



**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
Highway 11
Warroad, MN 56763-0100**

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 Polygon HP" Aluminum Clad Wood Fixed Window

APPROVAL DOCUMENT: Drawing No. 00012638, titled "Clad Direct-Glaze, Clad Polygon HP", sheet 1 of 9, prepared, signed and sealed by Stephen Fisher, P.E., dated 11/18/98, 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.

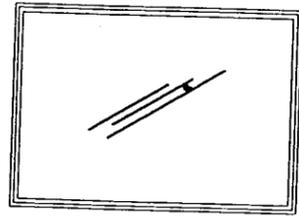
ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

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.

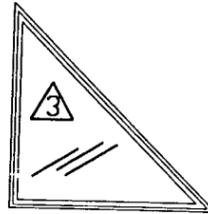
This NOA renews NOA # 97-0924.05 and, consists of this page 1 as well as approval document mentioned above. The submitted documentation was reviewed by **Raul Rodriguez**.



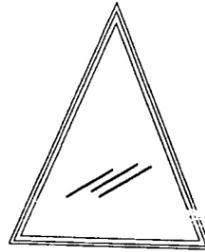
**NOA No 02-0117.01
Expiration Date: October 19, 2006
Approval Date: April 11, 2002
Page 1**



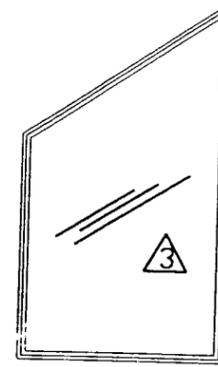
RECTANGLE



90 DEG TRIANGLE



ISOSCELES TRIANGLE



TRAPEZOID

CPOLY HP TESTED UNIT

| | | |
|--------------------|----------------|--------------|
| SHAPE RECTANGLE | FRAME DSM (IN) | |
| | WIDTH 72 | HEIGHT 72 |

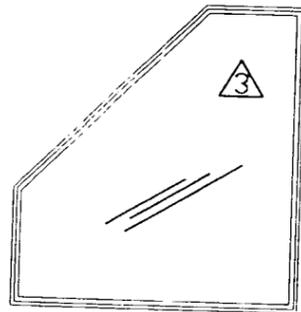
REVIEWED BY:

Stephen D. Fisher

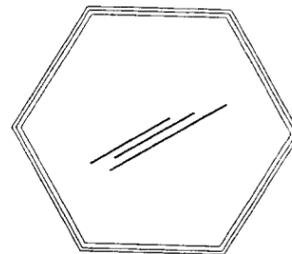
FLORIDA LICENSE # 47489

JOB # 9817

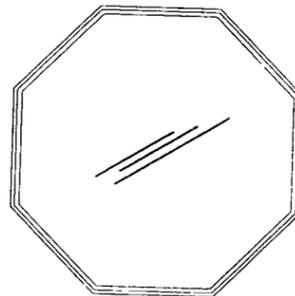
S. Fisher
7 Dec '98



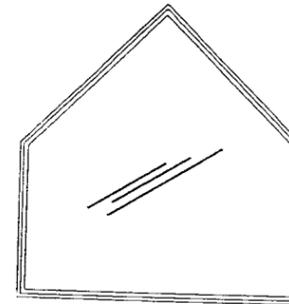
ASYMMETRIC PENTAGON



HEXAGON



OCTAGON



SYMMETRIC
IRREGULAR
PENTAGON

PRODUCT RENEWED
as compliant with the Florida
Building Code
Acceptance No. 02-0117-07
Expiration Date Oct 19, 2006
By [Signature]
Miami Dade Product Control
Division

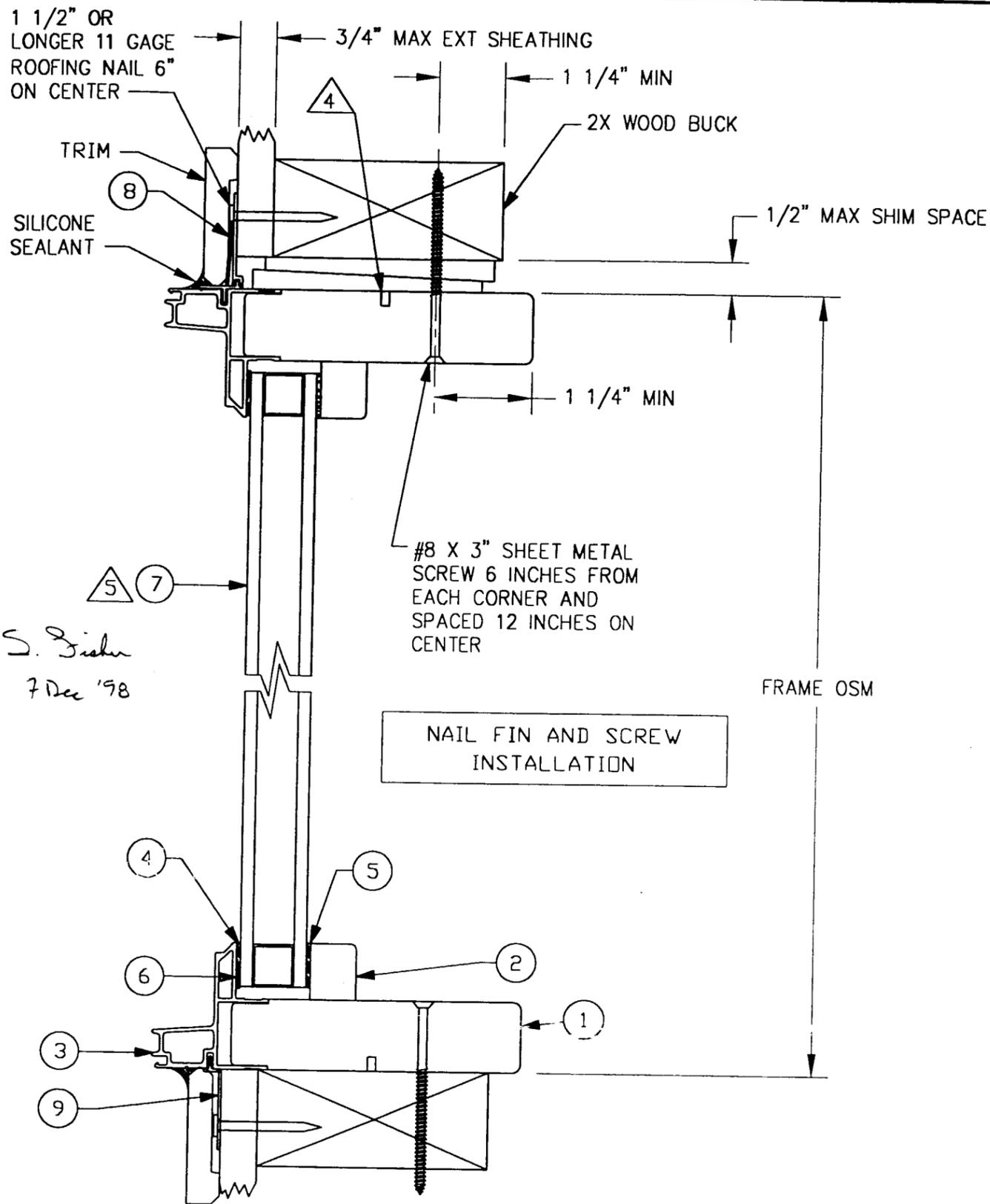
APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE February 25, 1999
BY [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 97-0924-05

NOTES:

1. MAXIMUM PROJECTED AREA: 36 SQ FT.
2. MAXIMUM PERIMETER OF FRAME: 24 FT.
3. ASYMMETRIC SHAPE ALSO APPROVED FOR MIRROR IMAGE ABOUT VERTICAL AXIS.
4. REFER TO 00012638 SHEET 8 FOR ADDITIONAL SIZE LIMITATIONS.

| REV# | DESCRIPTION / REQUESTER | ECN NO | DATE | DRAFTER |
|------|--|--------|----------|----------|
| 1 | CORRECTED TITLE BLOCK PRINT DESCRIPTION & REMOVED DRAWING REFERENCE NOTE. / M PEREZ P.E. | N/A | 11/18/98 | CRAIGLEV |
| 0 | SUBMITTED TO P.E. / J HAPKA | N/A | 10/1/98 | J HAPKA |

| | | | | |
|--|------------------|---------------------------------|-----------------------------------|---|
| CHECKED BY: STFISHER | | WOOD PART DIP SPEC | | MARVIN 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: CLAD DIRECT-GLAZE |
| UNSPECIFIED TOLERANCES: | | PRODUCT: CLAD POLYGON HP | | |
| DECIMALS: .XX = ±N/A .XXX = ±N/A | ANGLE: ±N/A | ASSEMBLY POLYGONS ELEVATIONS | | |
| FAB LINEALS: N/A | MATERIAL: N/A | SIZE: B | DRAWING NO: 00012638 | |
| | | SCALE: N/A | DATE: 6/22/98 | DRAWN BY: J HAPKA |
| | | | | SHEET: 1 OF 9 |



S. Fisher
7 Dec '98

| ITEM NO | REF NO | DESCRIPTION |
|---------|----------|-------------------------|
| 9 | 00005281 | V084 SILL NAIL FIN |
| 8 | 00005306 | V110 HEAD JAMB NAIL FIN |
| 7 | -- | GLASS |
| 6 | 00012297 | Ø.188 BEAD 343 BLACK |
| 5 | 00003787 | 1/16X5/8 GLAZING TAPE |
| 4 | 00003787 | 1/16X1/2 GLAZING TAPE |
| 3 | 00011210 | A329 FRAME CLADDING |
| 2 | 00007080 | W4160 GLAZING STOP |
| 1 | 00011050 | W7714 FRAME STOCK |

NOTE.

- SECTION SHOWN FOR SHAPE WITH HORIZONTAL SILL AND HORIZONTAL HEAD JAMB.
- WOOD INSTALLATION SHOWN.
- REFER TO 00012638 SHEET 3 FOR OTHER APPROVED TYPES OF INSTALLATION.
- KERF OPTIONAL.
- SEALED INSULATING GLASS SHOWN.

REVIEWED BY:
Stephen D. Fisher

FLORIDA LICENSE # 47489

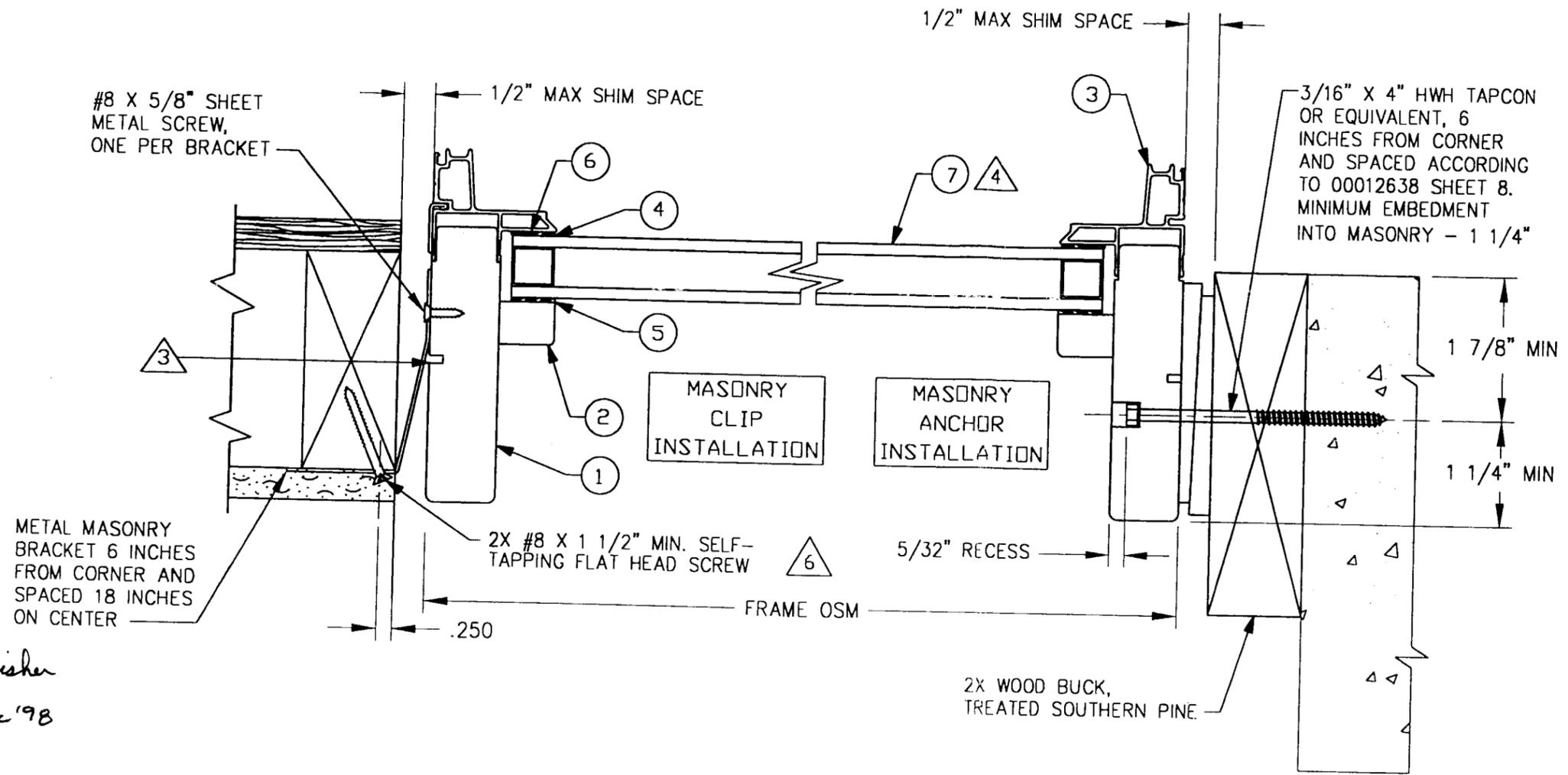
PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 02-0117-01
Expiration Date Oct 19 2006
By [Signature]
Miami Dade Product Control
Division

APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE February 25 1999
BY [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 97-0924-05

| | | |
|--|---|---|
| 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: CLAD DIRECT-GLAZE PRODUCT: CLAD POLYGON HP | |
| DWG CLASS: ASSY | UNSPECIFIED TOLERANCES: | ASSEMBLY VERTICAL CROSS SECTION |
| DECIMALS: .XX = ±N/A .XXX = ±N/A | ANGLE: ±N/A | DRAWING NO: 00012638 |
| FAB LINEALS: N/A | MATERIAL: N/A | SCALE: 1:2 DATE: 6/22/98 DRAWN BY: J HAPKA SHEET: 2 OF 9 |

| 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 | 11/18/98 | CRAIGLEV |

| ITEM NO | REF NO | DESCRIPTION |
|---------|----------|-----------------------|
| 7 | -- | GLASS |
| 6 | 00012297 | CSL343 BLACK SILICONE |
| 5 | 00003787 | 1/16X5/8 GLAZING TAPE |
| 4 | 00003787 | 1/16X1/2 GLAZING TAPE |
| 3 | 00011210 | A329 FRAME CLADDING |
| 2 | 00007080 | W4160 GLAZING STOP |
| 1 | 00011050 | W7714 FRAME STOCK |



REVIEWED BY:
Stephen D. Fisher

FLORIDA LICENSE # 47489

S. Fisher
7 Dec '98

NOTE:

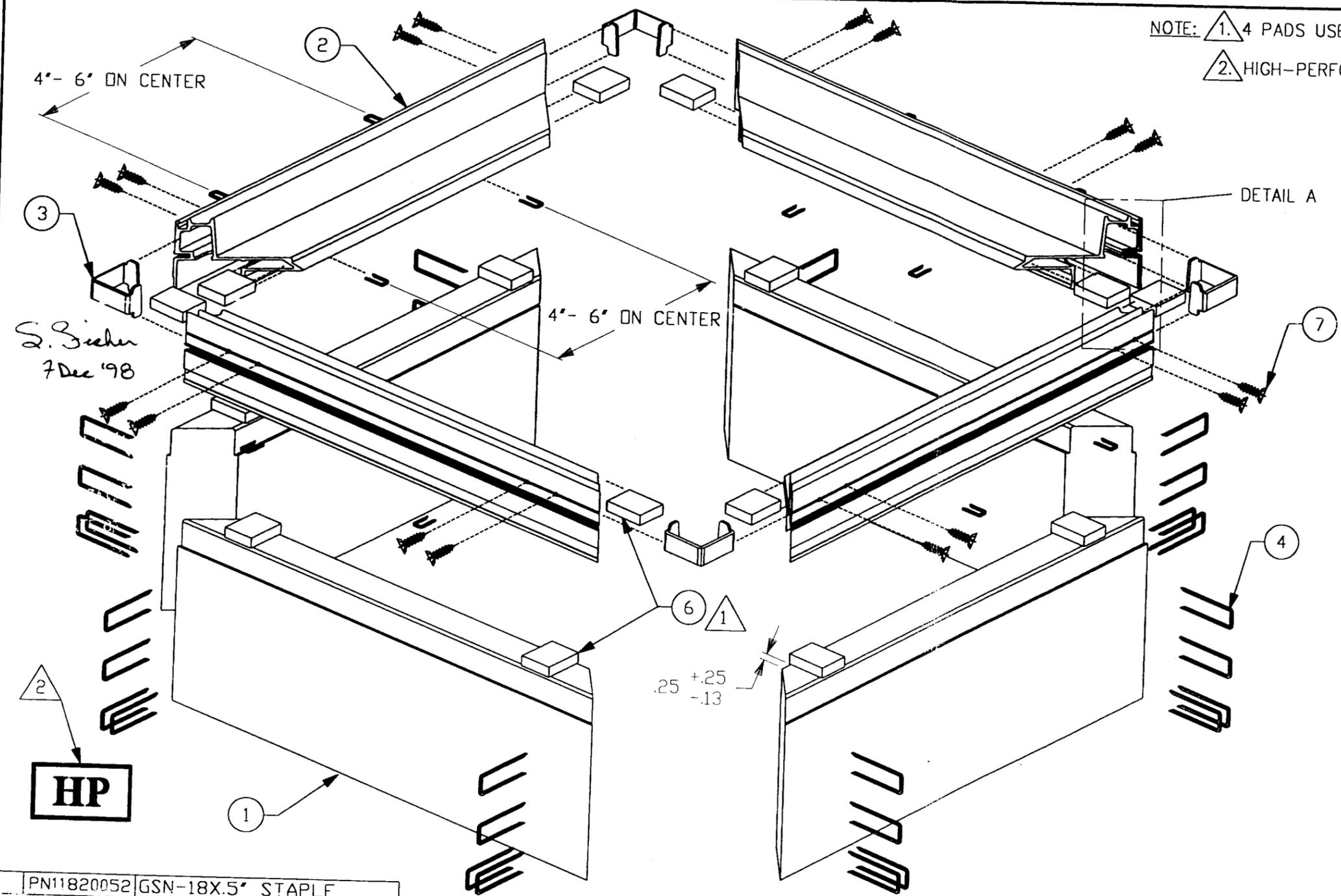
1. SECTION SHOWN FOR SHAPE WITH BOTH JAMBS VERTICAL.
2. REFER TO 00012638 SHEET 2 FOR WOOD INSTALLATION.
3. KERF OPTIONAL.
4. SEALED INSULATING GLASS SHOWN.
5. MASONRY ANCHOR INSTALLATION: HOLLOW BLOCK SHOWN, CONCRETE ALSO APPROVED.
6. ADDITIONAL .150" DIA HOLES MAY BE NEEDED TO FASTEN MASONRY ANCHOR AS SPECIFIED. ANGLE SCREWS 15-30° FROM PERPENDICULAR TO BUCK FRAMING.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 02-0117.01
Expiration Date Oct 19, 2006
By [Signature]
Miami-Dade Product Control
Division

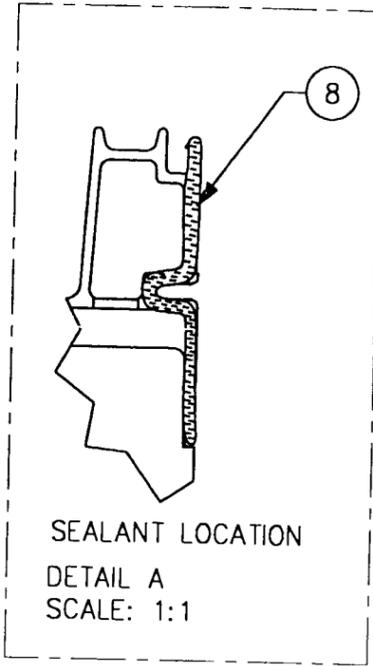
APPROVED AS COMPLYING WITH THE
SOUTH FLORIDA BUILDING CODE
DATE FEBRUARY 25 1999
BY [Signature]
PRODUCT CONTROL DIVISION
BUILDING CODE COMPLIANCE OFFICE
ACCEPTANCE NO. 97-0924-05

| | | | |
|--|---|---|----------------------|
| 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, WARROD, 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: CLAD DIRECT-GLAZE | PRODUCT: CLAD POLYGON HP | |
| DECIMALS: .XX = ±N/A .XXX = ±N/A | ANGLE: ±N/A | ASSEMBLY HORIZONTAL CROSS SECTION | |
| FAB LINEALS: N/A | MATERIAL: N/A | SIZE: B | DRAWING NO: 00012638 |
| | SCALE: 1:2 | DATE: 6/22/98 | DRAWN BY: J HAPKA |
| | | | SHEET: 3 OF 9 |

| 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 | 11/16/98 | CRAIGLEV |
| 0 | SUBMITTED TO P.E. / J HAPKA | N/A | 10/1/98 | J HAPKA |



NOTE: 1. 4 PADS USED PER MITER.
 2. HIGH-PERFORMANCE SEALANT LOCATED ADJACENT TO HEADER LABEL.



REVIEWED BY:
 Stephen D. Fisher

FLORIDA LICENSE # 47489

PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 02-0117-01
 Expiration Date 06/19/2006
 By: [Signature]
 Miami Dade Product Control
 Division

APPROVED AS COMPLYING WITH THE
 SOUTH FLORIDA BUILDING CODE
 DATE February 25, 1999
 BY Manuel Perez
 PRODUCT CONTROL DIVISION
 BUILDING CODE COMPLIANCE OFFICE
 ACCEPTANCE NO. 97-0924-05

S. Fisher
 7 Dec '98

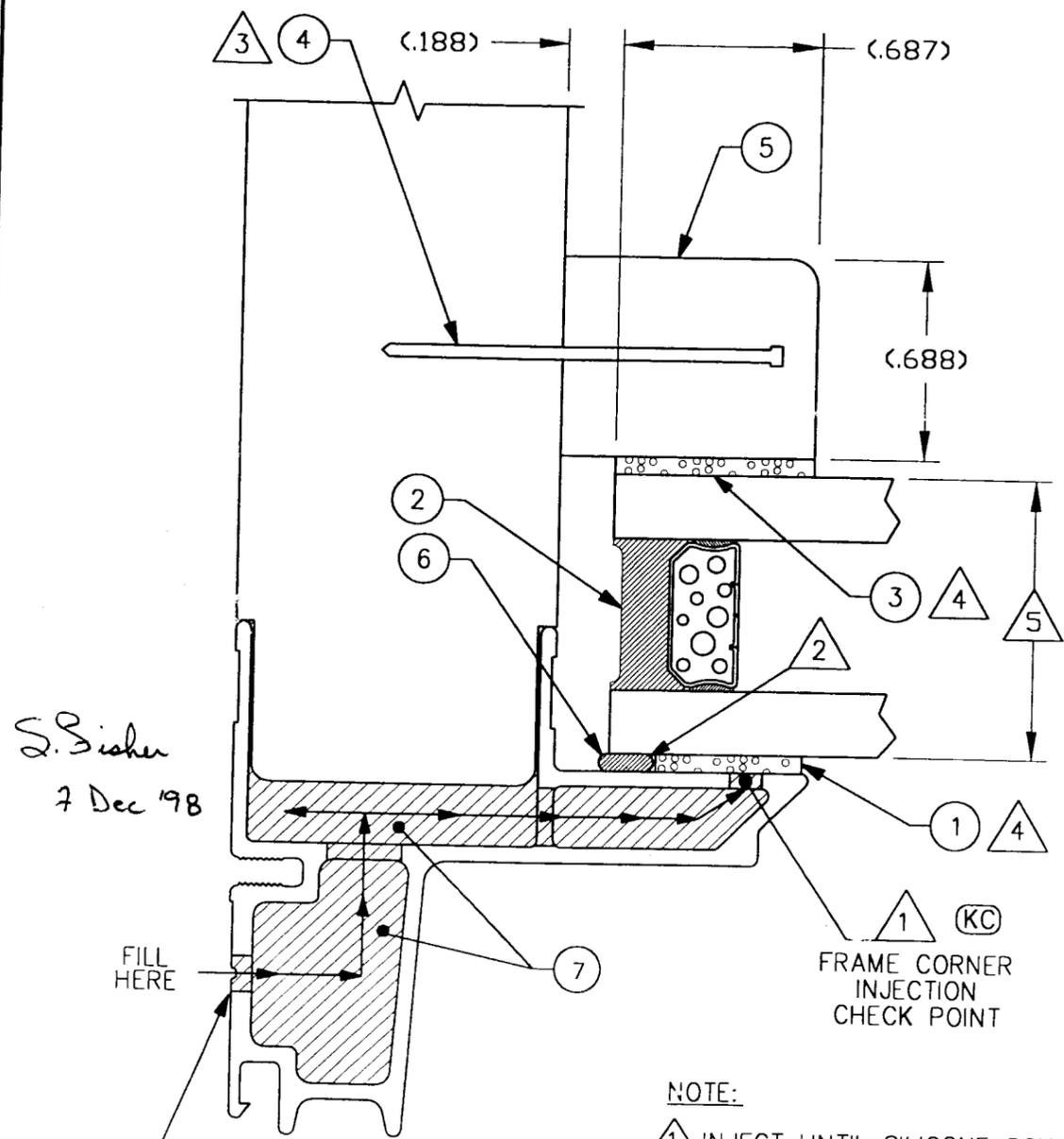
HP

| ITEM NO | REF NO | DESCRIPTION | ITEM NO | REF NO | DESCRIPTION |
|---------|------------|---------------------|---------|----------|-----------------------|
| 5 | PN11820052 | GSN-18X.5" STAPLE | 8 | 00011495 | SM5601 SEALANT |
| 4 | PN11820112 | GSN-16X1.5" STAPLE | 7 | 00003277 | #7X1/2" UC TEK2 SCREW |
| 3 | 00010038 | CORNER KEY | 6 | 00011224 | FOAM SEALANT PLUG |
| 2 | 00011210 | A329 FRAME CLADDING | | | |
| 1 | 00011050 | W7714 FRAME STOCK | | | |

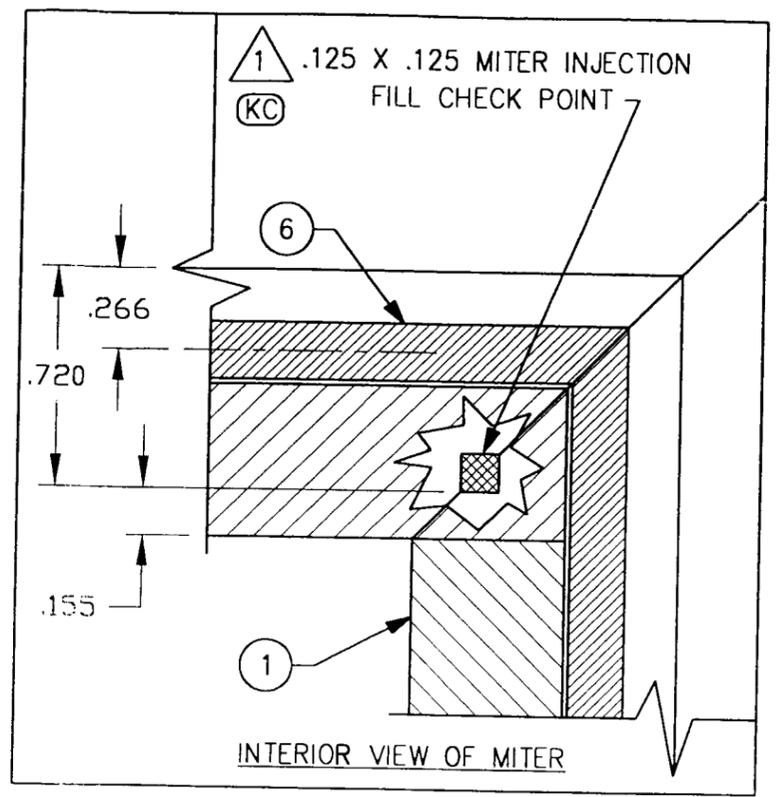
| REV# | DESCRIPTION / REQUESTER | ECN NO | DATE | DRAFTER |
|------|---|--------|----------|----------|
| 1 | REMOVED DRAWING REFERENCE NOTE 1 & 3. / M. PEREZ P.E. | N/A | 11/13/98 | CRAIGLEV |
| 0 | SUBMITTED TO P.E. / J HAPKA | N/A | 10/1/98 | J HAPKA |

| | | |
|---|---|---|
| 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: CLAD DIRECT-GLAZE PRODUCT: CLAD POLYGON HP | |
| DWG CLASS: ASSY | UNSPECIFIED TOLERANCES: | ASSEMBLY EXPLODED FRAME AND CLADDING ASSEMBLY |
| DECIMALS: .XX = ±.03 .XXX = ±.016 | ANGLE: ±.5° | MATERIAL: N/A |
| FAB LINEALS: ±.016 | | SIZE: B DRAWING NO: 00012638 |
| | | SCALE: 2:1 DATE: 6/22/98 DRAWN BY: J HAPKA SHEET: 4 OF 9 |

| ITEM NO | REF NO | DESCRIPTION | ITEM NO | REF NO | DESCRIPTION |
|---------|----------|------------------------|---------|------------|-----------------------|
| 1 | 00003787 | .063" X .500" GLZ TAPE | 4 | PN11892207 | F14-1.375" BRAD NAIL |
| 2 | *** | GLAZING ASSEMBLY | 5 | 00007080 | GLAZING STOP |
| 3 | 00003787 | .063" X .625" GLZ TAPE | 6 | 00012297 | Ø.188 BEAD 343 BLACK |
| | | | 7 | 00012297 | CSL 349 BEIGE SEALANT |



S. Fisher
7 Dec 98



REVIEWED BY:
Stephen D. Fisher
FLORIDA LICENSE # 47489

NOTE:

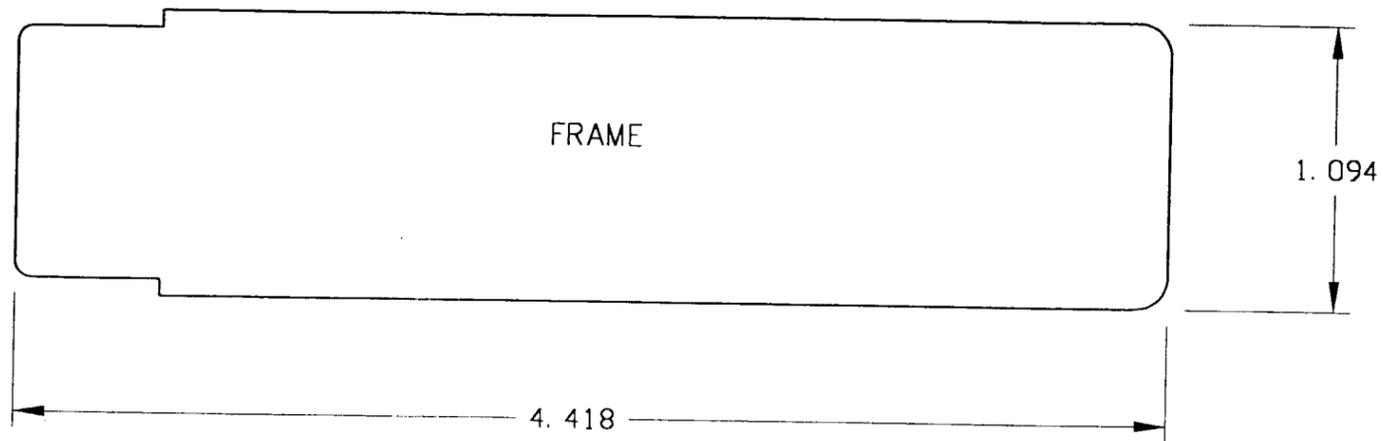
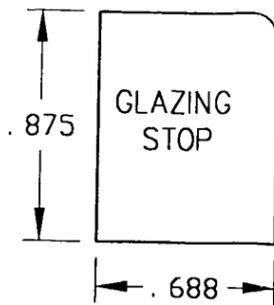
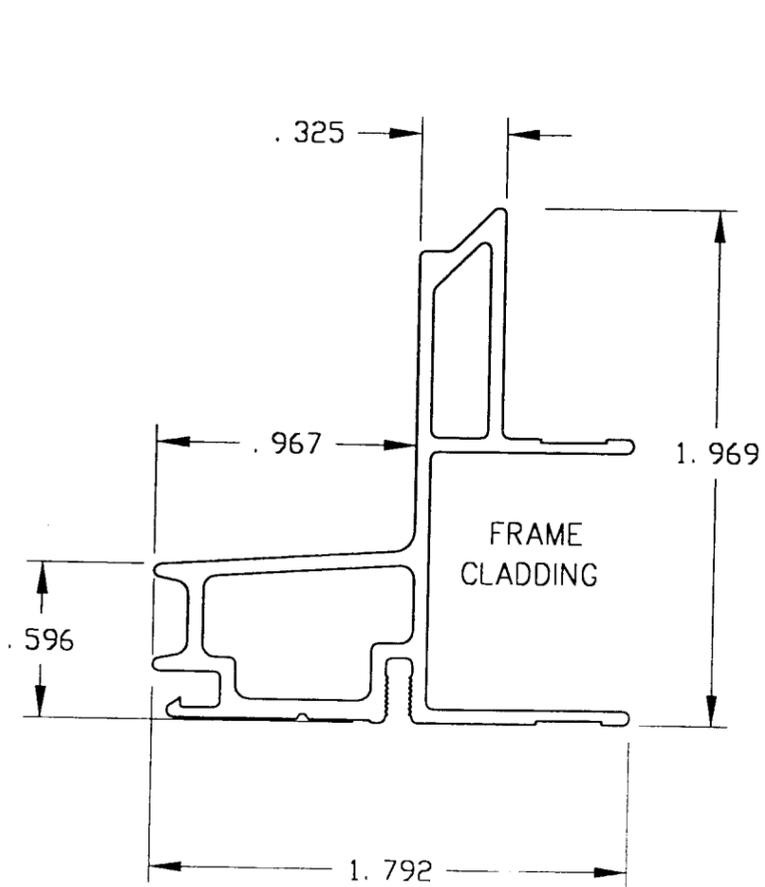
1. INJECT UNTIL SILICONE SQUEEZES OUT OF FRAME CORNER CHECK POINT.
2. SILICONE MUST MAKE CONTACT WITH GLAZING TAPE WHEN GLASS IS PRESSED INTO PLACE.
3. NAIL SPACING: 1.5±.5 FROM CORNER AND SPACED 5" TO 8" APART. FOR ANGLES LESS THAN 90° PLACE NAIL AS CLOSE AS POSSIBLE TO CORNER.
4. MUST COMPRESS TAPE 20%.
5. FOR GLASS TYPE, THICKNESS, AND MAXIMUM ALLOWABLE SIZE (FT^2) SEE DRAWING 00012638 SHEET 9.

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 02-0117-01
Expiration Date Oct 19, 2006
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. 97-0924-05

| REV# | DESCRIPTION / REQUESTER | ECN NO | DATE | DRAFTER |
|------|---|--------|----------|----------|
| 1 | ADDED GLASS BITE & THICKNESS DIM & REMOVED DRAWING REFERENCE NOTE. / M PEREZ P.E. | N/A | 11/18/98 | CRAIGLEV |
| 0 | SUBMITTED TO P.E. / J HAPKA | N/A | 10/1/98 | 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: ASSY | <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 | PRODUCT: CLAD POLYGON HP | |
| DECIMALS: .XX = ±IND STD | SUBASSEMBLY | | |
| ANGLE: .XXX = ±IND STD | CORNER INJECTION AND GLAZING SPECIFICATIONS | | |
| FAB LINEALS: +.125 | MATERIAL: N/A | SIZE: B | DRAWING NO: 00012638 |
| -.000 | SCALE: 1.75: | DATE: 6/22/98 | DRAWN BY: J HAPKA |
| | | | SHEET: 5 OF 9 |



REVIEWED BY:

Stephen D. Fisher

FLORIDA LICENSE # 47489

S. Fisher
7 Dec '98

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 02-0117-01
Expiration Date oct 19 2006
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. 97-0924-05

| | | | | | |
|---|--|---------------------------------|-----------------------------------|--|--|
| CHECKED BY: STFISHER | | WOOD PART DIP SPEC | | MARVIN 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: MISC | | <input type="checkbox"/> NO DIP | <input type="checkbox"/> IN PROD. | PRODUCT LINE: CLAD DIRECT-GLAZE | |
| UNSPECIFIED TOLERANCES: | | PRODUCT: CLAD POLYGON HP | | | |
| DECIMALS: .XX = ±.03 .XXX = ±.012 | | ANGLE: ±.5° | | COMPONENT PROFILE FRAME, STOP, AND FRAME CLADDING PROFILES | |
| FAB TOLERANCES: +.125 -.000 | | MATERIAL: N/A | SIZE: B | DRAWING NO: 00012638 | |
| REV# | | SCALE: 1.5:1 | DATE: 6/22/98 | DRAWN BY: J HAPKA | |
| DESCRIPTION / REQUESTER | | ECN NO | | SHEET: 6 OF 9 | |

| | | | | |
|------|--|--------|----------|-----------|
| 1 | REMOVED DRAWING REFERENCE NOTE. / M PEREZ P.E. | N/A | 11/19/98 | CRAIG LEV |
| 0 | SUBMITTED TO P.E. / J HAPKA | N/A | 10/1/98 | J HAPKA |
| REV# | DESCRIPTION / REQUESTER | ECN NO | DATE | DRAFTER |

| PART DESCRIPTION | BASIC DIMENSIONS | MATERIAL | DRAWING REF NO | SUPPLIER | QUANTITY |
|---------------------------------------|-------------------------|--------------------------------------|----------------|-----------------|--------------------------------|
| W7714 FRAME STOCK | 1.094" X 4.418" | PINE | 00011050 | - - | ONE PER SIDE |
| W4160 GLAZING STOP | .688" X .875" | PINE | 00007080 | - - | ONE PER SIDE |
| A329 FRAME CLADDING | 1.792" X 1.969" | ALUMINUM (6063, T5) | 00011210 | ALUMAX | ONE PER SIDE |
| INTERIOR GLAZING SEAL | .063" X .625" | POLYOLEFIN FOAM W/ACRYLIC ADHESIVE | 00003787 | ARLON | AS NEEDED |
| EXTERIOR GLAZING SEAL | .063" X .500" | POLYOLEFIN FOAM W/ACRYLIC ADHESIVE | 00003787 | ARLON | AS NEEDED |
| CORNER INJECTION SEALANT | - - | SILICONE, 344 BEIGE | 00012297 | CSL | AS NEEDED |
| GLAZING SEALANT | - - | SILICONE, 343 BLACK | 00012297 | CSL | AS NEEDED |
| FRAME CLADDING CORNER KEY | - - | ALUMINUM (5052 HD) | 00010038 | WABANICA | ONE PER CORNER |
| INSULATING GLAZING | - - | - - | 00011085 | - - | ONE PER UNIT |
| GLASS SETTING BLOCK | .188" X 1.063" X 4.000" | SANTOPRENE | 00003521 | GENERAL-WINDOW | AS NEEDED PER GLASS SIZE |
| FOAM PAD | .25" X .75" 1.00" | POLYETHYLENE | 00011224 | CLIMATECH | FOUR PER CORNER |
| SCREW, SELF DRILLING FH TYPE AB/TEK-2 | #7 X .500" | ZINC YELLOW DICHROMATE PLATED STEEL | 00003277 | ARMOUR | FOUR PER CORNER |
| BRAD NAIL, GLAZING STOP | 14 GAUGE X 1.375" | STEEL | - - | PASLODE | EVERY 5" - 8" |
| STAPLE, WOOD FRAME CORNER | 16 GAUGE X 1.500" | STEEL | - - | PASLODE | EIGHT PER CORNER |
| STAPLE, FRAME CLADDING | 18 GAUGE X .500" | STEEL | - - | PASLODE | EVERY 4" - 6" |
| FRAME CLADDING SEALANT | - - | POLISOBUTYLENE AND ISOPRENE POLYMERS | 00011495 | SCHNEE-MOREHEAD | AS NEEDED PER CLAD FRAME MITER |

REVIEWED BY:

Stephen D. Fisher

FLORIDA LICENSE # 47489

S. Fisher
7 Dec '98

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No. 02-0117-01
Expiration Date Oct 19, 2006
By [Signature]
Miami Date Product Control

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

| REV# | DESCRIPTION / REQUESTER | ECN NO | DATE | DRAFTER |
|------|---|--------|----------|----------|
| 1 | REMOVED DWG REFERENCE NOTE / M PEREZ P.E. | N/A | 11/19/98 | CRAIGLEV |
| 0 | SUBMITTED TO P.E. / J HAPKA | N/A | 10/1/98 | 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: CLAD DIRECT-GLAZE PRODUCT: CLAD POLYGON HP | |
| DWG CLASS: CHART | UNSPECIFIED TOLERANCES: DECIMALS: .XX = ±N/A .XXX = ±N/A ANGLE: ±N/A | CHART BILL OF MATERIAL |
| FAB LINEALS: N/A | MATERIAL: N/A SIZE: B DRAWING NO: 00012638 | |
| | SCALE: N/A DATE: 6/22/98 | DRAWN BY: J HAPKA SHEET: 7 OF 9 |

Clad Polygon HP

Shapes and Sizes Approved for Dade County

| Shape** | OSM Width*** | OSM Height | DP of Unit | Masonry Anchor Maximum Spacing, in**** | | | | |
|-----------------------|--------------|------------|------------|--|--------|--------|--------|--------|
| | | | | For Required Design Pressure, +/- | | | | |
| | | | | 50 psf | 60 psf | 70 psf | 80 psf | 90 psf |
| rectangle | 72.0 | 72.0 | 70.0 | 11.5 | 9.5 | 8.0 | -- | -- |
| rectangle* | 60.0 | 72.0 | 77.0 | 12.0 | 10.5 | 9.0 | -- | -- |
| rectangle* | 48.0 | 72.0 | 87.5 | 12.0 | 11.5 | 10.0 | 8.5 | -- |
| rectangle* | 42.0 | 72.0 | 95.0 | 12.0 | 12.0 | 11.0 | 9.5 | 8.5 |
| rectangle | 60.0 | 60.0 | 84.0 | 12.0 | 11.5 | 9.5 | 8.5 | -- |
| rectangle | 53.0 | 53.0 | 95.0 | 12.0 | 12.0 | 11.0 | 9.5 | 8.5 |
| 30-60-90-deg triangle | 101.8 | 44.1 | 95.0 | 12.0 | 12.0 | 12.0 | 12.0 | 12.0 |
| isosceles triangle | 101.8 | 50.9 | 95.0 | 12.0 | 12.0 | 12.0 | 12.0 | 10.5 |
| isosceles triangle | 72.0 | 72.0 | 95.0 | 12.0 | 12.0 | 12.0 | 11.5 | 10.0 |
| equilateral triangle | 74.5 | 64.5 | 95.0 | 12.0 | 12.0 | 12.0 | 12.0 | 10.5 |
| hexagon* | 72.0 | 62.4 | 80.8 | 12.0 | 11.0 | 9.0 | 8.0 | -- |
| hexagon* | 60.0 | 52.0 | 95.0 | 12.0 | 12.0 | 11.0 | 9.5 | 8.5 |
| octagon | 72.0 | 72.0 | 70.0 | 11.0 | 9.5 | 8.0 | -- | -- |
| octagon | 60.0 | 60.0 | 83.9 | 12.0 | 11.0 | 9.5 | 8.5 | -- |
| octagon | 52.0 | 52.0 | 95.0 | 12.0 | 12.0 | 11.0 | 9.5 | 8.5 |

REVIEWED BY:

Stephen D. Fisher

FLORIDA LICENSE # 47489

S. Fisher
7. Dec '98

*OSM width and OSM height may be interchanged.

**For trapezoid and pentagon shapes of given OSM dimensions, consider as rectangles of those OSM dimensions.

***For triangles, also the base dimension.

****In addition to 6 inches from each corner.

NOTE:

1. COMPARATIVE ANALYSIS RESULTS BASED ON RECTANGLE OF OSM SIZE 72 X 72 TESTED AND ACHIEVED DP=+/-70 PSF ACCORDING TO REPORT ATI-15733-N DATED APRIL 20, 1995 AND SIGNED AND SEALED BY ALLEN N. REEVES, P.E.

PRODUCT RENEWED
as complying with the Florida Building Code
Acceptance No 02-0117-01
Expiration Date 06-19-2006
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. 97-0924-05

| REV# | DESCRIPTION / REQUESTER | ECN NO | DATE | DRAFTER |
|------|---|--------|----------|----------|
| 1 | REMOVED DRAWING REFERENCE NOTE 1 & 3 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 | 10/1/98 | J HAPKA |

| | | |
|--|---|---|
| CHECKED BY: STFISHER | WOOD PART DIP SPEC | WARVIN 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. <input type="checkbox"/> NO DIP <input type="checkbox"/> IN PROD. | |
| DWG CLASS: CHART | PRODUCT LINE: CLAD DIRECT-GLAZE | CHART COMPARATIVE ANALYSIS TABLE |
| UNSPECIFIED TOLERANCES: | PRODUCT: CLAD POLYGON HP | |
| DECIMALS: .XX = ±N/A .XXX = ±N/A | ANGLE: ±N/A | DRAWING NO: <u>00012638</u> |
| FAB LINEALS: N/A | MATERIAL: N/A | |
| | SIZE: B | SCALE: N/A |
| | DATE: 6/22/98 | DRAWN BY: J HAPKA |
| | | SHEET: 8 OF 9 |

| 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. POLYGON 72 X 72 UNIT, APPROX. 36 FT², 5.0 MM IG TESTED TO 70 PSF, ATI-15733-N.

REVIEWED BY:

Stephen D. Fisher

FLORIDA LICENSE # 47489

S. Fisher
21 Dec '98

PRODUCT RENEWED
as complying with the Florida
Building Code
Acceptance No 02-0117.01
Expiration Date 02-19-2006
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 97-0924.05

| REV# | DESCRIPTION / REQUESTER | ECN NO | DATE | DRAFTER |
|------|--------------------------------------|--------|----------|----------|
| 1 | REMOVED 3 MM GLASS OPTION / STFISHER | N/A | 12/21/98 | CRAIGLEV |

| | | |
|--|---|--|
| 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, WARROD, MN 56763 WINDOWS & DOORS (218) 386-1430 FAX 386-1913 |
| APPROVED DATE: 12/21/98 | PRODUCT LINE: CLAD DIRECT-GLAZE | |
| DWG CLASS: CHART | PRODUCT: CLAD POLYGON HP | |
| UNSPECIFIED TOLERANCES: | CHART GLASS TYPE, THICKNESS, AND MAXIMUM UNIT SIZE (ft ²). | |
| DECIMALS: .XX = ±N/A .XXX = ±N/A | ANGLE: ±N/A | MATERIAL: N/A |
| FAB LINEALS: N/A | SIZE: B | DRAWING NO: 00012638 |
| | SCALE: 1:1 | DATE: 11/19/20 |
| | | DRAWN BY: CRAIGLEV |
| | | SHEET: 9 OF 9 |