



BUILDING CODE COMPLIANCE OFFICE
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1603
MIAMI, FLORIDA 33130-1563
(305) 375-2901 FAX (305) 375-2908

CONTRACTOR LICENSING SECTION
(305) 375-2527 FAX (305) 375-2558

CONTRACTOR ENFORCEMENT DIVISION
(305) 375-2966 FAX (305) 375-2908

PRODUCT CONTROL DIVISION
(305) 375-2902 FAX (305) 372-6339

PRODUCT CONTROL NOTICE OF ACCEPTANCE

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

Your application for Notice of Acceptance (NOA) of:

653 XPDC 6" Drainable Blade Louver

under Chapter 8 of the Code of Miami-Dade County governing the use of Alternate Materials and Types of Construction, and completely described herein, has been recommended for acceptance by the Miami-Dade County Building Code Compliance Office (BCCO) under the conditions specified herein.

This NOA shall not be valid after the expiration date stated below. BCCO reserves the right to secure this product or material at any time from a jobsite or manufacturer's plant for quality control testing. If this product or material fails to perform in the approved manner, BCCO may revoke, modify, or suspend the use of such product or material immediately. BCCO reserves the right to revoke this approval, if it is determined by BCCO that this product or material fails to meet the requirements of the South Florida Building Code.

The expense of such testing will be incurred by the manufacturer.

ACCEPTANCE NO.: 01-0215.03
EXPIRES: 06/28/2006

Raul Rodriguez
Chief Product Control Division

**THIS IS THE COVERSHEET, SEE ADDITIONAL PAGES FOR SPECIFIC AND GENERAL
CONDITIONS
BUILDING CODE & PRODUCT REVIEW COMMITTEE**

This application for Product Approval has been reviewed by the BCCO and approved by the Building Code and Product Review Committee to be used in Miami-Dade County, Florida under the conditions set forth above.

Francisco J. Quintana, R.A.
Director
Miami-Dade County
Building Code Compliance Office

APPROVED: 06/28/2001

Industrial Louvers, Inc.

ACCEPTANCE No: 01-0215.03

APPROVED: JUN 29 2001

EXPIRES: JUN 28 2006

NOTICE OF ACCEPTANCE: SPECIFIC CONDITIONS

1. SCOPE

- 1.1 This approves extruded aluminum louvers, as described in Section 2 of this Notice of Acceptance, designed to comply with the South Florida Building Code (SFBC), 1994 Edition for Miami-Dade County. For the locations where the pressure requirements, as determined by SFBC Chapter 23, do not exceed the Design Pressure Rating values indicated in the approved drawings.

2. PRODUCT DESCRIPTION

- 2.1 The **Industrial louver system** and its components shall be constructed in strict compliance with the following documents: Drawing No. 1014, titled "653XPDC 6" DRAINABLE BLADE LOUVER" prepared by W.W. Schaefer Engineering, & Consulting, P.A., dated 01/18/01 with no revisions. They bear 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. These documents shall hereinafter be referred to as the approved drawings.

3. LIMITATIONS

- 3.1 All permanent set components, included but not limited to embedded anchor bolts, metal shields, headers and sills, must be protected against corrosion, contamination and damage at all time.
- 3.2 This approval applies to applications as shown on the approved drawings
- 3.3 Units with dimensions equal to or smaller than those shown in the approved drawings shall qualify under this approval.

4. INSTALLATION

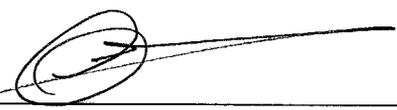
- 4.1 The louvers shall be installed in strict compliance with the approved drawings.
- 4.2 The installation of this product **will not** require a hurricane protection system.
- 4.3 This louver shall only be installed in a location where the room behind the louver is designed to drain water penetrating into the room, and the room will house water-resistant equipment, components, and supplies.

5. LABELING

- 5.1 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".

6. BUILDING PERMIT REQUIREMENTS

- 6.1 Application for building permit shall be accompanied by copies of the following:
- 6.1.1 This Notice of Acceptance.
- 6.1.2 Duplicate copies of the approved drawings, as identified in Section 2 of this Notice of Acceptance, clearly marked to show the components selected for the proposed installation.
- 6.1.3 Any other documents required by the Building Official or the South Florida Building Code (SFBC) in order to properly evaluate the installation of this system.


Candido Font PE., Senior Product Control Examiner
Product Control Division

Industrial Louvers, Inc.

ACCEPTANCE No: 01-0215.03

APPROVED: JUN 28 2001

EXPIRES: JUN 28 2006

NOTICE OF ACCEPTANCE: STANDARD CONDITIONS

1. Renewal of this Acceptance (approval) shall be considered after a renewal application has been filed and the original submitted documents, including test-supporting data, engineering documents, are no older than eight (8) years.
2. Any and all approved products shall be permanently labeled with the manufacturer's name, city, state, and the following statement: "Miami-Dade County Product Control Approval", or as specifically stated in the specific conditions of this Acceptance.
3. Renewals of Acceptance will not be considered if:
 - a. There has been a change in the South Florida Building Code affecting the evaluation of this product and the product is not in compliance with the code changes.
 - b. The product is no longer the same product (identical) as the one originally approved.
 - c. If the Acceptance holder has not complied with all the requirements of this acceptance, including the correct installation of the product.
 - d. The engineer who originally prepared, signed and sealed the required documentation initially submitted, is no longer practicing the engineering profession.
4. Any revision or change in the materials, use, and/or manufacture of the product or process shall automatically be cause for termination of this Acceptance, unless prior written approval has been requested (through the filing of a revision application with appropriate fee) and granted by this office.
5. Any of the following shall also be grounds for removal of this Acceptance:
 - a. Unsatisfactory performance of this product or process.
 - b. Misuse of this Acceptance as an endorsement of any product, for sales, advertising or any other purposes.
6. The Notice of Acceptance 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 Notice of Acceptance is displayed, then it shall be done in its entirety.
7. A copy of this Acceptance as well as approved drawings and other documents, where it applies, shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at all time. The engineer need not reseal the copies.
8. Failure to comply with any section of this Acceptance shall be cause for termination and removal of Acceptance.
9. This Notice of Acceptance consists of pages 1, 2 and this last page 3.


Candido Font PE., Senior Product Control Examiner
Product Control Division

Industrial Louvers, Inc.

ACCEPTANCE No: 01-0215.03

APPROVED: JUN 28 2001

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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS.

1. Drawing prepared by W. W. Schaefer Engineering & Consulting, P.A., titled "653XPDC 6" DRAINABLE BLADE LOUVER" Drawing No. 1014, dated 01/18/01 with no revisions, signed and sealed by W. W. Schaefer, PE.

B. TESTS.

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. 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.

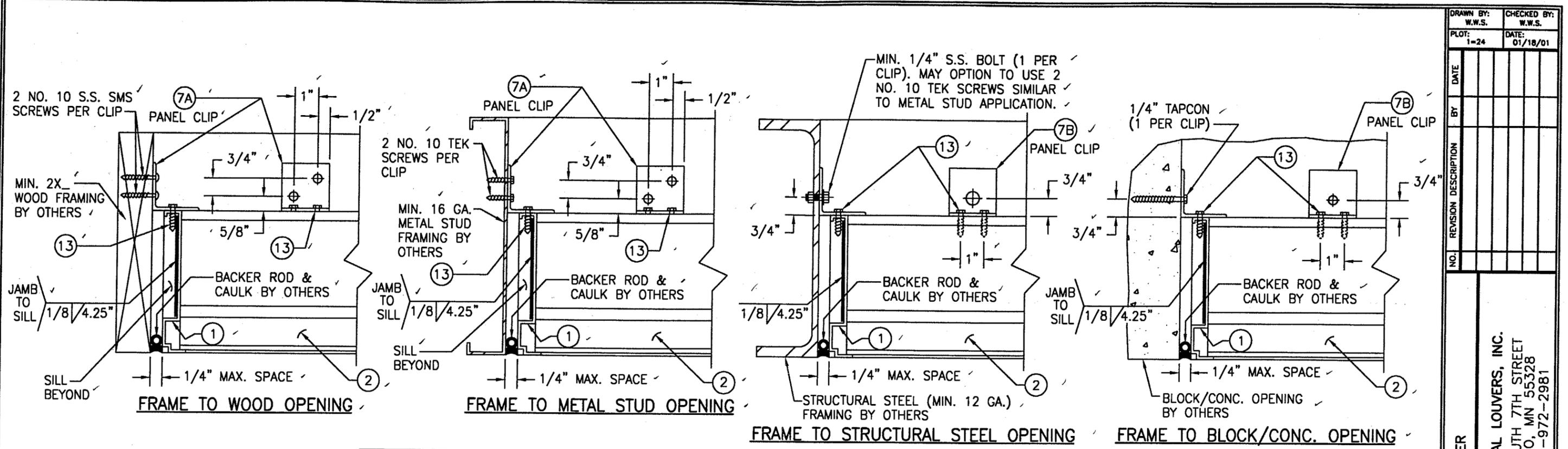
D. MATERIAL CERTIFICATIONS.

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.
2. Product Approval Notice of Acceptance No. 97-1023.04, issued by Miami-Dade County on 07/09/98, signed by C. D. PE.

E. STATEMENTS

1. Test compliance letter issued by Hurricane Test Laboratory, Inc., on 02/08/01, signed, dated and sealed by V. J. Abraham, PE.
2. Code compliance letter issued by W. W. Schaefer Engineering & Consulting, PA on 02/24/01, signed and sealed by W. W. Schaefer, PE.
3. No financial Interest letter issued by W. W. Schaefer Engineering & Consulting, PA, signed and sealed W. W. Schaefer, PE.

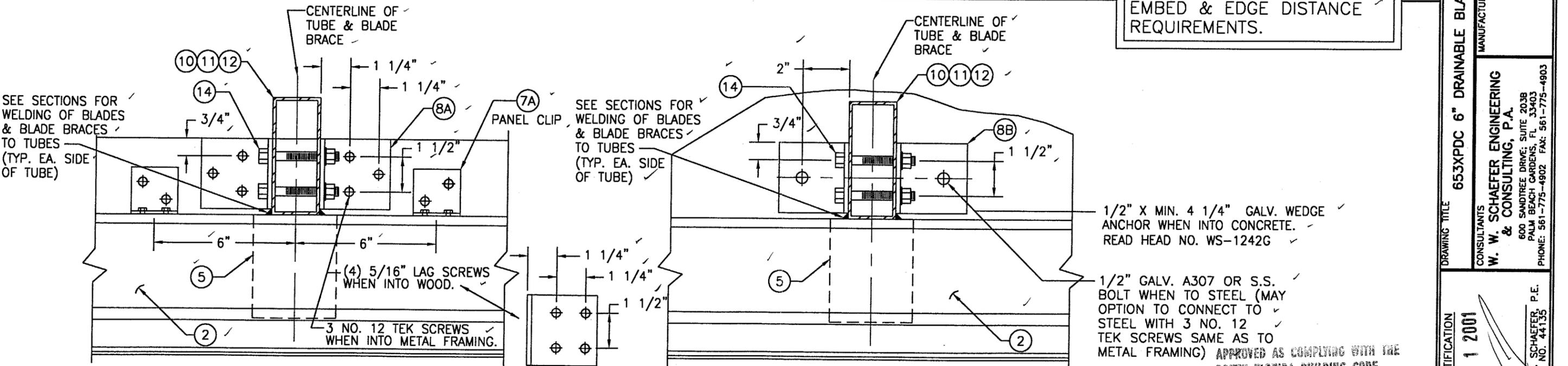

Candido Font PE., Senior Product Control Examiner
Product Control Division



SEE SHEET 4 FOR INSTRUCTION OF JOINING FRAME CORNERS

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

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

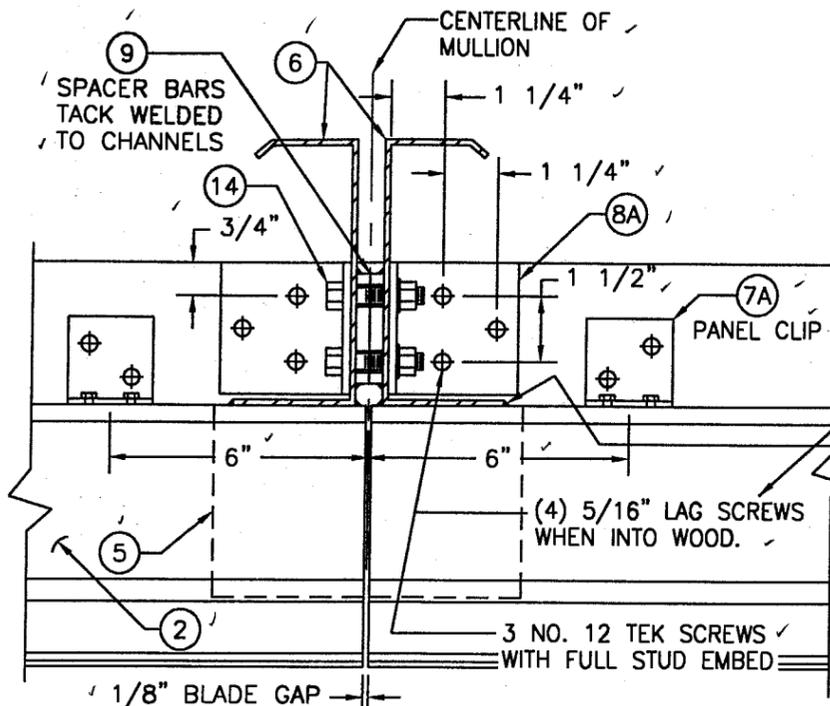


SECTIONS B
SCALE: 3"=1'-0"

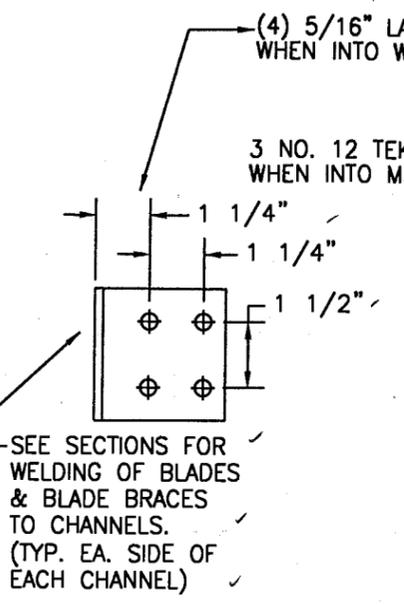
NOTE: NO FRAME CLIPS ARE REQUIRED ON EITHER SIDE OF THE REINFORCEMENT BAR (REF. SHEET 1)

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DATE JUN 28 2001
BY
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0215.03

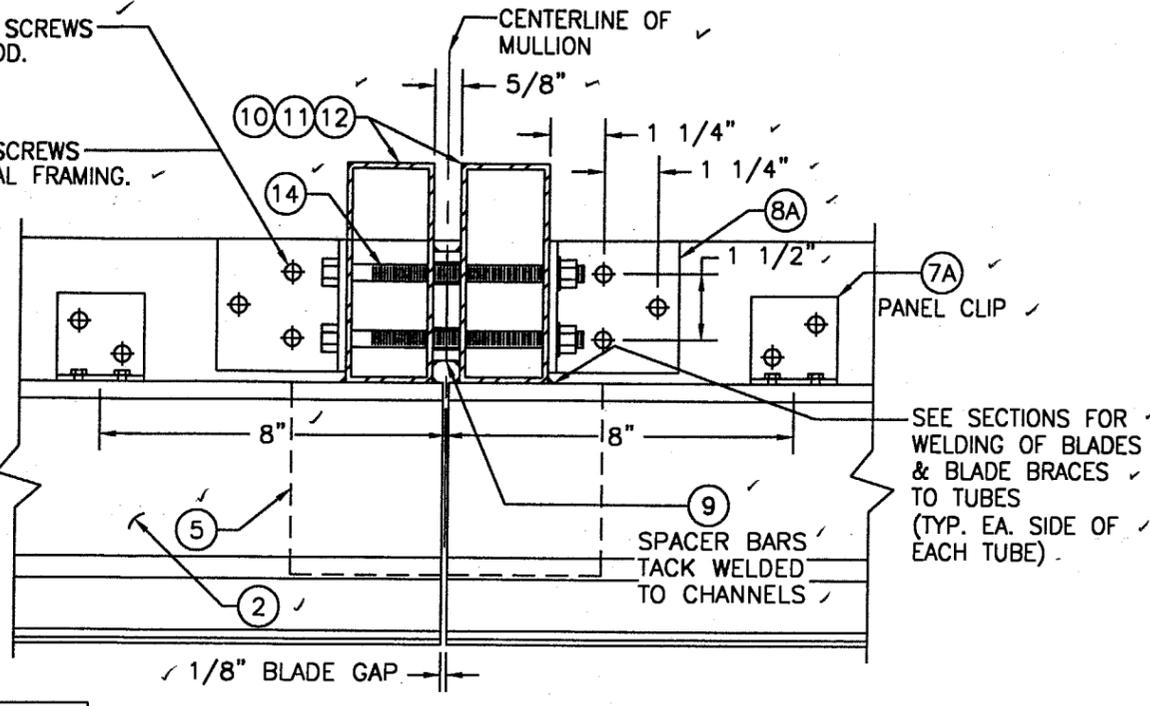
DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 01/18/01
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE 653XPDC 6" DRAINABLE BLADE LOUVER	
MANUFACTURER INDUSTRIAL LOUVERS, INC. 511 SOUTH 7TH STREET DELANO, MN 55328 763-972-2981	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION MAY 11 2001	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1014	REV.
SHEET NO. 2	OF 7



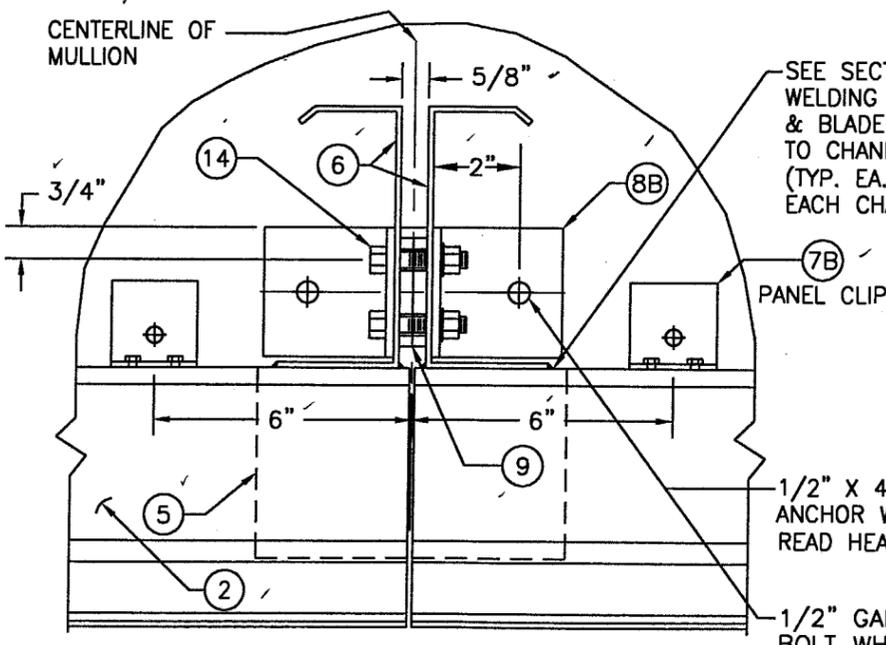
DOUBLE CHANNEL MULLION TO WOOD OR METAL FRAME SILL/HEAD
 FOR CONNECTION OF BLADES TO MULLION, SEE "TYPICAL BLADE TO MULLION CONNECTION DETAIL" & SECTION "E" FOR DETAIL.



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



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.



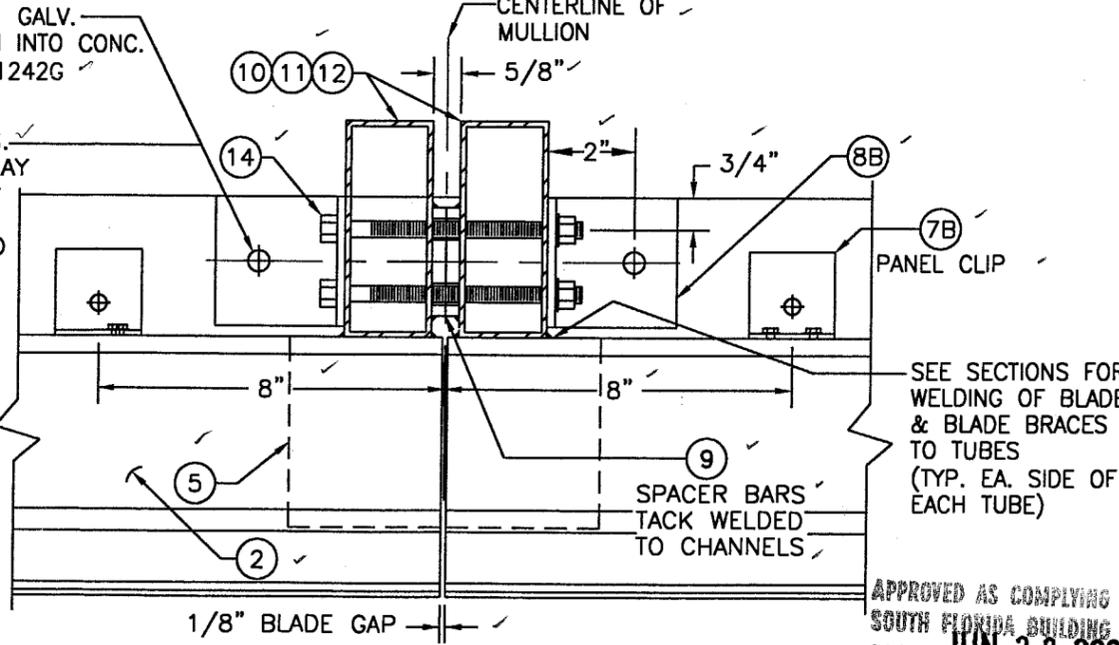
DOUBLE CHANNEL MULLION TO STRUCTURAL STEEL OR CONCRETE SILL/HEAD
 FOR CONNECTION OF BLADES TO MULLION, SEE "TYPICAL BLADE TO MULLION CONNECTION DETAIL" & SECTION "E" FOR DETAIL.

SEE SECTIONS FOR WELDING OF BLADES & BLADE BRACES TO CHANNELS. (TYP. EA. SIDE OF EACH CHANNEL)

1/2" X 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)

1/2" X MIN. 4 1/4" GALV. WEDGE ANCHOR WHEN INTO CONC. READ HEAD NO. WS-1242G

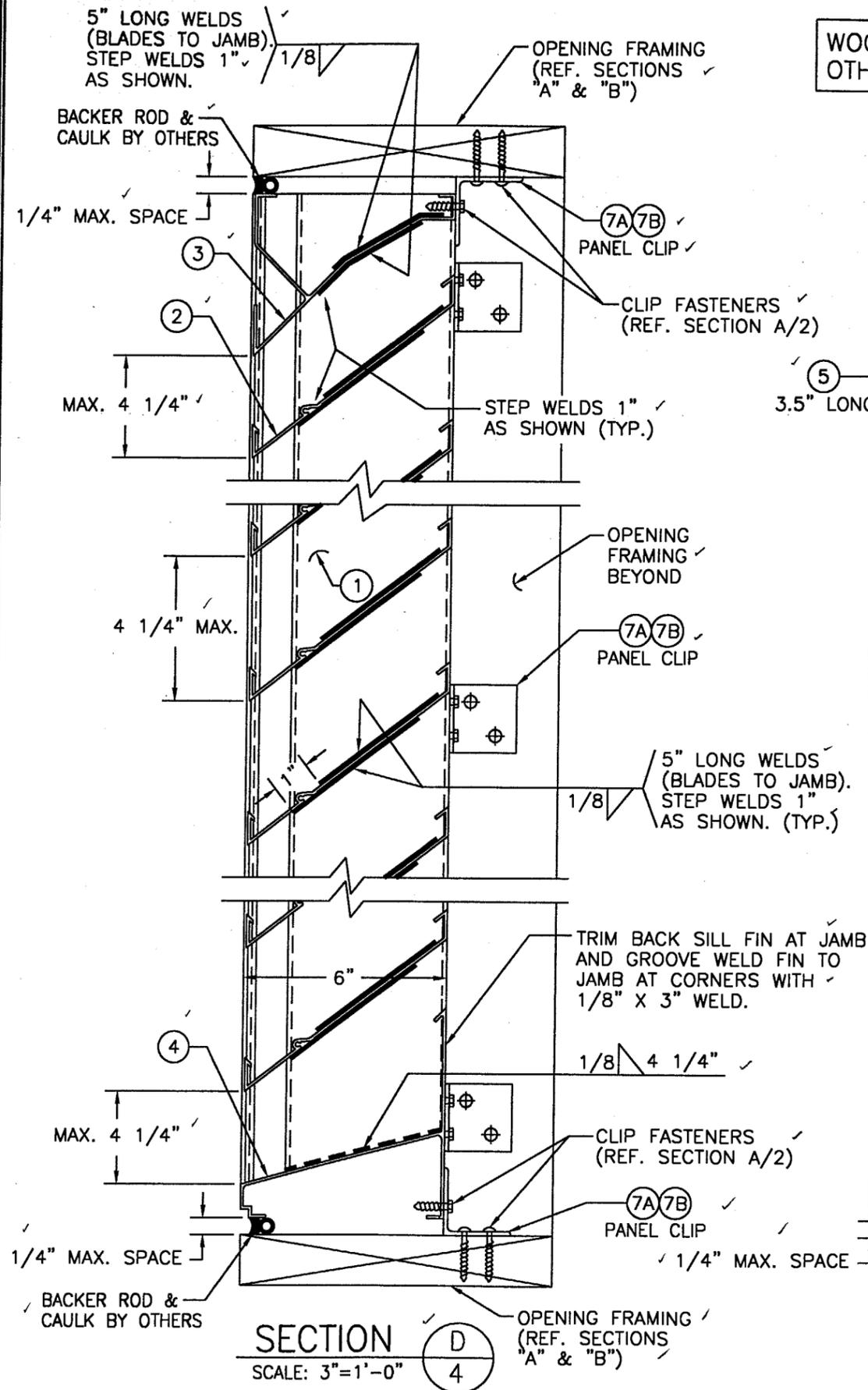


DOUBLE TUBE MULLION TO STRUCTURAL STEEL OR CONCRETE SILL/HEAD
 FOR CONNECTION OF BLADES TO MULLION, SEE "TYPICAL BLADE TO MULLION CONNECTION DETAIL" & SECTION "E" FOR DETAIL.

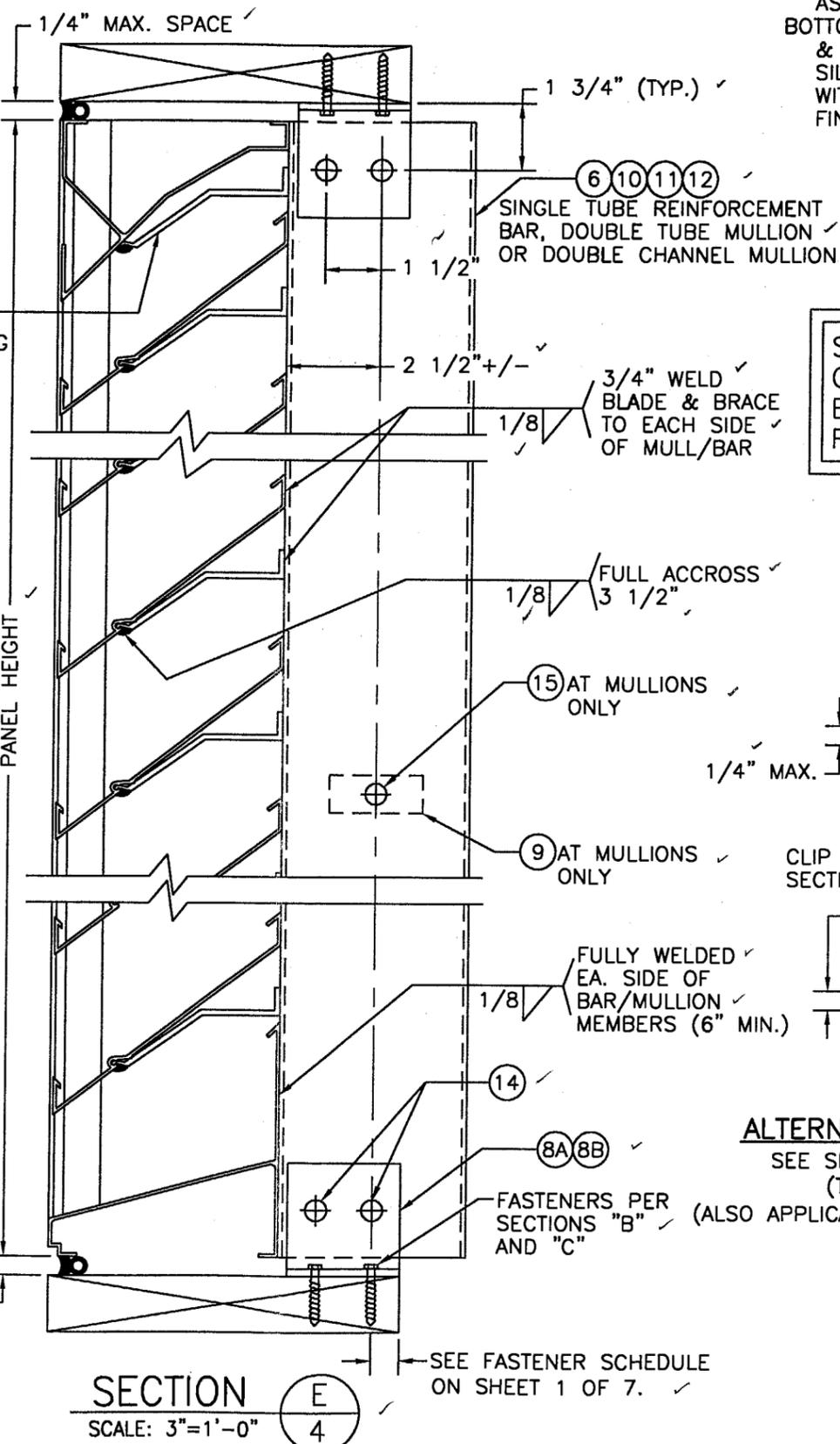
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
 DATE JUN 28 2001
 BY [Signature]
 PRODUCT GROUP OFFICE
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 01-0215.03

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

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 01/18/01
DATE	
BY	
REVISION DESCRIPTION	
NO.	
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.	600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903
CERTIFICATION MAY 11 2001	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1014	REV.
SHEET NO. 3	OF 7



WOOD APPLICATION SHOWN. OTHER APPLICATIONS SIMILAR.

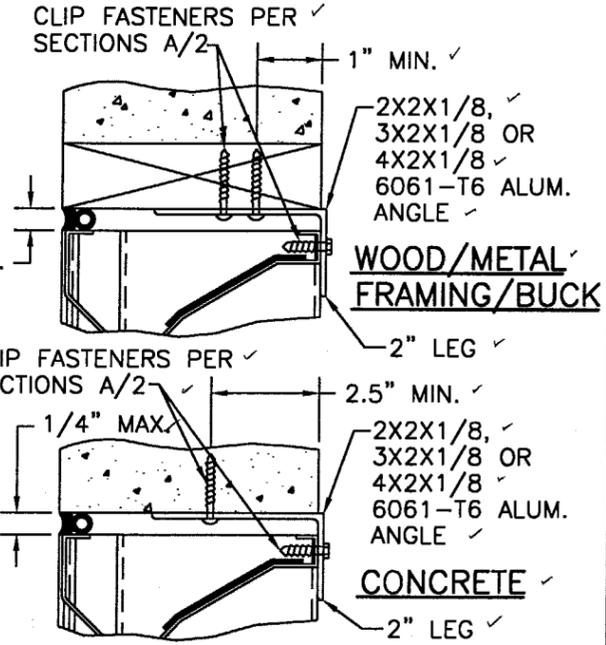


CORNER CONSTRUCTION

TOP BLADE TO JAMB: BLADE IS BUTTED TO JAMB & WELDED WITH (2) 1/8" X 5" WELDS AS SHOWN IN SECTION "D".

BOTTOM SILL TO JAMB: SILL FIN IS TRIMMED & JAMB SITS ON TOP OF SILL (BUTTED TO SILL). WELD OUTSIDE EDGE OF JAMB TO SILL WITH 1/8" X 5" WELD. ALSO GROOVE WELD FIN TO JAMB EDGE WITH 3" OF WELD.

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



APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE

DATE

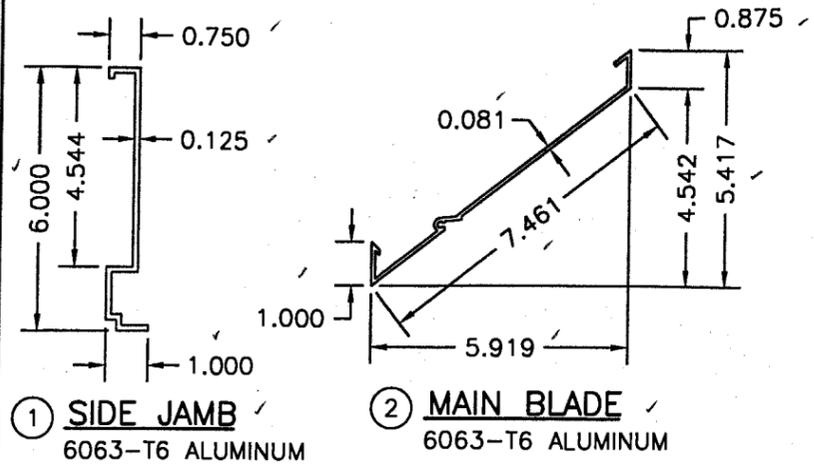
BY

PRODUCT ENGINEER

BUILDING CODE COMPLIANCE OFFICE

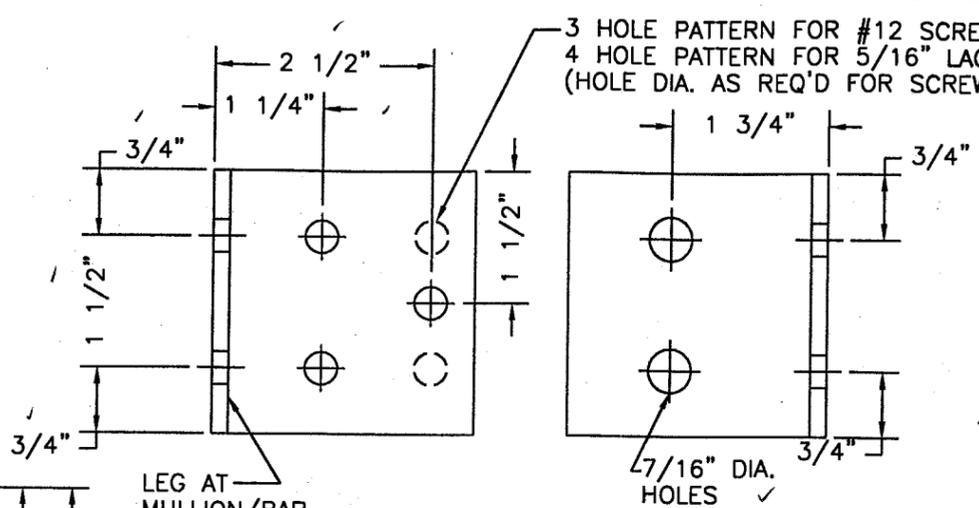
ACCEPTANCE NO. 01-0215.03

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PLOT: 1-24	DATE: 01/18/01
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CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	MANUFACTURER INDUSTRIAL LOUVERS, INC.
600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903	511 SOUTH 7TH STREET DELANO, MN 55328 763-972-2981
CERTIFICATION MAY 11 2001	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1014	REV.
SHEET NO. 4	OF 7

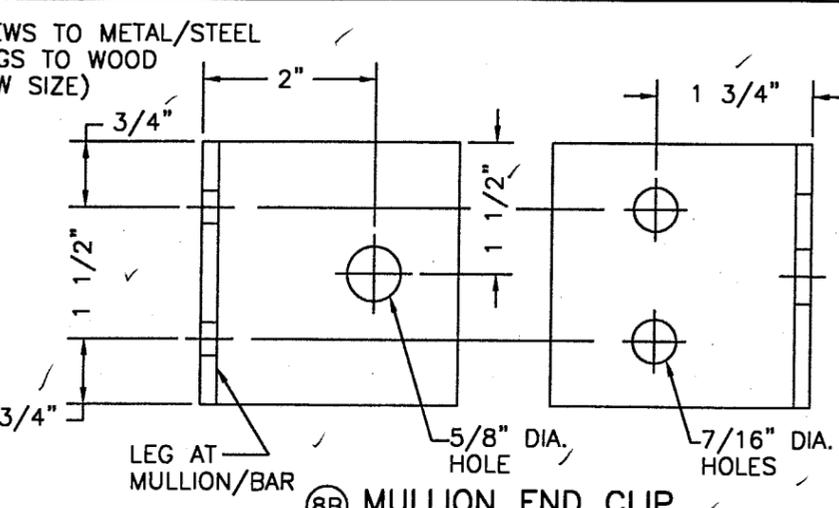


① **SIDE JAMB**
6063-T6 ALUMINUM

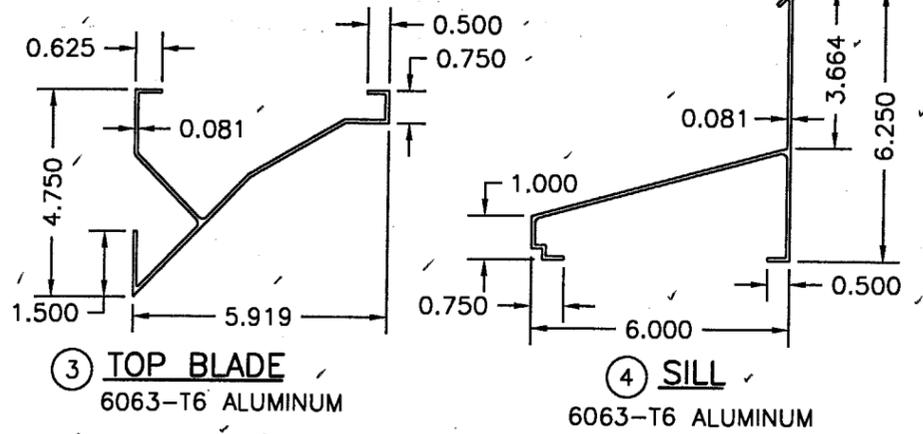
② **MAIN BLADE**
6063-T6 ALUMINUM



⑧A **MULLION END CLIP**
6061-T6 OR 6005-T5 ALUMINUM
L3X3X3/16 (3" LONG)

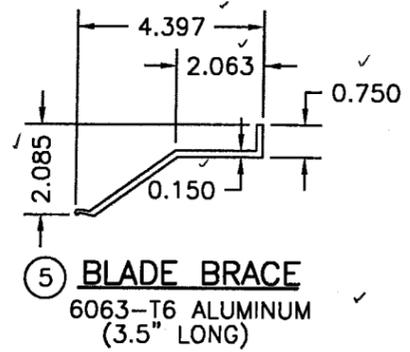


⑧B **MULLION END CLIP**
6061-T6 ALUMINUM
L3X3X3/16 (3" LONG)

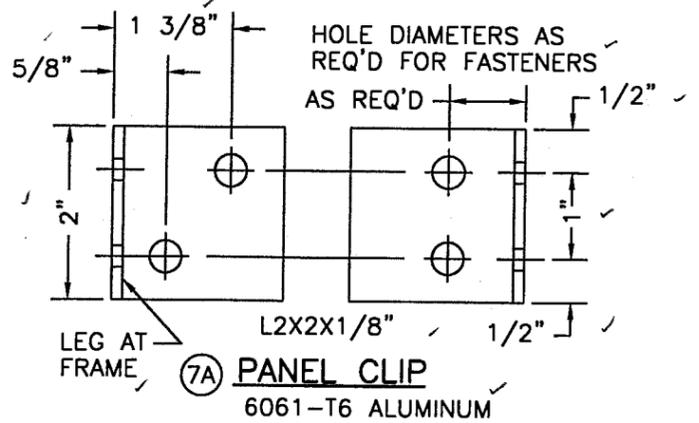


③ **TOP BLADE**
6063-T6 ALUMINUM

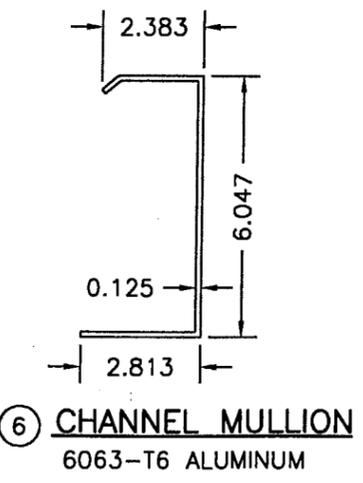
④ **SILL**
6063-T6 ALUMINUM



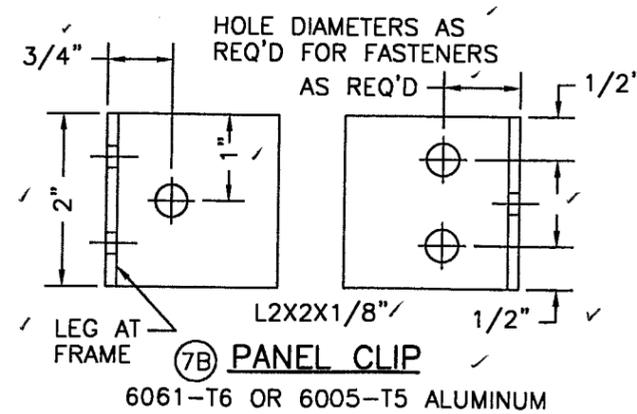
⑤ **BLADE BRACE**
6063-T6 ALUMINUM
(3.5" LONG)



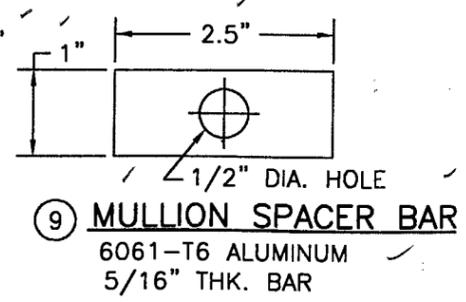
⑦A **PANEL CLIP**
6061-T6 ALUMINUM



⑥ **CHANNEL MULLION**
6063-T6 ALUMINUM



⑦B **PANEL CLIP**
6061-T6 OR 6005-T5 ALUMINUM



⑨ **MULLION SPACER BAR**
6061-T6 ALUMINUM
5/16" THK. BAR

BILL OF MATERIALS		
ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	SIDE JAMB	6063-T6 ALUMINUM
2	MAIN BLADE	6063-T6 ALUMINUM
3	TOP BLADE	6063-T6 ALUMINUM
4	SILL	6063-T6 ALUMINUM
5	BLADE BRACE	6063-T6 ALUMINUM
6	CHANNEL MULLION	6063-T6 ALUMINUM
7A	L2X2X1/8 PANEL CLIP	6061-T6 ALUMINUM; USED WITH WOOD & METAL FRAMED OPENINGS
7B	L2X2X1/8 PANEL CLIP	6061-T6 ALUMINUM; USED WITH STEEL & BLOCK/CONC. OPENINGS
8A	L3X3X3/16 MULLION END CLIP	6061-T6 ALUMINUM; USED WITH WOOD & METAL FRAMED HEAD SILL
8B	L3X3X3/16 MULLION END CLIP	6061-T6 ALUMINUM; USED WITH STEEL & CONCRETE HEAD/SILL
9	MULLION SPACER BAR	6061-T6 ALUMINUM; 2 BETWEEN MULLION MEMBERS AT EA. BOLT
10	4X2X1/8" TUBE MULLION/BAR	6061-T6 OR 6005-T5 ALUMINUM
11	5X2X1/8" TUBE MULLION/BAR	6061-T6 OR 6005-T5 ALUMINUM
12	6X2X1/8" TUBE MULLION/BAR	6061-T6 OR 6005-T5 ALUMINUM
13	NO. 14 TEK SCREWS BY HILTI	2 PER PANEL CLIP INTO FRAME (MIN. 1" LONG)
14	3/8" THRU-BOLT/THREADED ROD	GALV. A307 OR S.S.; 2 PER MULLION/REINFORCEMENT BAR END
15	3/8" SPACER BOLT/THREADED ROD	GALV. A307 OR S.S.; 1 @ 24" FROM ENDS & MAX. 24" O.C.

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE _____
BY _____
PRODUCT SAFETY DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0215.03

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 01/18/01
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE 653XPDC 6" DRAINABLE BLADE LOUVER	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 800 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903	MANUFACTURER INDUSTRIAL LOUVERS, INC. 511 SOUTH 7TH STREET DELANO, MN 55328 763-972-2981
CERTIFICATION MAY 11 2001	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1014	REV.
SHEET NO. 5	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

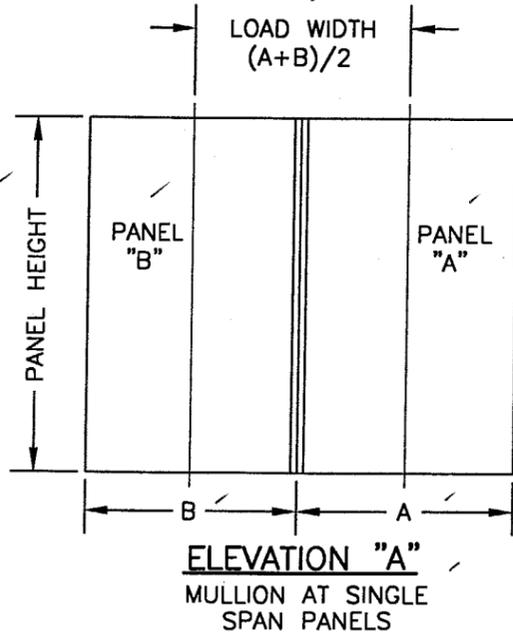
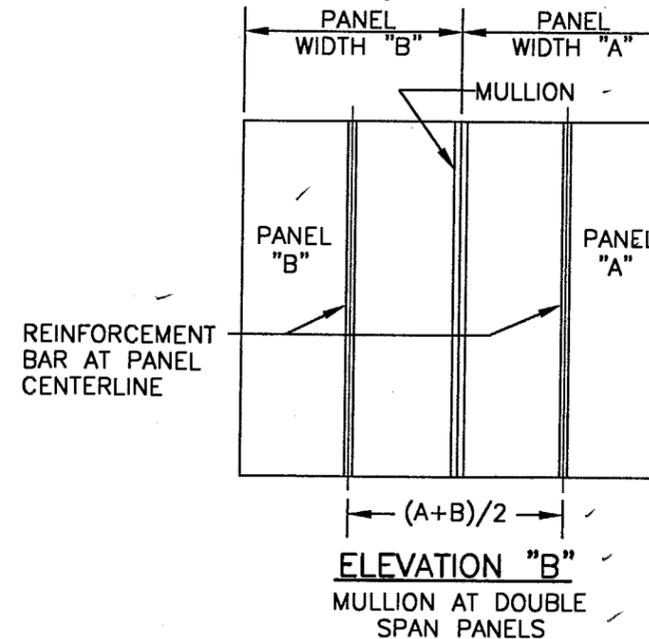


TABLE 4.0
LOUVER PANEL SIZE & PRESSURE TABLE
(APPLICABLE FOR SINGLE SPAN LOUVER PANELS)

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"

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 01/18/01
DATE	BY
NO.	REVISION DESCRIPTION
DRAWING TITLE 653XPDC 6" DRAINABLE BLADE LOUVER	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 600 SANDTREE DRIVE, SUITE 203B PALM BEACH GARDENS, FL 33403 PHONE: 561-775-4902 FAX: 561-775-4903	
MANUFACTURER INDUSTRIAL LOUVERS, INC. 511 SOUTH 7TH STREET DELANO, MN 55328 763-972-2981	
CERTIFICATION MAY 11 2001	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1014	REV.
SHEET NO. 6	OF 7

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE _____
BY _____
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 01-0215.03

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	150.0	150.0	150.0
84	36	150.0	150.0	150.0
	48	150.0	150.0	150.0
	60	150.0	150.0	150.0
	72	136.4	150.0	150.0
96	36	150.0	150.0	150.0
	48	150.0	150.0	150.0
	60	125.3	150.0	150.0
	72	104.4	146.1	150.0
108	36	150.0	150.0	150.0
	48	123.8	150.0	150.0
	60	99.0	138.6	150.0
	72	82.5	115.5	142.2
120	36	133.7	150.0	150.0
	48	100.3	140.3	150.0
	60	80.2	112.2	148.7
	72	66.8	93.5	123.9

LOAD TABLE INSTRUCTIONS

SINGLE PANELS

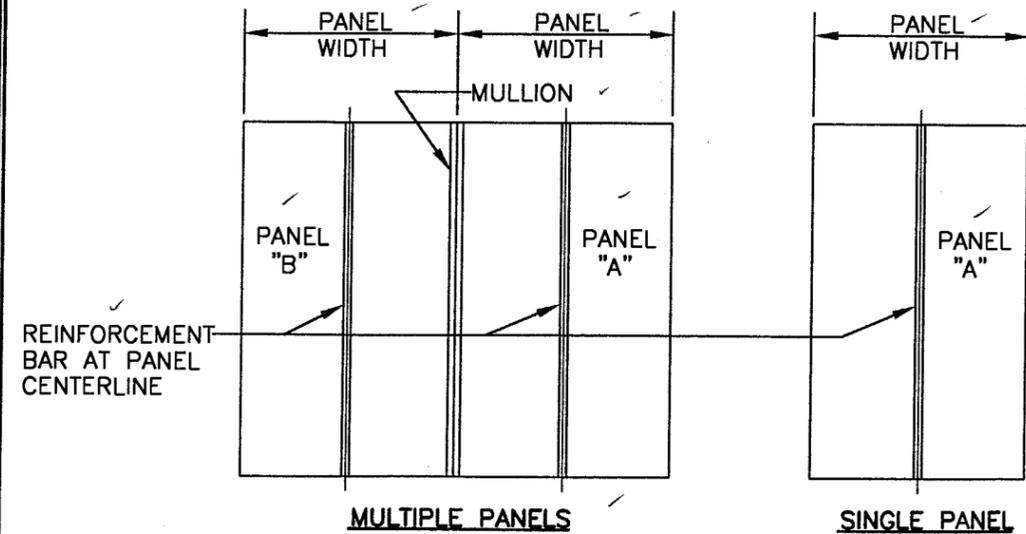
- GO TO "LOUVER PANEL SIZE & PRESSURE TABLE" ON SHEET 6 AND CHECK THE ALLOWABLE PRESSURE FOR THE PANEL IN SINGLE SPAN. IF THE ALLOWABLE PRESSURE IS GREATER THAN OR EQUAL TO THE REQUIRED PRESSURE, YOU ARE DONE. IF THE ALLOWABLE PRESSURE IS LESS THAN THE REQUIRED PRESSURE, CONTINUE TO NO. 2 BELOW FOR CHOOSING 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.



ELEVATION "C"
REINFORCEMENT BAR
(DOUBLE SPAN PANELS)

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

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CERTIFICATION MAY 11 2001	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE DATE BY PRODUCT CONTROL DIVISION BUILDING CODE COMPLIANCE OFFICE ACCEPTANCE NO. 01-0215.03	DRAWING NO. 1014 REV. SHEET NO. 7 OF 7