



**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)**

**Arrow United Industries.  
314 Riverside Drive  
Wyalusing PA 18853**

**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: 6" Aluminum Louvers System Model No. EA-32**

**APPROVAL DOCUMENT:** Drawing No. 35972-6, titled "EA-32 Test Louver Architectural & Non-Architectural Louver Elevations & Notes" dated 06/16/00 with revision "A", dated 08/23/05, prepared by Arrow United Industries, 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.

**INSTALLATION:** This louver is to be installed in a location where the room behind the louver is designed to drain water penetrating the room and the room will house water resistant equipment, components, supplies, etc.

**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 revises NOA # 03-0611.01**, and consists of this page 1 and evidence page E1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**



*J. Gascon*  
8/23/06

**NOA No: 05-1021.03  
Expiration Date: July 27, 2008  
Approval Date: September 14, 2006  
Page 1**

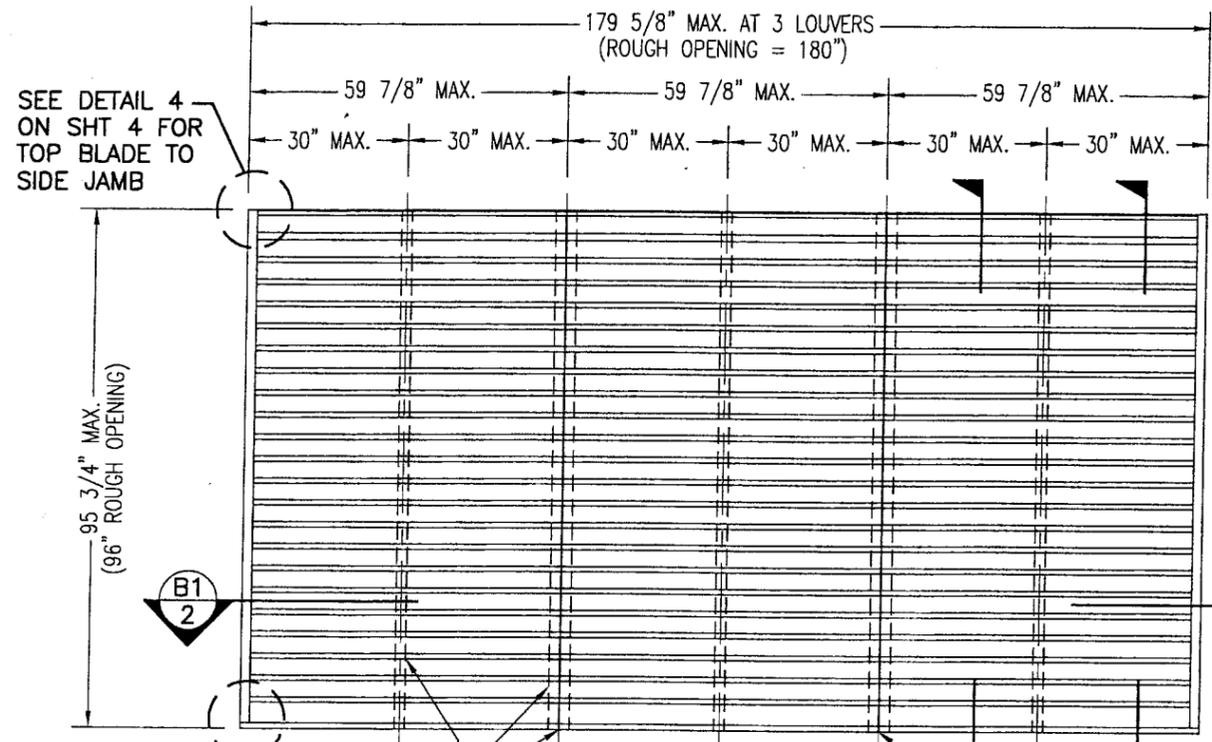
Arrow United Industries.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. DRAWINGS.**
1. Drawing No. **35972-6**, titled "EA-32 Test Louver Architectural & Non-Architectural Louver Elevations & Notes" dated 06/16/00 with revision "A", dated 08/23/05, prepared by Arrow United Industries, signed and sealed by W. W. Schaefer P.E.
- B. TESTS.**
1. Test report on Large Missile Impact Test, Cyclic Wind Pressure Test and Uniform Static Air Pressure Test of "AUI LE-32 Arch. & Non-Arch Fixed Louver", prepared by Hurricane Test Laboratory, Inc., report No. 0198-0515-99, dated 05/25/99 to 07/12/99, signed and sealed by V. J. Abraham, PE
  2. **"Submitted under NOA No. 03-0611.01"**
- C. CALCULATIONS.**
1. Allowable Load Calculations, dated 11/10/99, pages 1 to 3 of 3, prepared by W. W. Schaefer Engineering & Consulting, PA., signed and sealed by W. W. Schaefer. PE.
  2. Allowable Load Calculations, dated 04/14/00, pages 1 to 6 of 6, prepared by W. W. Schaefer Engineering & Consulting, PA signed and sealed by W. W. Schaefer. PE  
**"Submitted under NOA No. 03-0611.01"**
- D. QUALITY ASSURANCE**
1. Miami Dade Building Code Compliance Office (BCCO).
- E. MATERIAL CERTIFICATIONS.**
1. Tensile Test report on 6 inch louver, prepared by Q. C. Metallurgical, Inc., No. 9LM-2586, dated 12/27/99, signed and sealed by F. Grate PE.  
**"Submitted under NOA No. 03-0611.01"**
- F. STATEMENTS**
- "Submitted under NOA No. 03-0611.01"**
1. Test compliance letter issued by Hurricane Test Laboratory, Inc. on 12/08/99, signed and sealed by V. J. Abraham, PE.
  2. Code compliance letter issued by W. W. Schaefer Engineering & Consulting, PA. On 08/23/05, signed and sealed by W. W. Schaefer, PE., stating that the product is in compliance with FBC 2004.
  3. No financial interest letter issued by 11/15/99, signed and sealed by W. W. Schaefer, PE.
  4. No change letter issued by Arrow United Industries on 06/06/03 and signed by V. Kreglewicz



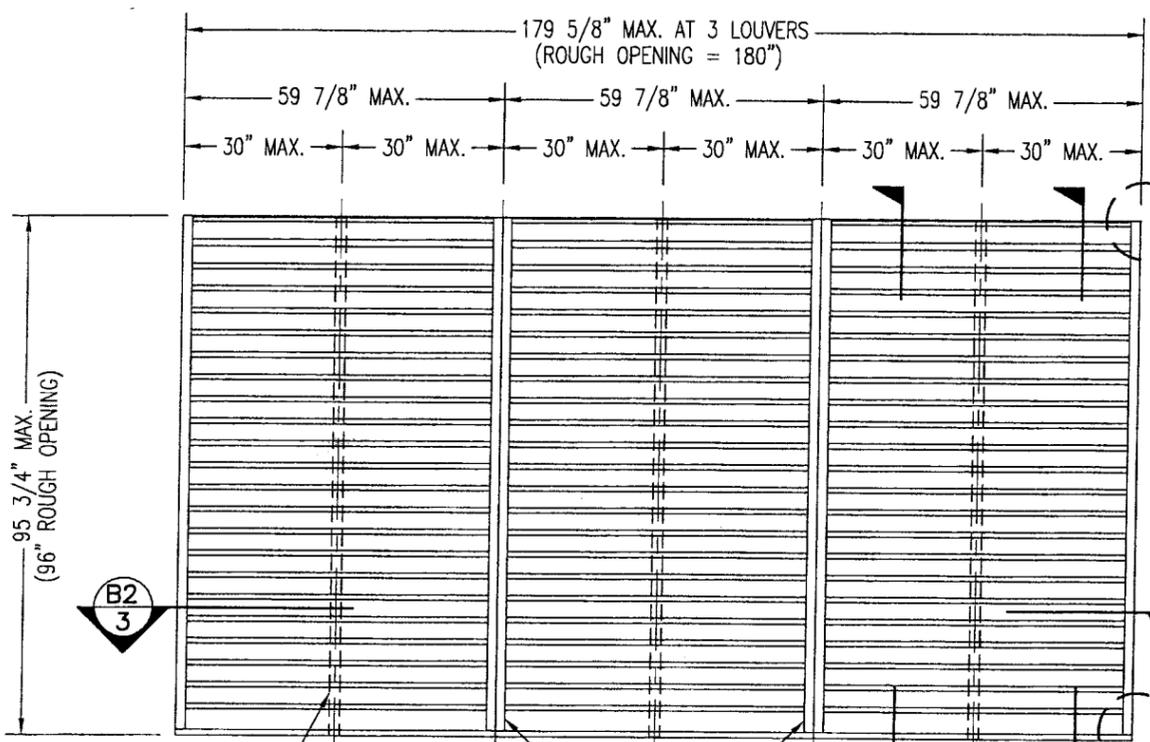
Jaime D. Gascon, P.E.  
Chief, Product Control Division  
NOA No: 05-1021.03  
Expiration Date: July 27, 2008  
Approval Date: September 14, 2006



**EXTERIOR ELEVATION  
ARCHITECTURAL 6" LOUVER**

SCALE: 3/8"=1'-0"

NOTE: THIS LOUVER SYSTEM MAY CONSIST OF AN UNLIMITED NUMBER OF SECTIONS PROVIDING EACH SECTION DOES NOT EXCEED 59 7/8" X 95 3/4" IN SIZE.



**EXTERIOR ELEVATION  
NON-ARCHITECTURAL 6" LOUVER**

SCALE: 3/8"=1'-0"

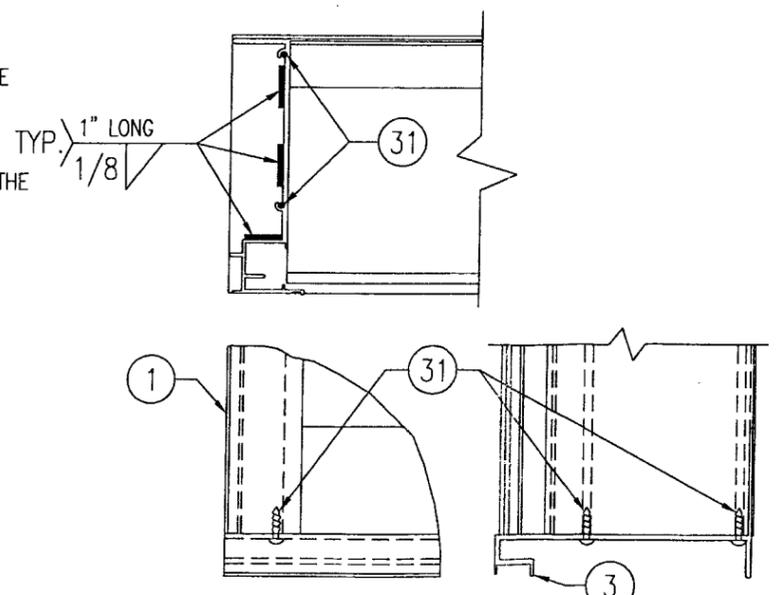
NOTE: THIS LOUVER SYSTEM MAY CONSIST OF AN UNLIMITED NUMBER OF SECTIONS PROVIDING EACH SECTION DOES NOT EXCEED 59 7/8" X 95 3/4" IN SIZE.

MAX. ALLOWABLE DESIGN WIND PRESSURE	
POSITIVE	NEGATIVE
150 PSF	150 PSF

NOTE: SEE LOAD TABLE ON SHEET 7 FOR VARIATIONS OF PRESSURES WITH RESPECT TO PANEL WIDTH & CLIP SPACING.

**GENERAL NOTES:**

1. MAXIMUM ALLOWABLE INDIVIDUAL PANEL SIZE = 59 7/8" X 95 3/4"
2. MAXIMUM ASSEMBLY SIZE = UNLIMITED WIDTH, UP TO 95 3/4" HEIGHT.
3. ASSEMBLIES/SECTIONS MAY BE STACKED VERTICALLY PROVIDING A STRUCTURAL SUPPORT IS DESIGNED AND INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER ASSEMBLY.
4. MAXIMUM UNSUPPORTED BLADE LENGTH SHALL NOT EXCEED 30".
5. ALL FASTENERS SHALL BE PLATED STEEL OR 304 STAINLESS STEEL.
6. SEPARATION OF DISSIMILAR MATERIALS MUST BE MAINTAINED PER SECTION 2003.8.4 OF THE 2004 FLORIDA BUILDING CODE (FBC).
7. APPROVED TYPES OF OPENINGS: 3000 PSI CONCRETE/MASONRY, WOOD OR STEEL. SEE SHEETS 4 & 5 FOR ANCHORING DETAILS.
8. THESE LOUVER SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE LOAD TABLE ON SHEET 7.
9. THIS SYSTEM HAS NOT BEEN TESTED FOR WATER INFILTRATION RESISTANCE AND IS NOT A WATER RESISTANT SYSTEM.
10. BUCKING, OPENINGS & BUCKING FASTENERS MUST BE DESIGNED & INSTALLED TO WITHSTAND WIND LOADS AS DETERMINED FOR EACH APPLICATION.
11. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THESE DRAWINGS.
12. THE DETAILS & SPECIFICATIONS HERE-IN REPRESENT THE PRODUCTS PROPOSED FOR IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH FBC PROTOCOLS TAS-201, 202 & 203 FOR BOTH IMPACT & NON-IMPACT LOUVERS.
13. THESE LOUVER SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICAN ZONES (HVHZ).
14. THIS PRODUCT HAS BEEN TESTED IN ACCORDANCE WITH FBC PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT, STRUCTURAL & CYCLIC TESTING.

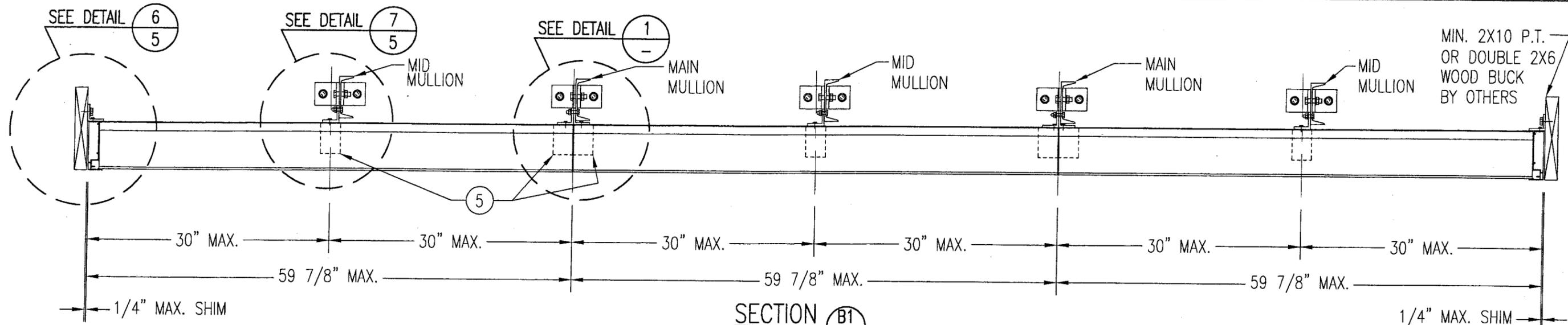


**SILL CORNER DETAIL**

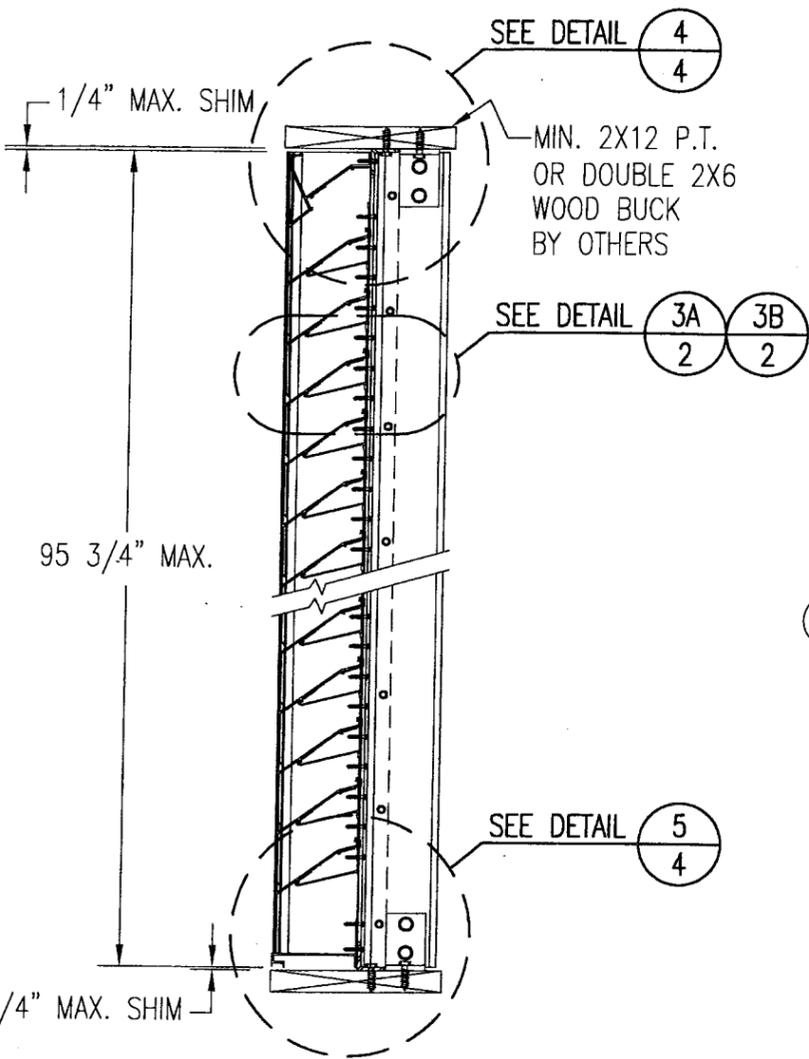
**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No. 05-1021.03  
Expiration Date 07/22/08  
By: [Signature]  
Miami-Beach Product Control Division

AUG 23 2005  
WARREN W. SCHAEFER, P.E.  
STRUCTURAL CONSULTING ENGINEER  
P.E. No. 44135  
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.  
STRUCTURAL CONSULTING ENGINEERS  
600 SANDTREE DRIVE, SUITE 203B  
PALM BEACH GARDENS, FL 33403  
PHONE: 561-775-4902

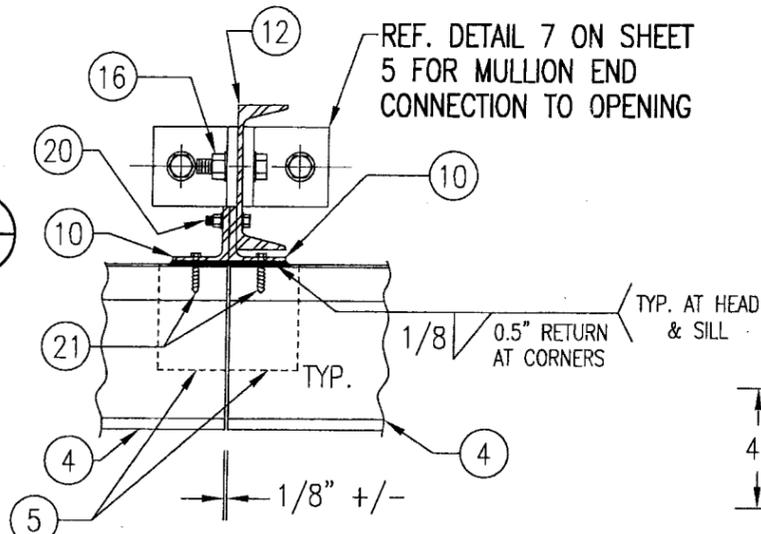
A1	UPDATE GENERAL NOTES TO 2004 FBC COMPLIANT	08/23/05	WWS
REVISION		DATE	DRN/CK
<b>ARROW UNITED INDUSTRIES</b> A Division of Mestek, Inc.			
314 RIVERSIDE DRIVE - P.O. BOX 69 WYALUSING, PA 18853 PHONE 570-746-1888; FAX 570-746-9286			
<b>EA-32 TEST LOUVER</b> ARCHITECTURAL & NON-ARCHITECTURAL LOUVER ELEVATIONS & NOTES			
CKD.BY	APPD.BY W.W.S.	SHEET: 1 of 7	
DRN.BY W.W.S.	DWG. NO.	REV.	
DATE 06-16-00	35972-6	A	



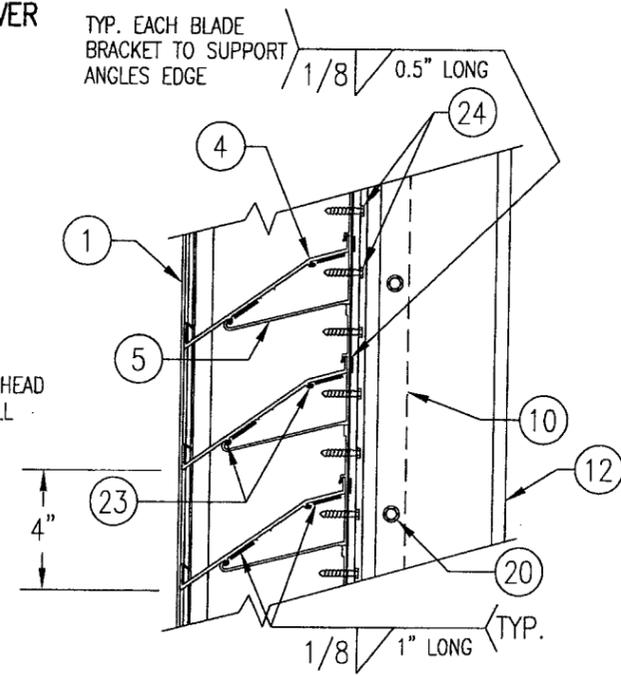
**SECTION B1**  
SCALE: 1"=1'-0"  
**ARCHITECTURAL LOUVER**



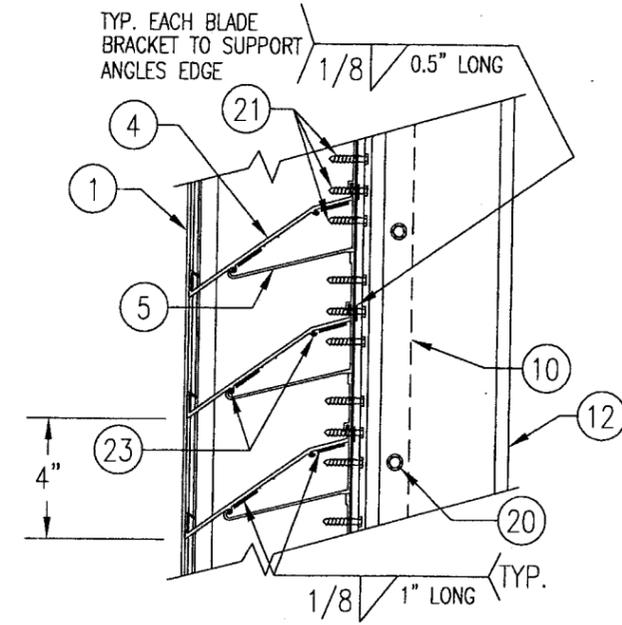
**SECTION A1**  
SCALE: 1"=1'-0"  
**ARCHITECTURAL LOUVER**



**DETAIL 1**  
SCALE: 2"=1'-0"  
**ARCHITECTURAL LOUVER**



**DETAIL 3A**  
SCALE: 2"=1'-0"  
TYP. AT ALL MID SPAN MULLIONS

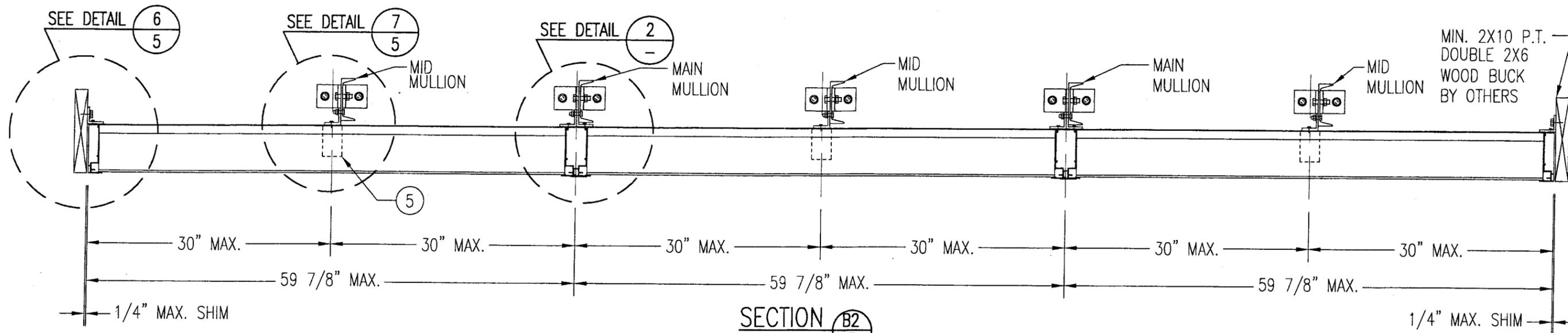


**DETAIL 3B**  
SCALE: 2"=1'-0"  
TYP. AT ALL MAIN ARCHITECTURAL MULLIONS

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No 05-1021-03  
Expiration Date 02/23/08  
By: *[Signature]*  
Miami Code Product Control  
Division

AUG 23 2005  
WARREN W. SCHAEFER, P.E.  
STRUCTURAL ENGINEER  
P.E. No. 44135  
W. W. SCHAEFER ENGINEERING  
& CONSULTING, P.A.  
STRUCTURAL CONSULTING ENGINEERS  
8895 N. MILITARY TRAIL, SUITE C-204  
PALM BEACH GARDENS, FL 33410  
PHONE: 561-775-4902

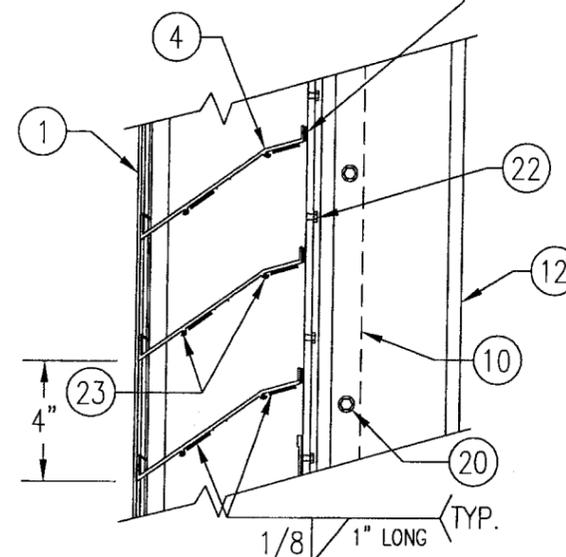
REVISION	DATE	DRN	CK	APPD
<b>ARROW UNITED INDUSTRIES</b> A Division of Mestek, Inc.				
314 RIVERSIDE DRIVE - P.O. BOX 69 WYALUSING, PA 18853 PHONE 570-746-1888; FAX 570-746-9286				
<b>EA-32 TEST LOUVER</b> <b>ARCHITECTURAL LOUVER</b> <b>SECTIONS &amp; DETAILS</b>				
CKD BY	APPD BY	W.W.S.	SHEET: 2 of 7	
DRN BY	W.W.S.	DWG. NO.	REV.	
DATE	06-16-00	35972-6	A	



**SECTION B2**  
SCALE: 1"=1'-0"  
**NON-ARCHITECTURAL LOUVER**

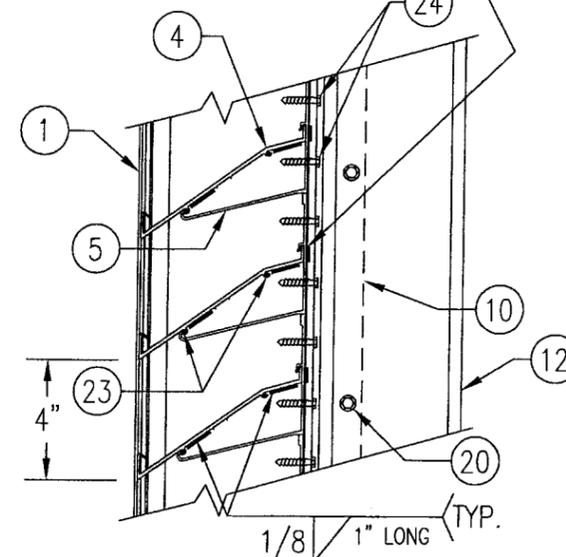
TYP. EA. BLADE TO SUPPORT ANGLES EDGE 1/8" 0.5" LONG

TYP. EACH BLADE BRACKET TO SUPPORT ANGLES EDGE 1/8" 0.5" LONG



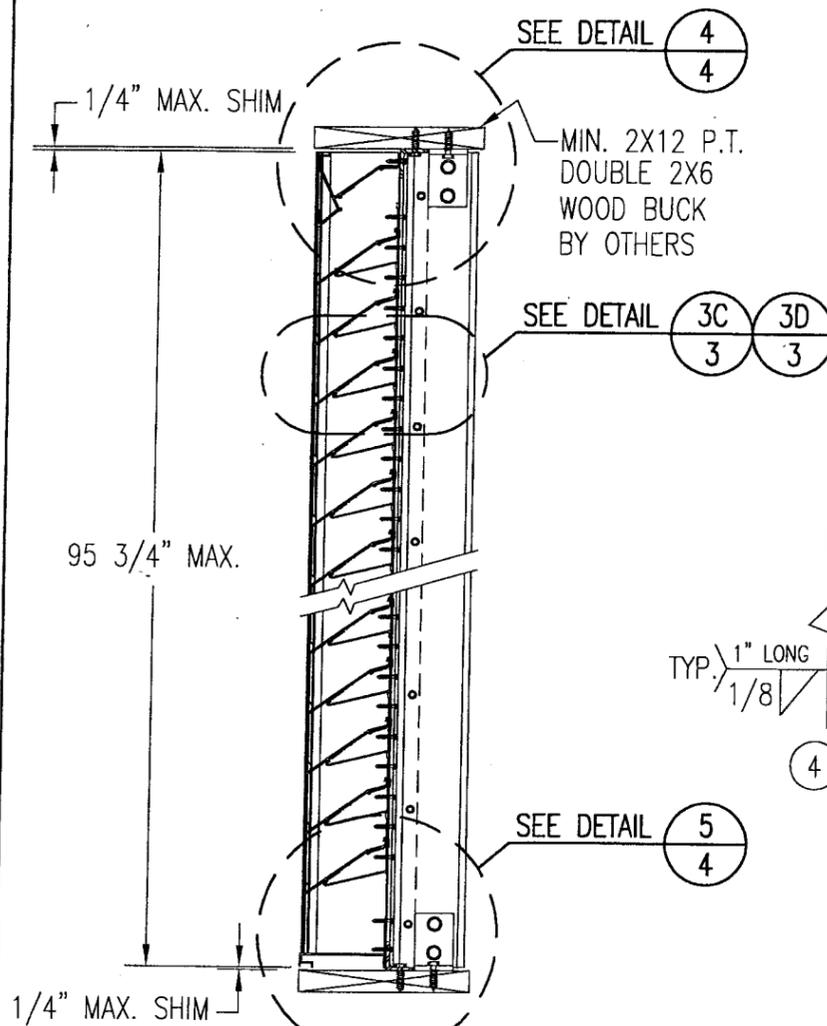
**DETAIL 3C**  
SCALE: 2"=1'-0"  
**NON-ARCHITECTURAL LOUVER**

TYP. AT ALL MAIN NON-ARCHITECTURAL MULLIONS

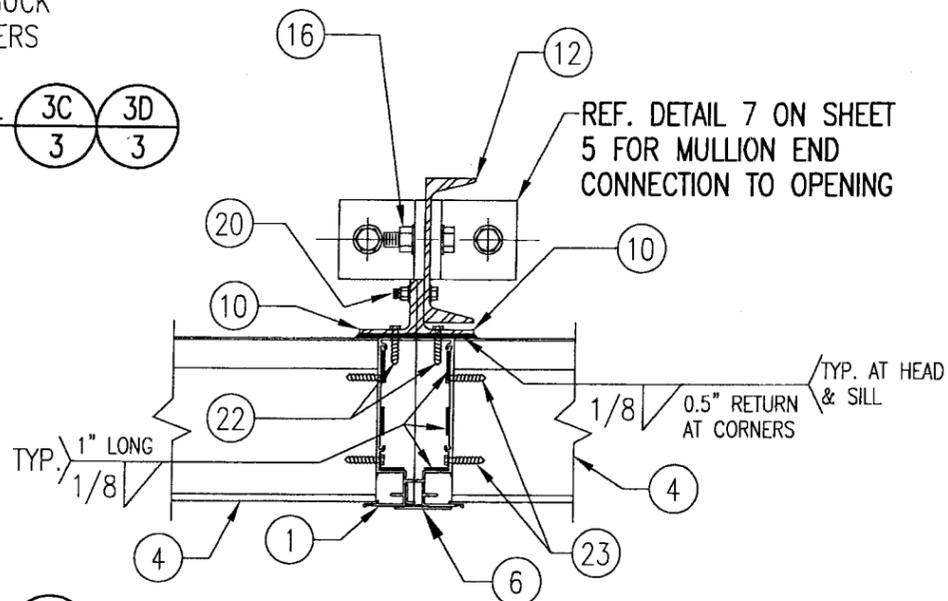


**DETAIL 3D**  
SCALE: 2"=1'-0"  
**NON-ARCHITECTURAL LOUVER**

TYP. AT ALL MID SPAN MULLIONS



**SECTION A2**  
SCALE: 1"=1'-0"  
**NON-ARCHITECTURAL LOUVER**



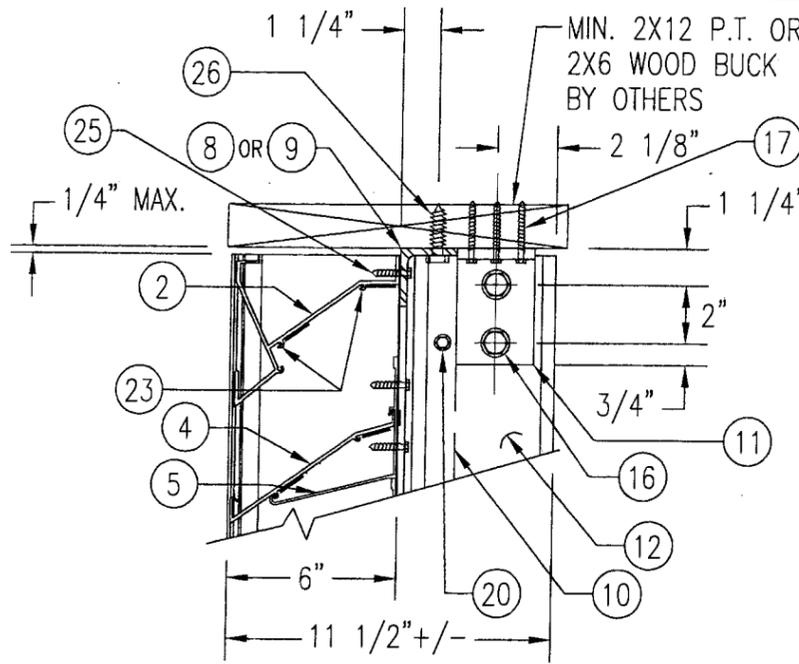
**DETAIL 2**  
SCALE: 2"=1'-0"  
**NON-ARCHITECTURAL LOUVER**

**NON-ARCHITECTURAL LOUVER**  
NOTE: SIDE JAMBS ARE ADDITIONALLY FASTENED TO THE SILL WITH 2 NO. 8 X 3/4" SMS THROUGH SILL & INTO JAMB SPLINES.

**PRODUCT REVISED**  
as complying with the Florida Building Code  
Acceptance No. 05-1021.03  
Expiration Date 02/23/08  
By: [Signature]  
Miami Dade Product Control Division

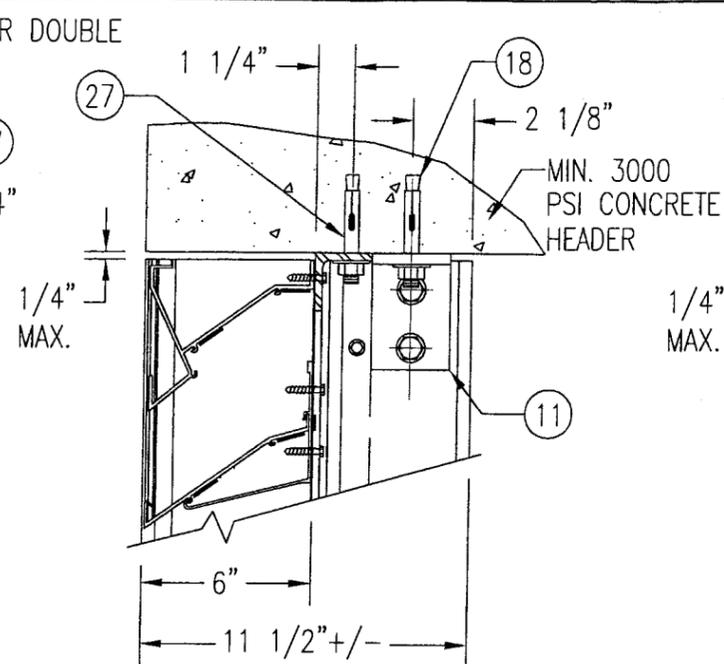
AUG 23 2005  
WARREN W. SCHAEFER, P.E.  
STRUCTURAL ENGINEER  
P.E. No. 44135  
**W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.**  
STRUCTURAL CONSULTING ENGINEERS  
8895 N. MILITARY TRAIL, SUITE C-204  
PALM BEACH GARDENS, FL 33410  
PHONE: 561-775-4902

REVISION	DATE	DRN	CK	APPD
<b>ARROW UNITED INDUSTRIES</b> A Division of Mestek, Inc.				
314 RIVERSIDE DRIVE - P.O. BOX 69 WYALUSING, PA 18853 PHONE 570-746-1888; FAX 570-746-9286				
<b>EA-32 TEST LOUVER</b> <b>NON-ARCHITECTURAL LOUVER</b> <b>SECTIONS &amp; DETAILS</b>				
CKD.BY	APPD.BY	W.W.S.	SHEET: 3 of 7	
DRN.BY	W.W.S.	DWG. NO.	REV.	
DATE	06-16-00	35972-6	A	



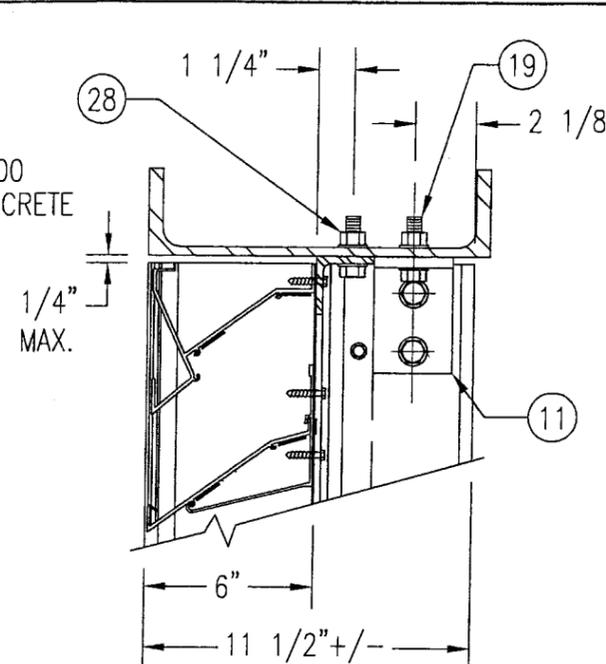
**WOOD FRAMED OPENING**

SEE "DETAIL 3A & 3B" FOR LOUVER BLADE DETAILS



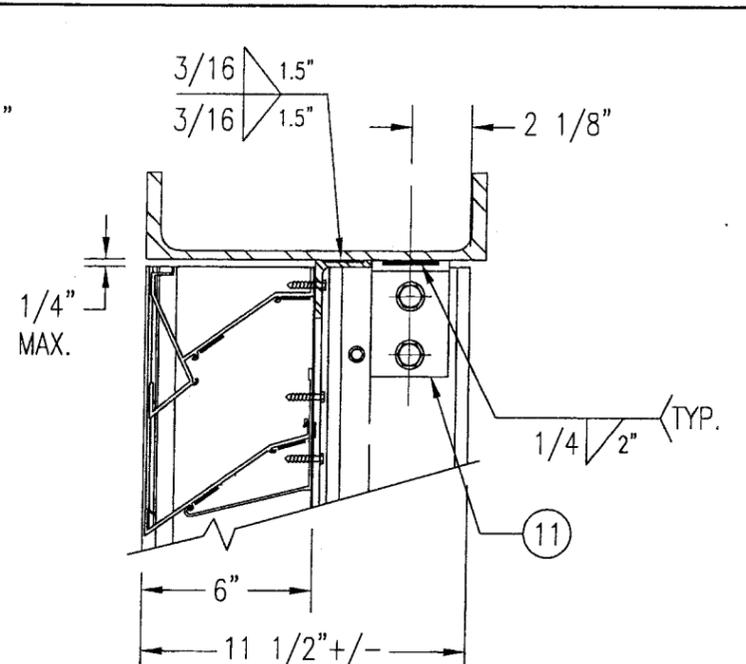
**CONCRETE HEAD**

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN  
(MASONRY ACCEPTABLE AT SIDES ONLY  
AND MAY NOT BE USED AT HEAD OR SILL)



**STEEL FRAME OPENING (BOLTED)**

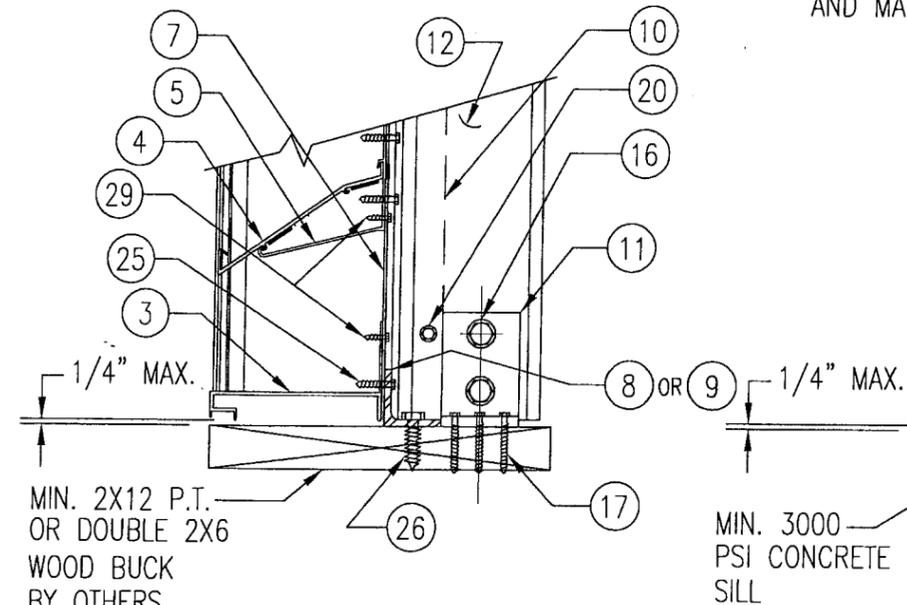
SEE "WOOD OPENING" FOR DETAIL NOT SHOWN



**STEEL FRAME OPENING (WELDED)**

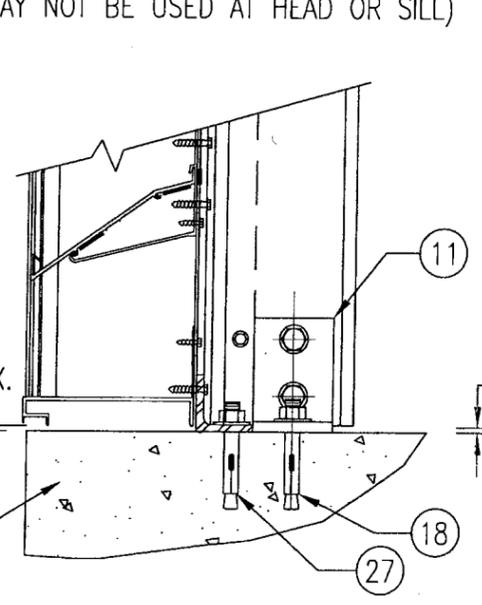
SEE "WOOD OPENING" FOR DETAIL NOT SHOWN

**DETAIL 4**  
SCALE: 2"=1'-0"



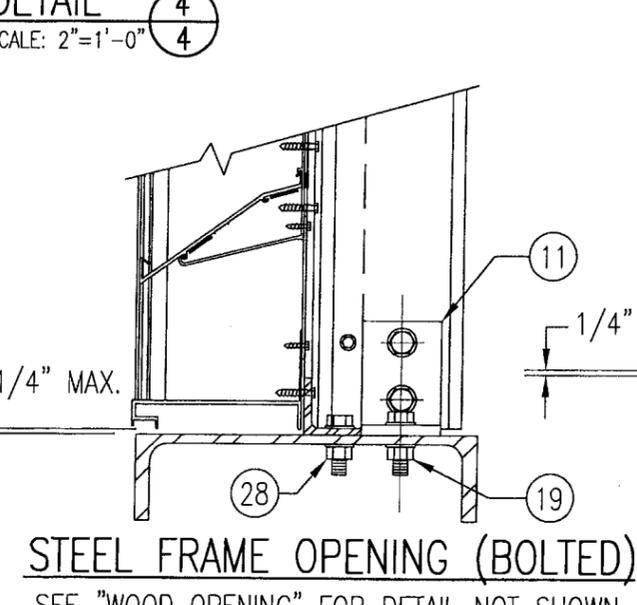
**WOOD FRAMED OPENING**

SEE "DETAIL 3A & 3B" FOR LOUVER BLADE DETAILS



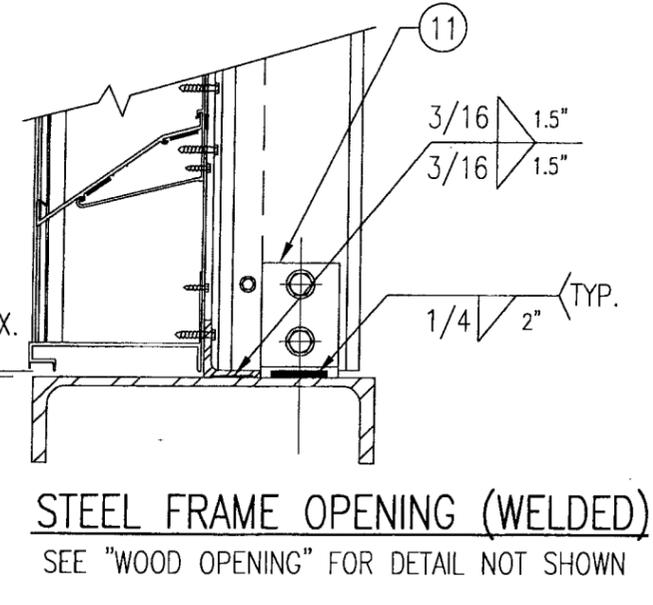
**CONCRETE SILL**

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN  
(MASONRY ACCEPTABLE AT SIDES ONLY  
AND MAY NOT BE USED AT HEAD OR SILL)



**STEEL FRAME OPENING (BOLTED)**

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN



**STEEL FRAME OPENING (WELDED)**

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN

**DETAIL 5**  
SCALE: 2"=1'-0"

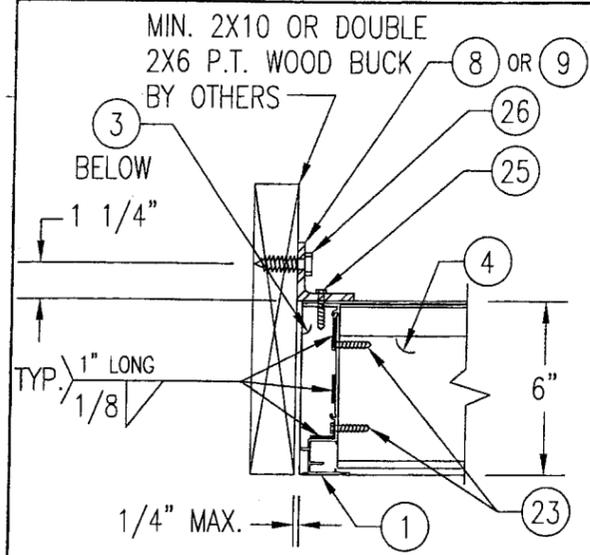
MASONRY MAY ONLY BE USED AT SIDES  
OF LOUVER PANELS & MAY NOT BE USED  
AT THE HEAD OR SILL.

**PRODUCT REVISED**  
as complying with the Florida  
Building Code  
Acceptance No. 05-1021.03  
Expiration Date 02/23/08  
By *Warren W. Schaefer*  
Miami Dade Product Control  
Division

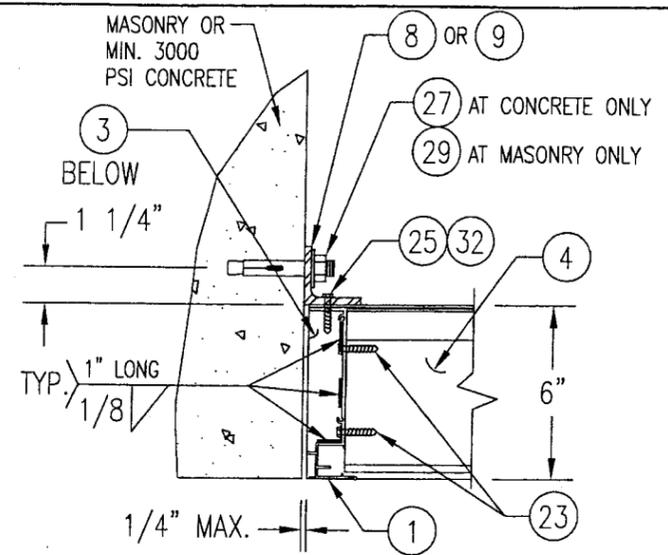
**WARREN W. SCHAEFER, P.E.**  
STRUCTURAL ENGINEER  
P.E. No. 44135  
**W. W. SCHAEFER ENGINEERING  
& CONSULTING, P.A.**  
STRUCTURAL CONSULTING ENGINEERS  
8895 N. MILITARY TRAIL, SUITE C-204  
PALM BEACH GARDENS, FL 33410  
PHONE: 561-775-4902

AUG 23 2005

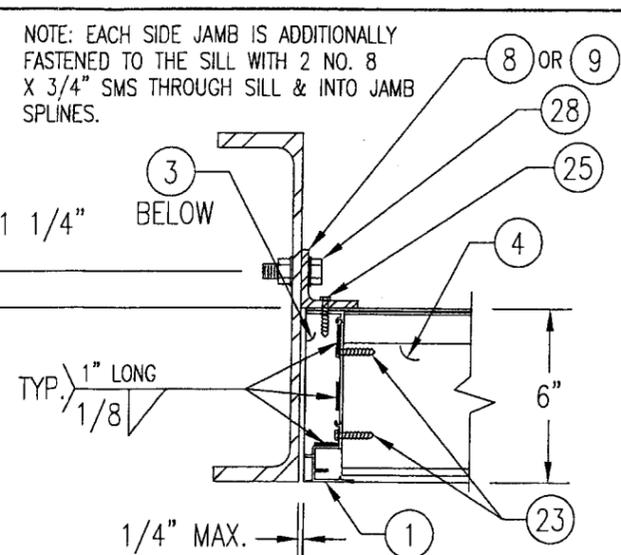
REVISION	DATE	DRN	CK	APPO
 <b>ARROW UNITED INDUSTRIES</b> A Division of Mestek, Inc. 314 RIVERSIDE DRIVE - P.O. BOX 69 WYALUSING, PA 18853 PHONE 570-746-1888; FAX 570-746-9286 <b>EA-32 TEST LOUVER</b> <b>ARCHITECTURAL &amp; NON-ARCHITECTURAL LOUVER</b> <b>DETAILS</b>				
CKD.BY	W.W.S.	APPD.BY	W.W.S.	SHEET: 4 of 7
DRN.BY	W.W.S.	DWG. NO.	35972-6	REV. A
DATE	06-16-00			



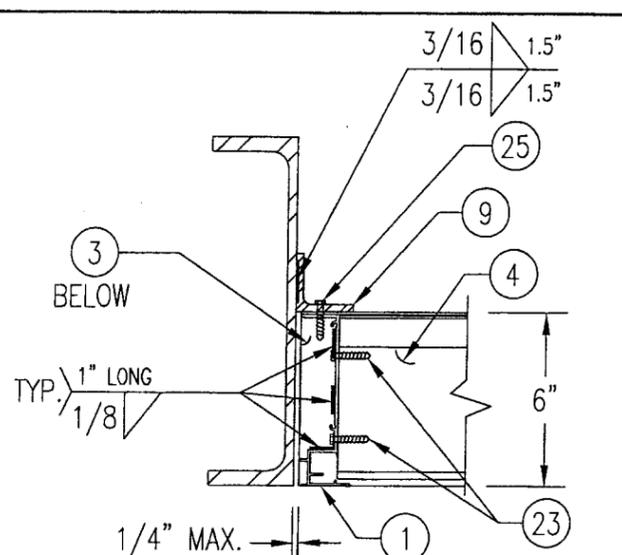
**WOOD FRAMED OPENING**



**CONCRETE/MASONRY OPENING**

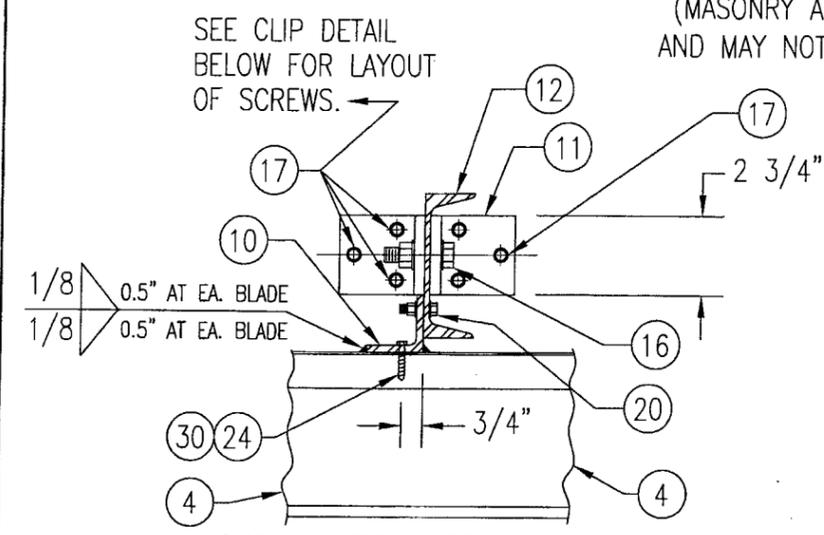


**STEEL FRAME OPENING (BOLTED)**

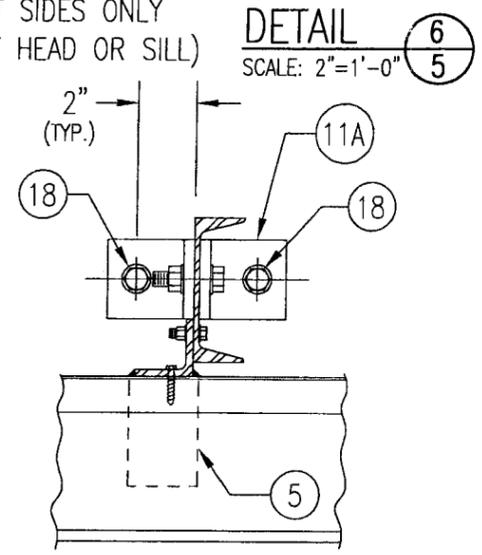


**STEEL FRAME OPENING (WELDED)**

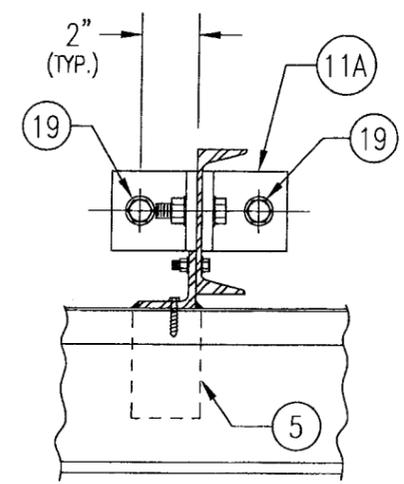
NOTE: EACH SIDE JAMB IS ADDITIONALLY FASTENED TO THE SILL WITH 2 NO. 8 X 3/4\"/>



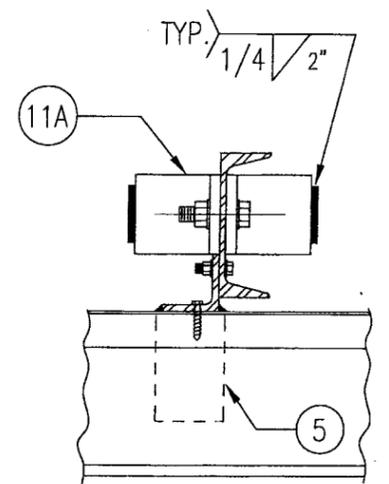
**WOOD FRAMED OPENING**



**CONCRETE HEAD & SILL**



**STEEL FRAME OPENING (BOLTED)**

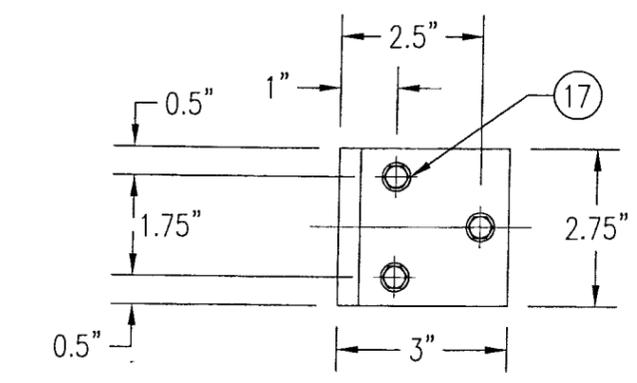


**STEEL FRAME OPENING (WELDED)**

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN (MASONRY ACCEPTABLE AT SIDES ONLY AND MAY NOT BE USED AT HEAD OR SILL)

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN



**MULLION CLIP DETAIL @ WOOD INSTALLATION**

MASONRY MAY ONLY BE USED AT SIDES OF LOUVER PANELS & MAY NOT BE USED AT THE HEAD OR SILL.

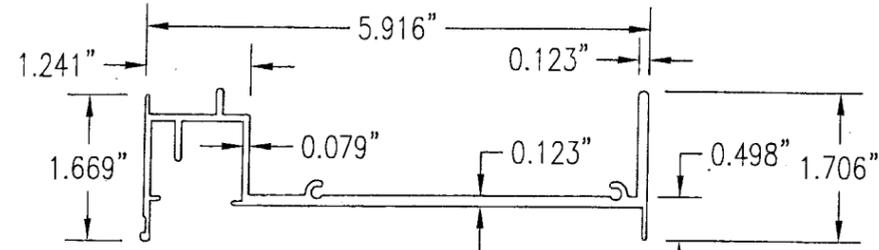
DETAIL 6/5 SCALE: 2"=1'-0"

DETAIL 7/5 SCALE: 2"=1'-0"

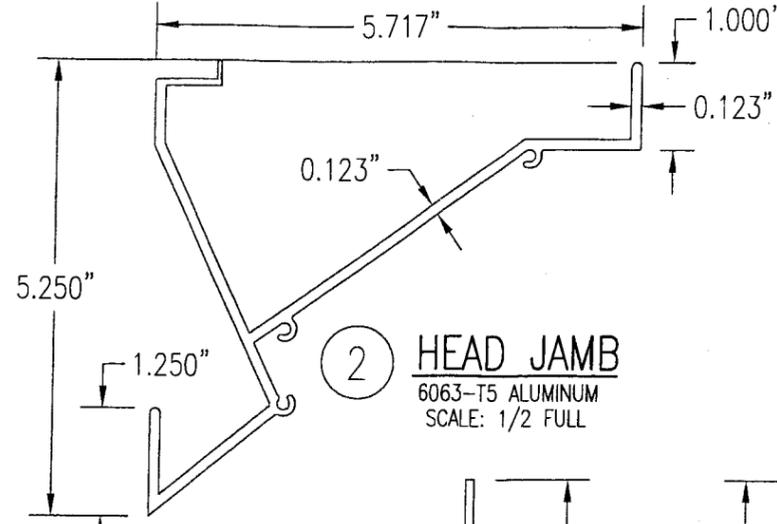
PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 05-1021-03 Expiration Date 07/23/08

WARREN W. SCHAEFER, P.E. STRUCTURAL ENGINEER P.E. No. 44135  
 W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. STRUCTURAL CONSULTING ENGINEERS 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902

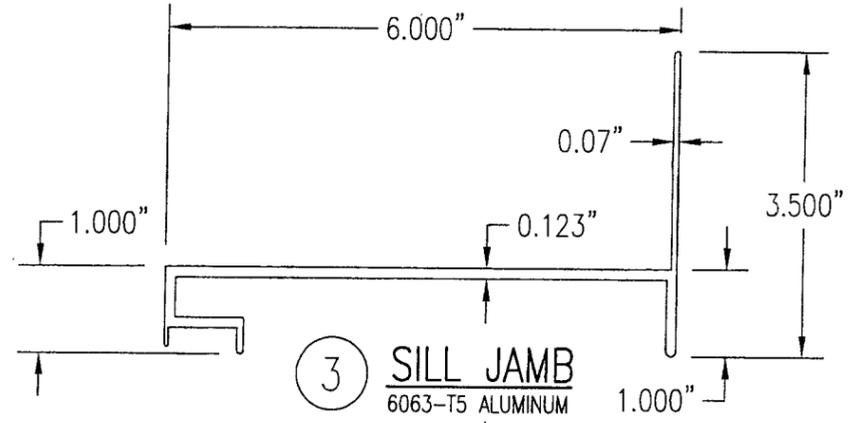
REVISION		DATE	DRN	APPD
 ARROW UNITED INDUSTRIES A Division of Mestek, Inc. 314 RIVERSIDE DRIVE - P.O. BOX 69 WYALUSING, PA 18853 PHONE 570-746-1888; FAX 570-746-9286				
<b>EA-32 TEST LOUVER</b> <b>ARCHITECTURAL &amp; NON-ARCHITECTURAL LOUVER DETAILS</b>				
CKD.BY	APPD.BY	W.W.S.	SHEET: 5 of 7	
DRN.BY	W.W.S.	DWG. NO.	REV.	
DATE	06-16-00	35972-6	A	



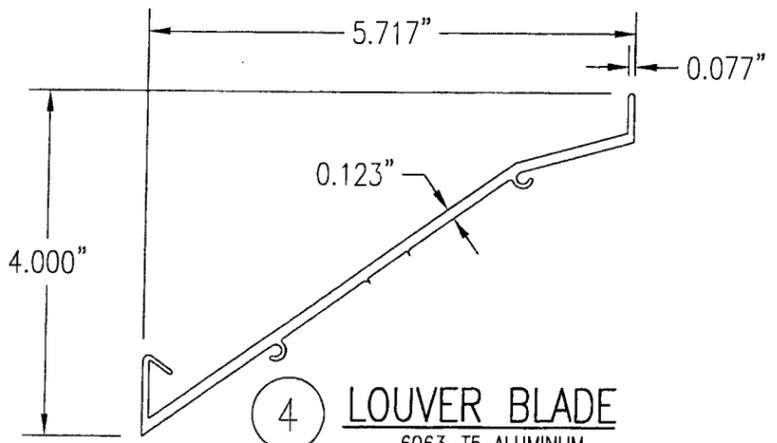
1 **JAMB EXTRUSION**  
6063-T5 ALUMINUM  
SCALE: 1/2 FULL



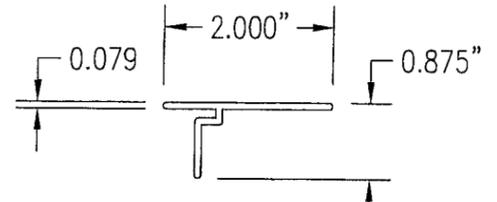
2 **HEAD JAMB**  
6063-T5 ALUMINUM  
SCALE: 1/2 FULL



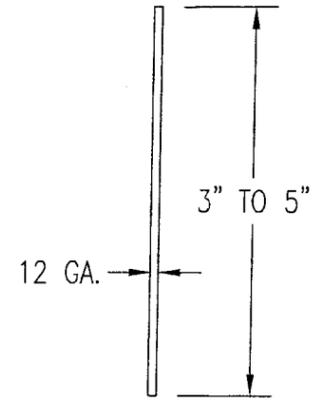
3 **SILL JAMB**  
6063-T5 ALUMINUM  
SCALE: 1/2 FULL



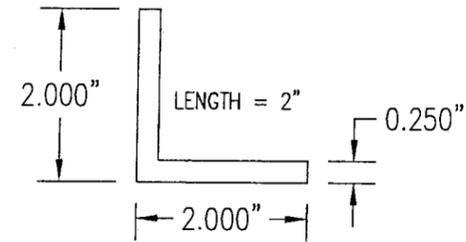
4 **LOUVER BLADE**  
6063-T5 ALUMINUM  
SCALE: 1/2 FULL



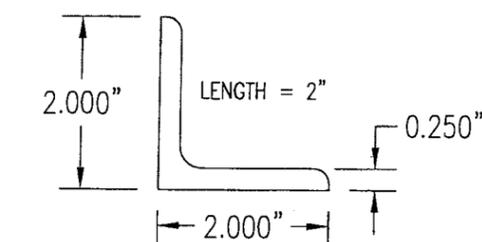
6 **MULLION CAP**  
6063-T5 ALUMINUM  
SCALE: 1/2 FULL



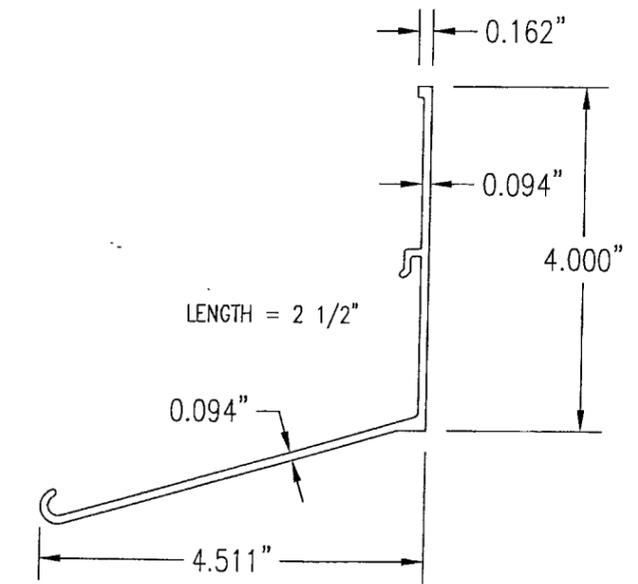
7 **SILL PLATE**  
3003/5005 ALUMINUM  
SCALE: 1/2 FULL



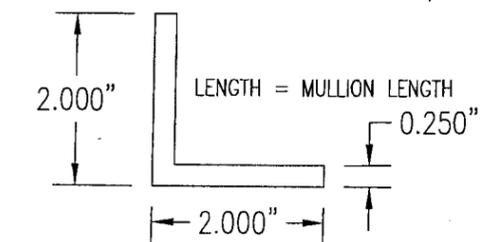
8 **CONNECTION ANGLE**  
6063-T5 ALUMINUM  
SCALE: 1/2 FULL



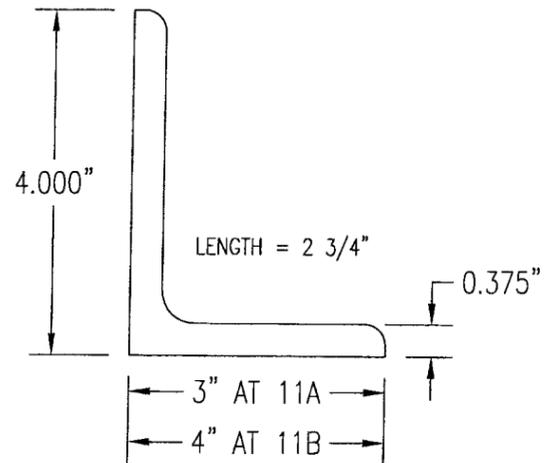
9 **CONNECTION ANGLE**  
A36 STEEL  
SCALE: 1/2 FULL



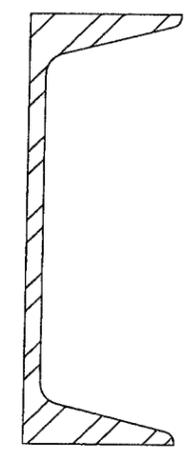
5 **BLADE SUPPORT BRACKET**  
6063-T5 ALUMINUM  
SCALE: 1/2 FULL



10 **MULLION ANGLE**  
6063-T5 ALUMINUM  
SCALE: 1/2 FULL



11A 11B **MULLION END CONNECTION ANGLE**  
A36 STEEL  
SCALE: 1/2 FULL



12 **C5X6.7 MULLION**  
A36 STEEL  
SCALE: 1/2 FULL

PRODUCT REVISED  
to comply with the Florida  
Building Code  
Amplification No. 05-1021.03  
Supplement Date 02/23/08

AUG 23 2005  
WARREN W. SCHAEFER, P.E.  
STRUCTURAL ENGINEER  
P.E. No. 44135  
W. W. SCHAEFER ENGINEERING  
& CONSULTING, P.A.  
STRUCTURAL CONSULTING ENGINEERS  
8895 N. MILITARY TRAIL, SUITE C-204  
PALM BEACH GARDENS, FL 33410  
PHONE: 561-775-4902

REVISION		DATE	DRN	APPD
<b>ARROW UNITED INDUSTRIES</b> A Division of Mestek, Inc.				
314 RIVERSIDE DRIVE - P.O. BOX 69 WYALUSING, PA 18853 PHONE 570-746-1888; FAX 570-746-9286				
<b>EA-32 TEST LOUVER</b> ARCHITECTURAL & NON-ARCHITECTURAL LOUVER PARTS & EXTRUSIONS				
CKD. BY	APPD. BY	W.W.S.	SHEET: 6 of 7	
DRN. BY	W.W.S.	DWG. NO.	REV.	
DATE	06-16-00	35972-6	A	

**ALLOWABLE WIND PRESSURE VS. JAMB CLIP SPACING AND PANEL WIDTH**

PANEL WIDTH (INCHES)	CLIP SPACING (INCHES)	ALLOWABLE PRESSURE WITH MID SPAN MULLION (PSF)	ALLOWABLE PRESSURE WITHOUT MID SPAN MULLION (PSF)
16	8	150	150
	12	150	150
	16	150	140
	20	150	105
	24	150	70
20	8	150	150
	12	150	140
	16	150	112
	20	150	84
	24	150	56
24	8	150	140
	12	150	117
	16	150	93
	20	150	70
	24	125	47
28	8	150	82
	12	150	68
	16	150	54
	20	150	41
	24	107	27
30	8	150	62
	12	150	52
	16	150	41
	20	140	31
	24	93	-
36	8	150	-
	12	150	-
	16	150	-
	20	125	-
	24	83	-
42	8	150	-
	12	150	-
	16	142	-
	20	107	-
	24	71	-
48	8	150	-
	12	150	-
	16	125	-
	20	93	-
	24	62	-
54	8	150	-
	12	138	-
	16	111	-
	20	83	-
	24	55	-
60	8	150	-
	12	125	-
	16	100	-
	20	75	-
	24	50	-

MATERIAL LIST		
NO.	DESCRIPTION	NOTES/SPECIFICATIONS
PARTS/EXTRUSIONS		
1	SIDE JAMB FRAME/MULLION	6063-T5 ALUMINUM
2	HEAD FRAME	6063-T5 ALUMINUM
3	SILL FRAME	6063-T5 ALUMINUM
4	LOUVER BLADE	6063-T5 ALUMINUM
5	BLADE SUPPORT BRACKET (2 1/2" LONG)	6063-T5 ALUMINUM
6	MULLION CAP	6063-T5 ALUMINUM; FULL LENGTH OF MULLION JAMBS
7	SILL PLATE	3003/5005 ALUMINUM; FULL LENGTH OF PANEL SILL
8	L2X2X1/4 JAMB CONNECTION ANGLE 2" LONG	6063-T5 ALUMINUM; WITHIN 4" OF JAMB ENDS & SPACED PER LOAD TABLE ON THIS SHEET
9	L2X2X1/4 OPTIONAL JAMB CONNECTION ANGLE 2" LONG	A36 STEEL; WITHIN 4" OF JAMB ENDS & SPACED PER LOAD TABLE ON THIS SHEET
10	L2X2X1/4 CONTINUOUS MULLION CONNECTION ANGLE	6063-T5 ALUMINUM; FULL LENGTH OF CHANNEL MULLION
11	L4X3X3/8 MULLION END CONNECTION ANGLE 2 3/4" LONG	A36 STEEL; 2 PER MULLION END
12	C5X6.7 MULLION	A36 STEEL; FULL HEIGHT OF PANELS
13	OPEN	
14	OPEN	
15	OPEN	
FASTENERS		
16	1/2" X 2" A307 HEX HEAD PLATED STEEL OR S/STL BOLT	WITH FLAT WASHERS, LOCK WASHER & NUT; 2 PER MULLION END
17	NO. 14 S.S. SMS SCREWS	3 PER MULLION END CLIP WITH MIN. 1 1/2" WOOD EMBED
18	5/8" X 2 1/4" SLEEVE ANCHOR WITH FLAT WASHER	USA KINGPIN ANCHOR; 1 PER CHANNEL END CONNECTION ANGLE INTO CONCRETE ONLY
19	1/2" X 2" A307 HEX HEAD PLATED STEEL OR S/STL BOLT	WITH FLAT WASHERS, LOCK WASHER & NUT; 1 PER CHANNEL END CONNECTION ANGLE INTO STEEL FRAME
20	5/16-18 UNC X 1 1/2" HEX HEAD STEEL OR S/STL BOLT	WITH FLAT WASHER, LOCK WASHER & NUT; WITHIN 4" OF MULLION ENDS & MAX. 8" O.C.
21	NO. 14 X 1 1/4" HILTI TEK SCREW	3 AT EACH LOUVER BLADE SUPPORT BRACKET AT ARCHITECTURAL MAIN MULLIONS
22	NO. 14 X 1 1/4" HILTI TEK SCREW	WITHIN 1 1/4" OF MULLION ENDS & MAX. 4" O.C. INTO FRAME
23	NO. 8 X 3/4" SMS	2 PER EACH LOUVER BLADE END THROUGH JAMB & INTO BLADE SPLINES
24	NO. 14 X 1 1/4" HILTI TEK SCREW	2 AT EACH LOUVER BLADE SUPPORT BRACKET AT ALL MIDSPAN MULLIONS
25	NO. 14 X 1 1/4" HILTI TEK SCREW	2 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE
26	1/2" X 2" LAG SCREW WITH FLAT WASHER	1 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE INTO WOOD FRAME
27	5/8" X 2 1/4" SLEEVE ANCHOR WITH FLAT WASHER	USA KINGPIN ANCHOR; 1 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE INTO CONCRETE ONLY
28	1/2" X 2" HEX HEAD A307 PLATED STEEL OR S/STL BOLT	WITH FLAT WASHERS, LOCK WASHER & NUT; 1 PER EA. JAMB CONNECTION ANGLE INTO STEEL FRAME
29	NO. 8 X 3/4" SMS	2 SCREWS WITHIN 4" OF SILL PLATE ENDS & MAX. 12" O.C. (SILL PLATE TO SILL JAMB AND FIRST LOUVER BLADE)
30	NO. 14 X 1 1/4" HILTI TEK SCREW	1 AT EACH MULLION ANGLE INTO HEAD & SILL JAMB
31	NO. 8 X 3/4" SMS SCREWS	2 PER FRAME SILL CORNER THROUGH SILL & INTO JAMB SPLINES
32	3/8" X 1 7/8" SLEEVE ANCHOR WITH FLAT WASHER	RED HEAD DYNABOLT WITH MIN. 1 1/2" BLOCK/CONCRETE EMBED (1 PER FRAME SUPPORT CLIP)

**PRESSURE TABLE NOTES:**

1. WHEN THE PANEL WIDTH IS 30" OR LESS, NO MID SPAN MULLION IS REQUIRED PROVIDING COMPLIANCE WITH THE TABLE.
2. ALL PRESSURES IN THIS TABLE ARE FOR BOTH POSITIVE & NEGATIVE WIND PRESSURE.

**PRODUCT REVISED**  
 as complying with the Florida Building Code  
 Approval No. 05-102103  
 Expiration Date 02/22/08  
 By *Warren W. Schaefer*  
 Miami-Dade Product Control Division

AUG 23 2005

**WARREN W. SCHAEFER, P.E.**  
 STRUCTURAL ENGINEER  
 P.E. No. 44135

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 PALM BEACH GARDENS, FL 33410  
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REVISION	DATE	DRN	CK	APPD

**ARROW UNITED INDUSTRIES**  
 A Division of Mestek, Inc.

314 RIVERSIDE DRIVE - P.O. BOX 69  
 WYALUSING, PA 18853  
 PHONE 570-746-1888; FAX 570-746-9286

**EA-32 TEST LOUVER**  
**ARCHITECTURAL & NON-ARCHITECTURAL LOUVER**  
**MATERIAL LIST & LOAD TABLE**

CKD BY	APPD BY	W.W.S.	SHEET: 7 of 7
DRN BY	W.W.S.	DWG. NO.	35972-6
DATE	06-16-00		REV. A