



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)**

[www.buildingcodeonline.com](http://www.buildingcodeonline.com)

**Kawneer Company, Inc.**  
555 Guthridge Court  
Norcross, Georgia 30092

**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 High Velocity Hurricane Zone of the Florida Building Code.

**DESCRIPTION: Series "FG623" Aluminum Window Wall System (2-Bay wide)-L. M. Impact**

**APPROVAL DOCUMENT:** Drawing No. 1582, titled "FG623" Window Wall system (LMI)", sheets 1 thru 3 of 3, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 04/02/08, signed and sealed by Warren W. Schaefer, P.E., 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: 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 & renews** NOA # 02-0603.07 consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Ishaq I. Chanda, P.E.**

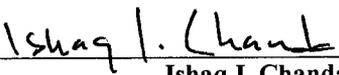
NOA No 08-0415.09  
Expiration Date: February 20, 2013  
Approval Date: May 22, 2008  
Page 1



4/24/13

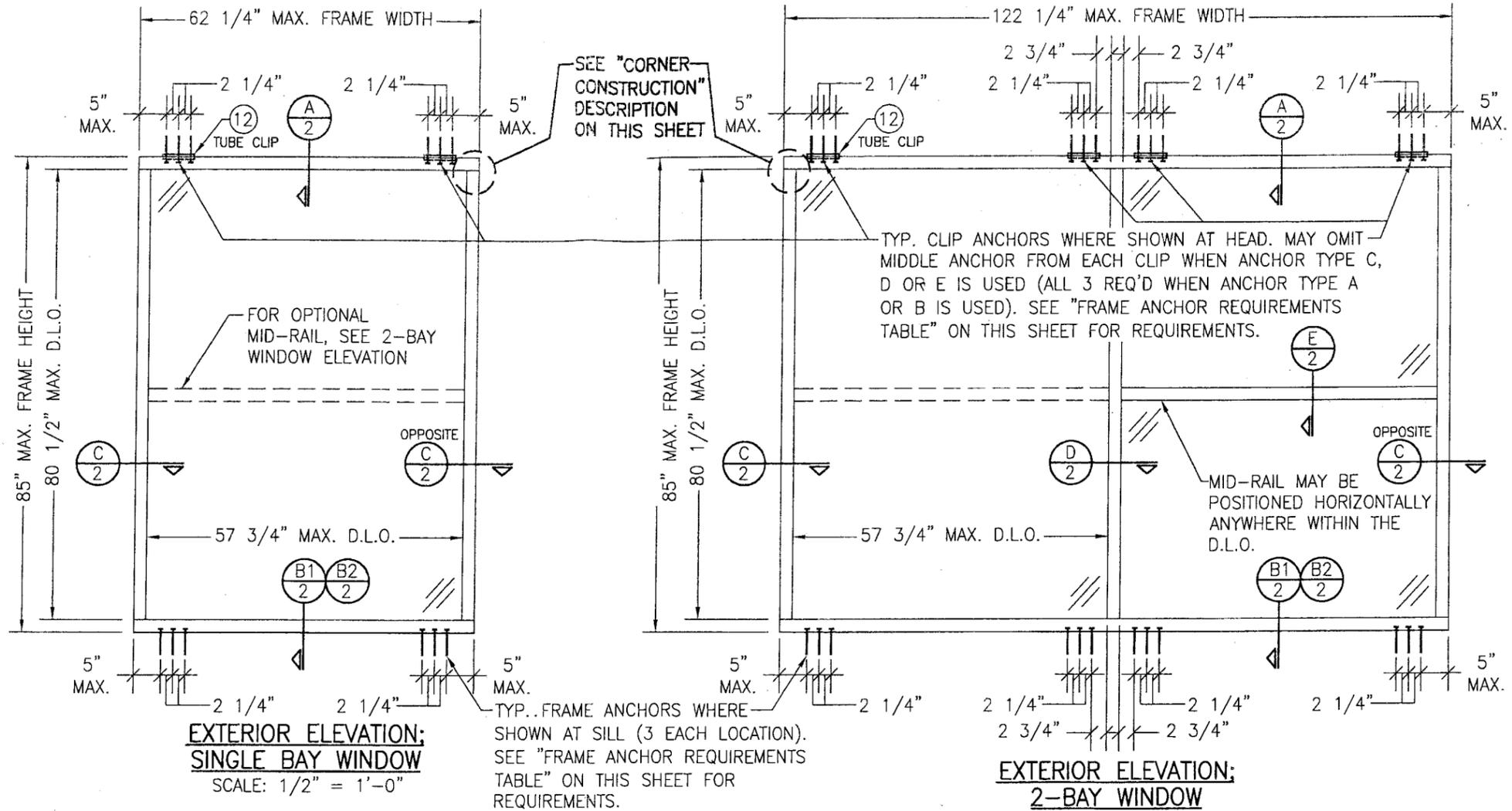
**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

- A. DRAWINGS** (transferred from file # **02-0603.07**)
1. Manufacturer's die drawings and sections.
  2. Drawing No. **1582**, titled "FG623" Window Wall system (LMI)", sheets 1 thru 3 of 3, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 04/02/08, signed and sealed by Warren W. Schaefer, P.E.
- B. TESTS** (transferred from file # **02-0603.07**) Original test conducted per SFBC, PA 201, 202 and 203-94 now termed as FBC TAs 201, 202 and 203-94/
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
- Along with marked-up drawings and installation diagram of aluminum window wall system, prepared by Hurricane Testing Laboratory Inc, Test Report No(s). **HTL-0049-0807-01** dated 02/06/02, **HTL-0049-0610-00** dated 08/04/00 and **0049-0615-00**, dated 08/04/00 respectively, signed & sealed by Vinu J. Abraham, P.E.
- (Note: The test report **HTL-0049-0807.01** has been revised by addendum letters Jan 17, 2003 and Jan 24, 2003, issued by Hurricane Testing Laboratory Inc, signed & sealed by Vinu J. Abraham, P.E.
- C. CALCULATIONS**
1. Anchor verification & structural calculations complying w/ FBC-2004 & 2007 dated 02-29-2008, prepared, signed and sealed by Warren W. Schaefer, P.E.
  2. Anchor calculations & structural analysis, dated 04-04-2007, prepared, signed and sealed by Warren W. Schaefer, P.E.
  3. Glazing complies with ASTM E-1300-98 and ASTM E-1300-02
- D. QUALITY ASSURANCE BY:**
1. Miami-Dade Building Code Compliance Office (BCCO).
- E. MATERIAL CERTIFICATIONS**
1. Notice of Acceptance No. **07-1116.04** issued to E.I. DuPont DeNemours, for "SentryGlasPlus", expiring on 01/14/2012.
  2. Notice of Acceptance No. **02-0916.04** issued to Viracon for "laminated PVB", expiring on 04/14/2008.
  3. Notice of Acceptance No. **04-0115.01** issued to Viracon for "HRG-2", expiring on 02/12/2009
- F. STATEMENTS**
1. Statement anchor verification, complying w/ FBC-2004 & FBC-2007, dated 02-29-08, prepared, signed and sealed by Warren W. Schaefer, P. E.
  2. Statement letters of conformance and "No financial interest", both dated 02-29-08, signed and sealed by Warren W. Schaefer, P.E.
  3. Statement of compliance, issued as part of the above referenced test report issued by Hurricane Testing Laboratory.
- G. OTHER**
1. This NOA **revises & renews** NOA # **02-0603.07**, expired on February 20, 2008.
  2. Test proposal "Kawneer FG623 Imp" approved by BCCO dated 05/14/01.

  
Ishaq I. Chanda, P.E.  
Product Control Examiner  
NOA No 08-0415.09  
Expiration Date: February 20, 2013  
Approval Date: May 22, 2008

**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.



**EXTERIOR ELEVATION:  
SINGLE BAY WINDOW**  
SCALE: 1/2" = 1'-0"

**EXTERIOR ELEVATION:  
2-BAY WINDOW**  
SCALE: 1/2" = 1'-0"

<b>ALLOWABLE DESIGN PRESSURE</b> (SINGLE & 2-BAY WINDOWS)
+50/-70 PSF

**CORNER CONSTRUCTION:**

**FRAME CORNER:** HEAD AND SILL MEMBERS RUN THROUGH AND ARE SQUARE CUT, BUTTED TO VERTICAL MEMBERS, FASTENED WITH FOUR(4) NO. 12 X 1 1/2" S.S. PHTFS FASTENERS THROUGH THE HEAD/SILL MEMBER INTO THE VERTICAL MEMBERS SCREW SPLINES & SEALED WITH SILICONE.

**MID-RAIL END:** MID-RAIL IS SQUARE CUT, BUTTED TO VERTICAL MEMBERS, FASTENED WITH THREE(3) NO. 10 X 1 19/32" S.S. PHTFS FASTENERS THROUGH THE VERTICAL MEMBERS INTO THE MID-RAIL SHEAR BLOCK SCREW SPLINES & SEALED WITH SILICONE.

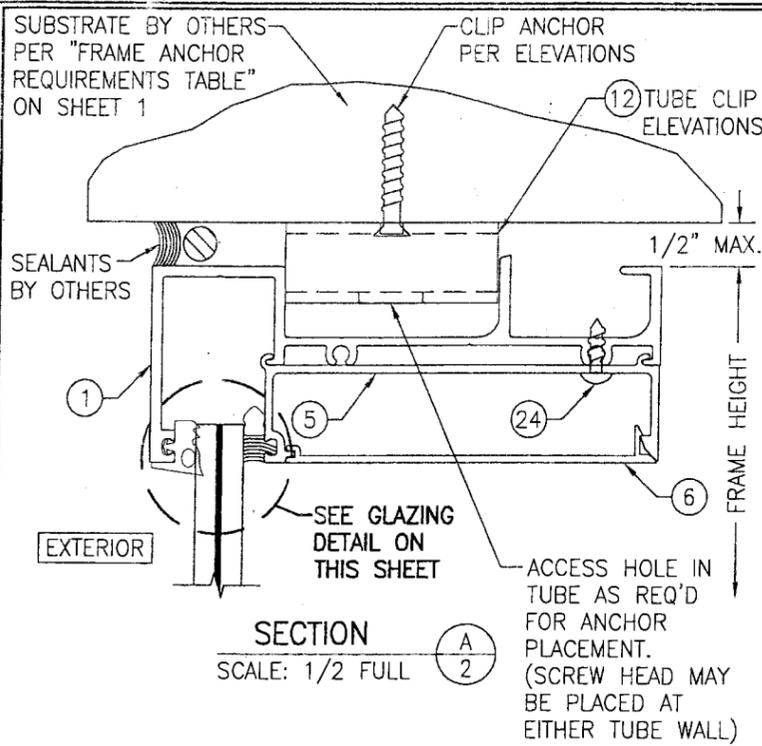
**FRAME ANCHOR REQUIREMENTS TABLE**

FRAME/CLIP SCREWS				
ANCHOR TYPE	OPENING TYPE (SUBSTRATE)	FRAME & CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
A	MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 14 SMS OR WOOD SCREW	1 1/4"	3/4"
B	MIN. 16 GA. 33 KSI METAL STUD	(2) 1/4-20 OR 1/4-14 SELF DRILL/TAPPING SCREW	FULL	1/2"
C	MIN. 1/8" THICK A36 STEEL	(2) 1/4-20 OR 1/4-14 SELF DRILL/TAPPING SCREW	FULL	1/2"
D	MIN. 0.115" THK 6063-T6 ALUM.	(2) 1/4-20 OR 1/4-14 SELF DRILL/TAPPING SCREW	FULL	1/2"
E	3000 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2 1/2"

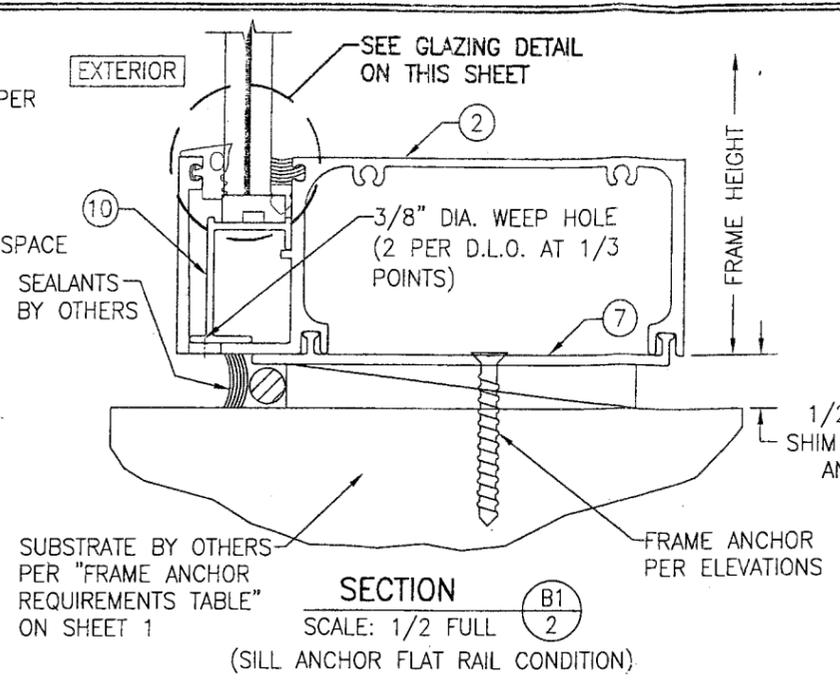
- (1) CONCRETE SCREWS SHALL BE ELCO OR ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).
- (2) SELF DRILLING & SELF TAPPING SCREWS SHALL BE MIN. GRADE 5 CORROSION RESISTANT STEEL

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No. 08-0415-09  
Expiration Date 08/20/2013  
By Shay L. Khand  
Miami-Dade Product Control  
Division

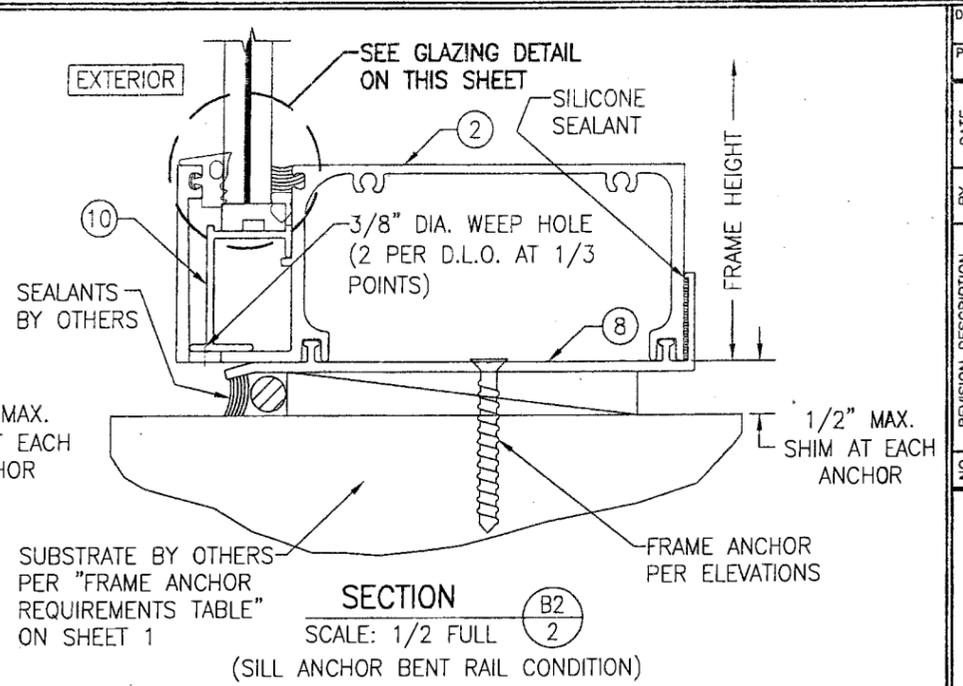
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 03/04/08
DATE	BY
REVISION DESCRIPTION	
NO.	
DRAWING TITLE <b>FG 623 WINDOW WALL SYSTEM (L.M.I.)</b>	
MANUFACTURER <b>KAWNEER COMPANY, INC.</b> 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	CONSULTANTS <b>W. W. SCHAEFER ENGINEERING &amp; CONSULTING, P.A.</b> 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4802 FAX: 561-775-4903
CERTIFICATION <b>APR 02 2008</b> W. W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING NO. REV. <b>1582</b>
	SHEET NO. <b>1 OF 3</b>



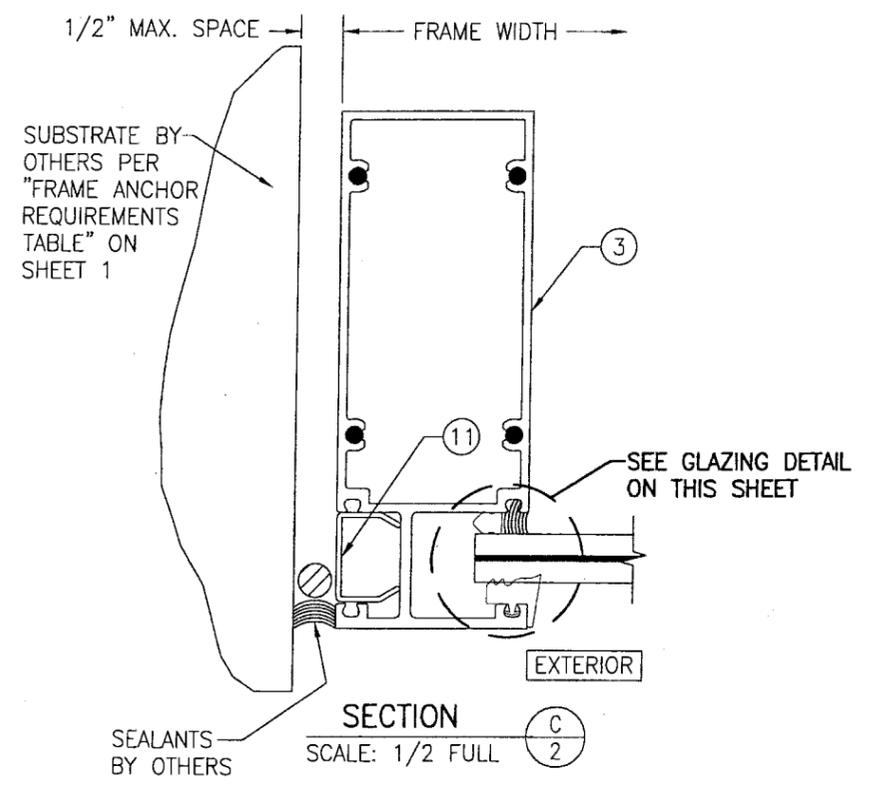
SECTION A  
SCALE: 1/2 FULL



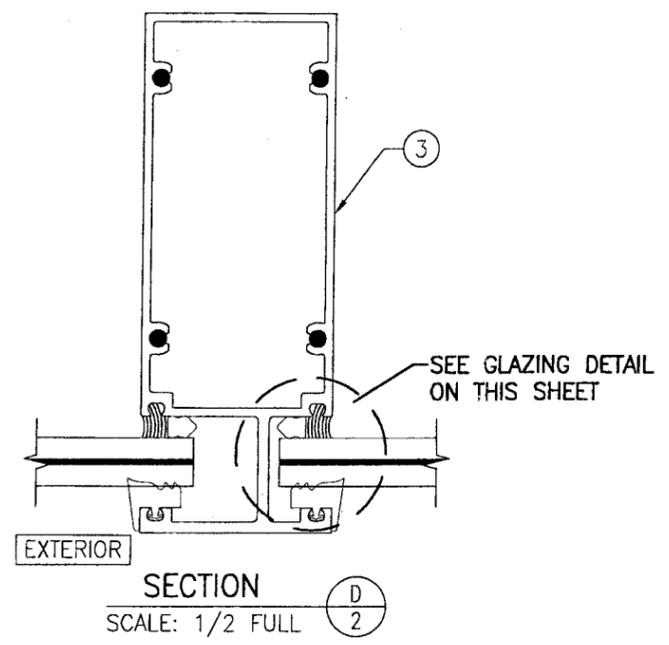
SECTION B1  
SCALE: 1/2 FULL  
(SILL ANCHOR FLAT RAIL CONDITION)



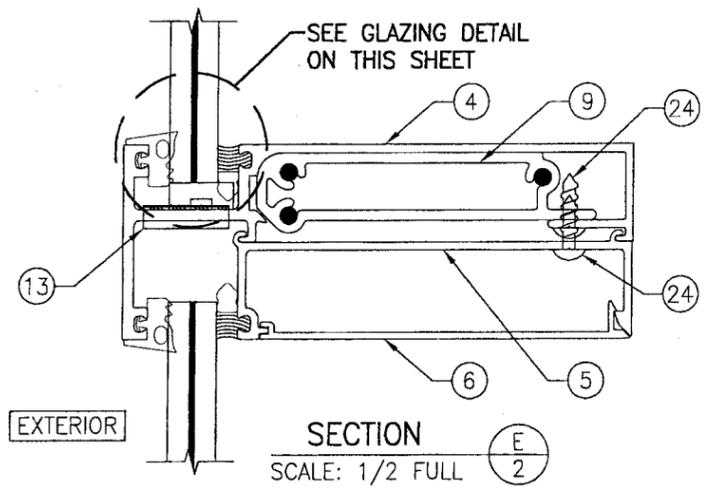
SECTION B2  
SCALE: 1/2 FULL  
(SILL ANCHOR BENT RAIL CONDITION)



SECTION C  
SCALE: 1/2 FULL

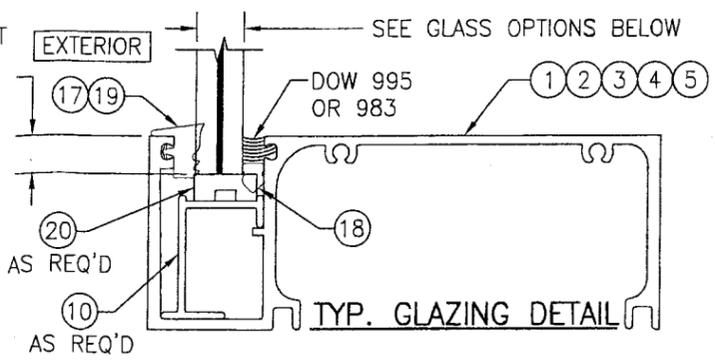


SECTION D  
SCALE: 1/2 FULL



SECTION E  
SCALE: 1/2 FULL

7/16" MIN. GLASS BITE AT HEAD, SILL & MID-RAIL  
5/8" MIN. GLASS BITE AT SIDES AND MULLION



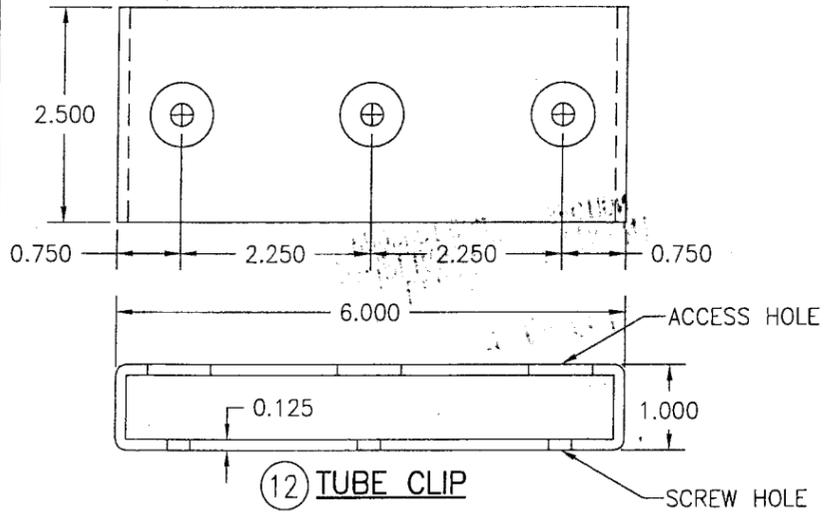
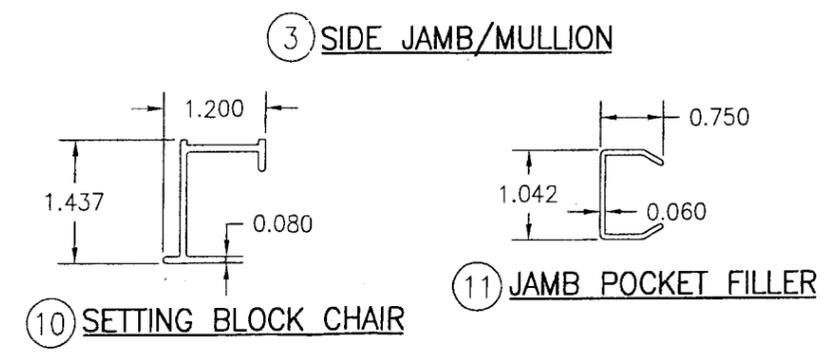
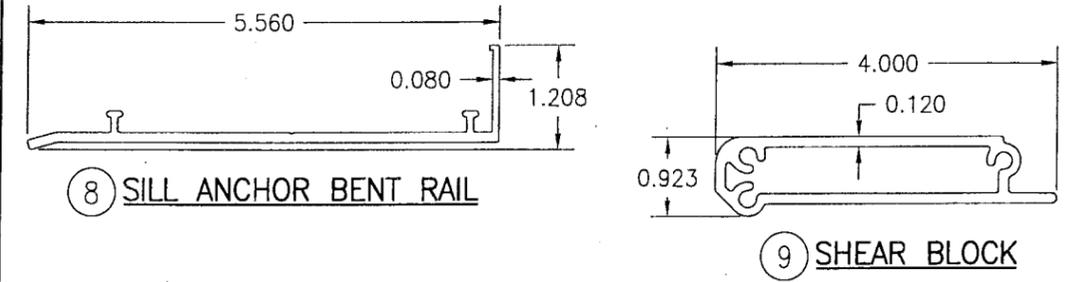
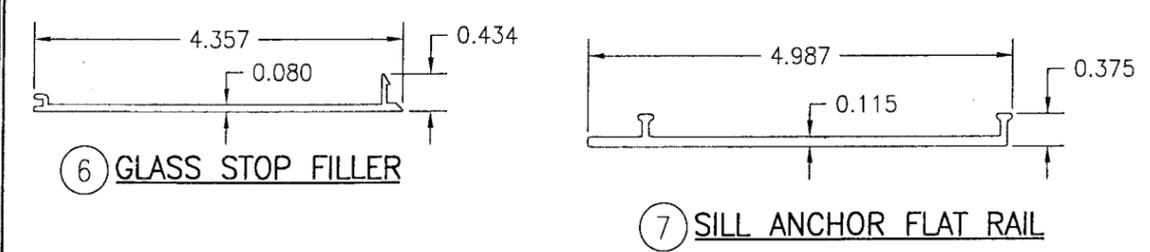
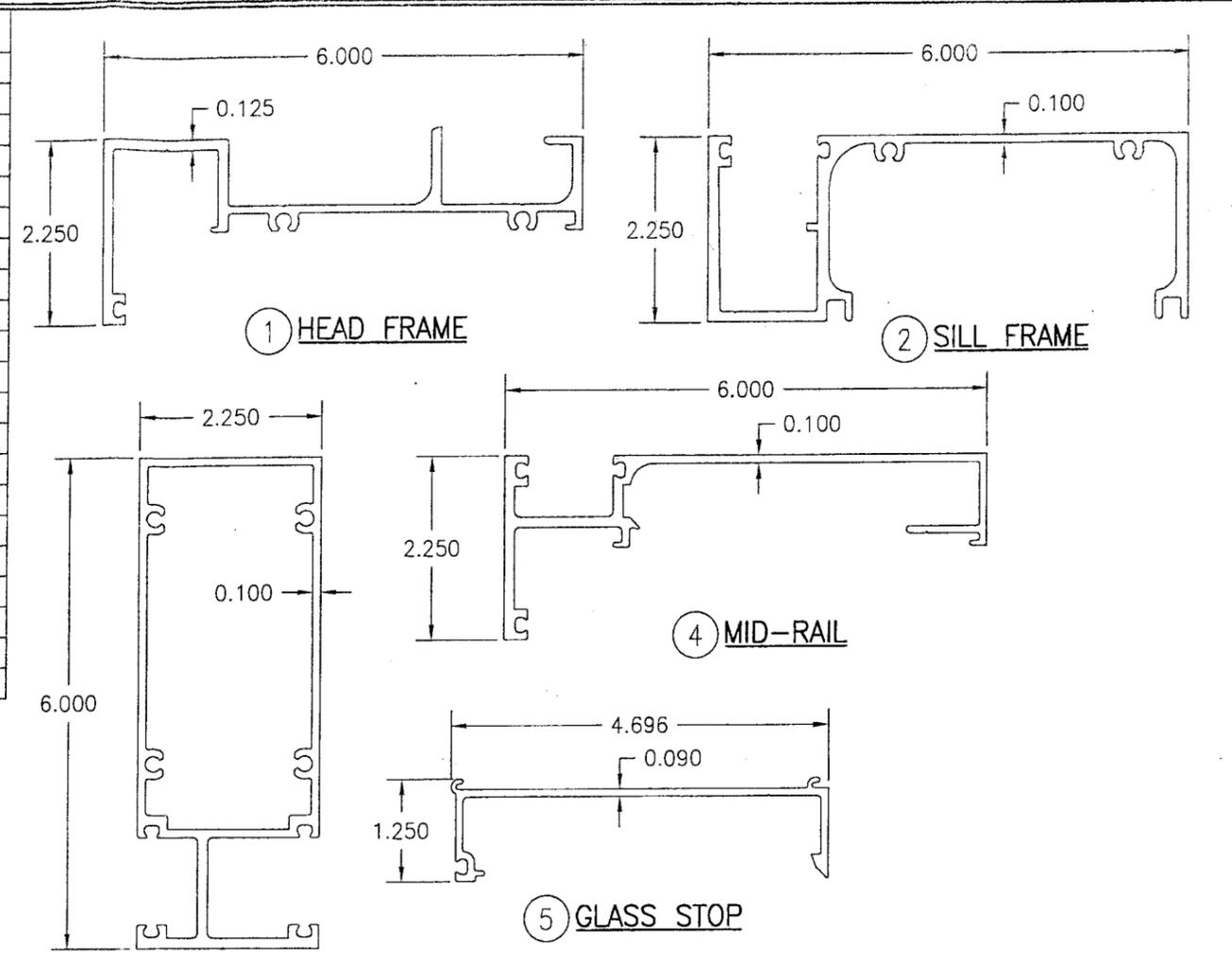
**GLASS OPTIONS**

- GLASS OPTION A: 5/8" LAMINATED GLASS (1/4" H.S./0.18" VIRACON HRG-2/1/4" H.S.)
- GLASS OPTION B: 9/16" LAMINATED GLASS (1/4" H.S./0.09" SGP/1/4" H.S.)
- GLASS OPTION C: 9/16" LAMINATED GLASS (1/4" H.S./0.10" VIRACON STORMGUARD/1/4" H.S.)

**PRODUCT RENEWED**  
as complying with the Florida  
Building Code  
Acceptance No. 08-0415.09  
Expiration Date FEB 20, 2013  
By Iskagh Lhond  
Miami Dade Product Control  
Division

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 03/04/08	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE: FG 623 WINDOW WALL SYSTEM (L.M.I.)			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER: KAWNEER COMPANY, INC.	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION: APR 02 2008			
DRAWING NO. 1582			
SHEET NO. 2 OF 3			

ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	623-105	HEAD FRAME	6063-T6 ALUMINUM
2	623-113	SILL FRAME	6063-T6 ALUMINUM
3	623-107	SIDE JAMB/MULLION	6063-T6 ALUMINUM
4	623-103	MID-RAIL	6063-T6 ALUMINUM
5	623-104	GLASS STOP	6063-T6 ALUMINUM
6	623-111	GLASS STOP FILLER	6063-T6 ALUMINUM
7	623-110	SILL ANCHOR FLAT RAIL	6063-T6 ALUMINUM
8	804-171	SILL ANCHOR BENT RAIL	6063-T6 ALUMINUM
9	623-409	SHEAR BLOCK	6063-T6 ALUMINUM
10	623-402	SETTING BLOCK CHAIR	6063-T6 ALUMINUM
11	623-112	JAMB POCKET FILLER	6063-T6 ALUMINUM
12	623-406	TUBE CLIP	6063-T6 ALUMINUM
13	175-313	WATER DEFLECTOR	RIGID PVC
SEALS AND SEALANTS			
17	27-920	FIXED GASKET	EPDM
18	127-038	WEDGE GASKET	SCR-900
19	27-850	FIXED GASKET	EPDM
20	27-017	SETTING BLOCK AS REQ'D	EPDM
MISCELLANEOUS FASTENERS			
24	-	NO. 10 X 5/8" PHTFS S.S SCREW	WITHIN 6" OF ENDS & 18" MAX. O.C.



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 03/04/08	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE FG 623 WINDOW WALL SYSTEM (L.M.I.)			
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<p><b>PRODUCT RENEWED</b> as complying with the Florida Building Code Acceptance No. <u>08-045-09</u> Expiration Date <u>FEB 20, 2013</u></p> <p>By <u>Ishag I. Chaudhry</u> Miami Base Product Control Division</p> <p><b>APR 02 2008</b> WARREN W. SCHAEFER, P.E. P.E. NO. 44135</p>			
DRAWING NO. 1582		REV.	
SHEET NO. 3		OF 3	