



MIAMI-DADE COUNTY, FLORIDA
 METRO-DADE FLAGLER BUILDING
 140 WEST FLAGLER STREET, SUITE 1603
 MIAMI, FLORIDA 33130-1563
 (305) 375-2901 FAX (305) 372-6339
www.miamidade.gov/buildingcode

**BUILDING CODE COMPLIANCE OFFICE (BCCO)
 PRODUCT CONTROL DIVISION
 NOTICE OF ACCEPTANCE (NOA)**

**Marvin Windows and Doors
 Highway 11 West
 P. O. Box 100
 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 Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION:

Series "Clad Direct Glazed Storm Plus IZ4" Aluminum Clad Wood Fixed Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 1539, titled "Series Clad Direct Glaze Impact HP", sheets 1 through 4 of 4, dated 06/17/2007, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 10/08/2007 signed and sealed by Warren W. Schaefer, P.E., bearing 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.

MISSILE IMPACT RATING: Large 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 and renews** NOA No. 05-0815.08, consists of this page 1 and evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

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



*J. Gascon
 10/19/07*

NOA No. 07-0924.01
 Expiration Date: November 30, 2012
 Approval Date: November 08, 2007
 Page 1

Marvin Windows and Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **1539**, titled "Series Clad Direct Glaze Impact HP", sheets 1 through 4 of 4, dated 06/17/2007, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 10/08/2007, signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 3) Water Resistance Test, per FBC, TAS 202-94
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94

along with marked-up drawings and installation diagram, prepared by Architectural Testing, Inc., Test Report No. **ATI-73561.01-201-18**, dated 06/21/2007, signed and sealed by Joseph A. Reed, P.E.

2. Test reports on
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading erFBC,TAS 202-94.
 - 3) Water Resistance Test, per FBC, TAS 202-94.
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with installation diagram of 6072 Clad Direct Set window, prepared by Architectural Testing Inc., test report No. **ATI-02-31929.01**, dated 01/11/2000, and addendum letter dated 21 Sept. 20000, signed and sealed by Allen N. Reeves, P.E
"Submitted under NOA# 05-0815.08"

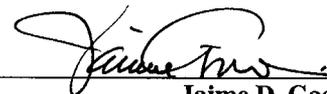
3. Test reports on
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test,Loading perFBC,TAS 202-94.
 - 3) Water Resistance Test, per FBC, TAS 202-94.
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with installation diagram of 4872 Clad Direct Set window, prepared by Architectural Testing Inc., test report No. **ATI-02-31930.01**, dated 01/11/2000, and addendum letter dated 21 Sept. 20000, signed and sealed by Allen N. Reeves, P.E
"Submitted under NOA# 05-0815.08"

4. Test reports on
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test,Loading perFBC,TAS 202-94.
 - 3) Water Resistance Test, per FBC, TAS202-94.
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94

along with installation diagram of a wood fixed window prepared by Fenestration Testing Laboratory, test report No. **FTL-2240**, dated 02/26/99, signed and sealed by Gilbert Diamond, P.E.

"Submitted under NOA# 05-0815.08"



Jaime D. Gascon, P.E.

Chief, Product Control Division

NOA No. 07-0924.01

Expiration Date: November 30, 2012

Approval Date: November 08, 2007

Marvin Windows & Doors

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (Continuous)

5. Test reports on
 - 1) Large Missile Impact Test per FBC, TAS 201-94
 - 2) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with installation diagram of an octagon wood fixed window prepared by Fenestration Testing Laboratory, Inc. Test report No. **FTL-2239**, dated February 12, 1999, signed and sealed by Gilbert Diamond, P.E.
“Submitted under NOA# 05-0815.08”
6. Test reports on
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94.
 - 3) Water Resistance Test, per FBC, TAS 202-94.
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with installation diagram of a wood arch fixed window prepared by Fenestration Testing Laboratory, Test report No. **FTL-2238**, dated 02/12/99, signed and sealed by Gilbert Diamond, P.E
“Submitted under NOA# 05-0815.08”
7. Test reports on
 - 1) Air Infiltration Test, per FBC, TAS 202-94
 - 2) Uniform Static Air Pressure Test, Loading per FBC, TAS 202-94.
 - 3) Water Resistance Test, per FBC, TAS 202-94.
 - 4) Large Missile Impact Test per FBC, TAS 201-94
 - 5) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with installation diagram of a wood fixed window prepared by Fenestration Testing Laboratory, test report No. **FTL-2234**, dated 02/12/99, signed and sealed by Gilbert Diamond, P.E
“Submitted under NOA# 05-0815.08”

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004, prepared by prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 06/26/2007 signed and sealed by Warren W. Schaefer, P.E.
Complies with ASTM E1300 - 02

D. QUALITY ASSURANCE

1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **06-1205.10** issued to E.I. DuPont DeNemours Nemours & CO., Inc. for “**DuPont Sentry Glass Plus**” dated February 15, 2007, expiring on January 14, 2008.

F. STATEMENTS

1. Statement letter of conformance, dated 09/05/2007, signed and sealed by Warren W. Schaefer, P.E.


Jaime D. Gascon, P.E.

Chief, Product Control Division
NOA No. 07-0924.01

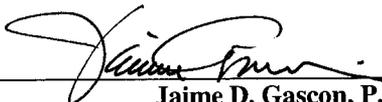
Expiration Date: November 30, 2012
Approval Date: November 08, 2007

Marvin Windows & Doors

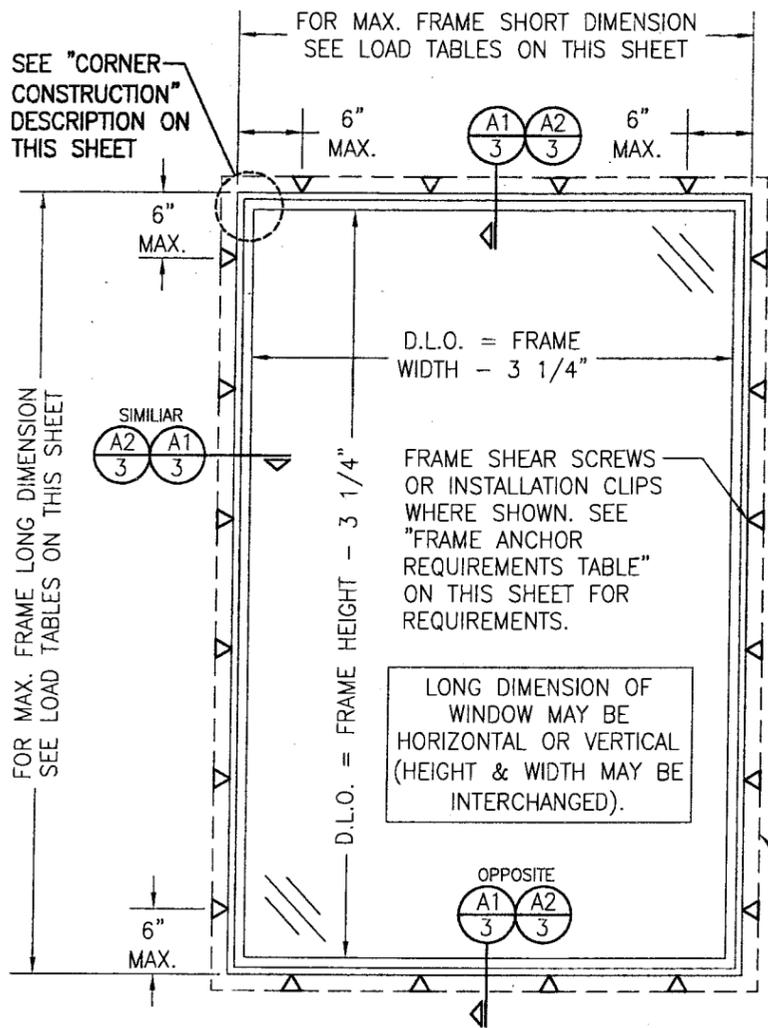
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER

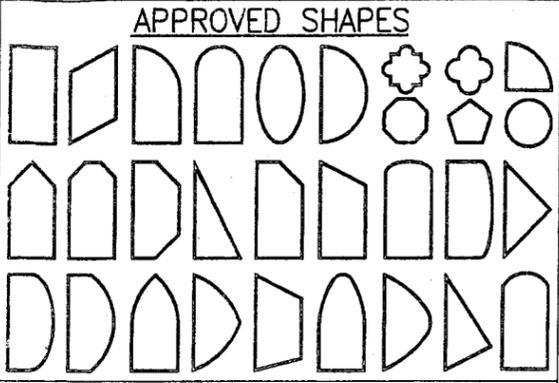
1. Notice of Acceptance No. **05-0815.08**, issued to **Marvin Windows and Doors** for their "Series Clad Direct Glaze Impact HP", approved on April 26, 2006 and expiring on November 30, 2007.



Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No. 07-0924.01
Expiration Date: November 30, 2012
Approval Date: November 08, 2007



EXTERIOR ELEVATION; SINGLE WINDOW
SCALE: N.T.S.



NOTES:
1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED ON THIS SHEET.
2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.

RECTANGULAR WINDOWS SHOWN. ANCHORING OF SHAPED WINDOWS IS THE SAME WITH REQUIRED ANCHOR SPACING ALONG THE FRAME CIRCUMFERENCE BEING THE SAME AS SPECIFIED FOR A STRAIGHT FRAME.

ALLOWABLE SINGLE WINDOW DESIGN PRESSURE			
MAXIMUM FRAME LONG DIMENSION (IN.)	MAXIMUM FRAME SHORT DIMENSION (IN.)	ALLOWABLE PRESSURE (POS. & NEG. PSF)	
		GLASS OPTION 1	GLASS OPTION 2
144	50	54.6	75.0
	48	58.2	75.0
	42	75.0	75.0
132	24	95.0	95.0
	54	52.2	75.0
	48	60.4	75.0
120	42	74.9	75.0
	36	75.0	75.0
	26	95.0	95.0
108	60	50.3	75.0
	54	56.3	75.0
	48	63.6	75.0
96	42	75.0	75.0
	28	95.0	95.0
	60	55.9	75.0
90	54	61.5	75.0
	48	69.8	75.0
	42	75.0	75.0
84	32	95.0	95.0
	60	63.7	75.0
	54	69.7	75.0
78	48	75.0	75.0
	36	95.0	95.0
	60	68.9	75.0
72	54	74.4	75.0
	48	75.0	75.0
	38	95.0	95.0
66	60	73.1	75.0
	54	75.0	75.0
	41	95.0	95.0
60	60	75.0	75.0
	44	95.0	95.0
	72	74.6	75.0
58	66	75.0	75.0
	48	95.0	95.0
	66	75.0	75.0
58	66	75.0	75.0
	52	95.0	95.0
58	60	75.0	75.0
	57	95.0	95.0
58	60	75.0	75.0
	58	95.0	95.0

NOTES:
1. SEE GLAZING DETAILS FOR GLASS OPTIONS
2. CROSSED OUT BOXES DESIGNATE SIZES NOT ACCEPTABLE FOR THE RESPECTIVE GLASS OPTION.

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SHEAR SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 SELF TAP/DRILLING SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
INSTALLATION CLIP			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	1/2"
MIN. 18 GA. 33 KSI METAL STUD	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 SELF TAP/DRILLING SCREW	FULL	1/2"

(1) CONCRETE SCREWS SHALL BE ELCO OR ITW RAMSET/RED HEAD TAPCONS, HILTI KWIK-CON II OR POWERS RAWL TAPPER (HARDENED STEEL OR S.S.).

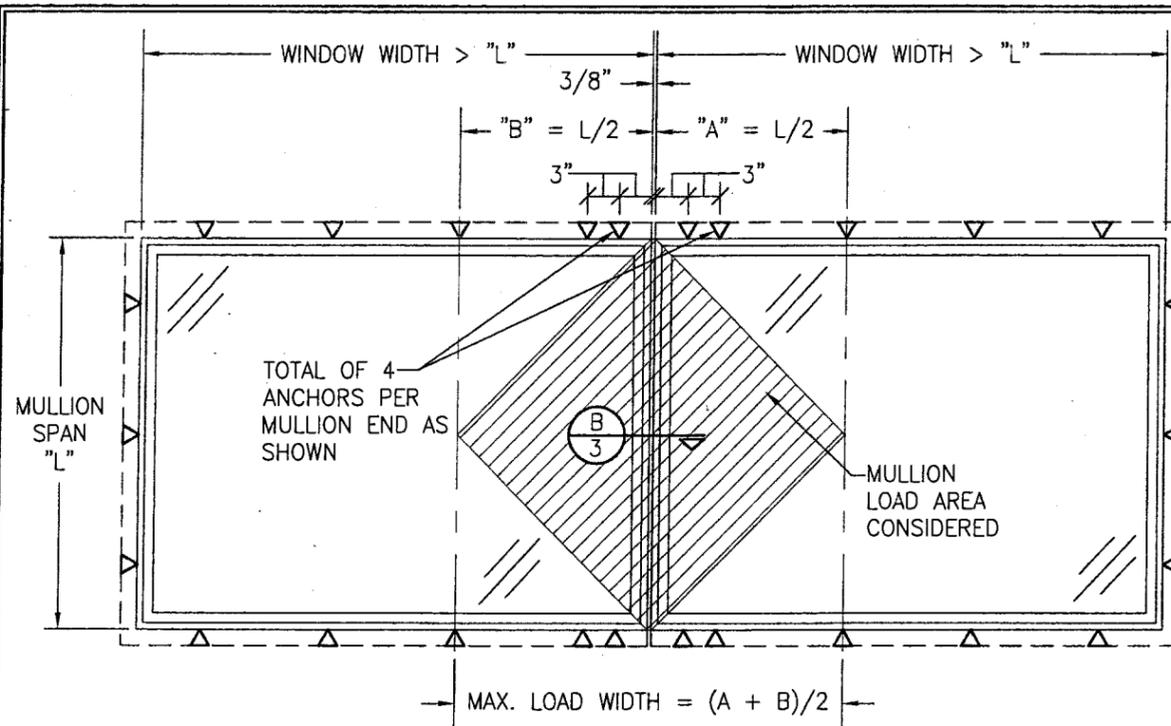
CORNER CONSTRUCTION

JAMB CORNERS: WOOD MEMBERS ARE SQUARE CUT, BUTTED TOGETHER, & JOINED WITH FOUR(4) NO. 7 X 2" SMS SCREWS AND SEALED WITH SM 8500 SEALANT.
CLAD CORNERS: CLAD MEMBERS ARE MITER CUT, JOINED WITH A CORNER KEY AND FOUR(4) NO. 7 X 1 1/2" SCREWS & SEALED WITH A FOAM SEALANT.

GENERAL NOTES

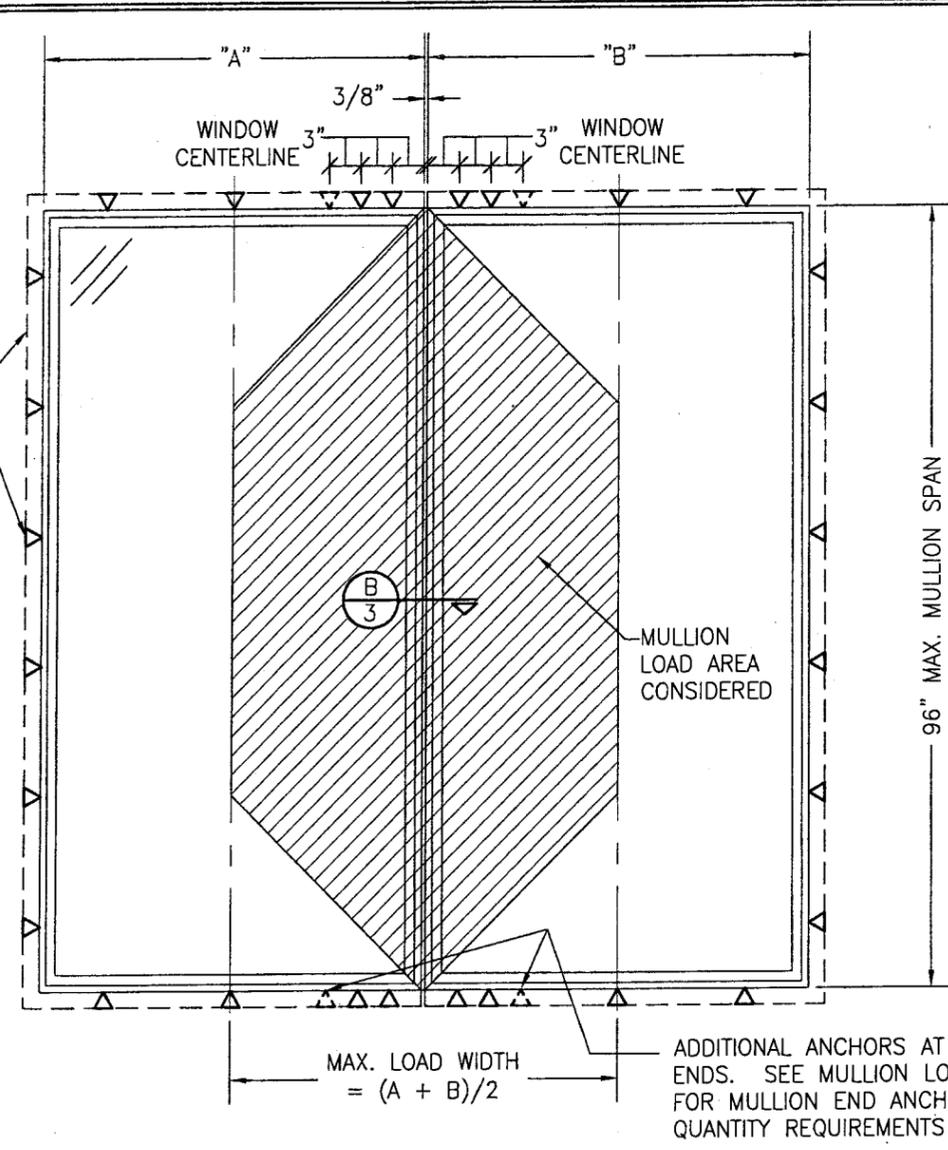
1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOADS" TABLE(S).
2. BUCKING, OPENINGS & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE 2004 FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SHALL BE INSTALLED AS SPECIFIED ON THESE DRAWINGS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
8. ALL FRAME ANCHORS SECURING WINDOW/DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
9. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF 2004 FLORIDA BUILDING CODE SECTION 2003.8.4.

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=15	DATE: 06/17/07
DATE	BY
REVISION DESCRIPTION	NO.
CLAD DIRECT GLAZE IMPACT HP	
MANUFACTURER MARVIN WINDOWS & DOORS HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
DRAWING TITLE	
CERTIFICATION OCT 08 2007 as complying with the Florida Building Code Acceptance No 07-092401 Expiration Date 11/30/2012 By Warren W. Schaefer, P.E. Miami Dade Product Control Division	
DRAWING NO. 1539	REV.
SHEET NO. 1 OF 4	



FIXED WINDOW TO FIXED WINDOW WHEN WINDOW WIDTHS ARE GREATER THAN THE MULLION LENGTH (SEE MULLION LOAD TABLE)

SEE SINGLE WINDOW ELEVATION FOR WINDOW DETAIL NOT SHOWN



FIXED WINDOW TO FIXED WINDOW WHEN WINDOW WIDTHS ARE LESS THAN OR EQUAL TO THE MULLION LENGTH (SEE MULLION LOAD TABLE)

SCALE: N.T.S.

SEE SINGLE WINDOW ELEVATION FOR WINDOW DETAIL NOT SHOWN

MULLION ALLOWABLE LOAD TABLE							
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (POS. & NEG. PSF)		MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (POS. & NEG. PSF)	
		4 END ANCHORS	6 END ANCHORS			4 END ANCHORS	6 END ANCHORS
96	60	41.9	57.6	78	60	57.6	85.8
	54	44.5	61.9		54	60.2	89.7
	48	48.0	68.7		48	64.0	95.0
	42	52.7	76.8		42	69.3	95.0
	36	59.1	88.0		36	76.8	95.0
	30	68.3	95.0		30	87.8	95.0
	24	82.3	95.0		24	95.0	95.0
	18	95.0	95.0		24	95.0	95.0
90	60	46.1	67.0	72	72	64.0	95.0
	54	48.8	71.9		66	64.4	95.0
	48	52.4	78.0		60	65.8	95.0
	42	57.2	85.3		54	68.3	95.0
	36	64.0	95.0		48	72.0	95.0
	30	73.7	95.0		42	77.4	95.0
	24	88.6	95.0		36	85.3	95.0
	18	95.0	95.0		30	95.0	95.0
84	60	51.2	76.3	66	66	76.2	95.0
	54	53.9	80.3		60	76.8	95.0
	48	57.6	85.8		54	78.8	95.0
	42	62.7	93.4		48	82.3	95.0
	36	69.8	95.0		42	87.8	95.0
	30	80.1	95.0		36	95.0	95.0
	24	95.0	95.0		30	95.0	95.0
					24	95.0	95.0
			60	60	92.2	95.0	
			54	54	93.1	95.0	
			48	48	95.0	95.0	
			54	54	95.0	95.0	

LESSER OF THE PRESSURE SHOWN IN THIS TABLE & THAT ALLOWED FOR THE INDIVIDUAL WINDOW SHALL CONTROL AS ALLOWABLE FOR THE OVERALL UNIT.

MULTIPLE UNIT NOTES:

- ALL WINDOWS ARE RESTRICTED BY THE DIMENSIONS SPECIFIED.
- THE MAXIMUM ALLOWABLE PRESSURE FOR A COMBINED UNIT IS RESTRICTED BY THE LESSER OF THE INDIVIDUAL WINDOW ALLOWABLE PRESSURE OR THE ALLOWABLE MULLION PRESSURE. SEE LOAD TABLES ON SHEET 1 & 2.
- WINDOWS MAY BE STACKED HORIZONTAL OR VERTICAL. IF VERTICALLY STACKED, MANUFACTURER MUST INSURE THAT THE DEAD WEIGHT OF THE WINDOWS DOES NOT CAUSE ANY WINDOW FAILURES OR DEFORMATIONS.
- NUMBER OF WINDOWS IN ONE OPENING IS NOT RESTRICTED PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLIONS.

DRAWN BY: W.R.M. CHECKED BY: W.W.S.
 PLOT: 1=16 DATE: 06/17/07

NO.	REVISION DESCRIPTION	BY	DATE

CLAD DIRECT GLAZE IMPACT HP

MANUFACTURER
MARVIN WINDOWS & DOORS
 HIGHWAY 11; P.O. BOX 100
 WARROAD, MN 56763
 800-346-5044

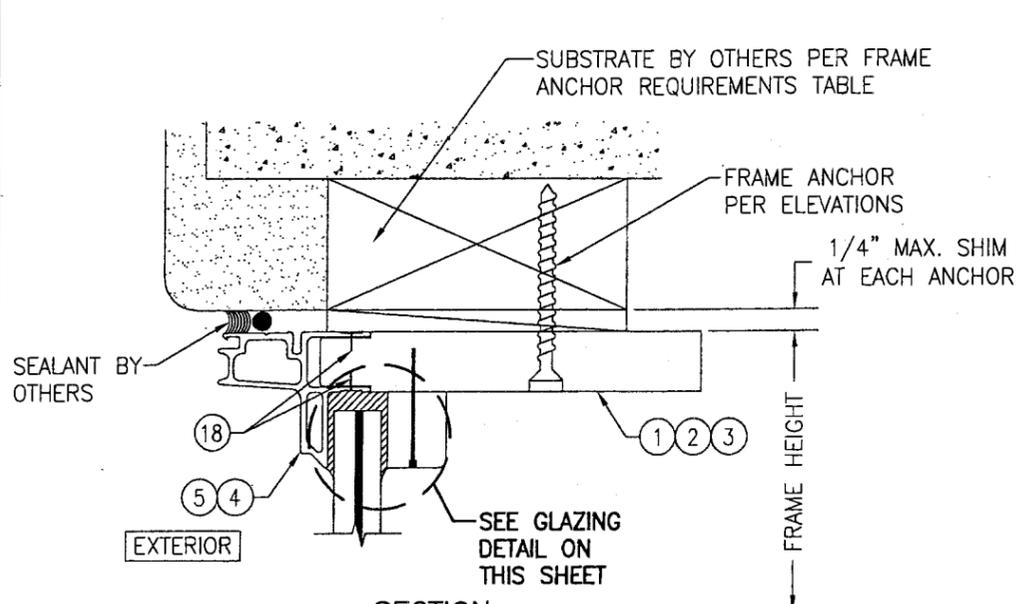
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
 8895 N. MILITARY TRAIL, SUITE C-204
 PALM BEACH GARDENS, FL 33410
 PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION
OCT 03 2007
 WARREN W. SCHAEFER, P.E.
 P.E. NO. 44135

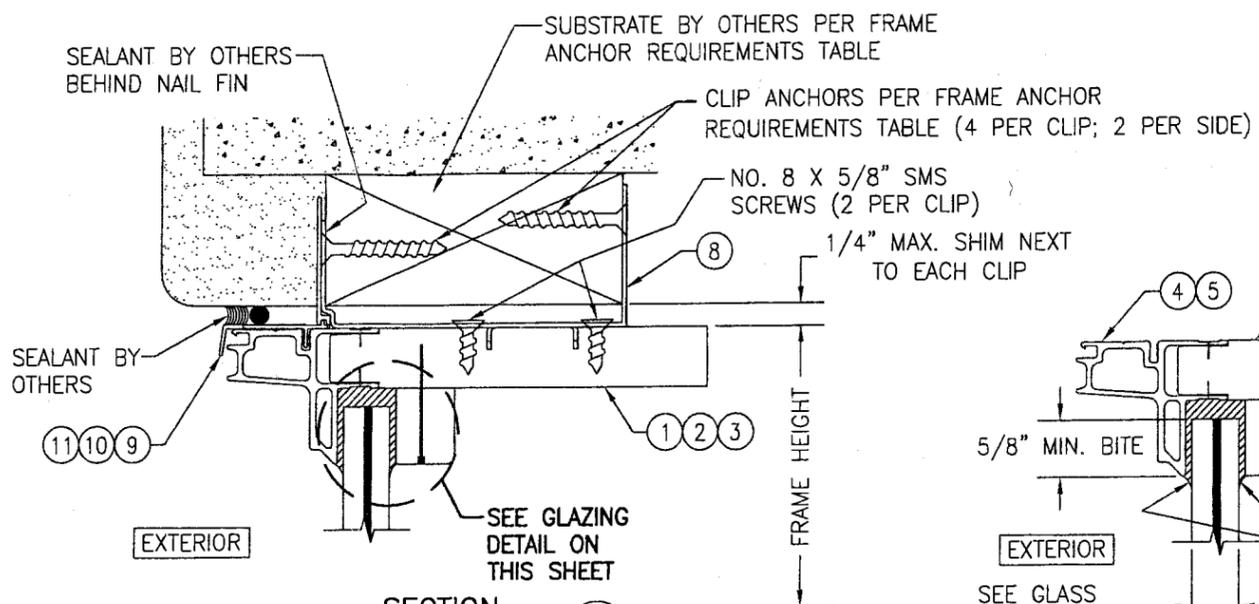
PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No. 07-0924-01
 Expiration Date 11/30/2012

By *[Signature]*
 Miami Dade Product Control Division

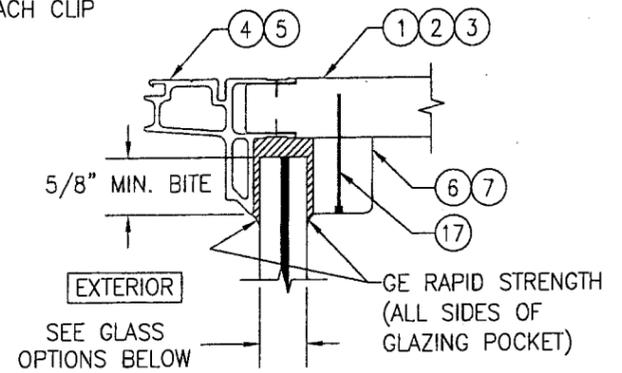
DRAWING NO. 1539
 SHEET NO. 2 OF 4



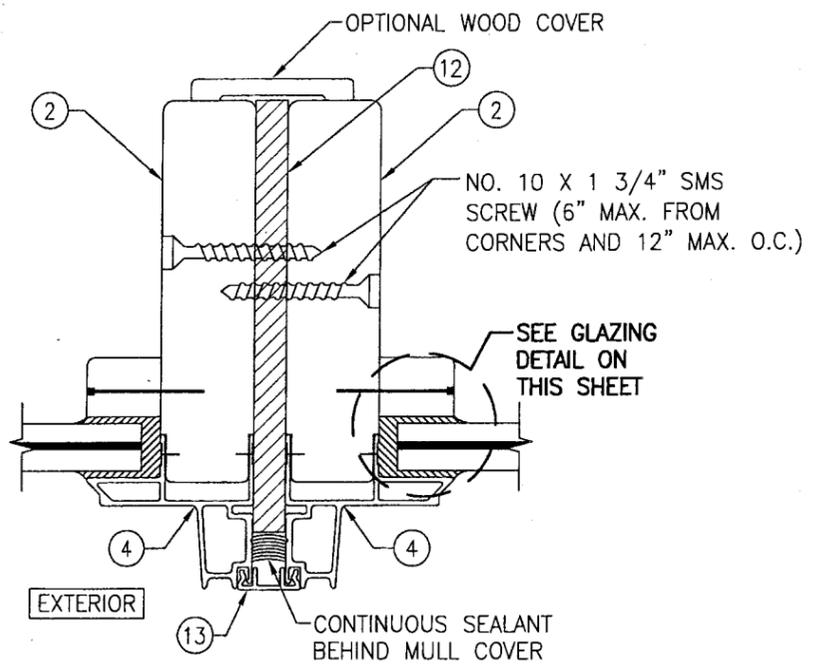
SECTION A1
 SCALE: 1/2 FULL
 (SHEAR SCREW INSTALLATION)
 (HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)



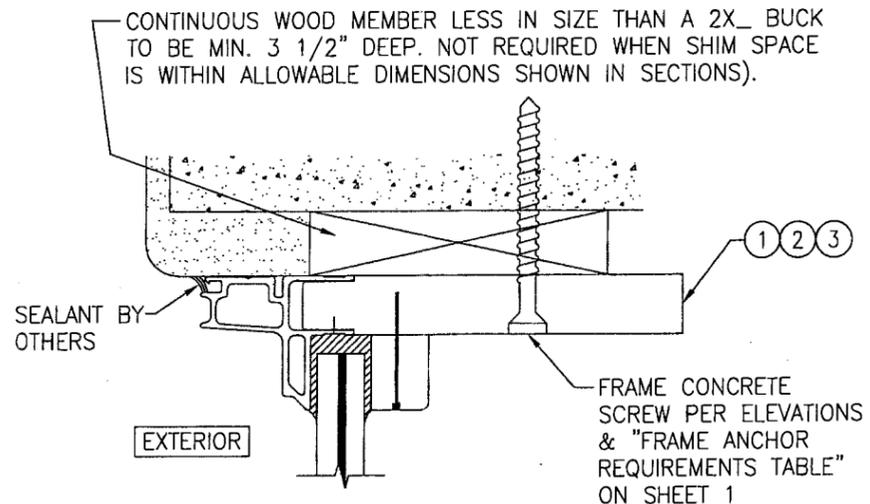
SECTION A2
 SCALE: 1/2 FULL
 (CLIP MOUNT INSTALLATION)
 (FOR DETAIL NOT SHOWN SEE DETAIL A1/3)
 (HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)



TYPICAL GLAZING DETAIL
 GLASS OPTION 1: 9/16" THICK DUPONT LAMINATED GLASS (1/4" AN./0.09" DUPONT SGP/1/4" AN.)
 GLASS OPTION 2: 9/16" THICK DUPONT LAMINATED GLASS (1/4" HT.ST./0.09" DUPONT SGP/1/4" HT.ST.)



SECTION B
 SCALE: 1/2 FULL
 (FOR DETAIL NOT SHOWN SEE DETAIL A1/3)

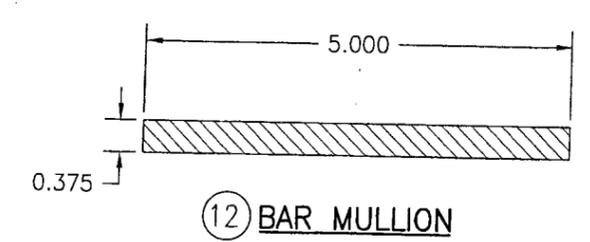
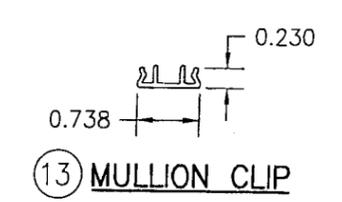
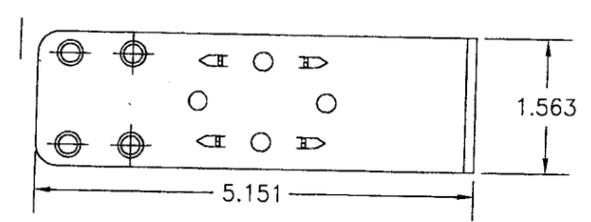
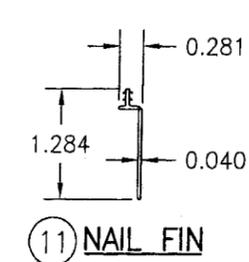
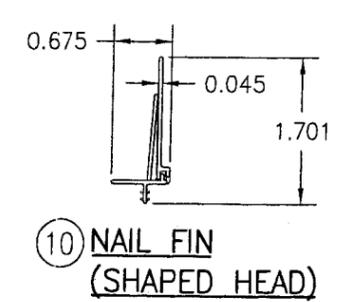
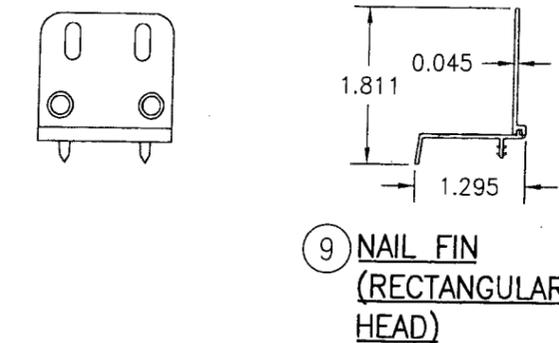
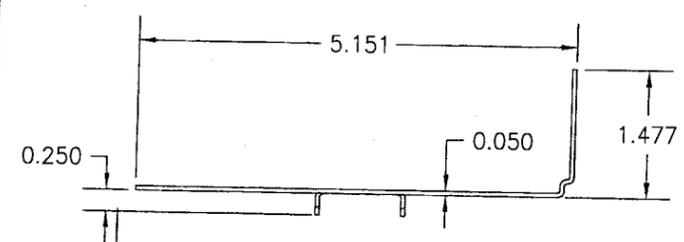
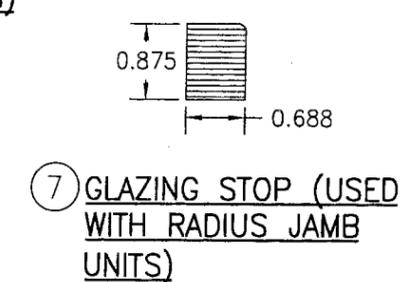
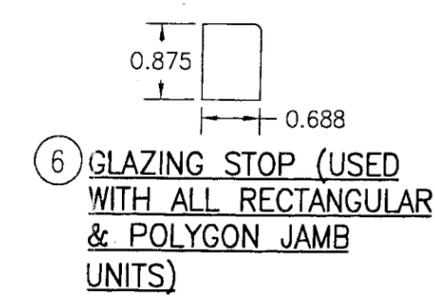
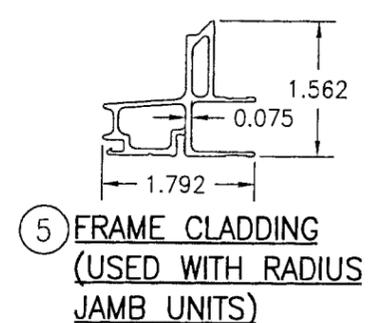
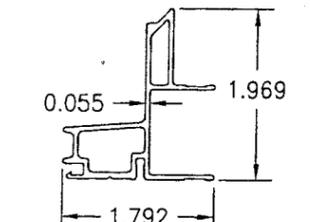
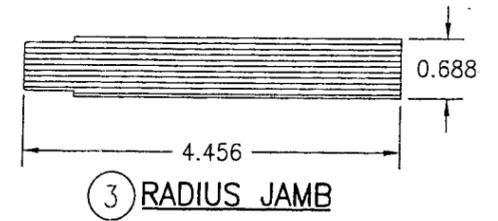
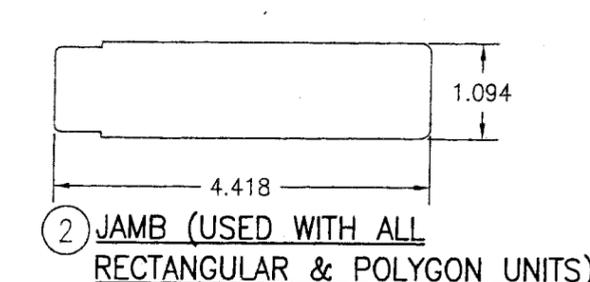
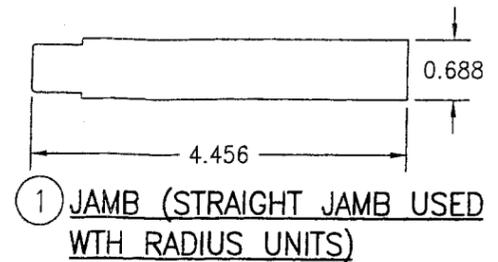


OPTIONAL DIRECT MOUNT DETAIL TO BLOCK OR CONCRETE WITH SPACER OR SHIM
 (HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 06/17/07	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: CLAD DIRECT GLAZE IMPACT HP			
MANUFACTURER MARVIN WINDOWS & DOORS HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903			
CERTIFICATION OCT 08 2007 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1539		REV.	
SHEET NO. 3		OF 4	

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No 07-0924.01
 Expiration Date 11/30/2012
 By *[Signature]*
 Miami Dade Product Control? Division

ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	00011225	JAMB (STRAIGHT JAMB USED WTH RADIUS UNITS)	PINE
2	00011050	JAMB (USED WITH ALL RECTANGULAR & POLYGON UNITS)	PINE
3	-	RADIUS JAMB	LAMINATED PINE
4	00001210	FRAME CLADDING (USED WITH ALL RECTANGULAR & POLYGON JAMB UNITS)	6063-T5 ALUMINUM
5	00011209	FRAME CLADDING (USED WITH RADIUS JAMB UNITS)	6063-T5 ALUMINUM
6	00007080	GLAZING STOP (USED WITH ALL RECTANGULAR & POLYGON JAMB UNITS)	PINE
7	-	GLAZING STOP (USED WITH RADIUS JAMB UNITS)	LAMINATED PINE
8	00036080	GALVANIZED STEEL C-CLIP (FY=50 KSI)	1 1/2" WIDE X 6 1/2" LONG X .050" THK
9	-	NAILING FIN (RECTANGULAR HEAD)	6063-T5 ALUMINUM
10	-	NAILING FIN (SHAPED HEAD)	6063-T5 ALUMINUM
11	-	NAILING FIN (SIDES & SILL)	6063-T5 ALUMINUM
12	-	BAR MULLION	6061-T6 ALUMINUM
13	-	MULLION CLIP	6063-T5 ALUMINUM
MISC. FASTENERS			
17	V084	F-14 X 1 3/8" BRAD NAIL	3" FROM CORNERS & MAX. 8" O.C.
18	V084	GSN 18 X 1/2" S.S. STAPLE	3" FROM CORNERS & MAX. 6" O.C.



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CONSULTANTS		MANUFACTURER	
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8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		HIGHWAY 11; P.O. BOX 100 WARROAD, MN 56763 800-346-5044	
CERTIFICATION		P.E.	
OCT 08 2007		WARREN W. SCHAEFER, P.E.	
By: <i>[Signature]</i>		P.E. NO. 44135	
PRODUCT REVISED as complying with the Florida Building Code		DRAWING NO. 1539	
Acceptance No 07-0924.01		SHEET NO. 4 OF 4	
Expiration Date 11/30/2012		Division	
Miami Dade Product Control			

PRODUCT REVISED as complying with the Florida Building Code
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 Miami Dade Product Control
 Division