



**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)

**Marvin Windows & Doors
HWY 11 W.
Warroad, MN 56763**

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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Series "Clad Round Top HP" Aluminum Clad Wood Fixed Window

APPROVAL DOCUMENT: Drawing No. 00012671, titled "Clad Direct-Glaze Round-Top HP", sheets 1 through 9, prepared, signed and sealed by Stephen Fisher, P.E., dated 11/20/98, bearing the Miami-Dade County Product Control Renewal stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: None

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.

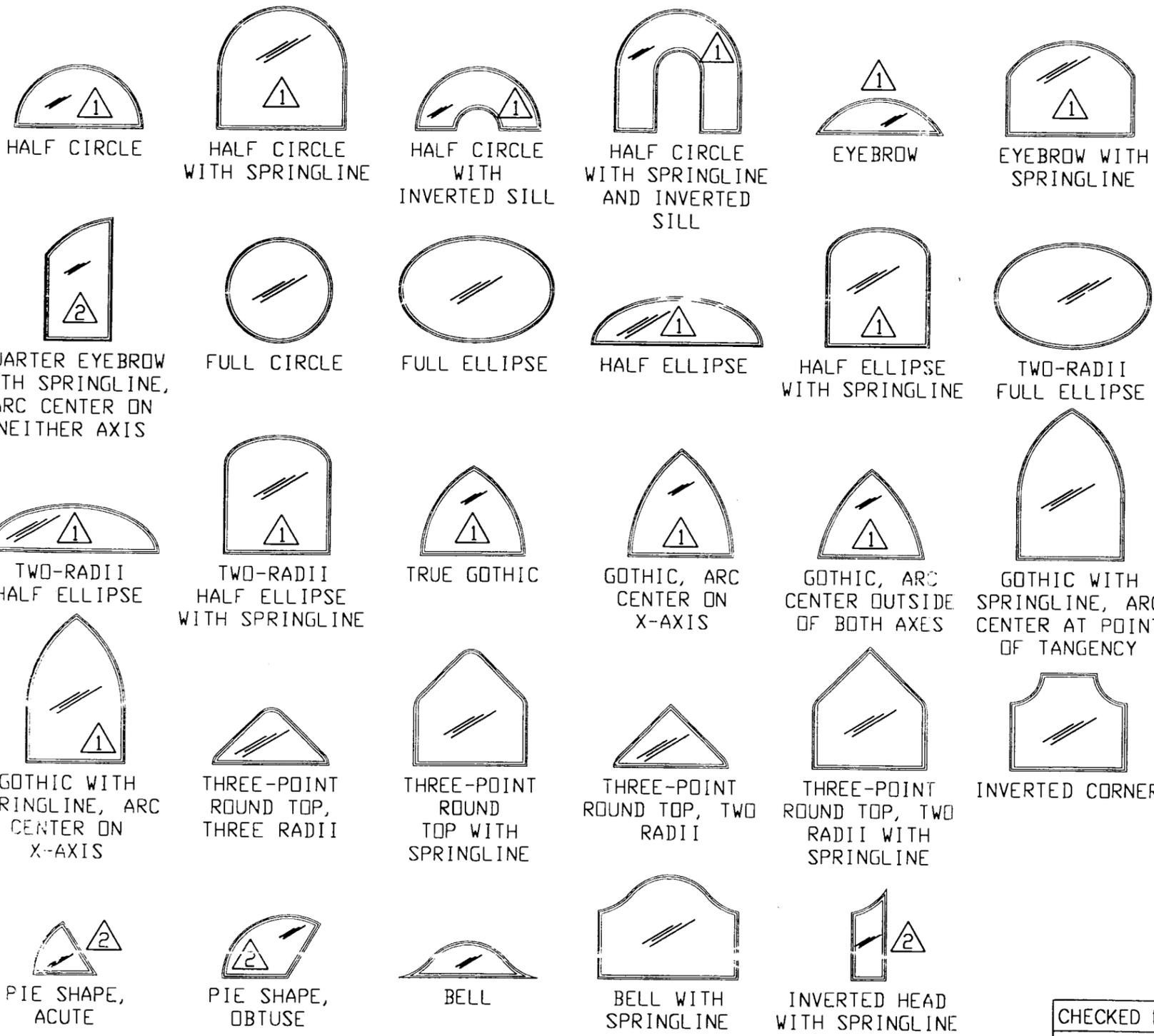
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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 # 97-0924.06 and, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Raul Rodriguez**.



**NOA No 02-0117.02
Expiration Date: October 12, 2006
Approval Date: April 7, 2002
Page 1**



- NOTES:
- ① SYMMETRIC SHAPE ALSO APPROVED FOR EITHER HALF ABOUT A VERTICAL AXIS OF SYMMETRY.
 - ② ASYMMETRIC SHAPE ALSO APPROVED FOR MIRROR IMAGE ABOUT A VERTICAL AXIS.
 - 3. MAXIMUM PROJECTED AREA: 31.8 SQ FT.
 - 4. MAXIMUM PERIMETER OF FRAME: 23.1 FT.
 - 5. REFER TO 00012671 SHEET 8 FOR ADDITIONAL SIZE LIMITATIONS.

CRT HP TESTED UNIT
TEST #ATI-15734

SHAPE	FRAME DSM (IN)	
	WIDTH	HEIGHT
HALF CIRCLE	108	54

REVIEWED BY:
Stephen D. Fisher

FLORIDA LICENSE # 47489
JOB # 9818

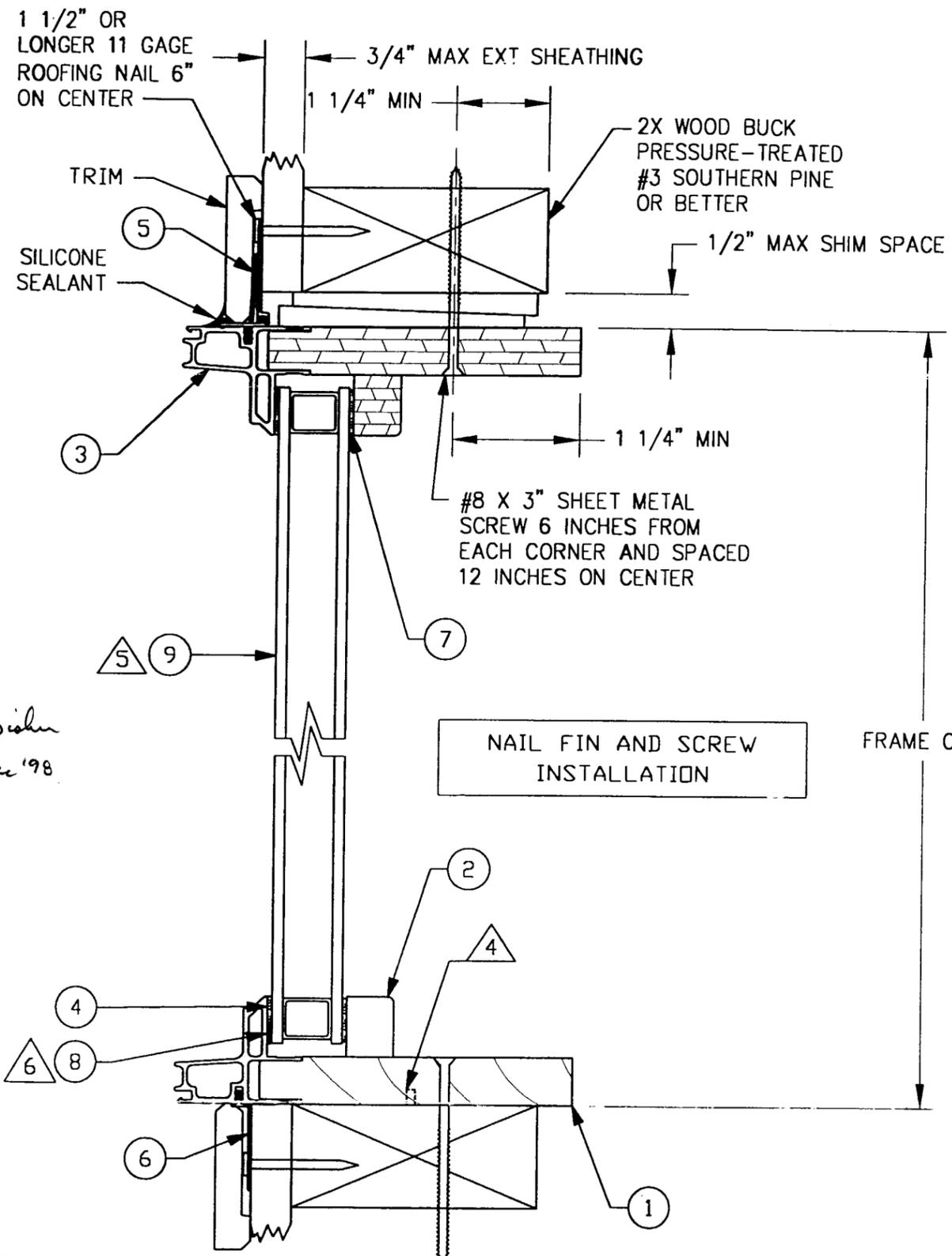
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 02-0117-02
Expiration Date April 7, 2002
By [Signature]
Miami Dade Product Control
Division

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE February 25, 1999
BY [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 97-092406

S. Fisher
7 Dec '98

CHECKED BY: STFISHER		WOOD PART DIP SPEC		MARVIN RESEARCH AND DEVELOPMENT	
APPROVED DATE: 12/01/98		<input type="checkbox"/> DIP	<input type="checkbox"/> AT MLDR.	BOX 100, WARROAD, MN 56763	
DWG CLASS: ASSY		<input type="checkbox"/> NO DIP	<input type="checkbox"/> IN PROD.	WINDOWS & DOORS (218) 386-1430 FAX 386-1913	
UNSPECIFIED TOLERANCES:		PRODUCT LINE: ROUND TOP			
DECIMALS: .XX = ±N/A .XXX = ±N/A		PRODUCT: CLAD DIRECT-GLAZE ROUND-TOP HP			
ANGLE: ±N/A		ASSEMBLY			
FAB LINEALS: N/A		DADE-COUNTY QUALIFIED SHAPES			
MATERIAL: N/A		SIZE: B	DRAWING NO: 00012671		
SCALE: N/A		DATE: 5/8/98	DRAWN BY: J HAPKA		SHEET: 1 OF 9

REV#	DESCRIPTION / REQUESTER	ECN NO	DATE	DRAFTER
1	REMOVED DRAWING REFERENCE NOTE. / M PEREZ P.E.	N/A	11/20/98	CRAIGLEV
0	SUBMITTED TO P.E. / J HAPKA	N/A	10/2/98	J HAPKA



S. Fisher
7 Dec '98

ITEM NO	REF NO	DESCRIPTION	ITEM NO	REF NO	DESCRIPTION
1	00011225	W2286 FRAME STOCK	5	00005306	V110 DRIP CAP/NAIL FIN
2	00007080	W4160 GLAZING BEAD	6	00005281	V084 NAIL FIN
3	00011209	A328 FRAME CLADDING	7	00003787	.063' X .625' GLAZING TAPE
4	00003787	.063' X .500' GLAZING TAPE	8	00012297	CSL343 BLACK SILICONE
			9	--	GLASS

NOTE:

1. SECTION SHOWN FOR SHAPE WITH HORIZONTAL SILL AND THROUGH PEAK OF CURVED HEAD JAMB.
2. WOOD INSTALLATION SHOWN.
3. REFER TO 00012671 SHEET 3 FOR OTHER APPROVED TYPES OF INSTALLATION.
4. KERF OPTIONAL.
5. SEALED INSULATING GLASS SHOWN.
6. APPLIED AS Ø.188 BEAD.

REVIEWED BY:

Stephen D. Fisher

FLORIDA LICENSE # 47489

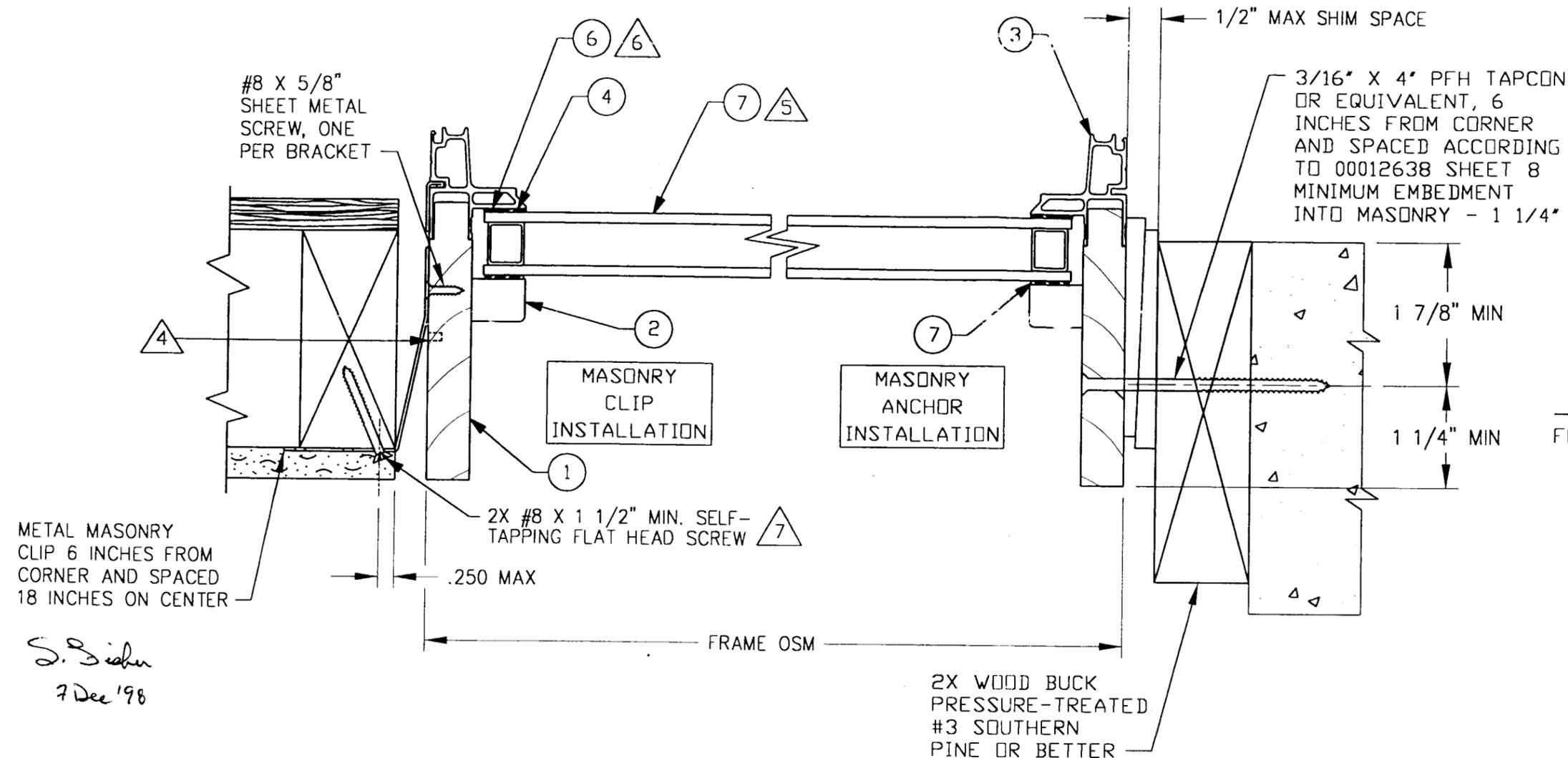
PRODUCT REVISED
as complying with the Florida
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Acceptance No. 02-0117-02
Expiration Date April 7, 2002
By *[Signature]*
Miami Dade Product Control
Division

APPROVED AS COMPLYING WITH THE
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DATE February 25 1999
BY *[Signature]*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 97-0924-06

REV#	DESCRIPTION / REQUESTER	ECN NO	DATE	DRAFTER
1	UPDATED NAIL SIZE AND NAIL FIN WITH DRIP CAP REMOVED / DARRENW ADDED SCREW PLACEMENT AND REMOVED DRAWING REFERENCE NOTE. / M PE	N/A	11/20/98	CRAIGLEV
0	SUBMITTED TO P.E. / J HAPKA	N/A	10/5/98	J HAPKA

CHECKED BY: STFISHER	WOOD PART DIP SPEC <input type="checkbox"/> DIP <input type="checkbox"/> AT MLDR. <input type="checkbox"/> NO DIP <input type="checkbox"/> IN PROD.	MARVIN RESEARCH AND DEVELOPMENT BOX 100, WARROAD, MN 56763 WINDOWS&DOORS. (218) 386-1430 FAX 386-1913
APPROVED DATE: 12/01/98	PRODUCT LINE: ROUND TOP	
DWG CLASS: ASSY	PRODUCT: CLAD DIRECT-GLAZE ROUND-TOP HP	
UNSPECIFIED TOLERANCES:	ASSEMBLY HORIZONTAL CROSS SECTION	
DECIMALS: .XX = ± N/A .XXX = ± N/A	ANGLE: ±N/A	MATERIAL: N/A
FAB LINEALS: N/A	SIZE: B	DRAWING NO: 00012671
	SCALE: 1:2	DATE: 5/8/98
		DRAWN BY: J HAPKA
		SHEET: 2 OF 9

ITEM NO	REF NO	DESCRIPTION
1	00011225	W2286 FRAME STOCK
2	00007080	W4160 GLAZING BEAD
3	00011209	A328 FRAME CLADDING
4	00003787	.063" X .500" GLAZING TAPE
5	00003787	.063" X .625" GLAZING TAPE
6	00011250	CSL343 BLACK SILICONE
7	--	GLASS



REVIEWED BY:
Stephen D. Fisher
 FLORIDA LICENSE # 47489

S. Fisher
 7 Dec 198

- NOTE:
- SECTION SHOWN THROUGH SHAPE WHERE BOTH JAMBS VERTICAL.
 - WOOD INSTALLATION SHOWN.
 - REFER TO 00012671 SHEET 2 FOR OTHER APPROVED TYPES OF INSTALLATION.
 - KERF OPTIONAL.
 - SEALED INSULATING GLASS SHOWN.
 - APPLIED AS Ø.188 BEAD.
 - ADDITIONAL .150" DIA HOLES MAY BE NEEDED TO FASTEN MASONRY ANCHOR AS SPECIFIED. ANGLE SCREWS 15-30° FROM PERPENDICULAR TO BUCK FRAMING.

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 07-0117-02
 Expiration Date April 7, 2002
 By [Signature]
 Miami Dade Product Control
 Division

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE February 25, 1999
 BY [Signature]
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 97-0924-06

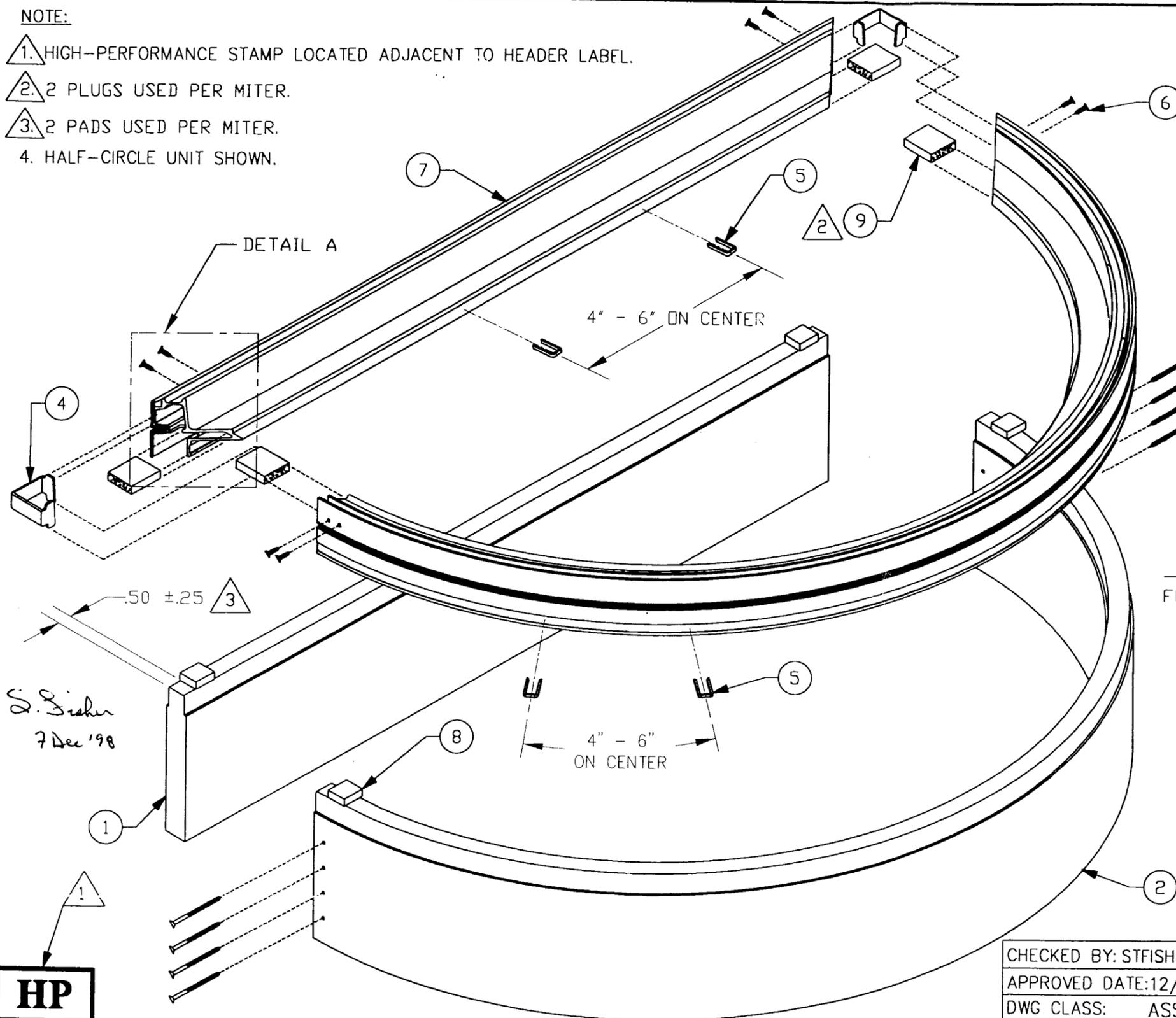
REV#	DESCRIPTION / REQUESTER	ECN NO	DATE	DRAFTER
1	ADDED MIN MASONRY EMBEDMENT, REMOVED DWG REF. NOTE, UPDATED DISCRIPTION TITLES, AND ADDED SCREW PLACEMENT / M PEREZ P.E.	N/A	11/23/98	CRAIGLEV
0	SUBMITTED TO P.E. / J HAPKA	N/A	10/2/98	J HAPKA

CHECKED BY: STFISHER	WOOD PART DIP SPEC <input type="checkbox"/> DIP <input type="checkbox"/> AT MLDR. <input type="checkbox"/> NO DIP <input type="checkbox"/> IN PROD.	RESEARCH AND DEVELOPMENT BOX 100, WARROAD, MN 56763 WINDOWS&DOORS. (218) 386-1430 FAX 386-1913
APPROVED DATE: 12/01/98	PRODUCT LINE: ROUND TOP PRODUCT: CLAD DIRECT-GLAZE ROUND-TOP HP	
DWG CLASS: ASSY	ASSEMBLY HORIZONTAL CROSS SECTION	
UNSPECIFIED TOLERANCES:	MATERIAL: N/A	DRAWING NO: 00012671
DECIMALS: .XX = ±.03 .XXX = ±.016	ANGLE: ±.5°	SCALE: 1:2
FAB LINEALS: N/A	DATE: 5/8/98	DRAWN BY: J HAPKA
		SHEET: 3 OF 9

NOTE:

- 1. HIGH-PERFORMANCE STAMP LOCATED ADJACENT TO HEADER LABEL.
- 2. 2 PLUGS USED PER MITER.
- 3. 2 PADS USED PER MITER.
- 4. HALF-CIRCLE UNIT SHOWN.

ITEM NO	REF NO	DESCRIPTION
1	00011225	W2203 FRAME STOCK
2	00011239	W2286 BENT FRAME STOCK
3	00003208	#7 X 2.000" FH SCREW
4	00010038	CORNER KEY
5	PN11820052	GSN-18 X .500 STAPLE
6	00003277	#7X.500 UCFH TEC2 SCREW
7	00011209	A328 FRAME METAL
8	00011227	FOAM SEALANT PAD
9	00011224	FOAM SEALANT PLUG
10	00011495	SM5601 SEALANT



DETAIL A

4" - 6" ON CENTER

4" - 6" ON CENTER

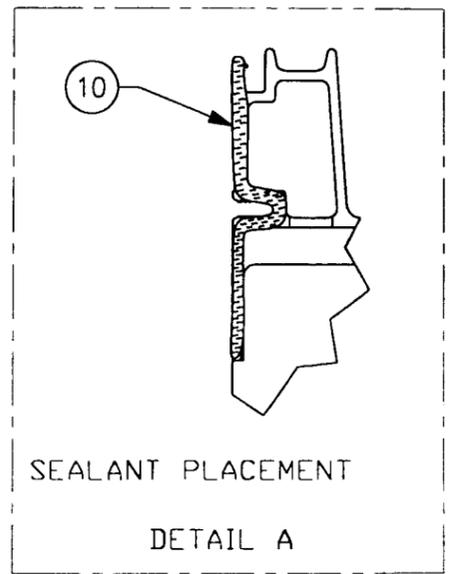
50 ±.25

S. Fisher
7 Dec '98

HP

REVIEWED BY:
Stephen D. Fisher

FLORIDA LICENSE # 47489



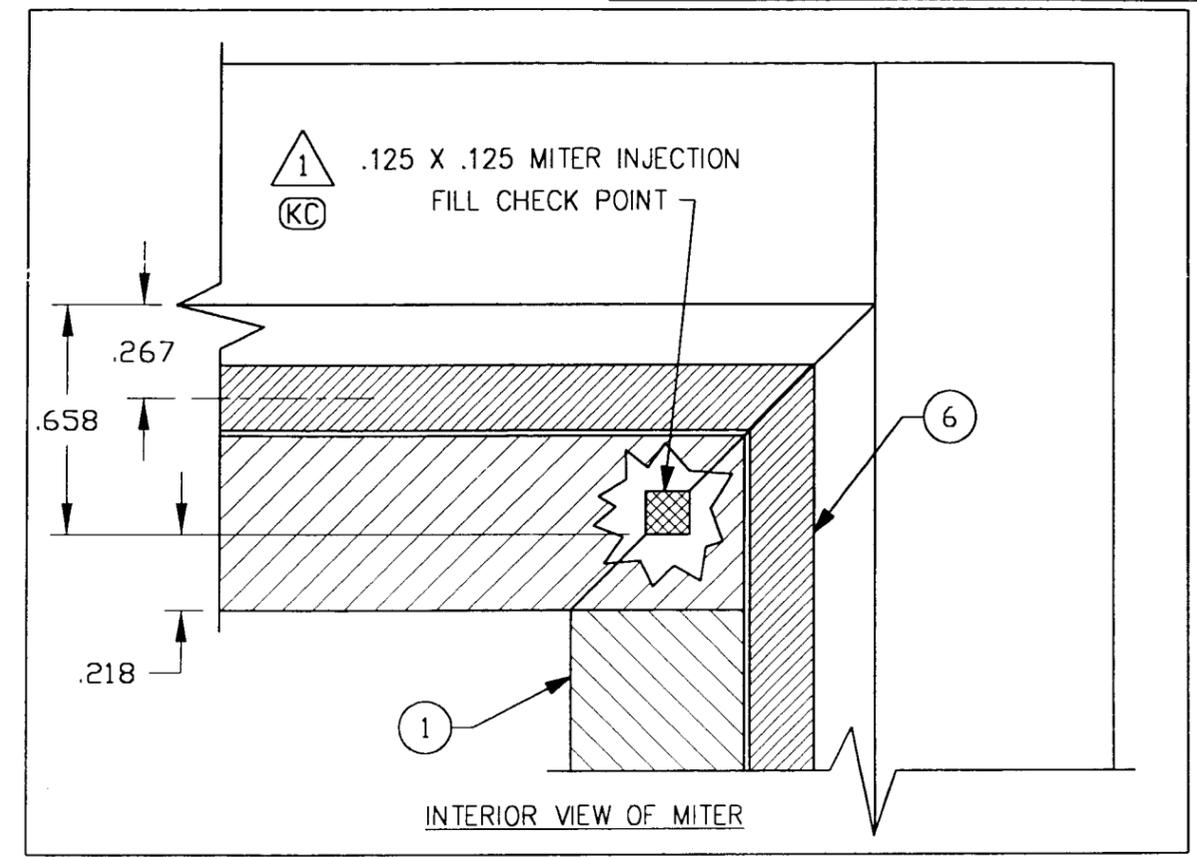
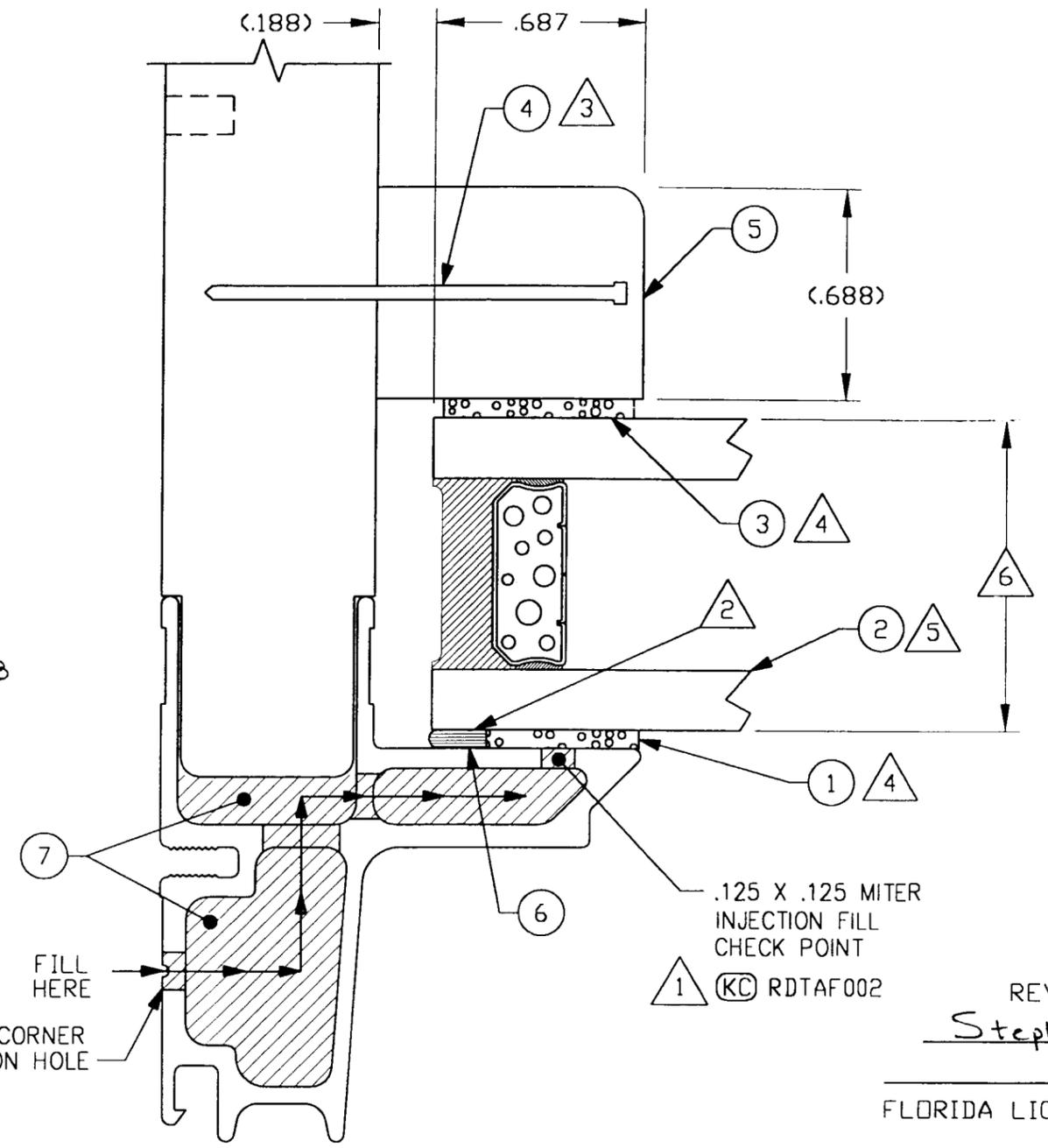
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 02-0117.02
Expiration Date April 7, 2002
By *[Signature]*
Miami Dade Product Control
Division

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE February 25, 1999
BY *[Signature]*
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 97-0924.06

CHECKED BY: STFISHER		WOOD PART DIP SPEC		RESEARCH AND DEVELOPMENT BOX 100, WARROAD, MN 56763 WINDOWS&DOORS (218) 386-1430 FAX 386-1913	
APPROVED DATE: 12/01/98		<input type="checkbox"/> DIP	<input type="checkbox"/> AT MLDR.		
DWG CLASS: ASSY		<input type="checkbox"/> NO DIP	<input type="checkbox"/> IN PROD.	PRODUCT LINE: ROUND TOP	
UNSPECIFIED TOLERANCES:		PRODUCT: CLAD DIRECT-GLAZE ROUND-TOP HP			
DECIMALS:		ASSEMBLY			
.XX = ±.03		EXPLODED FRAME AND CLADDING ASSEMBLY			
.XXX = ±.016		MATERIAL: N/A		DRAWING NO: 00012671	
ANGLE: ±.5°		SIZE: B		SCALE: DATE: DRAWN BY: SHEET:	
FAB LINEALS: ±.016		N/A		1:1 6/22/98 J HAPKA 4 OF 9	

REV#	DESCRIPTION / REQUESTER	ECN NO	DATE	DRAFTER
1	REMOVED DRAWING REFERENCE NOTE 2 & 3. / M. PEREZ P.E.	N/A	11/23/98	CRAIGLEV
0	SUBMITTED TO P.E. / J HAPKA	N/A	10/2/98	J HAPKA

ITEM NO	REF NO	DESCRIPTION	ITEM NO	REF NO	DESCRIPTION
1	00003787	.063' X .500' GLAZ TAPE	4	PN11892207	F-14 1.375' BRAD NAIL
2	***	GLAZING ASSEMBLY	5	00007080	W4160 GLAZING STOP
3	00003787	.063' X .625' GLAZ TAPE	6	00012297	Ø.188 BEAD 343 BLACK
			7	00012297	344 BEIGE SILICONE



S. Fisher
7 Dec 198

- NOTE:
1. INJECT SILICONE UNTIL VISIBLE SQUEEZE-OUT THROUGH MITER FILL CHECK POINT.
 2. SILICONE MUST MAKE CONTACT WITH GLAZING TAPE WHEN GLASS IS PRESSED INTO PLACE.
 3. NAIL SPACING: 1.5±.5 FROM CORNER & SPACED 5" TO 8" APART. FOR ANGLES LESS THAN 90° PLACE NAIL AS CLOSE AS POSSIBLE TO CORNER.
 4. MUST COMPRESS TAPE 20%.
 5. SEALED INSULATING GLASS SHOWN.
 6. FOR GLASS TYPE, THICKNESS, AND MAXIMUM ALLOWABLE SIZE (FT²) SEE DRAWING 00012671 SHEET 9.

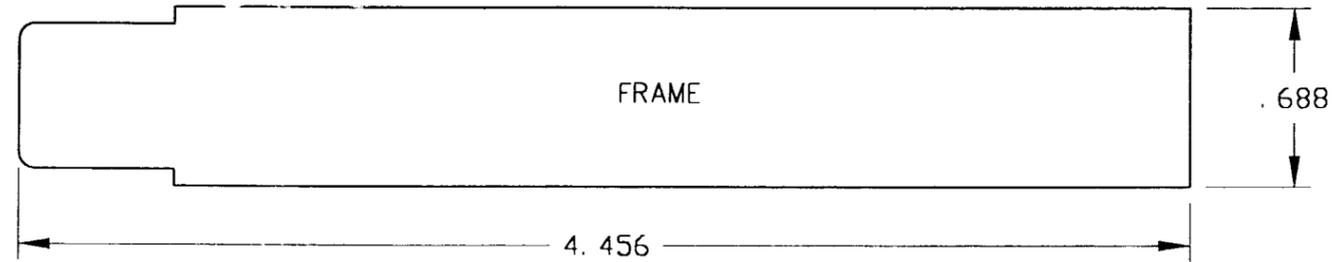
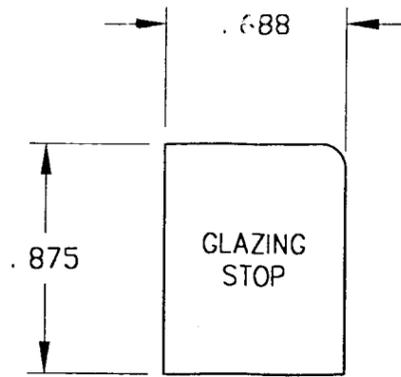
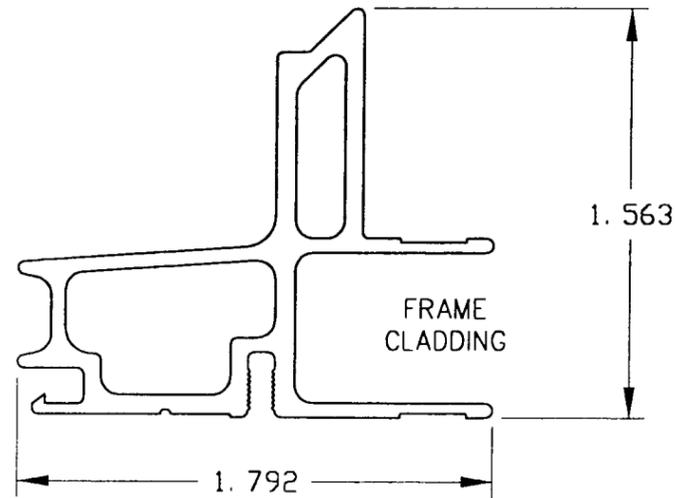
REVIEWED BY:
Stephen D. Fisher
FLORIDA LICENSE # 47489

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Building Code
Acceptance No 02-0117.02
Expiration Date April 7, 2002
By [Signature]
Miami Dade Product Control
Division

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DATE February 25 1999
BY [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 97-0924-06

REV#	DESCRIPTION / REQUESTER	ECN NO	DATE	DRAFTER
1	ADDED GLASS BITE & THICKNESS DIM & REMOVED DRAWING REFERENCE NOTE. / M PEREZ P.E.	N/A	11/24/98	CRAIGLEV
0	SUBMITTED TO P.E. / J HAPKA	N/A	10/2/98	J HAPKA

CHECKED BY: STFISHER	WOOD PART DIP SPEC <input type="checkbox"/> DIP <input type="checkbox"/> AT MLDR. <input type="checkbox"/> NO DIP <input type="checkbox"/> IN PROD.	MARVIN RESEARCH AND DEVELOPMENT BOX 100, WARROAD, MN 56763 WINDOWS&DOORS (218) 386-1430 FAX 386-1913
APPROVED DATE: 12/01/98	PRODUCT LINE: ROUND TOP	
DWG CLASS: ASSY	PRODUCT: CLAD DIRECT-GLAZE ROUND-TOP HP	
UNSPECIFIED TOLERANCES:	SUBASSEMBLY CORNER INJECTION AND GLAZING DETAILS	
DECIMALS: .XX = ±IND STD .XXX = ±IND STD	ANGLE: ±IND STD	MATERIAL: N/A
FAB LINEALS: +.125 -.000	SIZE: DRAWING NO: 00012671	SCALE: DATE: 2:1 5/8/98
	DRAWN BY: J HAPKA	SHEET: 5 OF 9



REVIEWED BY:
Stephen D. Fisher
 FLORIDA LICENSE # 47489

S. Fisher
 7 Dec '98

PRODUCT REVISED
 as complying with the Florida
 Building Code
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 Expiration Date April 7, 2002
 By [Signature]
 Miami Dade Product Control
 Division

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE February 25, 1999
 BY [Signature]
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 97-8924-06

REV#	DESCRIPTION / REQUESTER	ECN NO	DATE	DRAFTER
1	REMOVED DRAWING REFERENCE NOTE. / M PEREZ P.E.	N/A	11/24/98	CRAIGLEV
0	SUBMITTED TO P.E. / J HAPKA	N/A	10/2/98	J HAPKA

CHECKED BY: STFISHER	WOOD PART DIP SPEC	MARVIN RESEARCH AND DEVELOPMENT		
APPROVED DATE: 12/01/98	<input type="checkbox"/> DIP <input type="checkbox"/> AT MLDR.	BOX 100, WARROAD, MN 56763		
DWG CLASS: MISC	<input type="checkbox"/> NO DIP <input type="checkbox"/> IN PROD.	WINDOWS & DOORS (218) 386-1430 FAX 386-1913		
UNSPECIFIED TOLERANCES:	PRODUCT LINE: ROUND TOP	PRODUCT: CLAD DIRECT-GLAZE ROUND-TOP HP		
DECIMALS: .XX = ±.03 .XXX = ±.012	ANGLE: ±.5°	COMPONENT PROFILE THREE FRAME PROFILES		
FAB LINEALS: +.125 -.000	MATERIAL: N/A	SIZE: B	DRAWING NO: 00012671	
	SCALE: 1:1	DATE: 7/20/98	DRAWN BY: J HAPKA	SHEET: 6 OF 9

PART DESCRIPTION	BASIC DIMENSIONS	MATERIAL	DRAWING REF NO	QUANTITY	SUPPLIER
W2286 FRAME STOCK	. 688 ' X 4. 456'	PINE	00011225	ONE PER LINEAL SIDE	- -
W2286 BENT FRAME STOCK	. 688 ' X 4. 456'	PINE	00011239	ONE PER RADIUS SIDE	- -
W4160 GLAZING STOP	. 688' X . 875'	PINE	00007080	ONE PER LINEAL SIDE	- -
W4160 BENT GLAZING STOP	. 688' X . 875'	PINE	00007080	ONE PER RADIUS SIDE	- -
A328 FRAME CLADDING	1. 562' X 1. 792'	ALUMINUM (6063, T1)	00011209	ONE PER SIDE	ALUMAX
INTERIOR GLAZING SEAL	. 063' X . 625'	POLYOLEFIN FOAM W/ACRYLIC ADHESIVE	00003787	AS NEEDED	ARLON
EXTERIOR GLAZING SEAL	. 063' X . 500'	POLYOLEFIN FOAM W/ACRYLIC ADHESIVE	00003787	AS NEEDED	ARLON
CORNER INJECTION SEALANT	- -	SILICONE, 344 BEIGE	00012297	AS NEEDED	CSL
GLAZING SEALANT	- -	SILICONE, 343 BLACK	00012297	AS NEEDED	CSL
FRAME CLADDING CORNER KEY	- -	ALUMINUM (5052 HD)	00010038	ONE PER CORNER	WABANICA
INSULATED GLAZING	- -	- -	00011085 00011587	ONE PER UNIT	- -
GLASS SETTING BLOCKS	. 188' X . 938 X 4. 000	SANTOPRENE	00003521	AS NEEDED PER GLASS SIZE	GENERAL-WINDOW
FOAM PADS	. 25' X . 75' X 1. 00'	POLYETHYLENE	00011224	TWO PER CORNER	CLIMATECH
FOAM PADS	. 25' X . 60' X . 60'	POLYETHYLENE	00011227	TWO PER CORNER	CLIMATECH
SCREW, SELF DRILLING FH TYPE AB/TEK-2	#7 X . 500'	ZINC YELLOW DICHROMATE PLATED STEEL	00003277	FOUR PER CORNER	ARMOUR
BRAD NAIL, GLAZING STOP	14 GAUGE X 1. 375'	STEEL	- -	EVERY 5' - 8'	PASLODE
SCREW, WOOD FRAME CORNER	#7 X 2. 000'	ZINC PLATED STEEL	00003208	FOUR PER CORNER	ARMOUR
STAPLE, FRAME CLADDING	18 GAUGE X . 500'	STEEL	- -	EVERY 4' - 6'	PASLODE
FRAME CLADDING SEALANT	- -	POLISOBUTYLENE AND ISOPRENE POLYMERS	00011495	AS NEEDED PER CLAD FRAME MITER	SCHNEE-MOREHEAD

S. Fisher
7 Dec '98

REVIEWED BY:
Stephen D. Fisher

FLORIDA LICENSE # 47489

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ACCEPTANCE NO. 97-0924-06

REV#	DESCRIPTION / REQUESTER	ECN NO	DATE	DRAFTER
1	REMOVED DRAWING REFERENCE NOTE. / M PEREZ P.E.	N/A	11/24/98	CRAIGLEV
0	SUBMITTED TO P.E. / J HAPKA	N/A	10/2/98	J HAPKA

CHECKED BY: STFISHER	WOOD PART DIP SPEC <input type="checkbox"/> DIP <input type="checkbox"/> AT MLDR. <input type="checkbox"/> NO DIP <input type="checkbox"/> IN PROD.	MARVIN RESEARCH AND DEVELOPMENT BOX 100, WARROAD, MN 56763 WINDOWS&DOORS (218) 386-1430 FAX 386-1913
APPROVED DATE: 12/01/98	PRODUCT LINE: ROUND TOP	
DWG CLASS: CHART	PRODUCT: CLAD DIRECT-GLAZE ROUND-TOP HP	
UNSPECIFIED TOLERANCES:	CHART BILL OF MATERIAL	
DECIMALS: .XX = ±.03 .XXX = ±.012	ANGLE: ±.5°	
FAB LINEALS: +.125 -.000	MATERIAL: N/A	SIZE: B DRAWING NO: 00012671
	SCALE: N/A	DATE: 5/8/98 DRAWN BY: J HAPKA SHEET: 7 OF 9

Clad Round-Top HP

Typical Shapes and Sizes Approved for Dade County

Shape	OSM Width	OSM Height	DP of Unit		Masonry Anchor Maximum Spacing, in* For Required Design Pressure, +/-				
			Pos.	Neg.	50 psf	60 psf	70 psf	80 psf	90 psf
Half circle	108	54	65	70	12.0	10.5	9.0	--	--
Half circle	96	48	73	79	12.0	11.5	10.0	--	--
Half circle	84	42	83	90	12.0	12.0	11.5	10.0	9.0
Half circle	74	37	95	95	12.0	12.0	12.0	11.5	10.0
Half circle with springline	48	54	84	90	12.0	12.0	11.5	10.0	9.0
Half circle with springline	36	54	95	95	12.0	12.0	12.0	11.5	10.5
Full circle	54	54	79	85	12.0	12.0	11.0	9.5	--
Full circle	48	48	89	95	12.0	12.0	12.0	10.5	9.5
Full circle	45	45	95	95	12.0	12.0	12.0	11.5	10.0
Quarter circle	54	54	84	90	12.0	12.0	12.0	11.0	--
Quarter circle	51	51	95	95	12.0	12.0	12.0	11.5	10.0

S. Fisher
7 Dec '98

*In addition to 6 inches from each corner.

REVIEWED BY:

Stephen D. Fisher

FLORIDA LICENSE # 47489

NOTE:

1. COMPARATIVE ANALYSIS RESULTS BASED ON HALF-ROUND, ROUND TOP OF OSM OF 108 X 54. TESTED AND ACHIEVED UP + 65 PSF, -70 PSF ACCORDING TO REPORT ATI-15734-N. DATED APRIL 20, 1995 AND SIGNED AND SEALED BY ALLEN N. REEVES, P.E.

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 02-0117-02
Expiration Date 09/17/2002
By [Signature]
Miami Dade Product Control Division

APPROVED AS COMPLYING WITH THE SOUTH FLORIDA BUILDING CODE
DATE February 25, 1999
BY [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICER
ACCEPTANCE NO. 97-0924-06

CHECKED BY: STFISHER	WOOD PART DIP SPEC <input type="checkbox"/> DIP <input type="checkbox"/> AT MLDR. <input type="checkbox"/> NO DIP <input type="checkbox"/> IN PROD.	MARVIN RESEARCH AND DEVELOPMENT BOX 100, WARROAD, MN 56763 WINDOWS & DOORS (218) 386-1430 FAX 386-1913
APPROVED DATE: 12/01/98	PRODUCT LINE: ROUND TOP	
DWG CLASS: CHART	PRODUCT: CLAD DIRECT-GLAZE ROUND-TOP HP	
UNSPECIFIED TOLERANCES:	CHART	
DECIMALS: .XX = ±N/A .XXX = ±N/A	ANGLE: ±N/A	COMPARATIVE ANALYSIS TABLE
FAB LINEALS: N/A	MATERIAL: N/A	SIZE: B DRAWING NO: 00012671
	SCALE: N/A	DATE: 7/22/98 DRAWN BY: J HAPKA SHEET: 8 OF 9

REV#	DESCRIPTION / REQUESTER	ECN NO	DATE	DRAFTER
1	REMOVED DRAWING REFERENCE NOTE AND CHANGED ALL SPACINGS GREATER THAN 12" TO 12" / M. PEREZ P.E.	N/A	11/19/98	CRAIGLEV
0	SUBMITTED TO P.E. / J HAPKA	N/A	10/2/98	J HAPKA

GLASS TYPE	IG OVERALL GLASS THICKNESS, INCHES		MAX ALLOWABLE UNIT FT ² , FRAME SIZE						
	NOMINAL		PSF-DESIGN						
	MAX	MIN	65	70	75	80	85	90	95
5.0 MM SG			10.6	9.8	9.2	8.6	8.0	7.5	7.1
5.0 MM IG	1.40	.62	16.0	14.8	13.7	12.8	12.0	11.3	10.7
5.0 MM SG FULLY TEMPERED			36.0	36.0	36.0	34.2	32.1	30.2	28.5
5.0 MM IG FULLY TEMPERED	1.40	.62	36.0	36.0	36.0	36.0	36.0	36.0	36.0

NOTE

1. IG UNITS - BOTH LITES OF EQUAL TEMPER AND / OR THICKNESS.
2. IG AIR SPACE WIDTH, 1/4' TO 1' NOMINAL.
3. 5MM - .187' NOMINAL.
4. REFERENCE TABLE 35-E, SFBC-94.
5. CALCULATED SG VALUES PER TABLE MINUS 0.5 FT². RESISTANCE FACTORS APPLIED AFTER SUBTRATION.
6. GLASS BITE .688 INCHES.
7. HALF-ROUND UNIT 108 X 54, APPROX. 31 FT², 5.0 MM IG TESTED TO 65 PSF, ATI-15734-N.

REVIEWED BY:

Stephen D. Fisher

FLORIDA LICENSE # 47489

S. Fisher
21 Dec '98

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 02-0117-02
Expiration Date 1/1/2002
By [Signature]
Miami Dade Product Control
Division

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE February 25, 1999
BY [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 97-0924-06

CHECKED BY: STFISHER		WOOD PART DIP SPEC		MARVIN RESEARCH AND DEVELOPMENT	
APPROVED DATE: 12/21/98		<input type="checkbox"/> DIP	<input type="checkbox"/> AT MLDR.	BOX 100, WARROAD, MN 56763	
DWG CLASS: 00012671		<input type="checkbox"/> NO DIP	<input type="checkbox"/> IN PROD.	WINDOWS & DOORS (218) 386-1430 FAX 386-1913	
UNSPECIFIED TOLERANCES:		PRODUCT LINE: CLAD DIRECT-GLAZE			
DECIMALS:		PRODUCT: CLAD ROUND TOP HP			
.XX = ±N/A		CHART			
.XXX = ±N/A		GLASS TYPE, THICKNESS, AND MAXIMUM UNIT SIZE (ft ²).			
FAB LINEALS: N/A		MATERIAL: N/A	SIZE: B	DRAWING NO: 00012671	
1	REMOVED 3 MM GLASS OPTION / STFISHER	N/A	12/21/98	CRAIGLEV	
REV#	DESCRIPTION / REQUESTER	ECN NO	DATE	DRAFTER	
					SHEET: 9 OF 9