



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.miamidade.gov/buildingcode

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 "IR-631" Window Wall System-L. M. Impact

APPROVAL DOCUMENT: Drawing No. 1482, titled "IR 631 Large Missile Impact Storefront System", sheets 1 through 3 of 3, prepared by W.W. Schaefer Engineering & Consulting, P. A., dated 06/18/08, signed and sealed by Warren W. Schaefer, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Division.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

Limitation: 1. Anchors to be supported by pipe sleeve item #12 thru the shim space.
2. Glazing is limited to insulated "Vanciva" HS laminated glass.

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 -- f 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** NOA # 06-0718.01 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 08-0822.17
Expiration Date: November 23, 2011
Approval Date: October 30, 2008
Page 1

10/16/08

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. DRAWINGS** (transferred from file # **06-0718.01**)
1. Manufacturer's die drawings and sections.
 2. Drawing No. **1482**, titled "IR 631 Large Missile Impact Storefront System", sheets 1 through 3 of 3, prepared by W.W. Schaefer Engineering & Consulting, P. A., dated 06/18/08, signed and sealed by Warren W. Schaefer, P.E.
- B. TESTS** (transferred from file # **06-0718.01**)
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. **HTL-0049-0112-05 and 0049-0506.05**, dated 05/03/05 thru 02/15/06, signed & sealed by Vinu J. Abraham, P.E.
- C. CALCULATIONS** (transferred from file # **06-0718.01**)
1. Anchor verification calculations, prepared by W.W. Schaefer Engineering & Consulting, P. A., dtd 11/14/05 & revised on 07/10/06, signed & sealed by Warren W. Schaefer, P.E.
 2. Glazing complies with ASTM E-1300-02 and ASTM E-1300-04
- D. QUALITY ASSURANCE BY:**
1. Miami-Dade Building Code Compliance Office (BCCO).
- E. MATERIAL CERTIFICATIONS**
1. Notice of Acceptance No. **03-0415.01** issued to Solutia, for "Vanceva™", expiring on 12/11/2008.
- F. STATEMENTS**
1. Statement anchor verification, complying w/ FBC 2007, prepared by W.W. Schaefer Engineering & Consulting, P. A., dated 04/15/08, signed and sealed by Warren W. Schaefer, P.E.
 2. Statement letters of conformance and "No financial interest", prepared by W.W. Schaefer Engineering & Consulting, P. A., dated 11/14/05 and 07-05-06 respectively, both signed and sealed by Warren W. Schaefer, P.E. (transferred from file # **06-0718.01**)
 3. Statement of compliance, issued as part of the above referenced test report issued by Hurricane Testing Laboratory.
- G. OTHER**
1. This NOA revises NOA # **06-0718.01**, expired on November 23, 2011.

Ishaq I. Chanda

Ishaq I. Chanda, P.E.

Product Control Examiner

NOA No 08-0822.17

Expiration Date: November 23, 2011

Approval Date: October 30, 2008

GENERAL NOTES:

1. THESE STORE FRONT 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 STORE FRONT SYSTEMS.
5. THESE STORE FRONT 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. 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.
8. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT.
9. 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.

CORNER & FRAME END CONSTRUCTION:

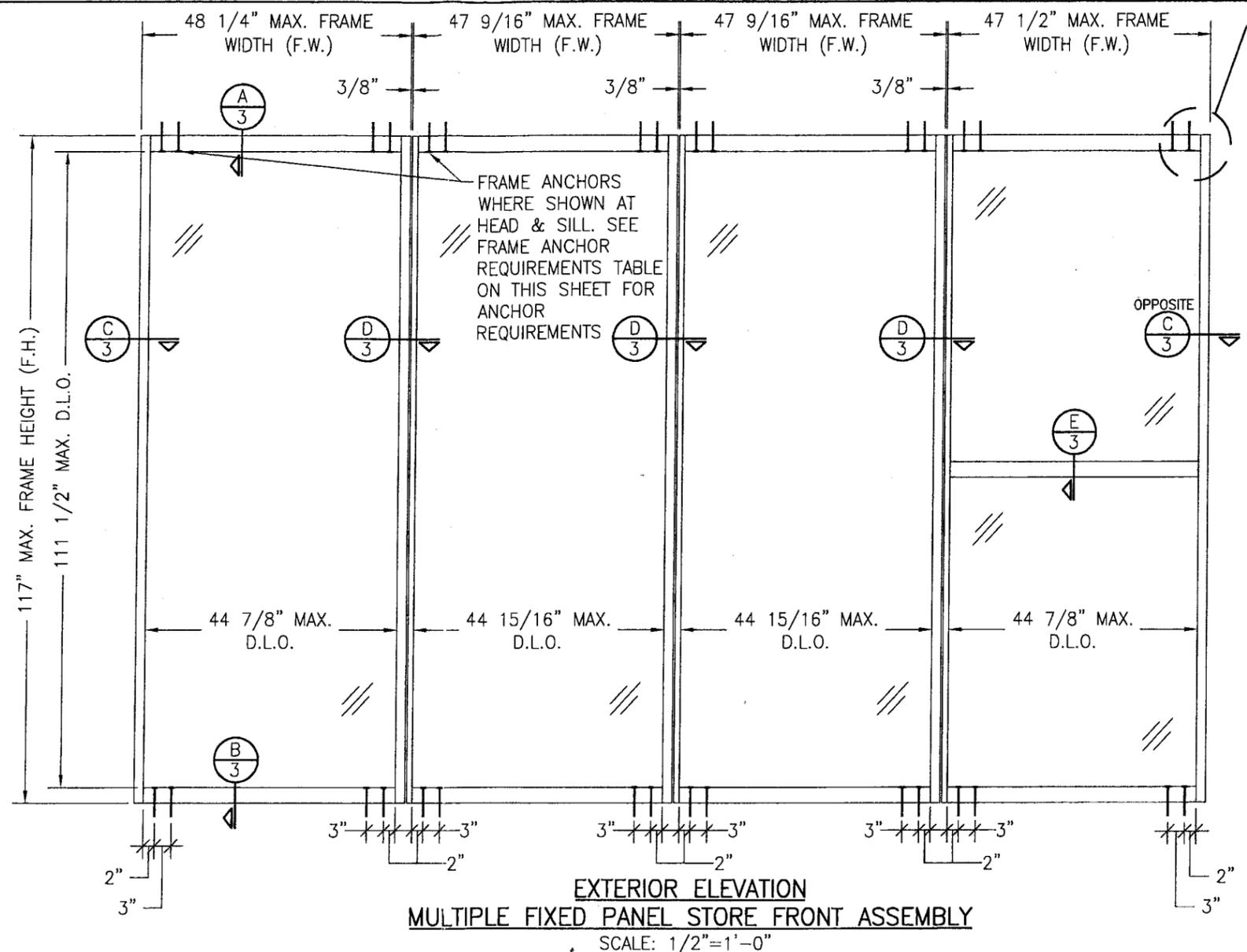
FRAME CORNER: THE VERTICAL FRAME MEMBER RAN THROUGH WHILE THE HORIZONTAL FRAME MEMBER END WAS SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER USING THREE (3) #12 X 1 3/4" SCREWS & SEALED WITH DOW 795 SILICONE SEALANT.

HORIZONTAL (MID-RAIL) END: THE VERTICAL FRAME MEMBER RAN THROUGH WHILE THE HORIZONTAL FRAME MEMBER END WAS SQUARE CUT, BUTTED AND MECHANICALLY FASTENED TO THE VERTICAL FRAME MEMBER USING TWO (2) #12 X 1 3/4" SCREWS & SEALED WITH DOW 795 SILICONE SEALANT.

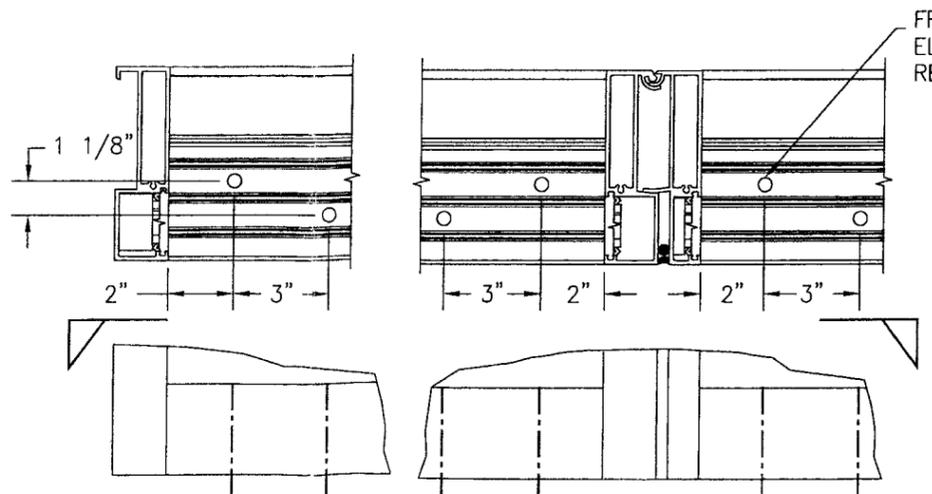
ALLOWABLE DESIGN PRESSURE
+/-95 PSF

FRAME ANCHOR REQUIREMENTS TABLE			
FRAME & SILL ANCHORS			
OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 1/4" THICK A36 STEEL	(1) 3/8" H.H. MACHINE SCREW	FULL	3/4"
MIN. 3000 P.S.I. CONCRETE	(2) 3/8" WEDGE ANCHOR	2 1/2"	3"

(1) MACHINE SCREWS SHALL BE MIN. GRADE 5 CORROSION RESISTANT STEEL
(2) 3/8" WEDGE ANCHORS SHALL BE POWERS RAWL POWERBOLT, RAMSET RED HEAD DYNABOLT OR HILTI KWIK-BOLT II (STEEL OR S.S.)



EXTERIOR ELEVATION
MULTIPLE FIXED PANEL STORE FRONT ASSEMBLY
SCALE: 1/2"=1'-0"

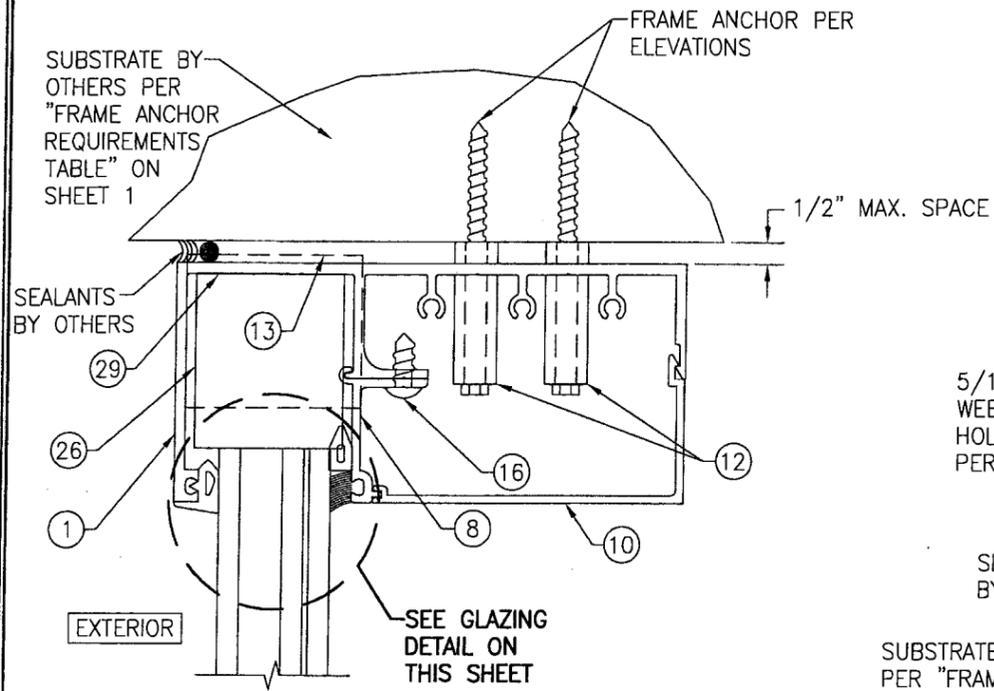


MULLION END CONNECTION DETAIL

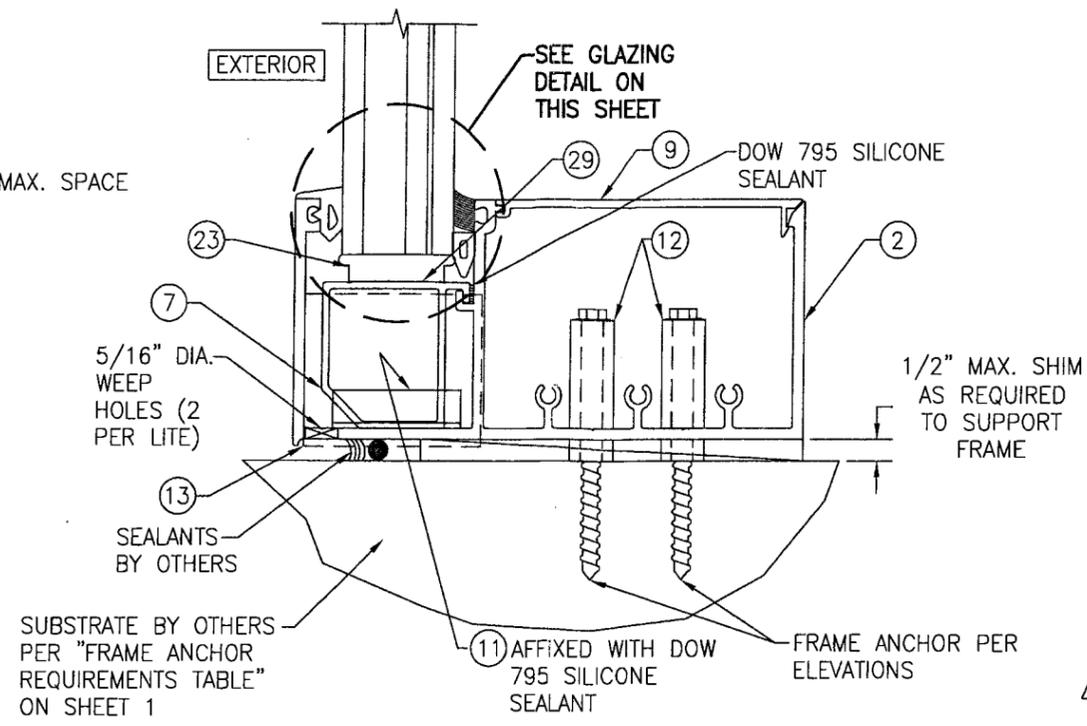
SEE CORNER CONSTRUCTION DESCRIPTIONS ON THIS SHEET

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-24	DATE: 06/26/06
DATE: 06/18/08	
BY: W.W.S.	
REVISION DESCRIPTION	
NO. 1	UPDATE GENERAL NOTES
DRAWING TITLE IR 631 - LARGE MISSILE IMPACT STORE FRONT SYSTEM	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
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 JUN 18 2008	By: Isaac J. Lhasuda Miami Dade Product Control Division
DRAWING NO. 1482	REV. A
SHEET NO. 1 OF 3	

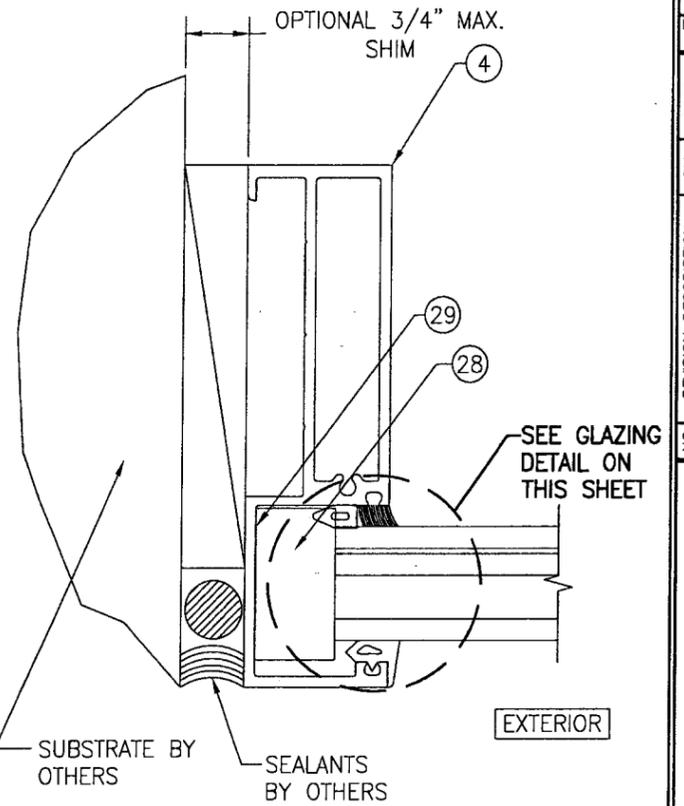
PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No **08-0822-17**
Expiration Date **Nov 23, 2011**
By **Isaac J. Lhasuda**
Miami Dade Product Control Division



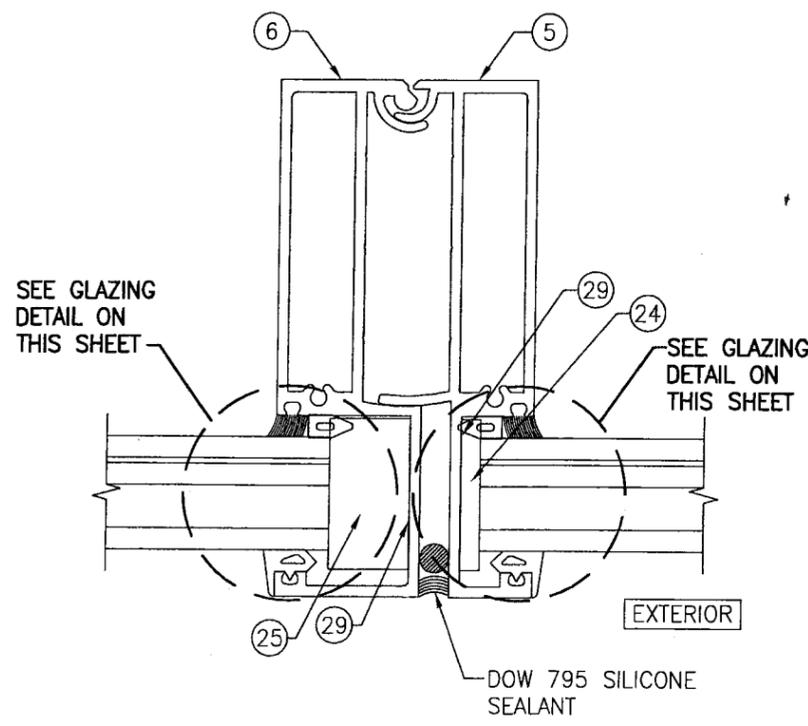
SECTION A
SCALE: 1/2 FULL



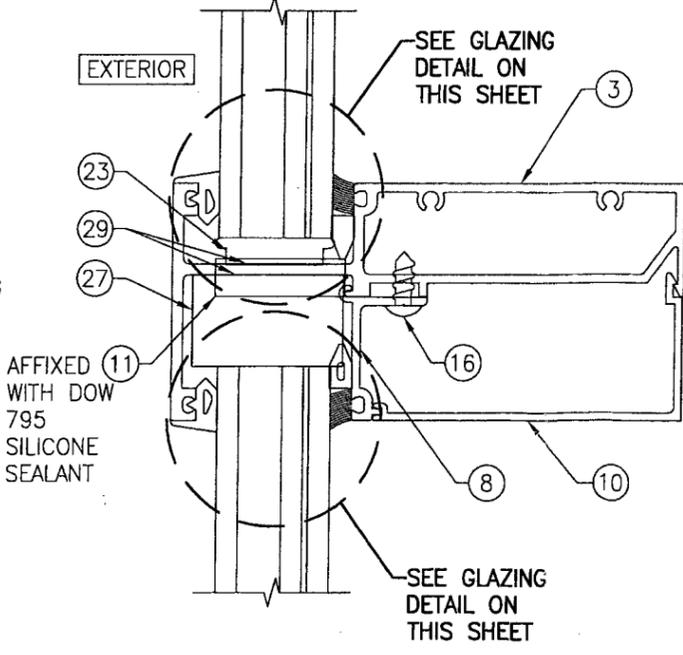
SECTION B
SCALE: 1/2 FULL



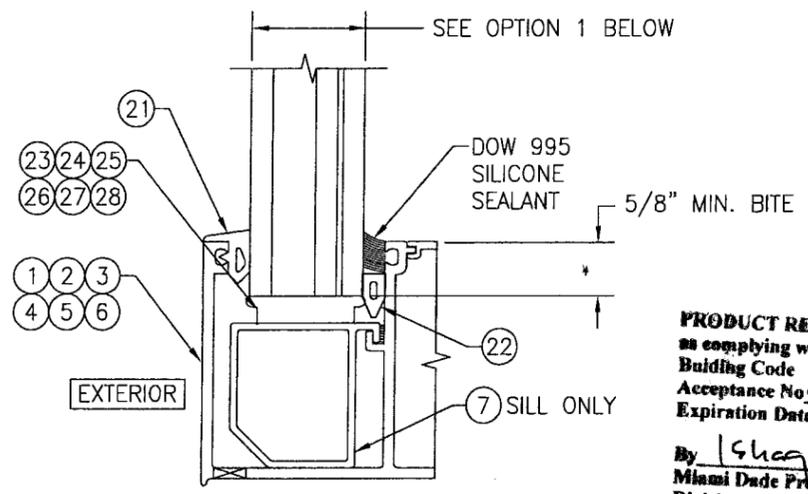
SECTION C
SCALE: 1/2 FULL



SECTION D
SCALE: 1/2 FULL



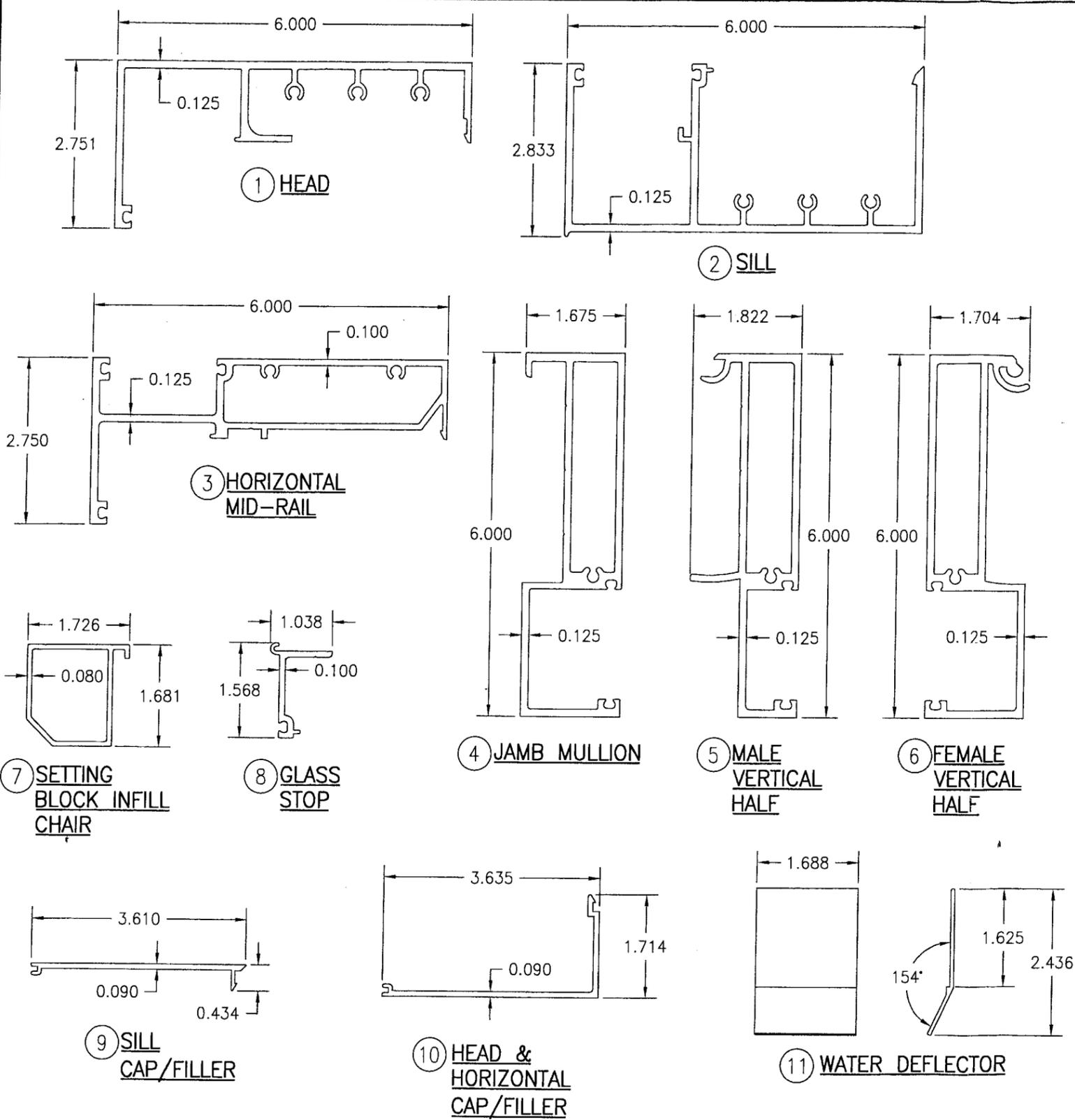
SECTION E
SCALE: 1/2 FULL



TYP. GLAZING DETAIL
SCALE: 1/2 FULL
OPTION 1. 1 5/16" THICK LAMINATED I.G. SOLUTIA VANCEVA GLASS WITH 1/4" THICK HEAT STRENGTHENED OUTER PANE, 1/2" AIR SPACER, AND 9/16" THICK LAMINATED INNER GLASS (1/4" H.S./0.07 VANCEVA/1/4" H.S.)

PRODUCT REVISED
as complying with the Florida Building Code
Acceptance No. 06-0822-17
Expiration Date NOV 25, 2011
By *Shag I. Ulanda*
Miami Dade Product Control Division

DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 06/26/06	
DATE	BY	REVISION DESCRIPTION	NO.
DRAWING TITLE IR 631-LARGE MISSILE IMPACT STORE FRONT SYSTEM			
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 KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION JUN 18 2008 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1482		REV. A	
SHEET NO. 2 OF 3			



ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	831-492	HEAD RAIL	6063-T6 ALUMINUM
2	831-496	SILL RAIL	6063-T6 ALUMINUM
3	831-495	HORIZONTAL MID-RAIL	6063-T6 ALUMINUM
4	831-499	JAMB MULLION	6063-T6 ALUMINUM
5	831-510	MALE VERTICAL HALF	6063-T6 ALUMINUM
6	831-511	FEMALE VERTICAL HALF	6063-T6 ALUMINUM
7	831-498	SETTING BLOCK INFILL CHAIR	6063-T6 ALUMINUM
8	831-493	GLASS STOP	6063-T6 ALUMINUM
9	831-497	SILL CAP/FILLER	6063-T6 ALUMINUM
10	831-494	HEAD & HORIZONTAL CAP/FILLER	6063-T6 ALUMINUM
11	831-656	WATER DEFLECTOR	ASTM A53F LOW-CARBON STEEL
12	-	3/8" X 1 1/4" SCH. 80 PIPE SLEEVE	ASTM A53F LOW-CARBON STEEL
13	575-038	END CAP	6063-T6 ALUMINUM
MISC. FASTENERS			
16	128-100	1/4" X 5/8" SELF TAPPING SCREW	3" FROM EACH END & ONE (1) AT MID-SPAN
SEALS AND SEALANTS			
21	027-850	FIXED GASKET	TREMCO; SHORE "A" 60 DUROMETER EPDM
22	027-575	WEDGE GASKET (WET GLAZING ONLY)	TREMCO; SHORE "A" 60 DUROMETER EPDM
23	831-578	SETTING BLOCK	KRP; SHORE "A" 85 DUROMETER EPDM
24	831-542	SIDE BLOCK; SHALLOW POCKET	KRP; SHORE "A" 85 DUROMETER EPDM
25	831-579	SIDE BLOCK; DEEP POCKET	KRP; SHORE "A" 85 DUROMETER EPDM
26	831-658	"W" BLOCK; HEAD	KRP; SHORE "A" 85 DUROMETER EPDM
27	831-657	"W" BLOCK; HORIZONTAL	KRP; SHORE "A" 85 DUROMETER EPDM
28	422-434	"W" BLOCK; JAMB	KRP; SHORE "A" 85 DUROMETER EPDM
29	027-895	DOUBLE SIDED TAPE	3M; ACRYLIC FOAM

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 08-0822.17
 Expiration Date Nov 23, 2011
 By *W. Schaefer*
 Miami Dade Product Control
 Division

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 08/26/06
DATE 06/19/08	
BY W.W.S.	
REVISION DESCRIPTION CORRECT PART # FOR 9 & 10	
NO. A1	
DRAWING TITLE IR 631-LARGE MISSILE IMPACT STORE FRONT SYSTEM	
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 KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION JUN 18 2008	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1482	REV. A
SHEET NO. 3 OF 3	