



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  
www.miamidade.gov/buildingcode

**NOTICE OF ACCEPTANCE (NOA)**

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 "1604" Alum Clad Wood Transom Windows -LMI**

**APPROVAL DOCUMENT:** Drawing No. 1651, titled "1604 Aluminum Clad Transom Window", sheets 1 through 3 of 3, dated 05/11/09 and last revised on Jan 12, 2010, 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 Impact**

**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, as well as approval document mentioned above. The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

NOA No 09-0901.10

Expiration Date: March 10, 2015

Approval Date: March 10, 2010

Page 1



2-11-10

**Weather Shield Manufacturing Inc.**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Manufacturer's parts drawings and sections.
2. Drawing No. **1651**, titled "1604 Aluminum Clad Transom Window", sheets 1 through 3 of 3, dated 05/11/09 and last revised on Jan 12, 2010, 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 Load Static Air Pressure Test, 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

along with marked-up drawings and installation diagram of Wood sidelite/transom window, prepared by Stork Twin City Testing, Corp., Test Report s No(s) : **180-7762.1, .2, .3, .4 &.5**, dated 06/10/09, all signed and sealed by Thomas A. Kolden, P.E.

**C. CALCULATIONS**

1. Anchor verification calculations dated 08-25-09 and last revised on Jan 12, 2010, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
2. Glazing complies with ASTM E-1300-02 & 2004

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

1. Notice of Acceptance No. **06-0216.06** issued to Solutia Inc. for their "**Saflex III G Clear or colored interlayer**" dated 05/04/06, expiring on 05/21/11.

**F. STATEMENTS**

1. Statement letter of conformance & "No financial interest, dated 08-25-09, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.
2. Lab compliance statements as a part of the above test reports.
3. Addendum letter dated Jan 19, 2010, issued by Stork Twin City, signed & sealed by Tom Kolden, P.E.

**G. OTHER**

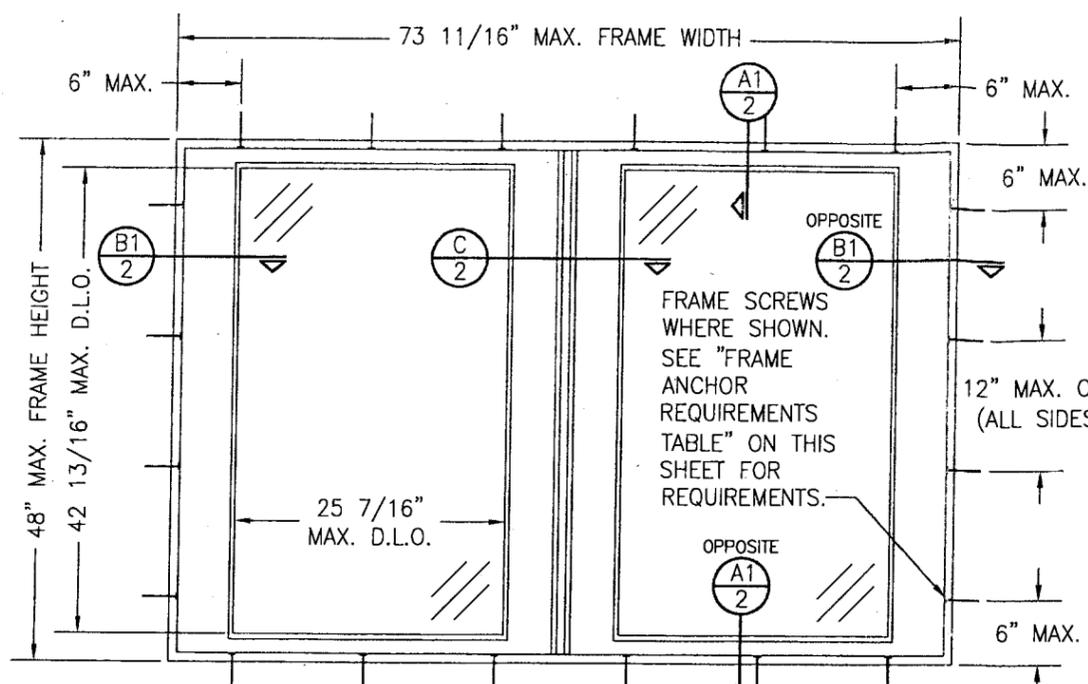
1. Test proposal # **07-3820** dated 12/12/07, approved by BCCO.
2. Addendum letter by Stork Twin City Testing.

*Ishaq I. Chanda*

\_\_\_\_\_  
Ishaq I. Chanda, P.E.  
Product Control Examiner  
NOA No 09-0901.10  
Expiration Date: March 10, 2015  
Approval Date: March 10, 2010

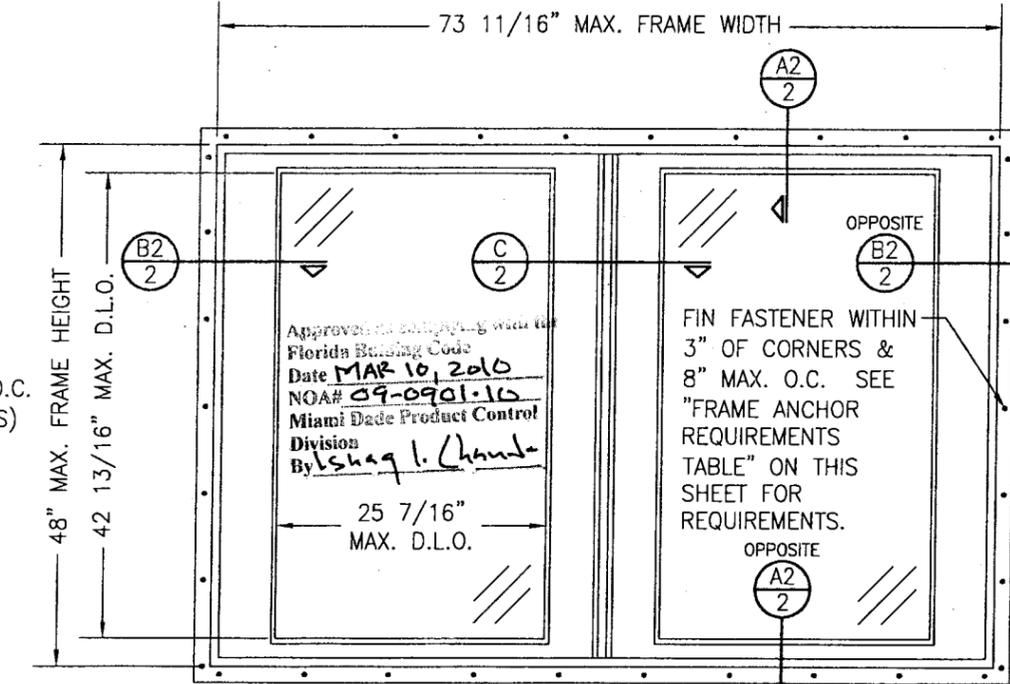
**GENERAL NOTES:**

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 PER 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.



**EXTERIOR ELEVATION:  
DOUBLE SASH WINDOW**

SCALE: 3/4" = 1'-0"  
(FRAME SCREW MOUNT CONDITION)



**EXTERIOR ELEVATION:  
DOUBLE SASH WINDOW**

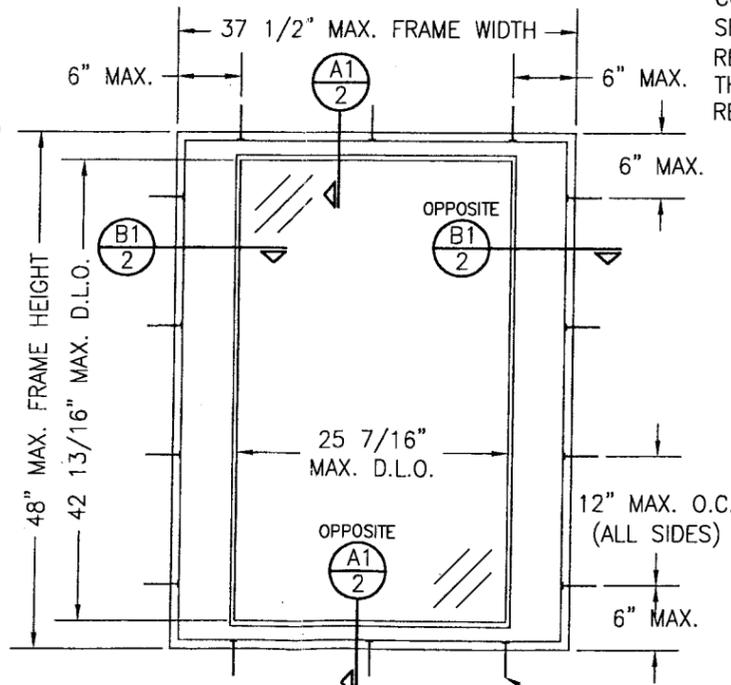
SCALE: 3/4" = 1'-0"  
(NAIL FIN MOUNT CONDITION)

**CORNER CONSTRUCTION:**

**FRAME CORNERS:** MEMBERS ARE RABBETED, BUTTED & SECURED WITH (3)THREE NO. 6 X 2" WOOD SCREWS THROUGH THE VERTICAL MEMBER INTO THE HORIZONTAL MEMBER. CORNERS ARE SEALED WITH SILICONE SEALANT.  
**SASH CORNERS:** MEMBERS ARE BUTTED TOGETHER, JOINED WITH (1)ONE 3/4" X 3" WOOD DOWEL PER CORNER. CORNERS ARE SEALED WITH WOOD GLUE THAT SECURES THE DOWEL.  
**FRAME CLADDING CORNERS:** CLADDING IS MITERED TOGETHER & JOINED WITH (1)ONE NO. 6 X 1 1/8" PFH SS SCREW PER CORNER. CORNERS ARE SEALED WITH SILICONE SEALANT.  
**SASH CLADDING:** CLADDING IS SQUARE CUT & SECURED TO THE SASH. CORNERS ARE SEALED WITH SILICONE SEALANT.

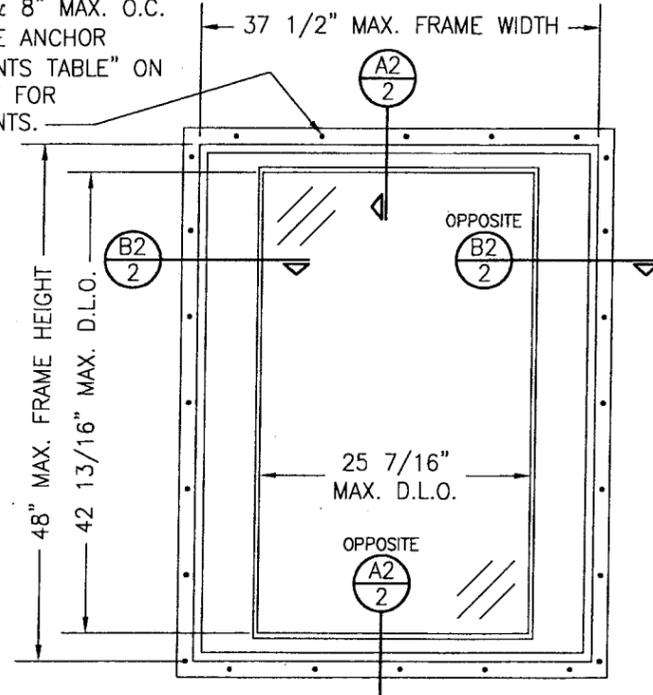
**ALLOWABLE DESIGN PRESSURE**  
+65/-85 PSF

FIN FASTENER WITHIN 3" OF CORNERS & 8" MAX. O.C. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON THIS SHEET FOR REQUIREMENTS.



**EXTERIOR ELEVATION:  
SINGLE SASH WINDOW**

SCALE: 3/4" = 1'-0"  
(FRAME SCREW MOUNT CONDITION)



**EXTERIOR ELEVATION:  
SINGLE SASH WINDOW**

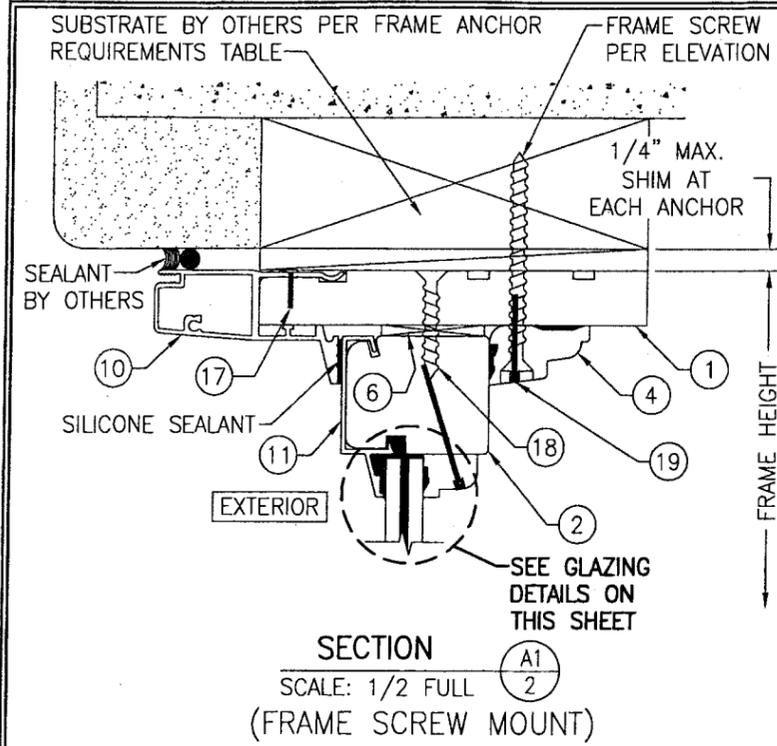
SCALE: 3/4" = 1'-0"  
(NAIL FIN MOUNT CONDITION)

**FRAME ANCHOR REQUIREMENTS TABLE**

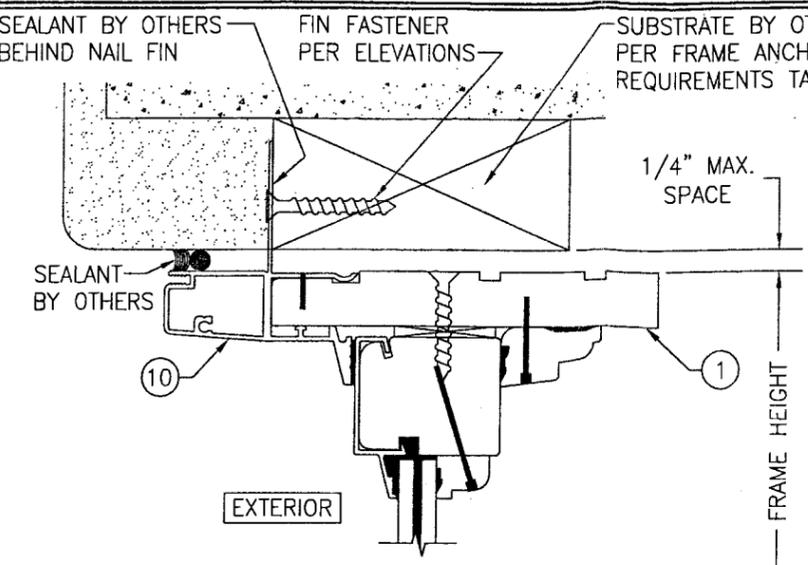
OPENING TYPE (SUBSTRATE)	FRAME & NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
<b>FRAME SCREWS</b>			
(2) MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 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"
<b>NAILING FIN FASTENERS</b>			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	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 OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).  
 (2) WOOD BUCKS MAY BE RIPPED DOWN TO 4 1/2" TO MEET JAMB DEPTH

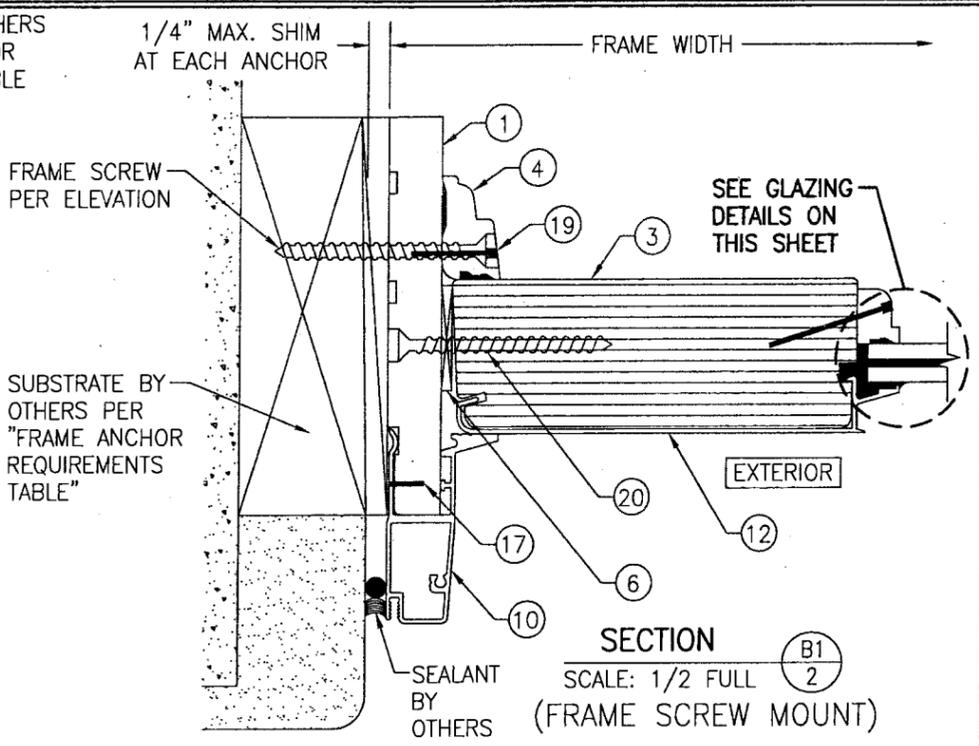
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.	PLOT: 1=16	DATE: 05/11/09
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE <b>1604 ALUMINUM CLAD TRANSOM WINDOW</b>			
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		MANUFACTURER <b>WEATHER SHIELD WINDOWS &amp; DOORS</b> ONE WEATHER SHIELD PLAZA MEDFORD, WI 54451 715-748-6555	
CERTIFICATION <b>JAN 12 2010</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. <b>1651</b>		REV.	
SHEET NO. <b>1</b>		OF <b>3</b>	



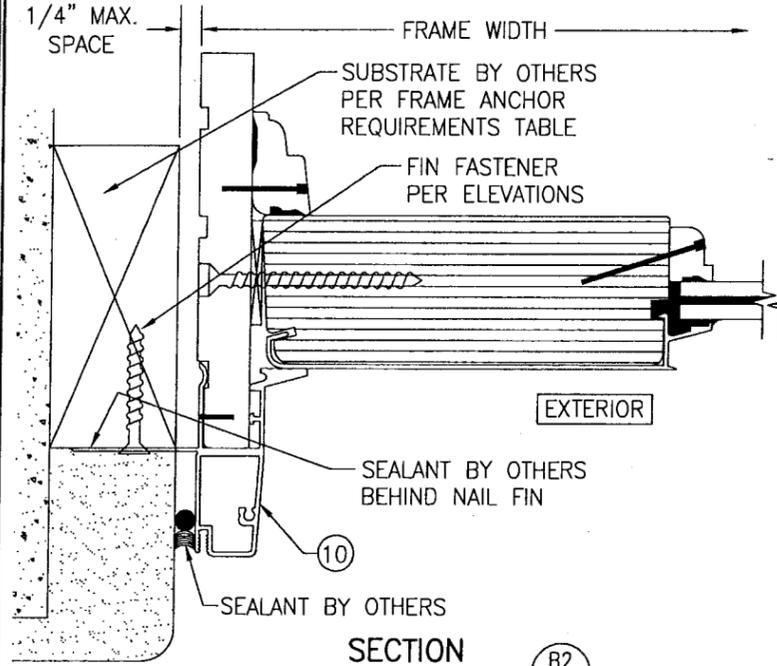
SECTION A1  
SCALE: 1/2 FULL  
(FRAME SCREW MOUNT)



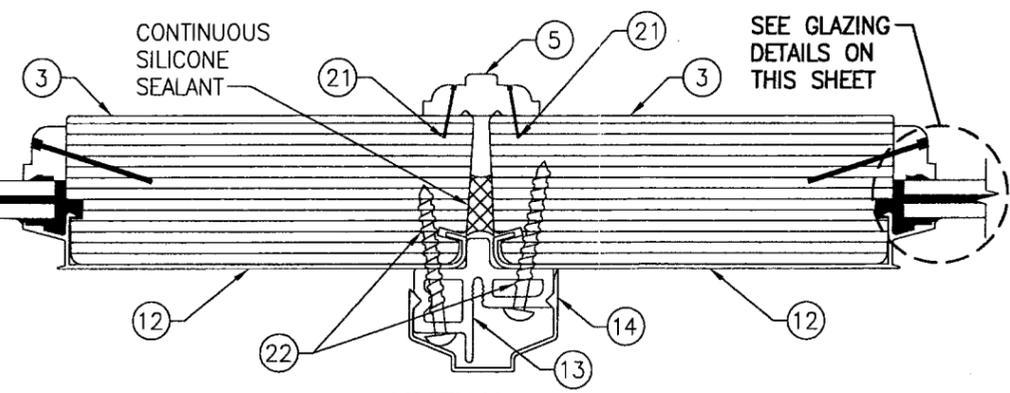
SECTION A2  
SCALE: 1/2 FULL  
(NAIL FIN MOUNT)  
(FOR DETAILS NOT SHOWN SEE SECTION A1/2)



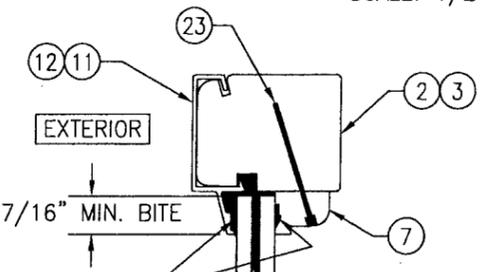
SECTION B1  
SCALE: 1/2 FULL  
(FRAME SCREW MOUNT)



SECTION B2  
SCALE: 1/2 FULL  
(NAIL FIN MOUNT)  
(FOR DETAILS NOT SHOWN SEE SECTION B1/2)



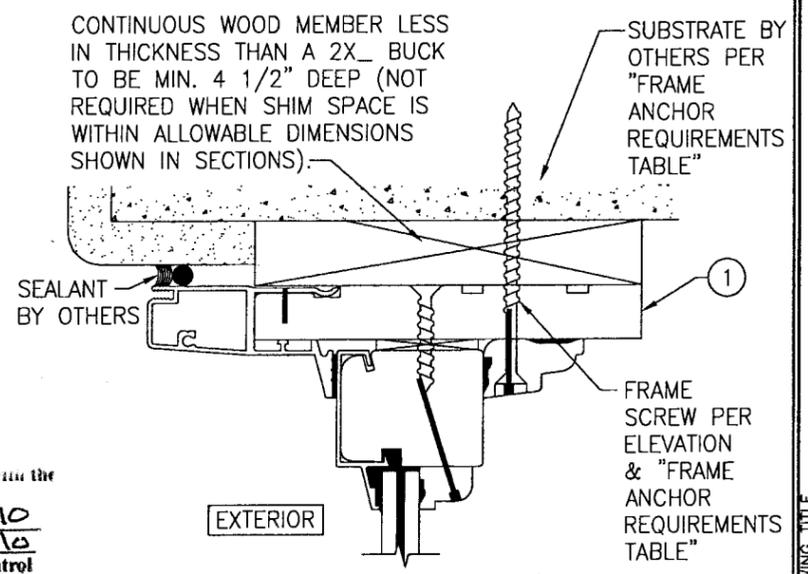
SECTION C  
SCALE: 1/2 FULL



SIKAFLEX 552 OR NATIONAL STARCH PERFECT GLAZE H ALL SIDES OF GLAZING POCKET  
7/16" THICK LAMINATED GLASS (3/16" AN./0.09" SOLUTIA SAFLEX IIIIG PVB/3/16" AN.)

TYPICAL GLAZING DETAIL

Approved as complying with the Florida Building Code  
Date MAR 10, 2010  
NOA# 09-0901.10  
Miami Dade Product Control  
Division  
By Isaac I. Chaudh



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: 05/11/09
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE <b>1604 ALUMINUM CLAD TRANSOM WINDOW</b>	
CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b>	MANUFACTURER <b>WEATHER SHIELD WINDOWS &amp; DOORS</b>
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 <b>JAN 12 2010</b>	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. <b>1651</b>	REV.
SHEET NO. <b>2</b>	OF <b>3</b>

