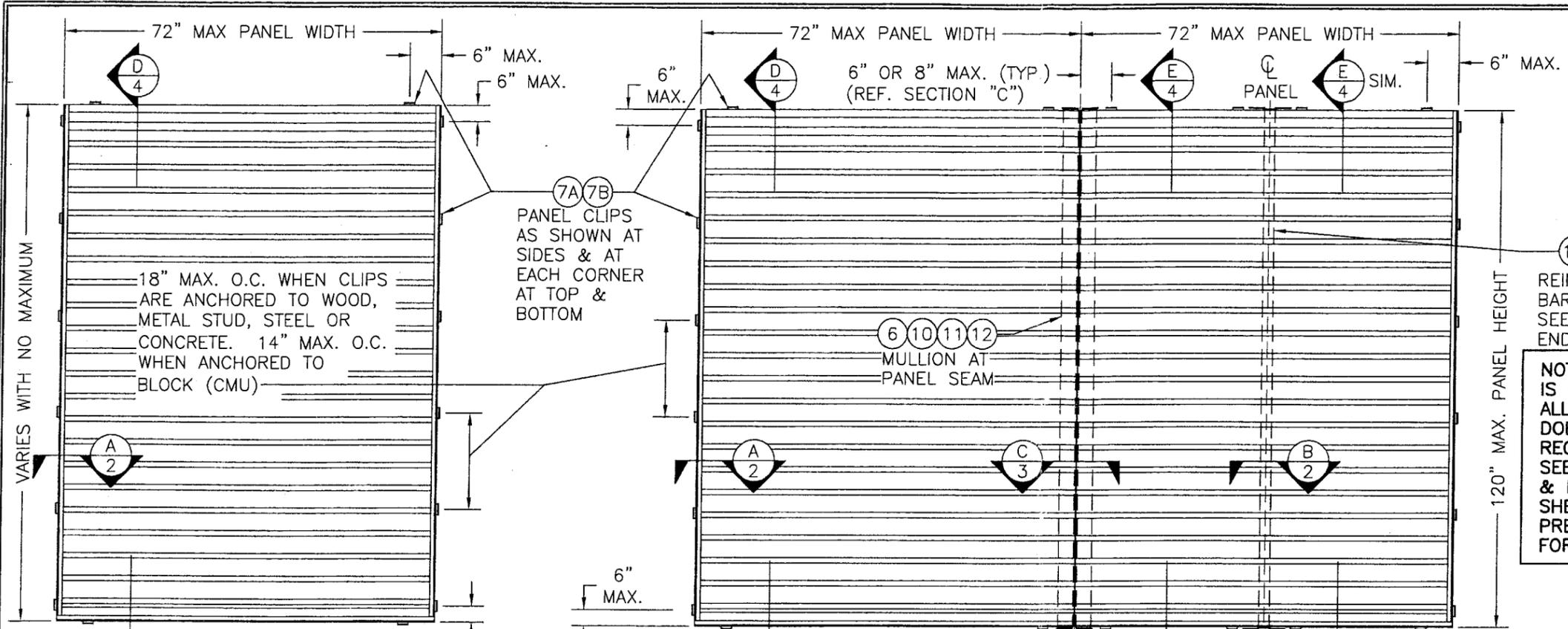
Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No 06-0531.03

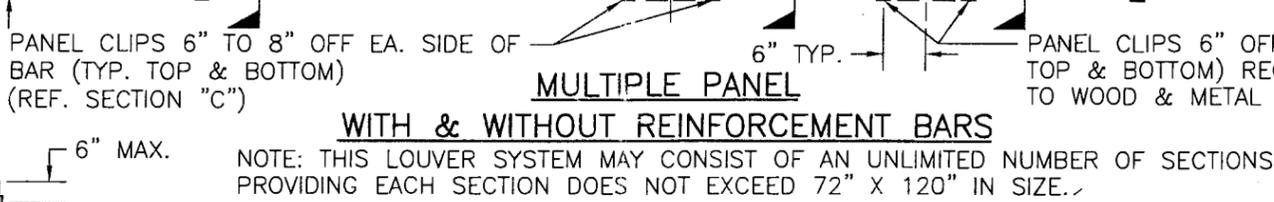
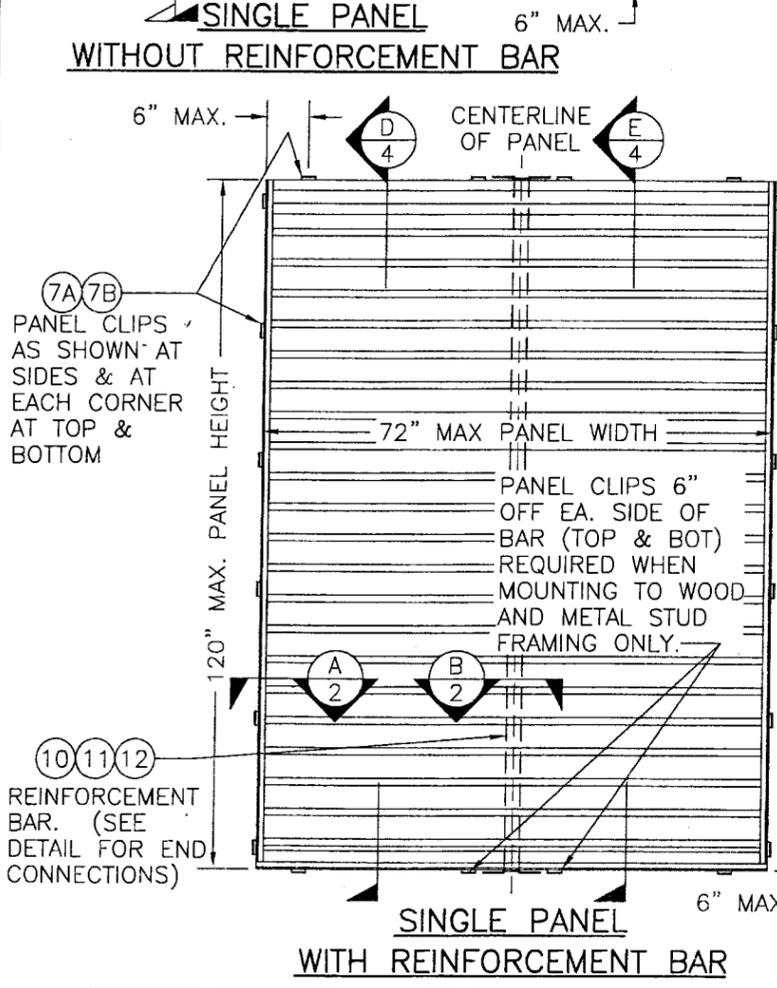
Expiration Date: June 28, 2011

Approval: Date: June 07, 2007



ALLOWABLE PRESSURES
 PRESSURES VARY WITH PANEL SIZE MULLION TYPE & REINFORCEMENT BAR TYPE & SHALL BE CONTROLLED BY THE LESSER OF THE ALLOWABLE PRESSURE FOR EACH OF THOSE APPLICABLE COMPONENTS. SEE PRESSURE TABLES ON SHEETS 6 & 7 FOR ALLOWABLE PRESSURES.

NOTE: REINFORCEMENT BAR IS ONLY REQUIRED WHEN ALLOWABLE PANEL LOAD DOES NOT MEET THE REQUIRED DESIGN LOAD. SEE "LOUVER PANEL SIZE & PRESSURE TABLE" ON SHEET 6 FOR ALLOWABLE PRESSURES ON UNREINFORCED PANELS.



18" MAX. O.C. WHEN CLIPS ARE ANCHORED TO WOOD, METAL STUD, STEEL OR CONCRETE. 14" MAX. O.C. WHEN ANCHORED TO BLOCK (CMU)

GENERAL NOTES:

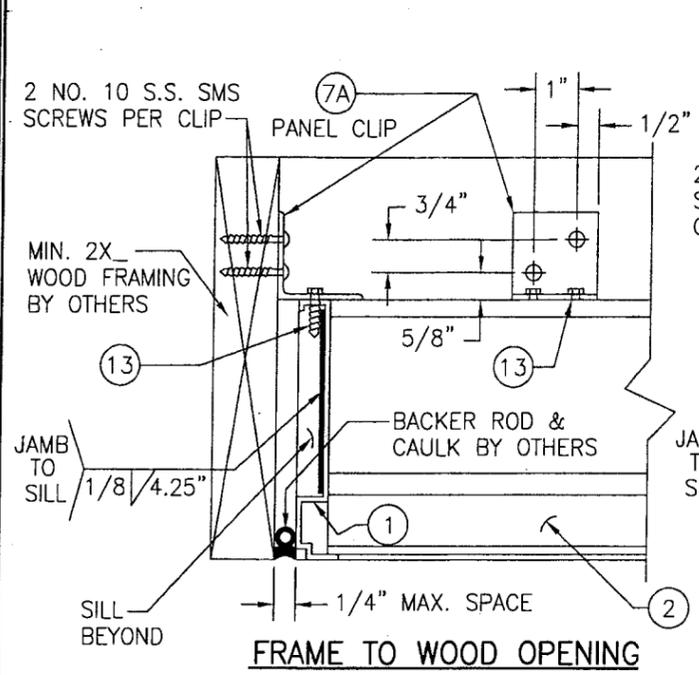
- IT SHALL BE THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS SUPERIMPOSED BY THE LOUVERS.
- THESE LOUVER SYSTEMS HAVE BEEN DESIGNED & TESTED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE (FBC) AND FBC PROTOCOLS TAS-201, 202 & 203 FOR AREAS INCLUDING HVHZ.
- 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 MIN. 3000 PSI.
- ALL WOOD SUBSTRATE SHALL BE MIN. G = 0.55 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.
- PANELS MAY BE HORIZONTALLY STACKED TO AN UNLIMITED NUMBER. VERTICAL STACKING MAY OCCUR PROVIDING A STRUCTURAL SUPPORT IS DESIGNED & INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER ASSEMBLY (SINGLE NON-REINFORCED PANEL MAY RUN TO UNLIMITED HEIGHT PER ELEVATION IF NO REINFORCEMENT BARS ARE REQUIRED).
- SEPARATION OF DISSIMILAR MATERIALS MUST BE MAINTAINED PER SECTION 2003.8.4 OF THE 2004 FLORIDA BUILDING CODE (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.

| FASTENER SCHEDULE | | | |
|---------------------|-------------|-------------------|--------------------|
| ANCHOR TYPE | SUBSTRATE | MINIMUM EMBEDMENT | MINIMUM EDGE DIST. |
| NO. 10 SCREW | WOOD | 1 3/8" | 3/4" |
| NO. 10 SCREW | METAL/STEEL | FULL | 3/4" |
| NO. 14 SCREW | WOOD | 1 3/4" | 3/4" |
| NO. 12 SCREW | METAL/STEEL | FULL | 3/4" |
| 1/4" TAPCON | BLOCK/CONC. | 1 1/4" | 2 1/2" |
| RED HEAD 1/2" WEDGE | CONCRETE | 3" | 3" |
| HILTI 1/2" WEDGE | CONCRETE | 3" | 3 3/4" |
| 5/16" LAG SCREW | WOOD | 2.5" | 3/4" |

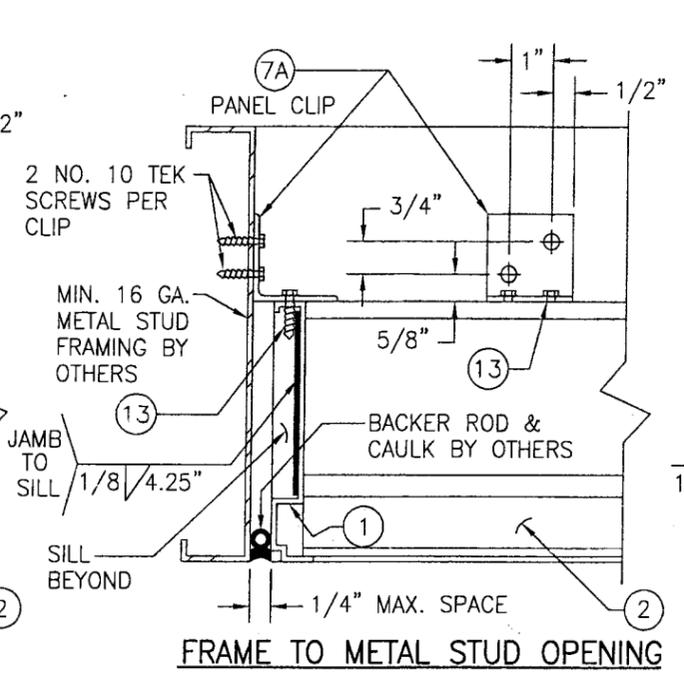
PRODUCT RENEWED
 as complying with the Florida Building Code
 Acceptance No. 06-0531-03
 Expiration Date June 28, 2011
 By: Ismag I. Lhanda
 Miami Dade Product Control Division

EXTERIOR ELEVATIONS

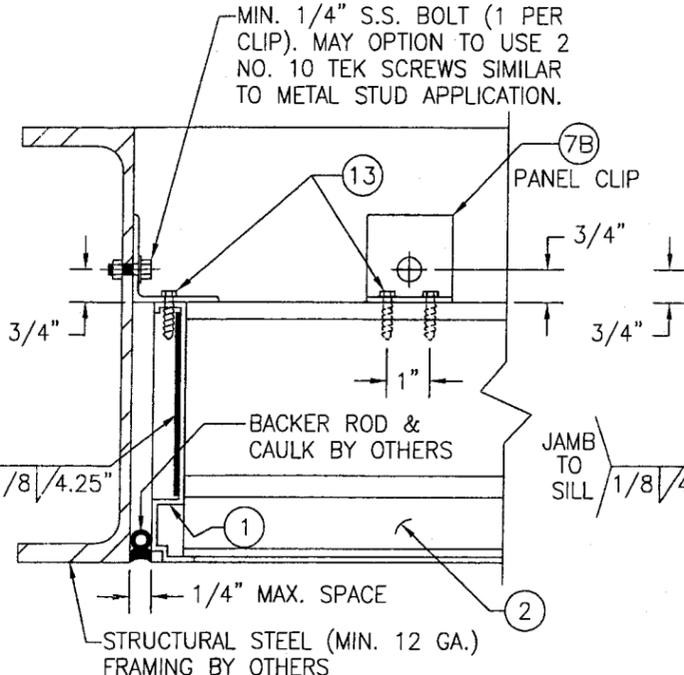
| | |
|---|---|
| DRAWN BY: W.W.S. | CHECKED BY: W.W.S. |
| DATE: 08/23/05 | DATE: 01/18/01 |
| BY WWS | BY WWS |
| REVISION DESCRIPTION | REVISION DESCRIPTION |
| NO. 1 UPDATE GENERAL NOTES TO 2004 FBC COMPLIANT | NO. 2 REDUCED CLIP SPACING |
| DRAWING TITLE 653XPDC 6" DRAINABLE BLADE LOUVER | |
| MANUFACTURER INDUSTRIAL LOUVERS, INC. 511 SOUTH 7TH STREET DELANO, MN 55328 763-972-2981 | |
| CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903 | CERTIFICATION AUG 24 2005 WARREN W. SCHAEFER, P.E. P.E. NO. 44135 |
| DRAWING NO. 1014 | REV. A |
| SHEET NO. 1 OF 7 | |



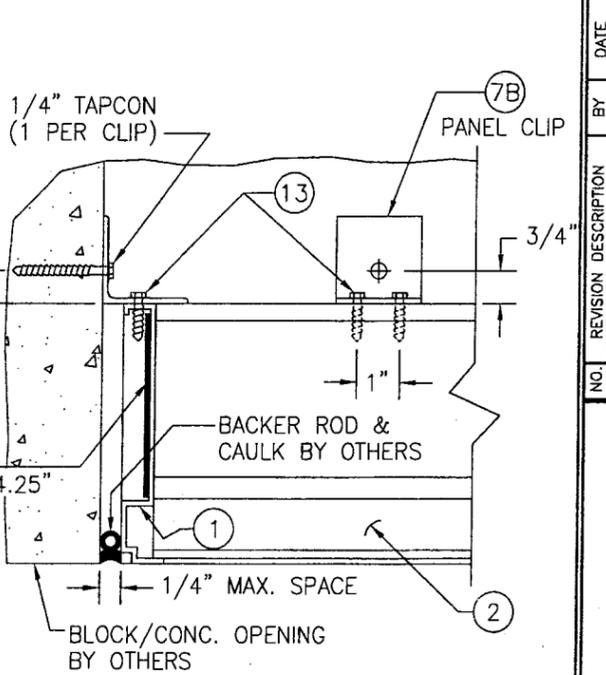
FRAME TO WOOD OPENING



FRAME TO METAL STUD OPENING



FRAME TO STRUCTURAL STEEL OPENING

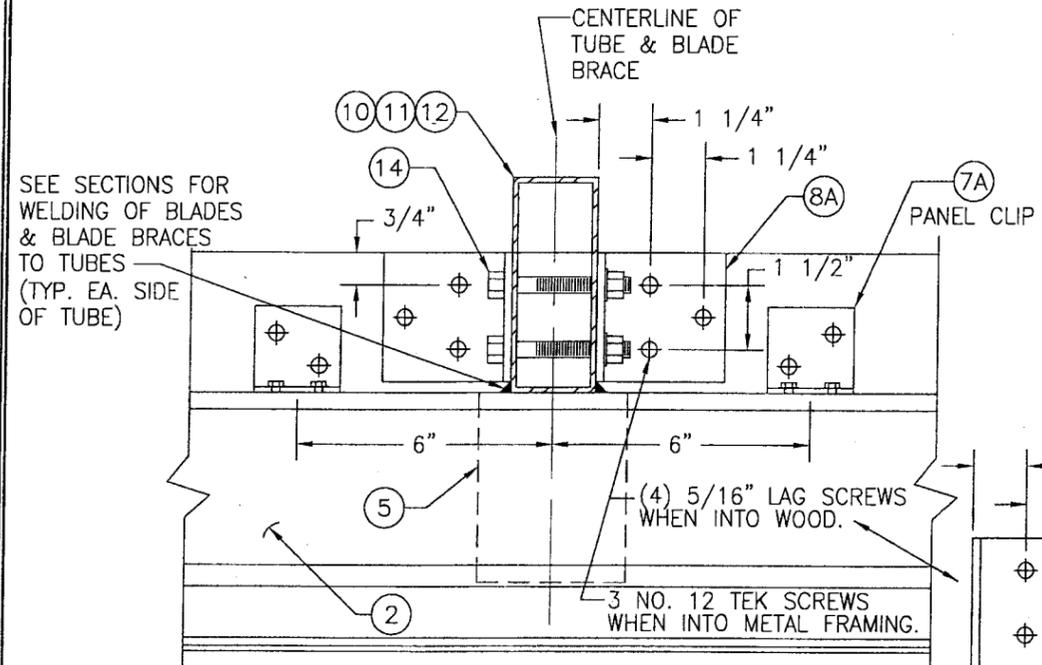


FRAME TO BLOCK/CONC. OPENING

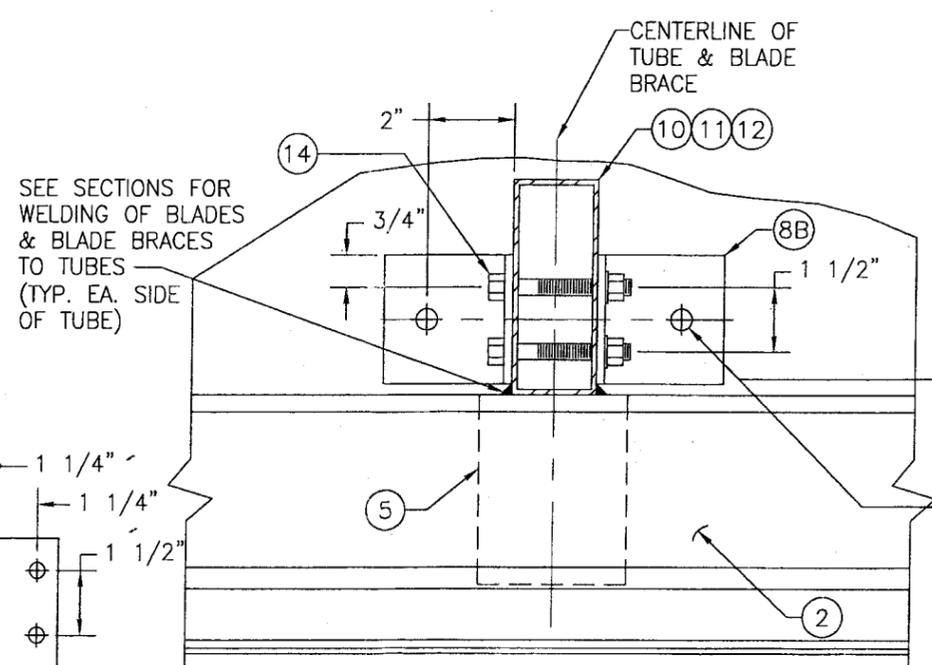
SEE SHEET 4 FOR INSTRUCTION OF JOINING FRAME CORNERS

SECTIONS A
SCALE: 3"=1'-0" 2

SEE FASTENER SCHEDULE ON SHEET 1 FOR FASTENER EMBED & EDGE DISTANCE REQUIREMENTS.



REINFORCEMENT BAR TO WOOD OR METAL FRAME SILL/HEAD



REINFORCEMENT BAR TO STRUCTURAL STEEL OR CONCRETE SILL/HEAD

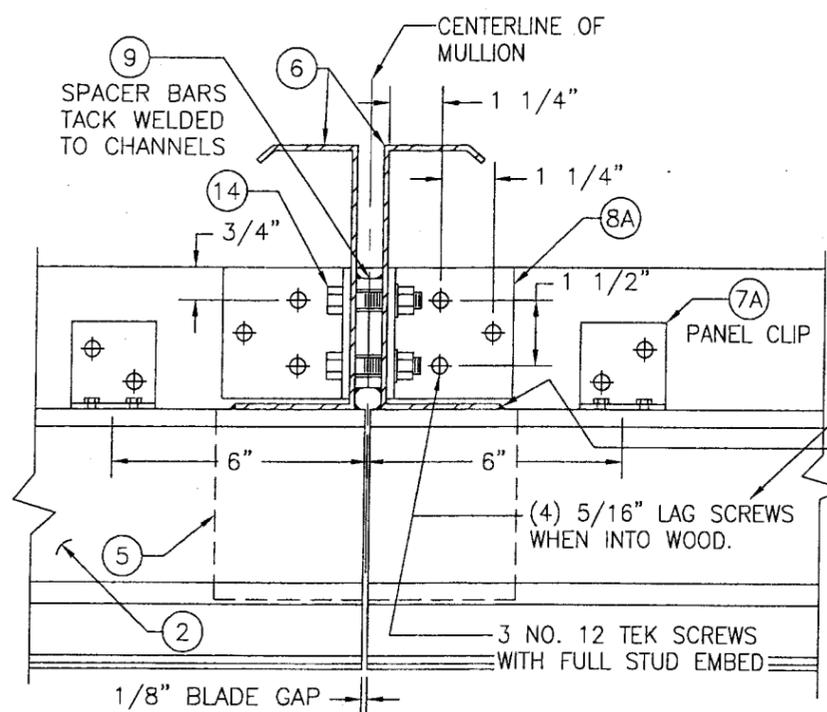
SECTIONS B
SCALE: 3"=1'-0" 2

NOTE: NO FRAME CLIPS ARE REQUIRED ON EITHER SIDE OF THE REINFORCEMENT BAR (REF. SHEET 1)

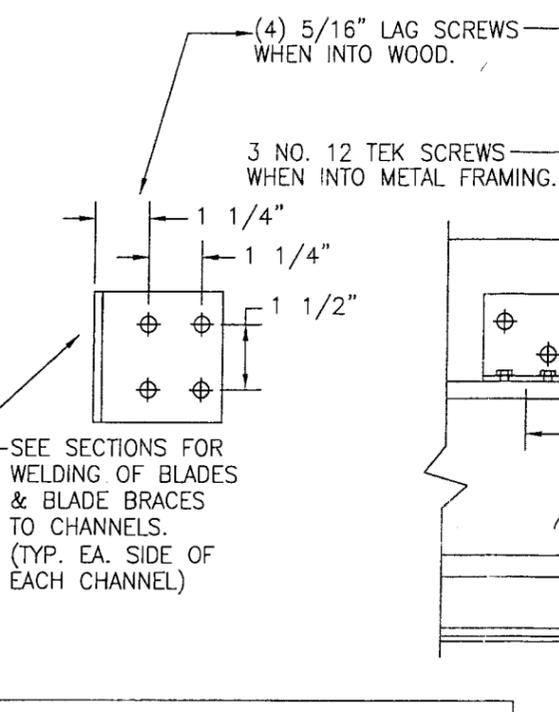
1/2" X MIN. 4 1/4" GALV. WEDGE ANCHOR WHEN INTO CONCRETE. READ HEAD NO. WS-1242G
1/2" GALV. A307 OR S.S. BOLT WHEN TO STEEL (MAY OPTION TO CONNECT TO STEEL WITH 3 NO. 12 TEK SCREWS SAME AS TO METAL FRAMING)

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 06-0531-03 Expiration Date: JUNE 28, 2011
By: *Isaac L. Chavala*
Miami Dade Product Control Division

| | | | |
|--|----------------------|--------------------|----|
| DRAWN BY: W.W.S. | | CHECKED BY: W.W.S. | |
| PLOT: 1=4 | | DATE: 01/18/01 | |
| NO. | REVISION DESCRIPTION | DATE | BY |
| | | | |
| | | | |
| | | | |
| | | | |
| DRAWING TITLE: 653XPDC 6" DRAINABLE BLADE LOUVER | | | |
| MANUFACTURER: INDUSTRIAL LOUVERS, INC. 511 SOUTH 7TH STREET DELANO, MN 55328 763-972-2981 | | | |
| CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903 | | | |
| CERTIFICATION: AUG 24 2005 WARREN W. SCHAEFER, P.E. P.E. NO. 44135 | | | |
| DRAWING NO. 1014 | | REV. A | |
| SHEET NO. 2 OF 7 | | | |

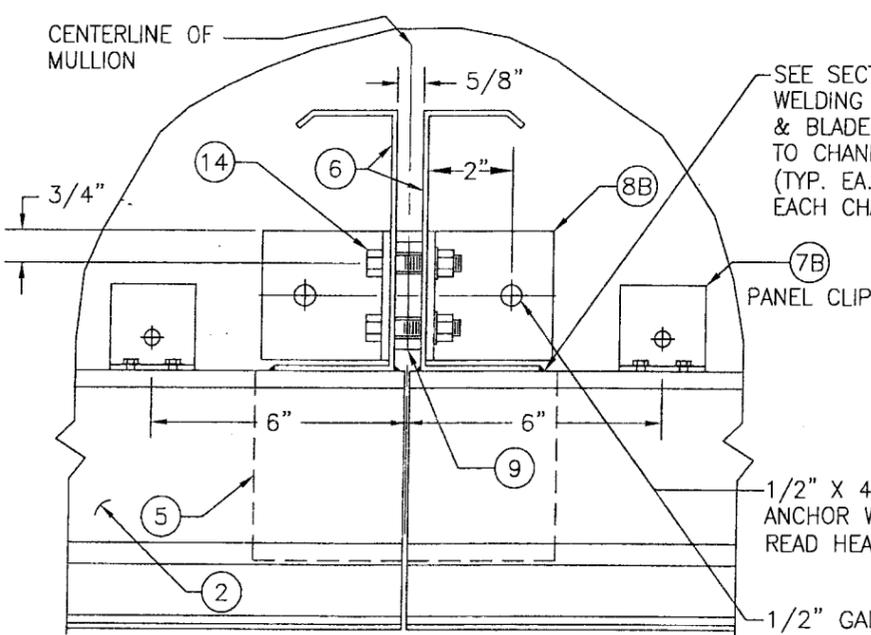


DOUBLE CHANNEL MULLION TO WOOD OR METAL FRAME SILL/HEAD
 FOR CONNECTION OF BLADES TO MULLION, SEE "TYPICAL BLADE TO MULLION CONNECTION DETAIL" & SECTION "E" FOR DETAIL.

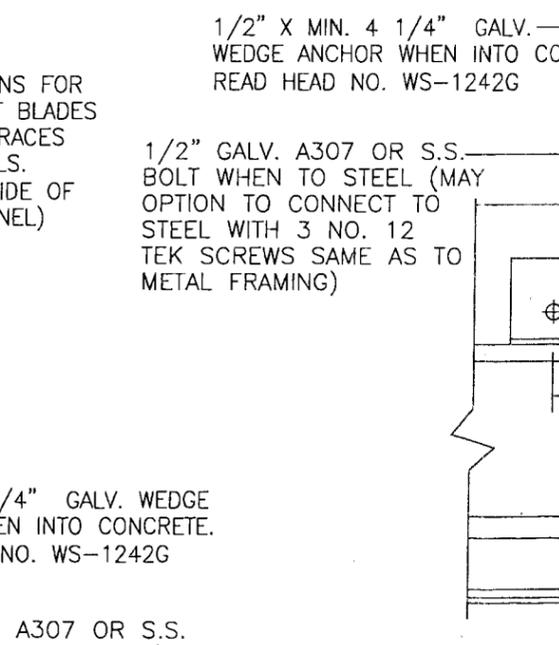


DOUBLE TUBE MULLION TO WOOD OR METAL FRAME SILL/HEAD
 FOR CONNECTION OF BLADES TO MULLION, SEE "TYPICAL BLADE TO MULLION CONNECTION DETAIL" & SECTION "E" FOR DETAIL.

SEE FASTENER SCHEDULE ON SHEET 1 FOR FASTENER EMBED & EDGE DISTANCE REQUIREMENTS.



DOUBLE CHANNEL MULLION TO STRUCTURAL STEEL OR CONCRETE SILL/HEAD
 FOR CONNECTION OF BLADES TO MULLION, SEE "TYPICAL BLADE TO MULLION CONNECTION DETAIL" & SECTION "E" FOR DETAIL.



DOUBLE TUBE MULLION TO STRUCTURAL STEEL OR CONCRETE SILL/HEAD
 FOR CONNECTION OF BLADES TO MULLION, SEE "TYPICAL BLADE TO MULLION CONNECTION DETAIL" & SECTION "E" FOR DETAIL.

SECTIONS C 3
 SCALE: 3"=1'-0"

PRODUCT RENEWED as complying with the Florida Building Code
 Acceptance No. 06-0531.03
 Expiration Date: June 25, 2011
 By: Islegl, C. Chanda
 Miami Dade Product Control Division

| | | | | | | | | |
|--|-----------------------|--------------|-------------------|--|----------|-------------|----|------|
| DRAWN BY: W.W.S. | CHECKED BY: W.W.S. | PLOT: 1=4 | DATE: 01/18/01 | NO. | REVISION | DESCRIPTION | BY | DATE |
| | | | | | | | | |
| DRAWING TITLE 653XPDC 6" DRAINABLE BLADE LOUVER | | | | MANUFACTURER INDUSTRIAL LOUVERS, INC. 511 SOUTH 7TH STREET DELANO, MN 55328 763-972-2981 | | | | |
| CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903 | | | | P.E. NO. 44135 WARREN W. SCHAEFER, P.E. | | | | |
| CERTIFICATION AUG 24 2005 | | | | DRAWING NO. 1014 REV. A SHEET NO. 3 OF 7 | | | | |

MULLION PRESSURE TABLE 1.0
(APPLICABLE FOR MULLIONS AT SINGLE SPAN PANELS)
(SEE ELEVATION "A" ON THIS SHEET)

| MULLION SPAN (PANEL HEIGHT) (INCHES) | LOAD WIDTH (SEE ELEVATION) (INCHES) | ALLOWABLE PRESSURE (PSF) | | | |
|--|---|--------------------------|------------------------|------------------------|------------------------|
| | | DOUBLE EXTR. CHANNEL | DOUBLE 4X2X1/8 TUBE | DOUBLE 5X2X1/8 TUBE | DOUBLE 6X2X1/8 TUBE |
| 60 | 72 | 150.0 | 150.0 | 150.0 | 150.0 |
| 72 | 48 | 150.0 | 150.0 | 150.0 | 150.0 |
| | 60 | 150.0 | 150.0 | 150.0 | 150.0 |
| | 72 | 133.3 | 127.7 | 133.3 | 133.3 |
| 84 | 36 | 150.0 | 150.0 | 150.0 | 150.0 |
| | 48 | 150.0 | 120.6 | 150.0 | 150.0 |
| | 60 | 137.1 | 96.5 | 137.1 | 137.1 |
| | 72 | 114.3 | 80.4 | 114.3 | 114.3 |
| 96 | 36 | 150.0 | 107.7 | 150.0 | 150.0 |
| | 48 | 150.0 | 80.8 | 141.3 | 150.0 |
| | 60 | 120.0 | 64.6 | 113.0 | 120.0 |
| | 72 | 100.0 | 53.9 | 94.2 | 100.0 |
| 108 | 36 | 150.0 | 75.7 | 132.3 | 150.0 |
| | 48 | 133.3 | 56.8 | 99.2 | 133.3 |
| | 60 | 106.7 | 45.4 | 79.4 | 106.7 |
| | 72 | 88.9 | 37.8 | 66.2 | 88.9 |
| 120 | 36 | 150.0 | 55.2 | 96.5 | 150.0 |
| | 48 | 112.5 | 41.4 | 72.3 | 115.1 |
| | 60 | 90.0 | 33.1 | 57.9 | 92.1 |
| | 72 | 75.0 | 27.6 | 48.2 | 76.7 |

MULLION PRESSURE TABLE 2.0
(APPLICABLE FOR MULLIONS AT DOUBLE SPAN PANELS)
(SEE ELEVATION "B" ON THIS SHEET)

| MULLION SPAN (PANEL HEIGHT) (INCHES) | (A+B)/2 (SEE ELEVATION) (INCHES) | ALLOWABLE PRESSURE (PSF) | | | |
|--|--|--------------------------|------------------------|------------------------|------------------------|
| | | DOUBLE EXTR. CHANNEL | DOUBLE 4X2X1/8 TUBE | DOUBLE 5X2X1/8 TUBE | DOUBLE 6X2X1/8 TUBE |
| 84 | 36 | 150.0 | 150.0 | 150.0 | 150.0 |
| | 48 | 150.0 | 150.0 | 150.0 | 150.0 |
| | 60 | 150.0 | 150.0 | 150.0 | 150.0 |
| | 72 | 150.0 | 150.0 | 150.0 | 150.0 |
| 96 | 36 | 150.0 | 150.0 | 150.0 | 150.0 |
| | 48 | 150.0 | 150.0 | 150.0 | 150.0 |
| | 60 | 150.0 | 150.0 | 150.0 | 150.0 |
| | 72 | 150.0 | 143.7 | 150.0 | 150.0 |
| 108 | 36 | 150.0 | 150.0 | 150.0 | 150.0 |
| | 48 | 150.0 | 150.0 | 150.0 | 150.0 |
| | 60 | 150.0 | 121.1 | 150.0 | 150.0 |
| | 72 | 150.0 | 100.9 | 150.0 | 150.0 |
| 120 | 36 | 150.0 | 147.1 | 150.0 | 150.0 |
| | 48 | 150.0 | 110.3 | 150.0 | 150.0 |
| | 60 | 150.0 | 88.3 | 150.0 | 150.0 |
| | 72 | 150.0 | 73.6 | 128.6 | 150.0 |

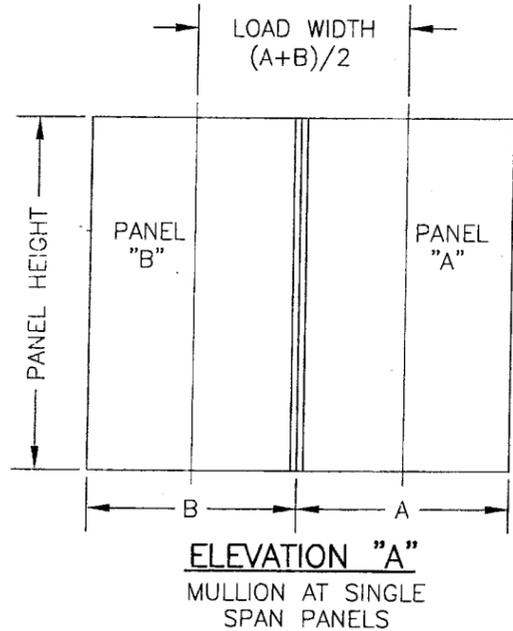
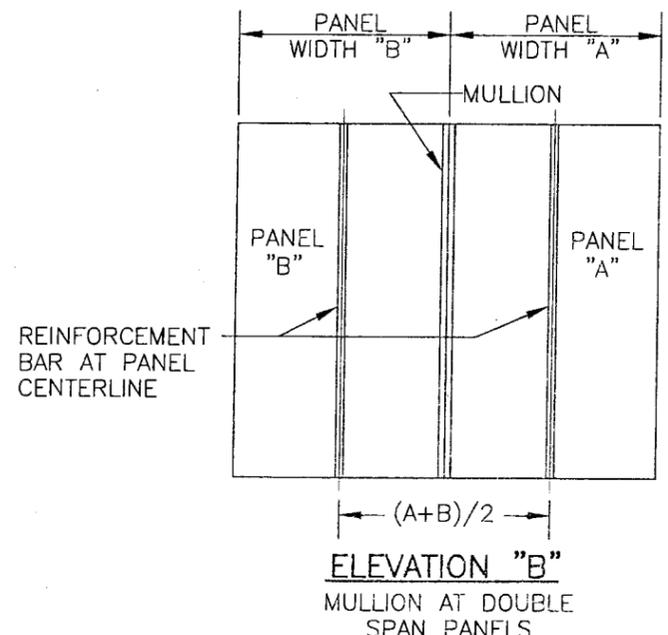


TABLE 4.0
LOUVER PANEL SIZE & PRESSURE TABLE
(APPLICABLE FOR SINGLE SPAN LOUVER PANELS)

| PANEL WIDTH | ALLOWABLE DESIGN PRESSURE |
|-------------|---------------------------|
| 36" | 150.0 PSF |
| 42" | 128.5 PSF |
| 48" | 112.5 PSF |
| 54" | 100.0 PSF |
| 60" | 90.0 PSF |
| 66" | 81.9 PSF |
| 72" | 75.0 PSF |



NOTE: PANEL WIDTHS MAY NOT EXCEED 72" & PANEL HEIGHT MAY NOT EXCEED 120"

ALL PRESSURES IN TABLES ARE FOR BOTH POSITIVE & NEGATIVE DIRECTION.

NOTE: MAX. LOUVER WIDTH AND PRESSURE IS CONTROLLED BY TABLE 4.0. OTHER TABLES MUST CONFORM WITH TABLE 4.0 IN ORDER TO BE USED.

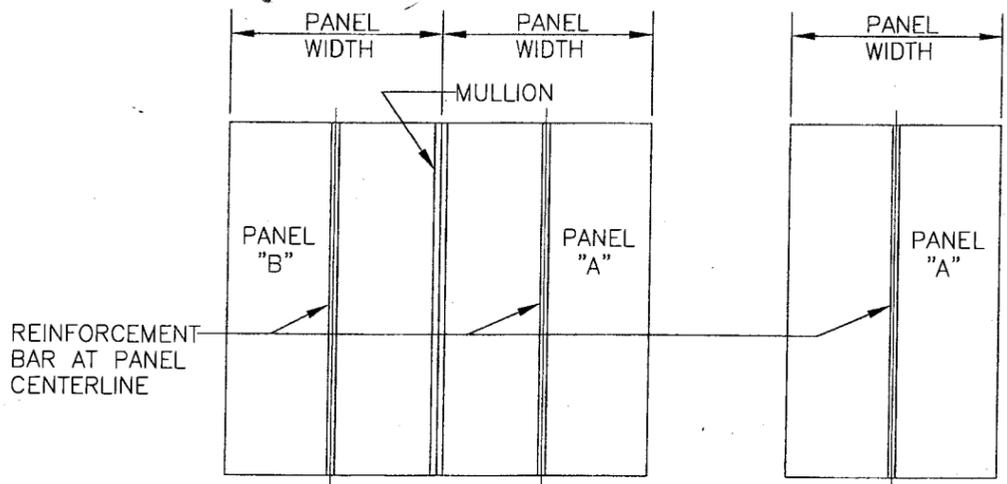
NOTE: PANEL WIDTHS MAY NOT EXCEED 72" & PANEL HEIGHT MAY NOT EXCEED 120"

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No. 06-0531-03
Expiration Date JUNE 29, 2011
By Iskag I. Chande
Miami Dade Product Control Division

| | |
|---|--|
| DRAWN BY: W.W.S. | CHECKED BY: W.W.S. |
| PLOT: 1=1 | DATE: 01/18/01 |
| DATE | BY |
| REVISION DESCRIPTION | NO. |
| DRAWING TITLE: 653XPDC 6" DRAINABLE BLADE LOUVER | |
| CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903 | |
| MANUFACTURER: INDUSTRIAL LOUVERS, INC. 511 SOUTH 7TH STREET DELANO, MN 55328 763-972-2981 | |
| CERTIFICATION: AUG 24 2005 | WARREN W. SCHAEFER, P.E. P.E. NO. 44135 |
| DRAWING NO. 1014 | REV. A |
| SHEET NO. 6 OF 7 | |

REINFORCEMENT BAR PRESSURE TABLE 3.0
(APPLICABLE FOR REINFORCEMENT BARS)
(SEE ELEVATION "C" ON THIS SHEET)

| BAR SPAN (PANEL HEIGHT) (INCHES) | PANEL WIDTH (SEE ELEVATION) (INCHES) | ALLOWABLE PRESSURE (PSF) | | |
|--|--|--------------------------|------------------------|------------------------|
| | | SINGLE 4X2X1/8 TUBE | SINGLE 5X2X1/8 TUBE | SINGLE 6X2X1/8 TUBE |
| 60 | 36 | 150.0 | 150.0 | 150.0 |
| | 48 | 150.0 | 150.0 | 150.0 |
| | 60 | 150.0 | 150.0 | 150.0 |
| | 72 | 150.0 | 150.0 | 150.0 |
| 72 | 36 | 150.0 | 150.0 | 150.0 |
| | 48 | 150.0 | 150.0 | 150.0 |
| | 60 | 150.0 | 150.0 | 150.0 |
| | 72 | 139.6 | 150.0 | 150.0 |
| 84 | 36 | 150.0 | 150.0 | 150.0 |
| | 48 | 150.0 | 150.0 | 150.0 |
| | 60 | 123.1 | 150.0 | 150.0 |
| | 72 | 102.6 | 143.5 | 150.0 |
| 96 | 36 | 150.0 | 150.0 | 150.0 |
| | 48 | 117.8 | 150.0 | 150.0 |
| | 60 | 94.2 | 131.9 | 150.0 |
| | 72 | 78.5 | 109.9 | 145.6 |
| 108 | 36 | 124.1 | 150.0 | 150.0 |
| | 48 | 93.1 | 130.2 | 150.0 |
| | 60 | 74.5 | 104.2 | 138.1 |
| | 72 | 62.1 | 86.8 | 115.1 |
| 120 | 36 | 100.5 | 140.7 | 150.0 |
| | 48 | 75.4 | 105.5 | 139.8 |
| | 60 | 60.3 | 84.4 | 111.8 |
| | 72 | 50.3 | 70.3 | 93.2 |



MULTIPLE PANELS

SINGLE PANEL

ELEVATION "C"
REINFORCEMENT BAR
(DOUBLE SPAN PANELS)

NOTE: PANEL WIDTHS MAY NOT EXCEED 72"
& PANEL HEIGHT MAY NOT EXCEED 120"

LOAD TABLE INSTRUCTIONS

SINGLE PANELS

- GO TO "LOUVER PANEL SIZE & PRESSURE TABLE" ON SHEET 6 AND CHECK THE ALLOWABLE PRESSURE FOR THE PANEL IN SINGLE SPAN. IF THE ALLOWABLE PRESSURE IS GREATER THAN OR EQUAL TO THE REQUIRED PRESSURE, YOU ARE DONE. IF THE ALLOWABLE PRESSURE IS LESS THAN THE REQUIRED PRESSURE, CONTINUE TO NO. 2 BELOW FOR CHOOSING A REINFORCEMENT BAR.
- GO TO TABLE 3.0 ON THIS SHEET AND CHOOSE A BAR WHOSE ALLOWABLE PRESSURE AT THE APPLICABLE SPAN & PANEL WIDTH IS GREATER THAN OR EQUAL TO THE REQUIRED PRESSURE.

MULTIPLE PANELS

- GO TO "LOUVER PANEL SIZE & PRESSURE TABLE" ON SHEET 6 AND CHECK THE ALLOWABLE PRESSURE FOR PANELS IN SINGLE SPAN (NO REINFORCEMENT BARS). IF THE ALLOWABLE PRESSURE FOR THE PANEL IS GREATER THAN OR EQUAL TO THE REQUIRED PRESSURE, NO REINFORCEMENT BAR IS REQUIRED AND YOU MAY PROCEED TO NO. 3 BELOW FOR SIZING THE MULLIONS. IF A REINFORCEMENT BAR IS REQUIRED, CONTINUE TO NO. 2 BELOW.
- IF A SINGLE SPAN PANEL WILL NOT MEET PRESSURE REQUIREMENTS, GO TO TABLE 3.0 ON THIS SHEET AND CHOOSE A REINFORCEMENT BAR WHOSE ALLOWABLE PRESSURE AT THE APPLICABLE SPAN & PANEL WIDTH IS GREATER THAN OR EQUAL TO THE REQUIRED PRESSURE AND THEN SKIP TO NO. 4 BELOW.
- IF NO REINFORCEMENT BAR IS REQUIRED, GO TO TABLE 1.0 AND CHOOSE A MULLION WHOSE ALLOWABLE PRESSURE IS GREATER THAN OR EQUAL TO THE REQUIRED PRESSURE.
- IF A REINFORCEMENT BAR IS REQUIRED, GO TO TABLE 2.0 AND CHOOSE A MULLION WHOSE ALLOWABLE PRESSURE IS GREATER THAN OR EQUAL TO THE REQUIRED PRESSURE.

** IF THE MULLION WILL NOT SUPPORT THE REQUIRED DESIGN PRESSURE WHEN USING SINGLE SPAN PANELS, A REINFORCEMENT BAR MUST BE USED & SIZED ACCORDING TO THESE INSTRUCTIONS.

NOTE: THE LESSER ALLOWABLE PRESSURE OF
THE MULLION, REINFORCEMENT BAR OR
SINGLE PANEL WILL CONTROL.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 06-0531-03
Expiration Date Jan 29, 2011
By Isaac J. Chanda
Miami Dade Product Control
Division

| | | | |
|--|-----|--|--|
| DRAWN BY: W.W.S. | | CHECKED BY: W.W.S. | |
| PLOT: 1=1 | | DATE: 01/18/01 | |
| DATE | BY | REVISION DESCRIPTION | |
| 08/23/05 | WWS | REVISED LOADS IN TABLE TO 2004 FBC COMPLIANT | |
| DRAWING TITLE | | MANUFACTURER | |
| 653XPDC 6" DRAINABLE BLADE LOUVER | | INDUSTRIAL LOUVERS, INC. 511 SOUTH 7TH STREET DELANO, MN 55328 763-972-2981 | |
| CONSULTANTS | | PHONE: 561-775-4902 FAX: 561-775-4903 | |
| W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. | | 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 | |
| DRAWING NO. | | REV. | |
| 1014 | | A | |
| SHEET NO. | | | |
| 7 | | OF 7 | |

DRAWING TITLE

CERTIFICATION
AUG 24 2005

WARREN W. SCHAEFER, P.E.
P.E. NO. 44135