



MIAMI-DADE COUNTY
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) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

Weather Shield Manufacturing, Inc.
One Weather Shield Plaza
Medford, WI 54451

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 "1206 Casement" Aluminum Clad Wood Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **1584**, titled "1206 Aluminum Clad Wood Impact Fixed Casement Window", sheets 1 through 7 of 7, dated 02/04/09 prepared by W.W. Schaefer Engineering & Consulting, P.A., 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 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 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 **Manuel Perez, P.E.**



NOA No. 09-0326.03
Expiration Date: July 1, 2014
Approval Date: July 1, 2009
 Page 1

Weather Shield Manufacturing, Inc.

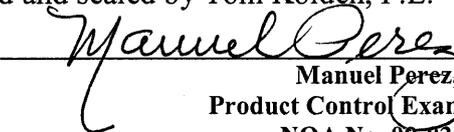
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **1584**, Sheets 1 through 7 of 7, titled "1206 Aluminum Clad Wood Impact Fixed Casement Window" dated 02/04/09, prepared by W.W. Schaefer Engineering & Consulting, P.A., 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 203-94along with marked-up drawings and installation diagram of alum. clad wood casement and fixed window, prepared by Stork Twin City Testing Corporation, Test Report No. **TCTCW-180-7778.1A** dated 12/09/08, signed and sealed by Tom Kolden, P.E.
2. 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 marked-up drawings and installation diagram of alum. clad wood casement and fixed window, prepared by Stork Twin City Testing Corporation, Test Report No. **TCTCW-180-7778.2A**, dated 12/09/08, signed and sealed by Tom Kolden, P.E.
3. 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 marked-up drawings and installation diagram of alum. clad wood fixed casement window, prepared by Stork Twin City Testing Corporation, Test Report No. **TCTCW-180-7779.3A**, dated 12/11/08, signed and sealed by Tom Kolden, P.E.
4. 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 marked-up drawings and installation diagram of aluminum clad wood fixed casement window, prepared by Stork Twin City Testing Corporation, Test Report No. **TCTCW-180-7779.4A** dated 12/11/08, signed and sealed by Tom Kolden, P.E.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 09-0326.03
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B. TESTS (CONTINUED)

5. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of aluminum clad wood fixed casement window, prepared by Stork Twin City Testing Corporation, Test Report No. **TCTCW-180-7779.5A**, dated 12/11/08, signed and sealed by Tom Kolden, P.E.
6. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of aluminum clad wood fixed casement window, prepared by Stork Twin City Testing Corporation, Test Report No. **TCTCW-180-7779.6A**, dated 12/11/08, signed and sealed by Tom Kolden, P.E.
7. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of aluminum clad wood fixed casement window, prepared by Stork Twin City Testing Corporation, Test Report No. **TCTCW-180-7779.7A**, dated 12/11/08, signed and sealed by Tom Kolden, P.E.
8. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of aluminum clad wood fixed casement window, prepared by Stork Twin City Testing Corporation, Test Report No. **TCTCW-180-7779.11A**, dated 12/11/08, signed and sealed by Tom Kolden, P.E.

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by W.W. Schaefer Engineering & Consulting, dated 02/20/09, signed and sealed by Warren W. Schaefer, P.E.
Complies with ASTM E1300-04

D. QUALITY ASSURANCE

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


Manuel Perez, P.E.
Product Control Examiner
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E. MATERIAL CERTIFICATIONS

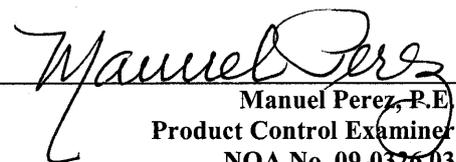
1. Notice of Acceptance No. **09-0312.03** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Sentry Glass® Interlayer**" dated 05/13/09, expiring on 01/14/12.
2. Notice of Acceptance No. **06-0216.06** issued to Solutia Inc. for their "**Saflex IIIG Clear or colored interlayer**" dated 05/04/06, expiring on 05/21/11.

F. STATEMENTS

1. Statement letter of conformance, dated February 21, 2009, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest, dated February 21, 2009, signed and sealed by Warren W. Schaefer, P.E.
3. Proposal File #**07-2333**, approval date September 12th, 2007, signed by Manuel Perez, P.E., Plan Examiner, Building Code Compliance Office.

G. OTHERS

1. None.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 09-0326.03

Expiration Date: July 1, 2014
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GENERAL NOTES:

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S).
2. OPENINGS, BUCKING & 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. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
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 FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE WINDOWS.
7. ALL ANCHORS SECURING WINDOW FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ MAY BE APPLIED WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTION 2.0 OF THE ASCE 7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
11. ALL WOOD MEMBERS OF WINDOWS THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC SECTION 2326.

CORNER CONSTRUCTION:

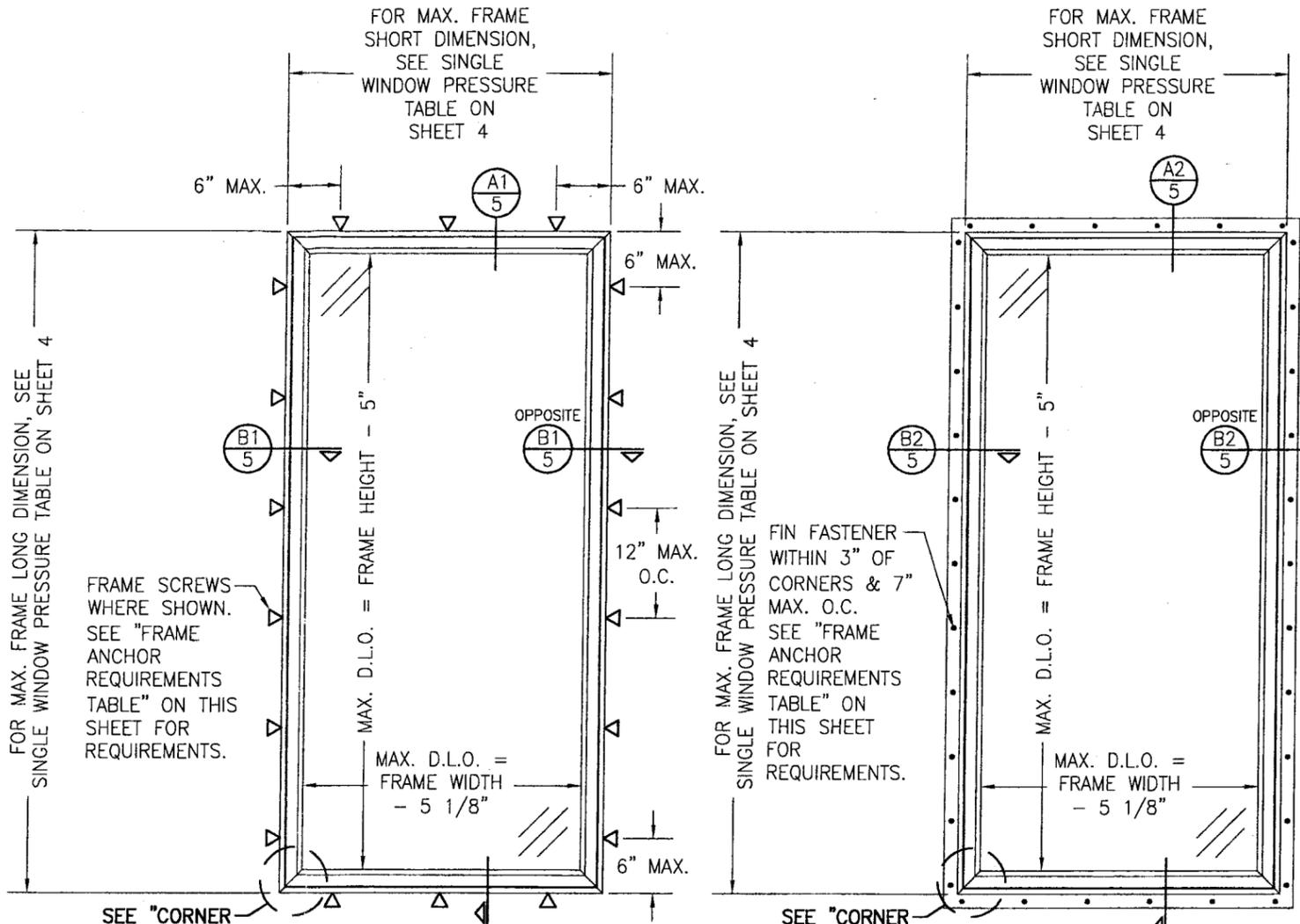
FRAME HEAD: THE SIDE WOOD MEMBERS ARE RABBETED & BUTTED TO THE HEAD MEMBER, SECURED WITH TWO(2) 18 GA. 7/16 X 1 3/4" STAPLES THROUGH THE HEAD INTO THE JAMB & ONE(1) 18 GA. 7/16 X 1 3/4" STAPLE THROUGH THE JAMB INTO THE HEAD.

FRAME SILL: THE SIDE WOOD MEMBERS ARE RABBETED & BUTTED TO THE SILL MEMBER, SECURED WITH TWO(2) 18 GA. 7/16 X 1 3/4" STAPLES & ONE(1) NO. 6 X 1 5/8" THROUGH THE SILL INTO THE JAMB & ONE(1) 18 GA. 7/16 X 1 3/4" STAPLE THROUGH THE JAMB INTO THE SILL. CORNERS ARE SEALED WITH A GASKET.

SASH: MEMBERS ARE MORTISED & TENONED AND SECURED WITH TWO(2) NO. 8 X 2 1/2" PFH SS SMS SCREW THROUGH THE RAIL INTO THE STILE.

FRAME CLAD: MEMBERS ARE MITERED TOGETHER & JOINED WITH A CORNER KEY PART NO. 16 WITH A NO. 6 X 1 1/4" PFH SS SMS SCREW.

SASH CLAD: MEMBERS ARE MITERED TOGETHER & SECURED WITH ONE(1) NO. 6 X 1 3/4" SMS SCREW.



**EXTERIOR ELEVATION:
SINGLE FIXED WINDOW
(FRAME SCREW MOUNT CONDITION)**
SCALE: 3/4" = 1'-0"

**EXTERIOR ELEVATION:
SINGLE FIXED WINDOW
(FIN MOUNT CONDITION)**
SCALE: 3/4" = 1'-0"

ALLOWABLE DESIGN PRESSURE
SEE PRESSURE TABLE ON SHEET 4

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME 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 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"

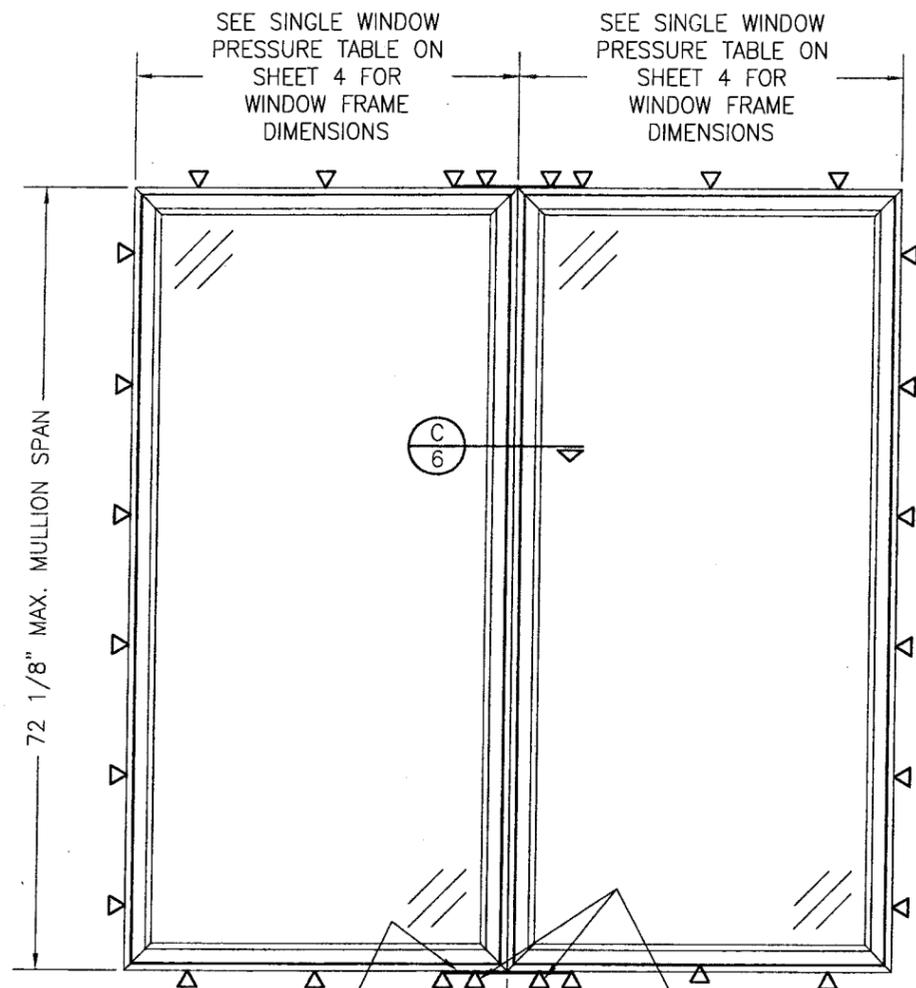
(2) NAILING FIN FASTENERS

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
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. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

- (1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ITW RAMSET/RED HEAD TAPCONS, HILTI KWIK-CON II OR POWERS RAWL TAPPER (HARDENED STEEL OR S.S.).
- (2) WHEN SCREWS ARE USED WITH THE NAIL FIN, THEY MUST BE A WAFFLE HEAD SCREW OR HAVE A FLAT WASHER AT THE SCREW HEAD.

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1-16		DATE: 02/04/09	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE			
1206 ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW			
CONSULTANTS		MANUFACTURER	
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		WEATHER SHIELD WINDOWS & DOORS ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555	
CERTIFICATION			
MAR 23 2009			
Approved as complying with the Florida Building Code Date: JULY 1, 2009 NOA# 09-0326.03 Miami Dade Product Control Division By: <i>Mmanuel Perez</i>			
DRAWING NO. 1584		REV.	
SHEET NO. 1		OF 7	

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 02/04/09
NO.	DATE
REVISION DESCRIPTION	BY



0.021" X 2" X 12" GALVANIZED MULLION END REINFORCEMENT PLATE AT EACH MULLION END LOCATION. SECURED TO EACH JAMB WITH FIVE(5) 16 GA. X 7/16" X 1/2" LONG STAPLES.

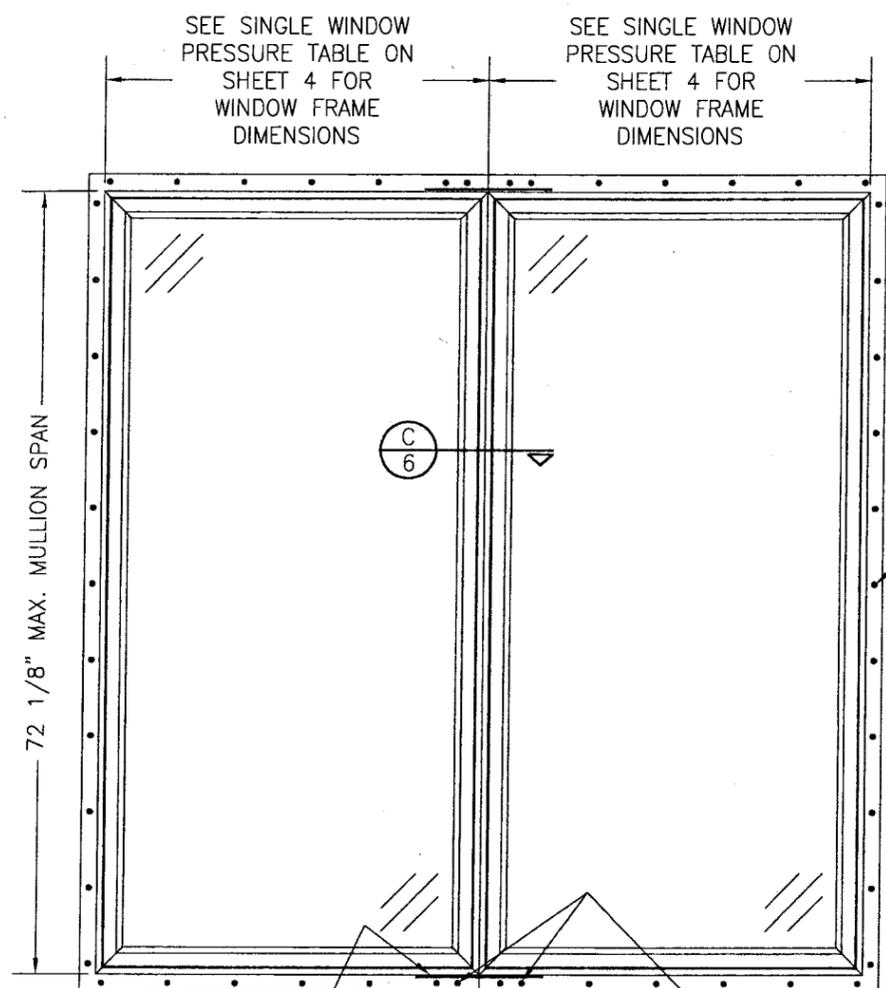
**EXTERIOR ELEVATION:
MULTIPLE FIXED WINDOWS
(FRAME SCREW MOUNT CONDITION)**
SCALE: 3/4" = 1'-0"

**ALLOWABLE DESIGN PRESSURE
(DOUBLE WINDOW WITH TRANSOM)**
ALLOWABLE PRESSURE ON MULLED UNITS SHALL BE RESTRICTED BY THE ALLOWABLE PRESSURE ON THE INDIVIDUAL WINDOWS WITHIN THE MULLED UNIT. SEE SINGLE WINDOW PRESSURE TABLE ON SHEET 4 FOR ALLOWABLE PRESSURES.

ADDITIONAL FRAME SCREWS WHERE SHOWN AT MULLION ENDS. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

MULTIPLE UNIT NOTES:

1. FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATIONS.
2. MULLION MAY BE HORIZONTAL OR VERTICAL PROVIDING UNIT SIZES ARE RESTRICTED AS SHOWN IN THIS ELEVATION.
3. IF VERTICALLY STACKED, THE MANUFACTURER SHALL INSURE THAT THE DEAD LOAD WEIGHT OF THE WINDOWS CAN NOT CAUSE UNDO FAILURE.
4. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLIONS.
5. INDIVIDUAL WINDOW SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE WINDOW ELEVATIONS.



0.021" X 2" X 12" GALVANIZED MULLION END REINFORCEMENT PLATE AT EACH MULLION END LOCATION. SECURED TO EACH JAMB WITH FIVE(5) 16 GA. X 7/16" X 1/2" LONG STAPLES.

**EXTERIOR ELEVATION:
MULTIPLE FIXED WINDOWS
(FIN MOUNT CONDITION)**
SCALE: 3/4" = 1'-0"

CLUSTER FIN FASTENERS AT MULLION ENDS SUCH THAT THERE ARE A TOTAL OF 4 POSITIONED AS SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

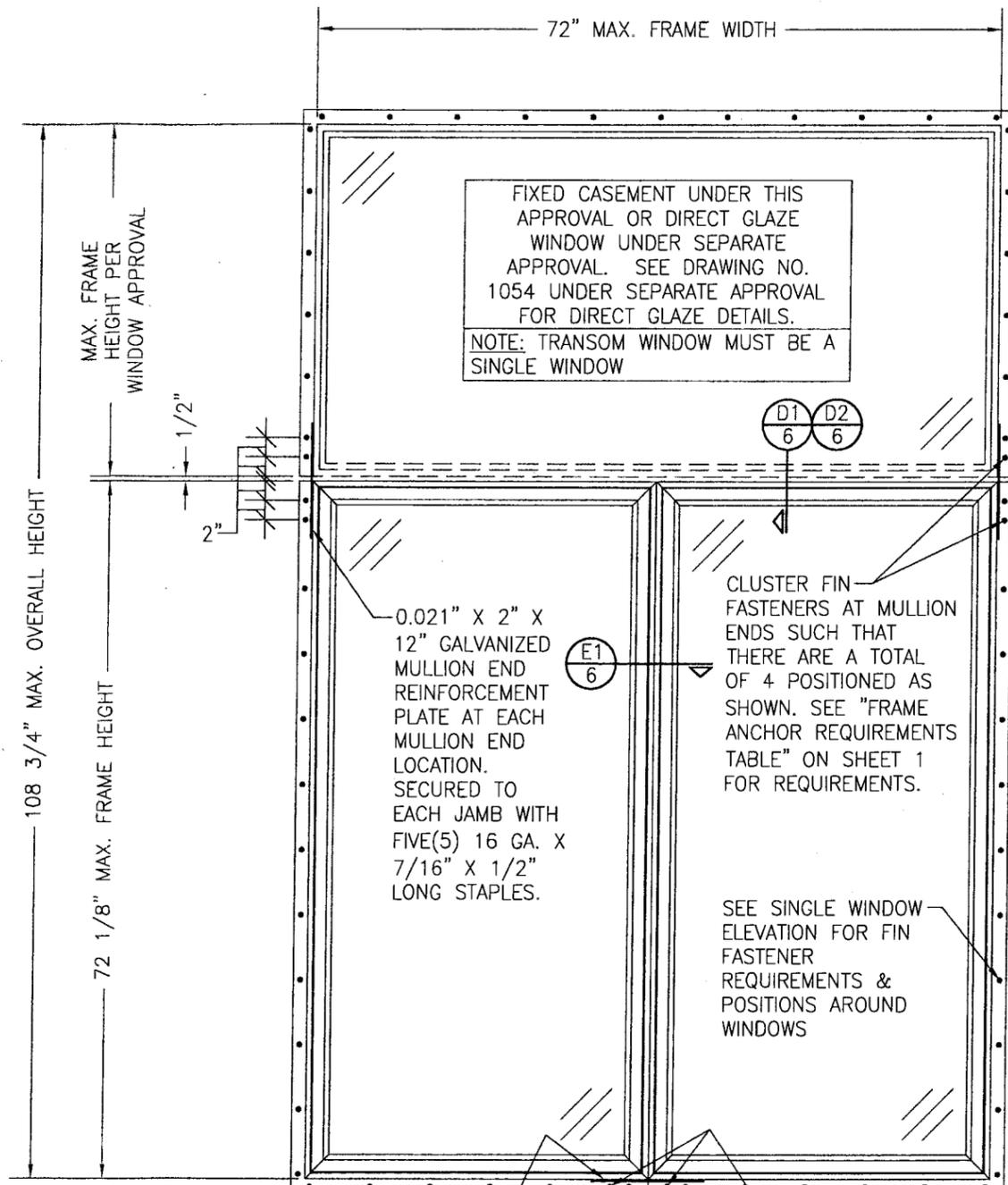
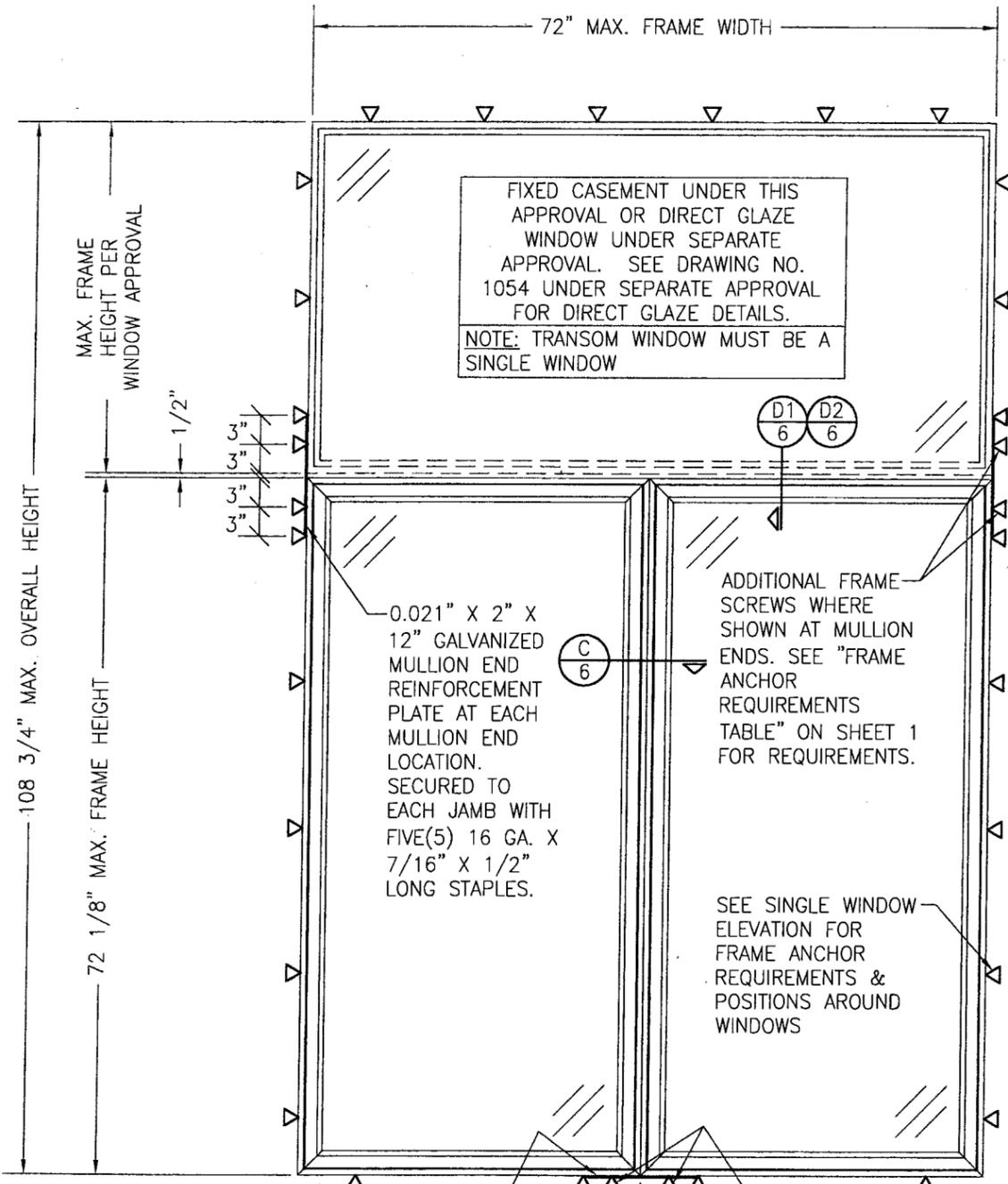
Approved as complying with the Florida Building Code
Date JULY 1, 2009
NOA# 09-0326.03
Miami Dade Product Control Division
By Maurel Perez

DRAWING TITLE: 1206 ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW

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

MANUFACTURER: WEATHER SHIELD WINDOWS & DOORS
ONE WEATHER SHIELD PLAZA
MEDFORD, WI 54451
715-748-6555

CERTIFICATION	MAR 28 2009
DRAWING NO.	REV.
1584	
SHEET NO.	OF
2	7



0.021" X 2" X 12" GALVANIZED MULLION END REINFORCEMENT PLATE AT SILL MULLION END LOCATION. SECURED TO EACH JAMB WITH FIVE(5) 16 GA. X 7/16" X 1/2" LONG STAPLES.

ADDITIONAL FRAME SCREWS WHERE SHOWN AT MULLION ENDS. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

0.021" X 2" X 12" GALVANIZED MULLION END REINFORCEMENT PLATE AT SILL MULLION END LOCATION. SECURED TO EACH JAMB WITH FIVE(5) 16 GA. X 7/16" X 1/2" LONG STAPLES.

CLUSTER FIN FASTENERS AT MULLION ENDS SUCH THAT THERE ARE A TOTAL OF 4 POSITIONED AS SHOWN. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR REQUIREMENTS.

EXTERIOR ELEVATION:
DOUBLE FIXED WINDOW WITH TRANSOM
(FRAME SCREW MOUNT CONDITION)
 SCALE: 3/4" = 1'-0"
 (FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATION)

ALLOWABLE DESIGN PRESSURE
 (DOUBLE WINDOW WITH TRANSOM)
 ALLOWABLE PRESSURE ON MULLED UNITS SHALL BE RESTRICTED BY THE ALLOWABLE PRESSURE ON THE INDIVIDUAL WINDOWS WITHIN THE MULLED UNIT. SEE SINGLE WINDOW PRESSURE TABLE ON SHEET 4 FOR ALLOWABLE PRESSURES.

EXTERIOR ELEVATION:
DOUBLE FIXED WINDOW WITH TRANSOM
(FIN MOUNT CONDITION)
 SCALE: 3/4" = 1'-0"
 (FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATION)

Approved as complying with the Florida Building Code
 Date JULY 7, 2009
 MW 07-0526-03
 Miami Dade Product Control Division
 By Manuel Perez

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 02/04/09	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: 1206 ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.			
MANUFACTURER: WEATHER SHIELD WINDOWS & DOORS			
ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555			
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903			
CERTIFICATION	MAR 23 2009		
DRAWING NO.	1584	REV.	
SHEET NO.	3	OF	7

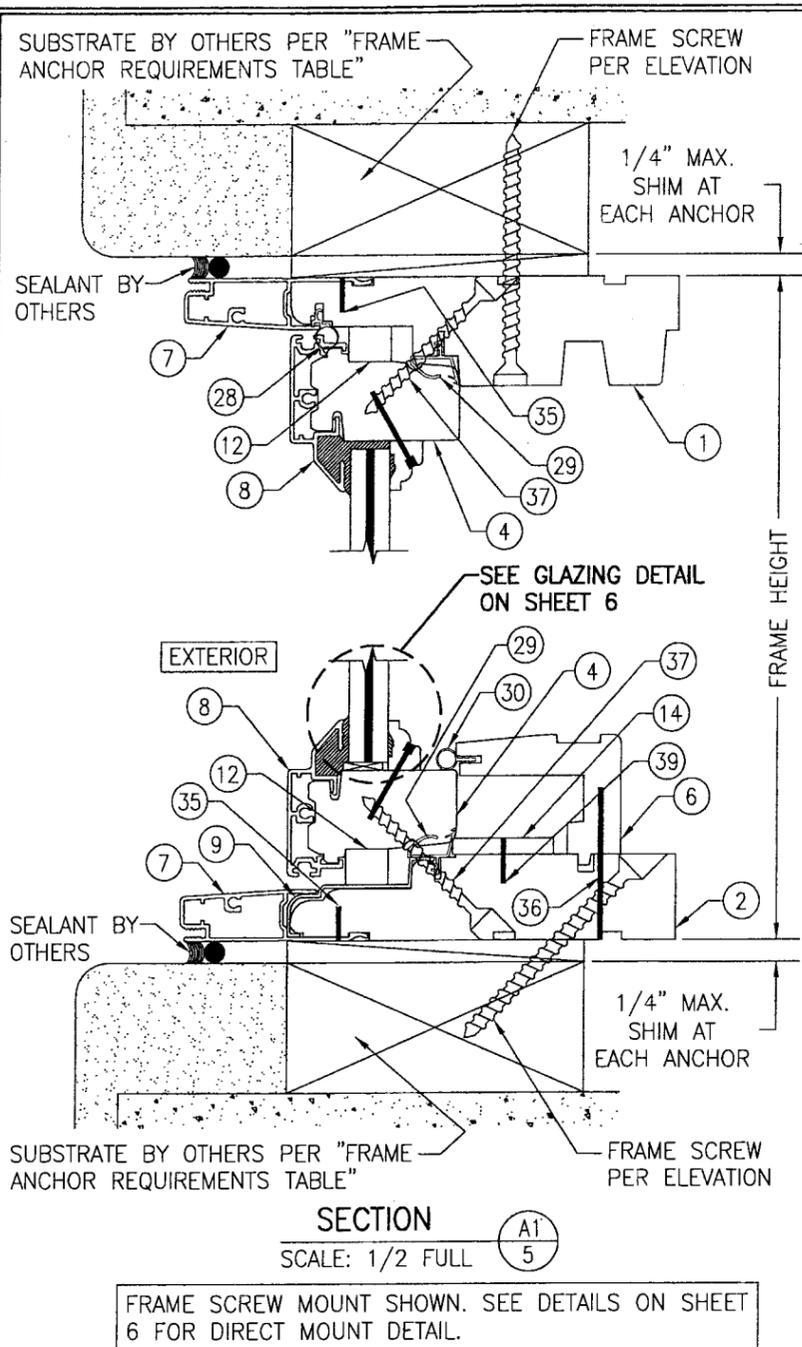
ALLOWABLE SINGLE WINDOW PEASURE TABLE

MAXIMUM FRAME LONG DIMENSION (IN.)	MAXIMUM FRAME SHORT DIMENSION (IN.)	ALLOWABLE PRESSURE (PSF)								MAXIMUM FRAME LONG DIMENSION (IN.)	MAXIMUM FRAME SHORT DIMENSION (IN.)	ALLOWABLE PRESSURE (PSF)								
		GLASS OPTION 1		GLASS OPTION 2		GLASS OPTION 3		GLASS OPTION 4				GLASS OPTION 1		GLASS OPTION 2		GLASS OPTION 3		GLASS OPTION 4		
		POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.			POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	
144	50	N/A	N/A	N/A	N/A	N/A	N/A	55.0	70.0	84	72	N/A	N/A	N/A	N/A	N/A	N/A	55.0	70.0	
	36	N/A	N/A	N/A	N/A	55.0	70.0	55.0	70.0		66	N/A	N/A	N/A	N/A	55.0	70.0	55.0	70.0	
	30	N/A	N/A	55.0	70.0	55.0	70.0	55.0	70.0		54	N/A	N/A	55.0	69.3	55.0	70.0	55.0	70.0	
	18	55.0	70.0	55.0	70.0	55.0	70.0	55.0	70.0		30	55.0	70.0	55.0	70.0	55.0	70.0	55.0	70.0	
132	55	N/A	N/A	N/A	N/A	N/A	N/A	55.0	70.0	78	72	N/A	N/A	N/A	N/A	N/A	N/A	55.0	70.0	
	42	N/A	N/A	N/A	N/A	55.0	70.0	55.0	70.0		66	N/A	N/A	N/A	N/A	55.0	70.0	55.0	70.0	
	36	N/A	N/A	55.0	70.0	55.0	70.0	55.0	70.0		60	N/A	N/A	55.0	66.2	55.0	70.0	55.0	70.0	
	30	N/A	N/A	55.0	70.0	55.0	70.0	55.0	70.0		33	55.0	70.0	55.0	70.0	55.0	70.0	55.0	70.0	
120	60	N/A	N/A	N/A	N/A	N/A	N/A	55.0	70.0	76 1/2	72	N/A	N/A	N/A	N/A	55.0	70.0	55.0	70.0	
	42	N/A	N/A	N/A	N/A	55.0	70.0	55.0	70.0		66	N/A	N/A	N/A	N/A	55.0	70.0	55.0	70.0	
	36	N/A	N/A	55.0	70.0	55.0	70.0	55.0	70.0		60	N/A	N/A	55.0	67.1	55.0	70.0	55.0	70.0	
	21	55.0	70.0	55.0	70.0	55.0	70.0	55.0	70.0		34	55.0	70.0	55.0	70.0	55.0	70.0	55.0	70.0	
108	67	N/A	N/A	N/A	N/A	N/A	N/A	55.0	70.0	72	72	N/A	N/A	N/A	N/A	55.0	70.0	55.0	70.0	
	48	N/A	N/A	N/A	N/A	55.0	66.2	55.0	70.0		64	N/A	N/A	55.0	70.0	55.0	70.0	55.0	70.0	
	42	N/A	N/A	55.0	66.8	55.0	70.0	55.0	70.0		36	55.0	70.0	55.0	70.0	55.0	70.0	55.0	70.0	
	24	55.0	70.0	55.0	70.0	55.0	70.0	55.0	70.0		66	66	N/A	N/A	55.0	70.0	55.0	70.0	55.0	70.0
96	72	N/A	N/A	N/A	N/A	N/A	N/A	55.0	70.0	39		55.0	70.0	55.0	70.0	55.0	70.0	55.0	70.0	
	54	N/A	N/A	N/A	N/A	55.0	70.0	55.0	70.0	54		54	N/A	N/A	55.0	70.0	55.0	70.0	55.0	70.0
	48	N/A	N/A	55.0	64.6	55.0	70.0	55.0	70.0			48	55.0	70.0	55.0	70.0	55.0	70.0	55.0	70.0
	27	55.0	70.0	55.0	70.0	55.0	70.0	55.0	70.0		51	51	55.0	70.0	55.0	70.0	55.0	70.0	55.0	70.0
90	72	N/A	N/A	N/A	N/A	N/A	N/A	55.0	70.0											
	60	N/A	N/A	N/A	N/A	55.0	70.0	55.0	70.0											
	48	N/A	N/A	55.0	69.4	55.0	70.0	55.0	70.0											
	29	55.0	70.0	55.0	70.0	55.0	70.0	55.0	70.0											

- NOTES:**
- SEE GLAZING DETAILS FOR GLASS OPTIONS.
 - "N/A" DESIGNATES A SIZE NOT APPLICABLE TO THAT GLASS OPTION.
 - WINDOW SIZES SHOWN ARE MAXIMUM SIZES. SMALLER SIZES SHALL APPLY TO LOADS EQUAL TO THE NEAREST LARGER SIZE SHOWN IN TABLE.
 - LONG DIMENSION MAY BE HORIZONTAL OR VERTICAL
 - DIMENSIONS SHOWN ARE +/-1/4".

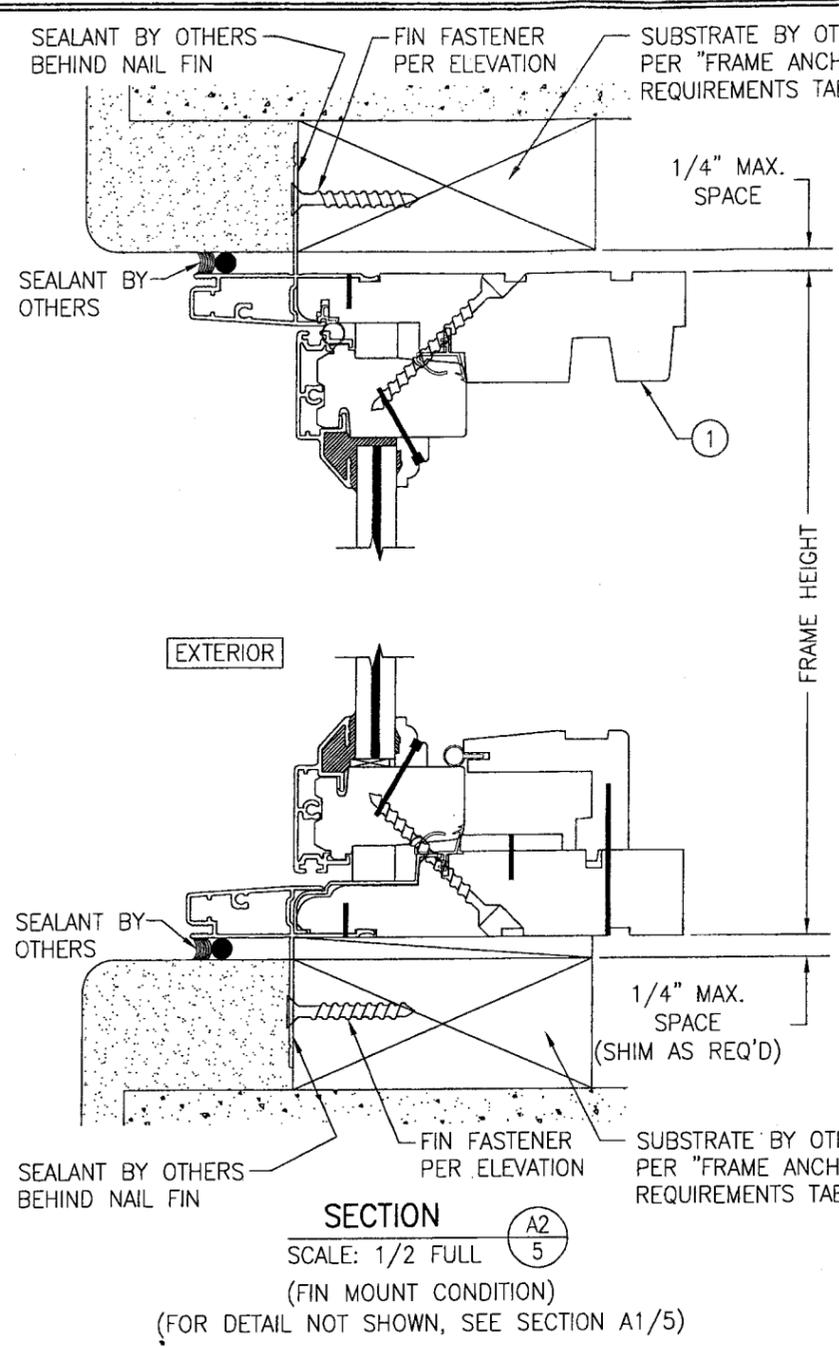
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 02/04/09
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE 1206 ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
MANUFACTURER WEATHER SHIELD WINDOWS & DOORS ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555	
CERTIFICATION MAR 23 2009	By <i>Warren W. Schaefer</i> WARREN W. SCHAEFER P.E. P.E. NO. 44135
DRAWING NO. 1584	REV.
SHEET NO. 4	OF 7

Approved as complying with the
Florida Building Code
Date **JULY 1, 2009**
NOA# **01-0326.03**
Miami Dade Product Control
Division
By *Warren W. Schaefer*



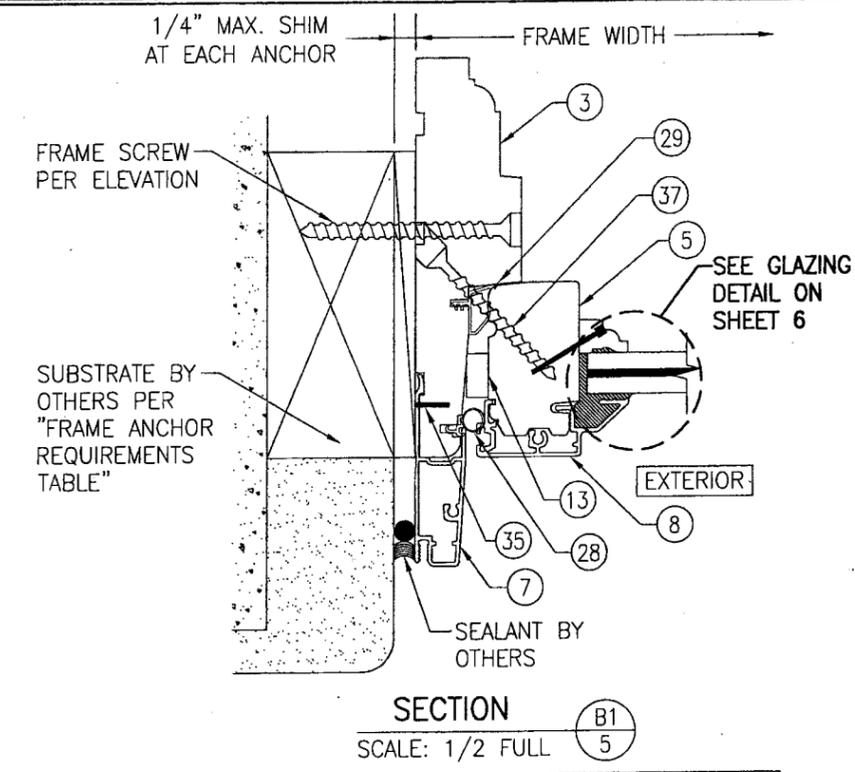
SECTION A1
SCALE: 1/2 FULL

FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 6 FOR DIRECT MOUNT DETAIL.



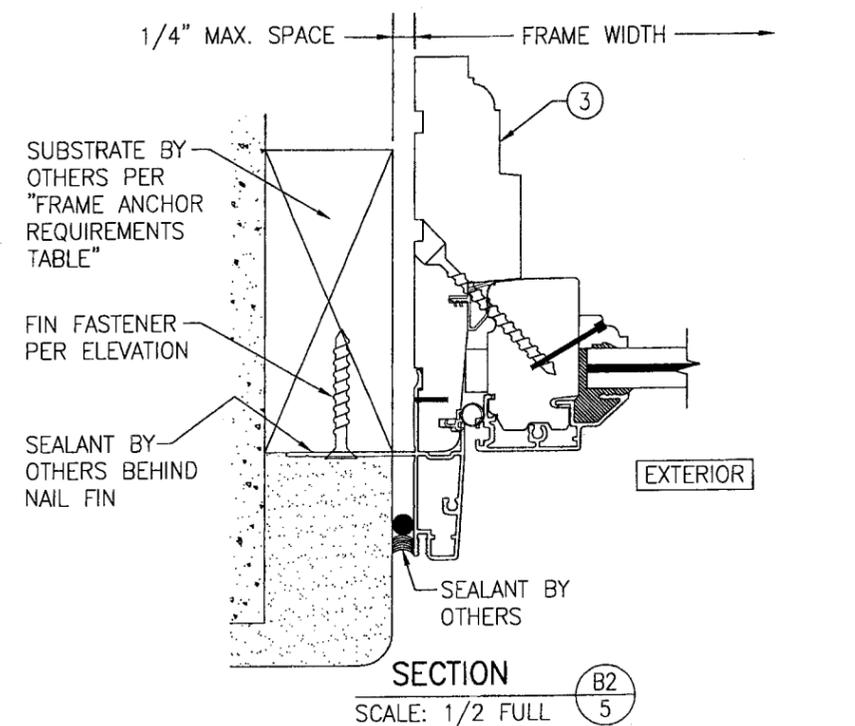
SECTION A2
SCALE: 1/2 FULL

(FIN MOUNT CONDITION)
(FOR DETAIL NOT SHOWN, SEE SECTION A1/5)



SECTION B1
SCALE: 1/2 FULL

FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 6 FOR DIRECT MOUNT DETAIL.

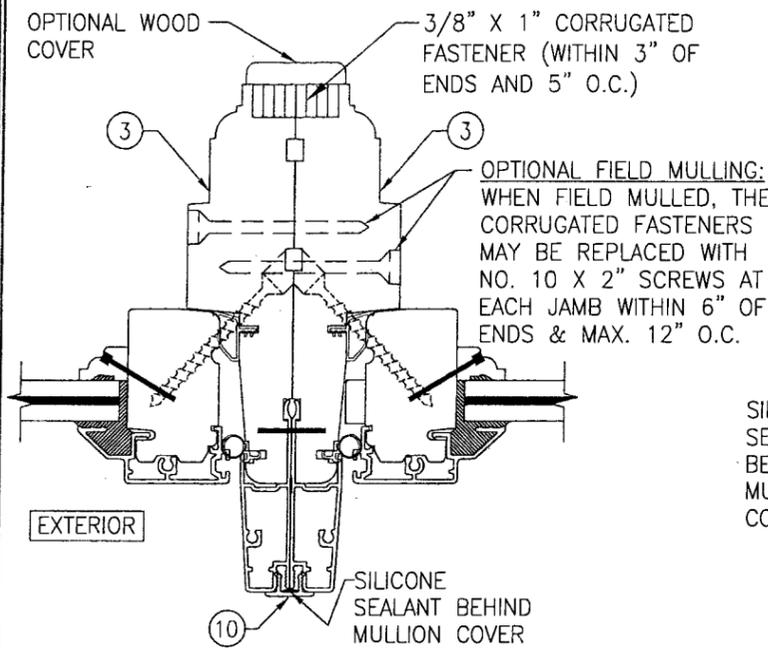


SECTION B2
SCALE: 1/2 FULL

(FIN MOUNT CONDITION)
(FOR DETAIL NOT SHOWN, SEE SECTION B1/5)

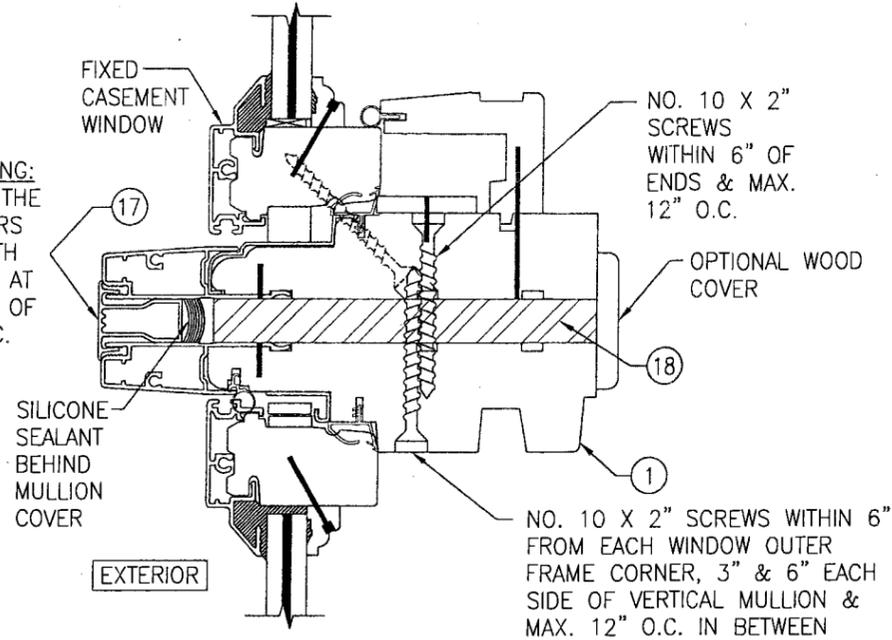
Approved as complying with the Florida Building Code
Date JULY 1, 2009
NOA# 04-0326.03
Miami Dade Product Control Division
By Warren W. Schaeffer

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 02/04/09
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE 1206 ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW	
CONSULTANTS W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A.	MANUFACTURER WEATHER SHIELD WINDOWS & DOORS ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555
CERTIFICATION MAR 23 2009 WARREN W. SCHAEFFER, P.E. P.E. NO. 44135	
DRAWING NO. 1584	REV.
SHEET NO. 5	OF 7



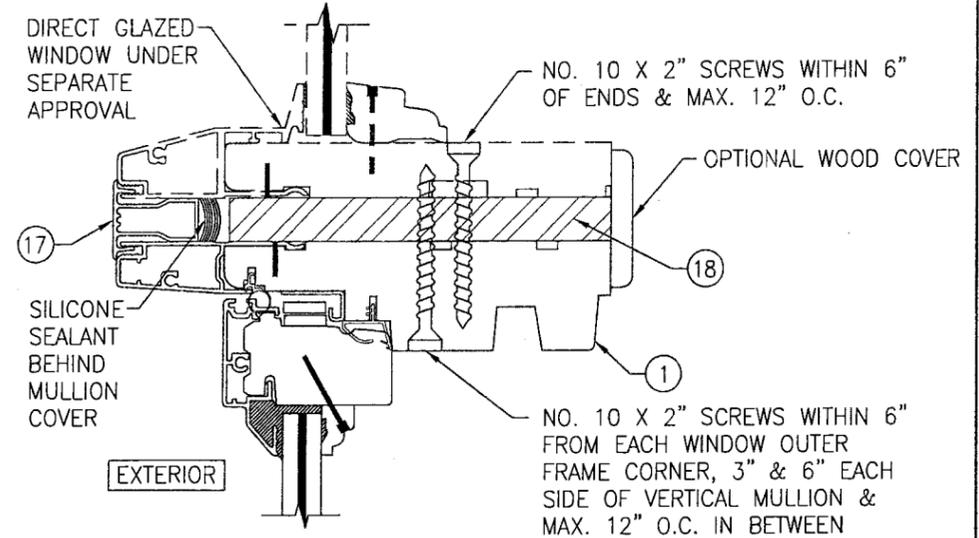
SECTION C
SCALE: 1/2 FULL

(FOR DETAILS NOT SHOWN SEE OTHER SECTIONS)



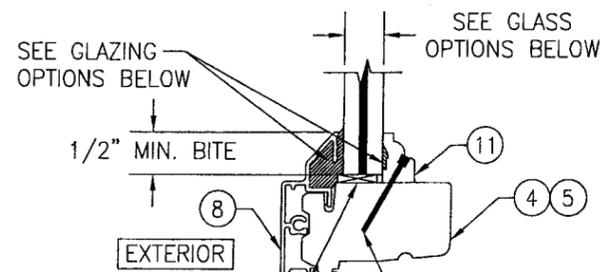
SECTION D1
SCALE: 1/2 FULL

(FOR DETAILS NOT SHOWN SEE OTHER SECTIONS)



SECTION D3
SCALE: 1/2 FULL

(FOR DETAILS NOT SHOWN SEE OTHER SECTIONS)



GLASS SHIM AS REQ'D TO SET OR LEVEL GLASS

GLASS OPTIONS: TYPICAL GLAZING DETAIL

OPTION 1: 7/16" LAMINATED GLASS BY SOLUTIA (3/16" AN/0.09 SAFLEX IIIIG PVB/3/16" AN)

OPTION 2: 7/16" LAMINATED GLASS BY DUPONT (3/16" AN/0.09 DUPONT SGP/3/16" AN)

OPTION 3: 9/16" LAMINATED GLASS BY DUPONT (1/4" AN/0.09 DUPONT SGP/1/4" AN)

OPTION 4: 9/16" LAMINATED GLASS BY DUPONT (1/4" HT. ST./0.09 DUPONT SGP/1/4" HT. ST.)

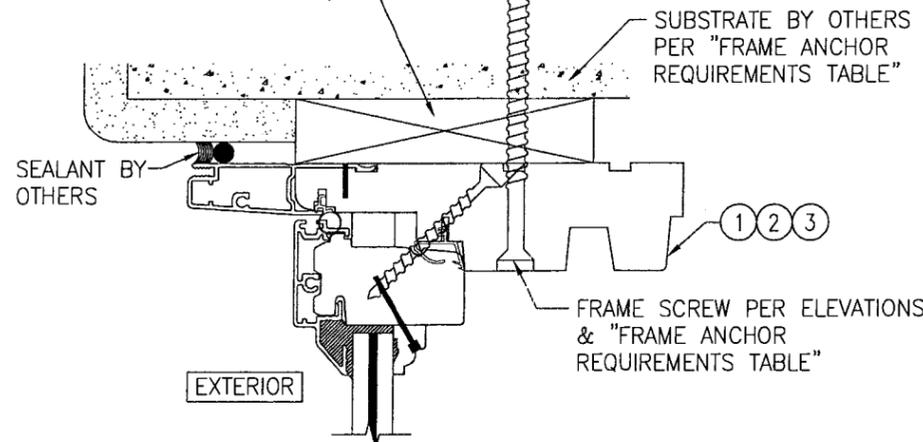
GLAZING OPTIONS:

OPTION 1: SIKAFLEX 552 AT INTERIOR & EXTERIOR

OPTION 2: NATIONAL STARCH PERFECT GLAZE H AT INTERIOR & EXTERIOR

OPTION 3: NATIONAL STARCH HT-20 AT INTERIOR & NATIONAL STARCH PERFECT GLAZE H AT EXTERIOR

CONTINUOUS WOOD MEMBER LESS IN THICKNESS THAN A 2X_ BUCK TO BE MIN. 3 1/2" DEEP (NOT REQUIRED WHEN SHIM SPACE IS WITHIN ALLOWABLE DIMENSIONS SHOWN IN SECTIONS).



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

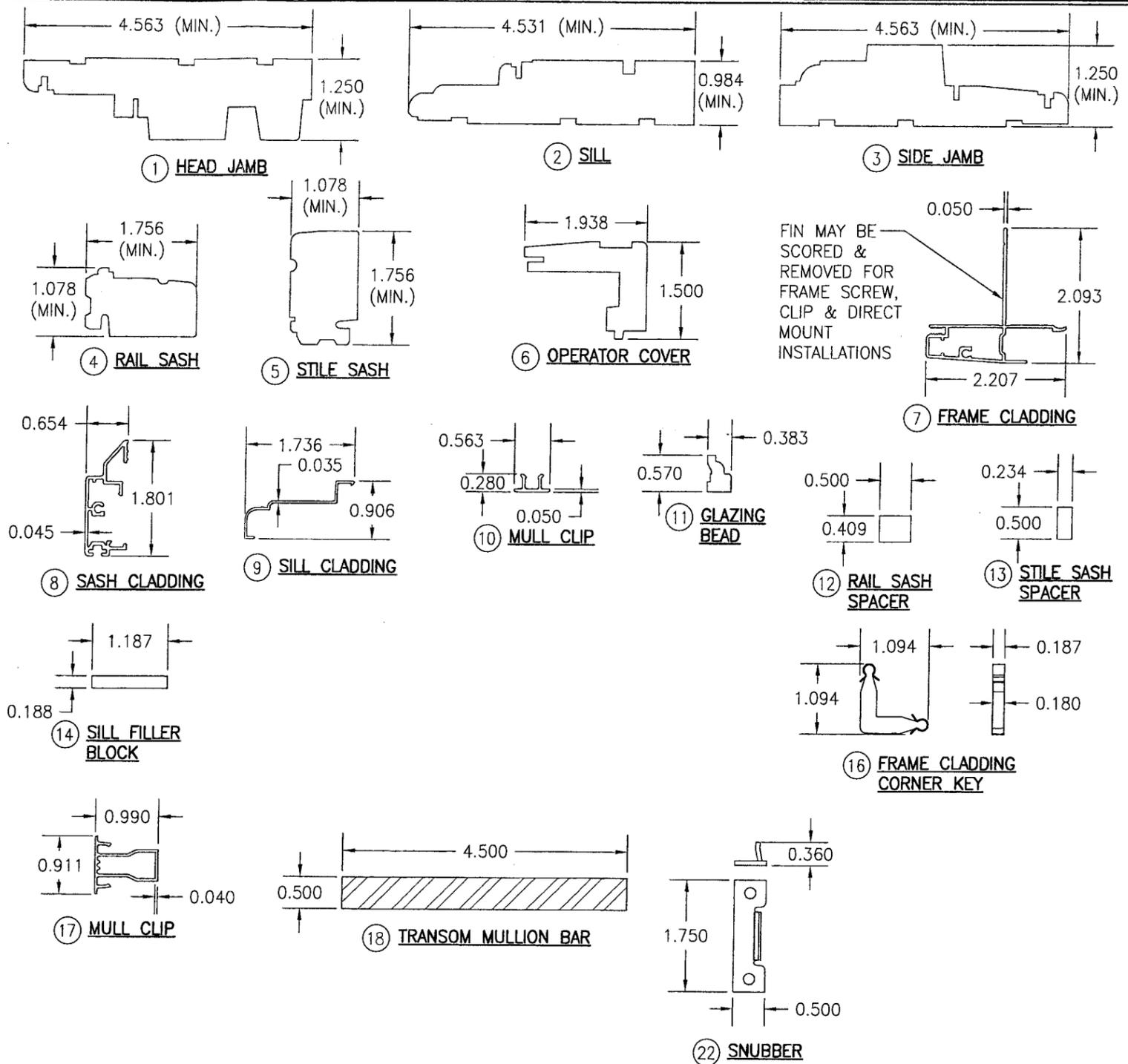
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 02/04/09	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: 1206 ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER: WEATHER SHIELD WINDOWS & DOORS	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555	
CERTIFICATION: MAR 23 2009	By: <i>Warren W. Schaefer</i>		
DRAWING NO. 1584	REV.	SHEET NO. 6 OF 7	

Approved as complying with the Florida Building Code
Date: JULY 1, 2009
NOA# 07-0326-03
Miami Dade Product Control
Division
By: *Warren W. Schaefer*

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	HEAD JAMB	WOOD
2	SILL	WOOD
3	SIDE JAMB	WOOD
4	RAIL SASH	WOOD
5	STILE SASH	WOOD
6	OPERATOR COVER	WOOD
7	FRAME CLADDING	6063-T5 ALUMINUM
8	SASH CLADDING	6063-T5 ALUMINUM
9	SILL CLADDING	VINYL
10	MULL CLIP	6063-T5 ALUMINUM
11	GLAZING BEAD	WOOD
12	RAIL SASH SPACER	WOOD
13	STILE SASH SPACER	WOOD
14	SILL FILLER BLOCK	WOOD
16	FRAME CLADDING CORNER KEY	DIE CAST ZINC BODY/SPRING STEEL CLIP
17	MULL CLIP	6063-T6 ALUMINUM
18	TRANSOM MULLION BAR	6061-T6 ALUMINUM
HARDWARE		
20	1-POINT LOCK	TRUTH 32799
21	SCISSOR HINGE	ALL METAL 4814DC-L13
22	SNUUBER	ALL METAL 31496-00-0500
23	OPERATOR	TRUTH 15-30-09-087
SEALS & SEALANTS		
28	BULB WEATHERSTRIP	WEATHERSHIELD RIGID & FLEXIBLE PVC
29	WEATHERSTRIP	WEATHERSHIELD RIGID & FLEXIBLE PVC
30	BULB WEATHERSTRIP	WEATHERSHIELD RIGID & FLEXIBLE PVC
FASTENERS		
35		
36	16 GA. X 1/2" X 1 3/4" STAPLE	WITHIN 8" FROM ENDS & 8" TO 10" O.C.
37	NO. 6 X 2" WOOD SCREW	WITHIN 3" FROM ENDS & 10" O.C.
38	NO. 6 X 1/2" P.H. WOOD SCREW	2 PER SNUUBER INTO JAMB; 2 PER SNUUBER INTO SASH
39	16 GA. X 1/2" X 1/2" STAPLE	WITHIN 3" FROM ENDS & 10" O.C.
40	18 GA. X 1" BRAD NAIL	WITHIN 3" FROM ENDS & 8" O.C.

NOTE: WOOD USED IN TESTING WAS WESTERN PINE. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY WEATHER SHIELD TO SELECT.



DRAWN BY:	W.R.M.	CHECKED BY:	W.W.S.
PLOT:	1=2	DATE:	02/04/09
NO.		REVISION DESCRIPTION	
BY			

DRAWING TITLE: 1206 ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW
 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
 MANUFACTURER: WEATHER SHIELD WINDOWS & DOORS
 ONE WEATHER SHIELD PLAZA
 MEDFORD, WI 54451
 715-748-6555

Approved as complying with the Florida Building Code
 Date: JULY 1, 2009
 NOA# 09-0326-03
 Miami Dade Product Control Division
 By: *Manuel Paez*

CERTIFICATION	MAR 28 2009
DRAWING NO.	1584
REV.	
SHEET NO.	7 OF 7