



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.buildingcodeonline.com

NOTICE OF ACCEPTANCE (NOA)

Kawneer Company, Inc.
555 Guthridge Court.
Norcross, GA 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 the High Velocity Hurricane Zone.

DESCRIPTION: Series "IR631" Aluminum Store Front System – L.M.I.

APPROVAL DOCUMENT: Drawing No.1482, titled "IR 631" – Large Missile Impact Store Front System, sheets 1 through 3 of 3, dated 06/26/06, 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 page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Jaime D. Gascon, P.E.**



J. Gascon
11/23/06

NOA No 06-0718.01
Expiration Date: November 23, 2011
Approval Date: November 23, 2006
Page 1

Kawneer Company, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

- A. DRAWINGS**
1. Manufacturer's die drawings and sections.
 2. Drawing No **1482**, Sheets 1 through 3 of 3-, titled "**IR 631** – Large Missile Impact Store Front System", prepared by Warren W. Schaefer, dated 06/26/06, 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
along with marked-up drawings and installation diagram of series IR631 Inside Glaze 2 ¾" x 6" window wall systems, prepared by Hurricane Test Laboratory, LLC, and Test Reports No. **HTL-0049-0112-06** and **HTL-0049-0506-05**, dated 06/07/11, signed and sealed by Vinu J. Abraham, P.E.
- C. CALCULATIONS**
1. Anchor Calculations and structural analysis, complying with FBC-2004, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 11/11/05, signed and sealed by Warren W. Schaefer, P.E.
Complies with ASTM E1300-98/02
- D. QUALITY ASSURANCE**
1. Miami Dade Building Code Compliance Office (BCCO).
- E. MATERIAL CERTIFICATIONS**
1. Notice of Acceptance No. **03-0415.13** issued to Solutia Inc. for their "Vanceva Composites used for lamination of glass" dated 12/11/03, expiring on 12/11/08.
- F. STATEMENTS**
1. Statement letter of conformance, dated November 14, 2005, signed and sealed by Warren W. Schaefer, P.E.
 2. Statement letter of no financial interest, dated July 05, 2006 signed and sealed by Warren W. Schaefer, P.E.
 3. Laboratory compliance letter for Test Report no. **HTL-0049-0112-06** and **HTL-0049-0506-05**, issued by Hurricane Test Laboratory, Inc., dated June 07, 2006, signed and sealed by Vinu J. Abraham, P.E.
- G. OTHER**
1. None.



Jaime D. Gascon, P.E.
Chief, Product Control Division
NOA No 06-0718.01

Expiration Date: November 23, 2011
Approval Date: November 23, 2006

GENERAL NOTES

1. THESE STORE FRONT SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOADS" TABLES.
2. BUCKING &/OR SUPPORTING SUBSTRATES MUST BE PROPERLY DESIGNED, CONSTRUCTED & INSTALLED TO SUPPORT LOADS TRANSFERRED FROM THESE SYSTEMS.
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 STORE FRONT 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. THERE SHALL BE NO LIMIT TO THE NUMBER OF HORIZONTAL & VERTICAL PANELS USED FOR ANY JOB PROVIDING ALL RESTRICTIONS ARE MET PER THE ELEVATIONS.
9. ALL SUBSTRATE SHALL HAVE THE FOLLOWING MINIMUM REQUIREMENTS.
 - a) ALL CONCRETE SUBSTRATE SHALL BE MIN. 3000 PSI.
 - b) ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MIN. 1/4" THK. & Fy = 36 ksi.
10. 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.

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.

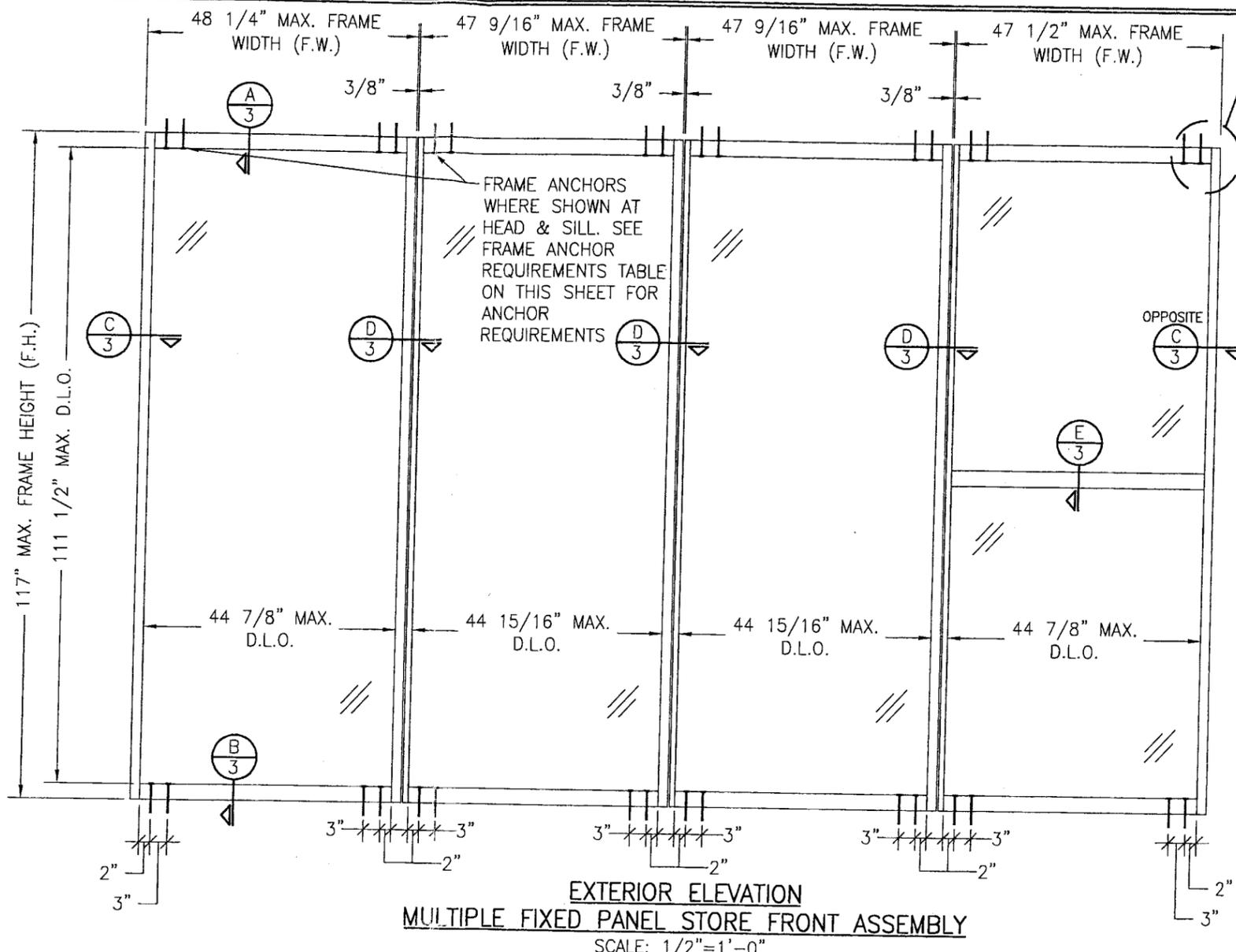
ALLOWABLE DESIGN PRESSURE

+/-95 PSF

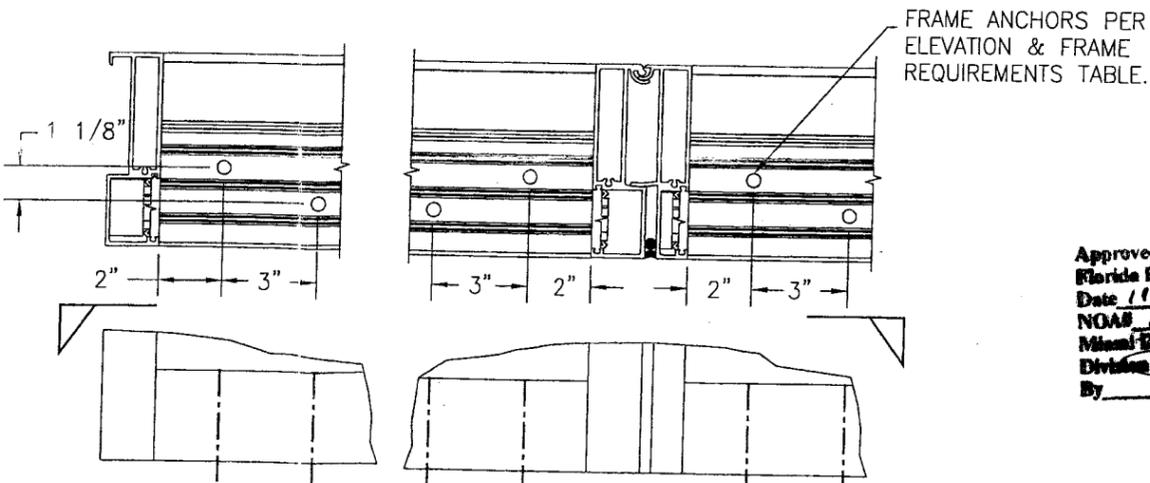
FRAME ANCHOR REQUIREMENTS TABLE

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
NO.	REVISION DESCRIPTION

MANUFACTURER
KAWNEER COMPANY, INC.
 555 GUTHRIE COURT
 NORCROSS, GA 30092
 770-449-5555

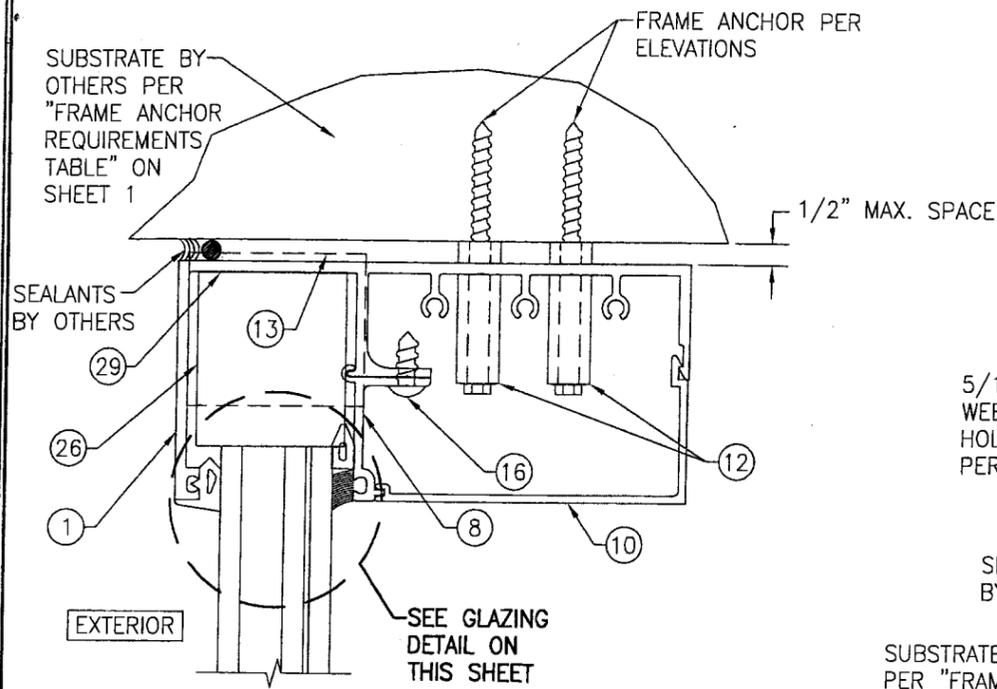
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
 6885 N. MILITARY TRAIL, SUITE C-204
 PALM BEACH GARDENS, FL 33410
 PHONE: 561-775-4902 FAX: 561-775-4903

DRAWING TITLE
 IR 631-LARGE MISSILE IMPACT STORE FRONT SYSTEM

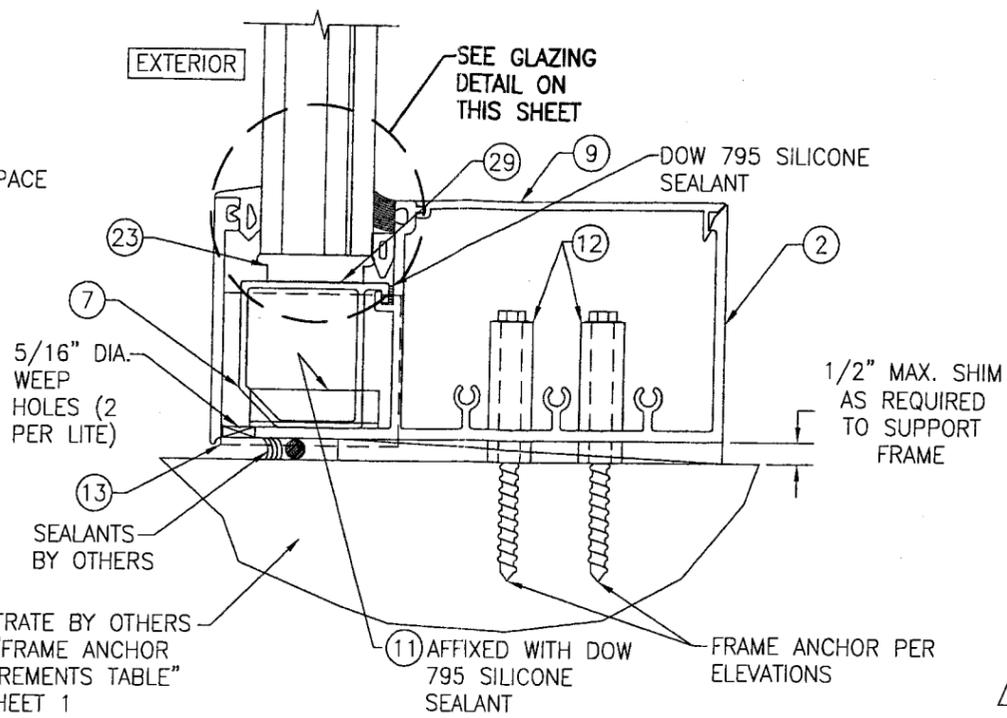
CERTIFICATION
 DATE: 06 2006
 BY: WARREN W. SCHAEFER, P.E.
 P.E. NO. 44135

DRAWING NO. 1482
REV.
SHEET NO. 1 OF 3

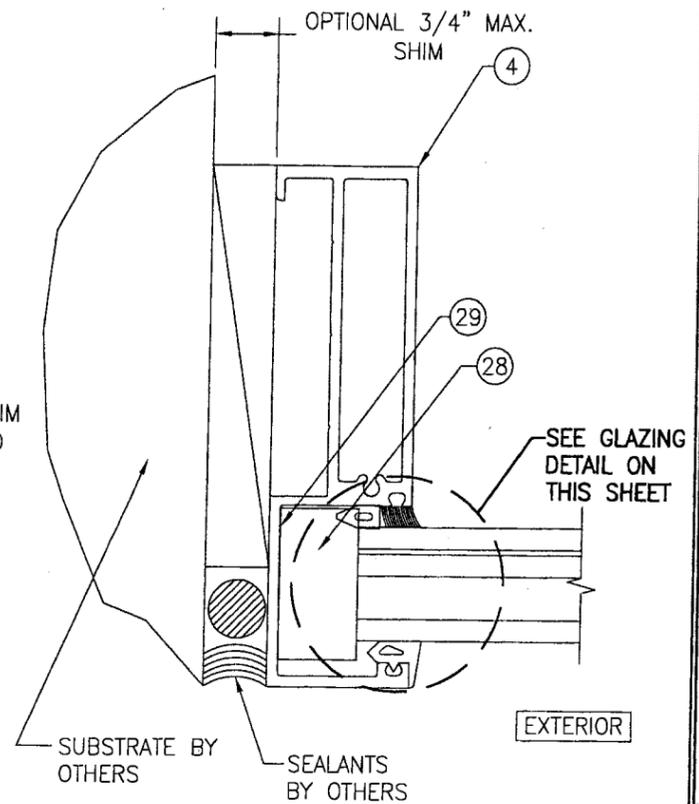
Approved as complying with the Florida Building Code
 Date 10/23/06
 NOAM 06-0-18-01
 Miami-Dade Product Control Division
 By: *[Signature]*



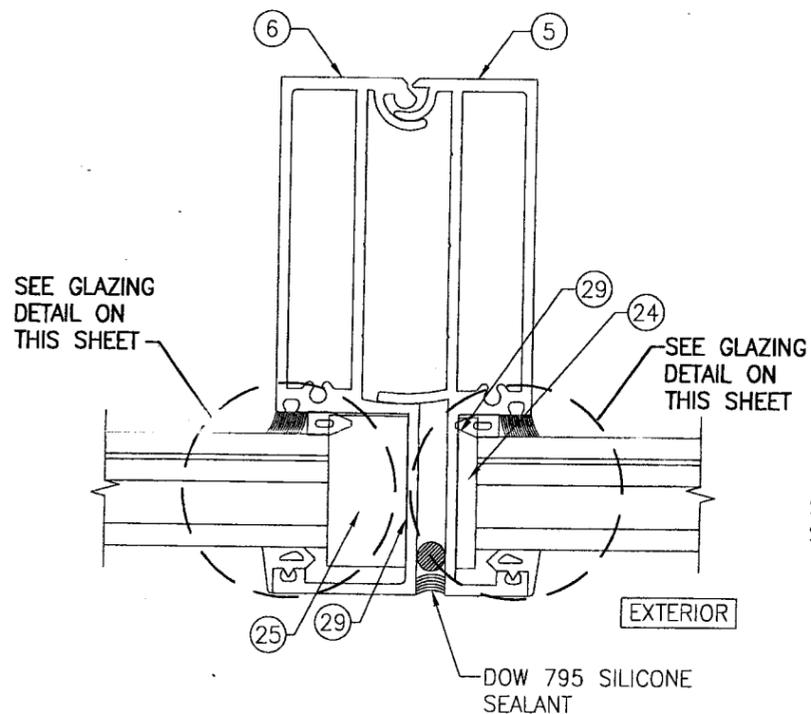
SECTION A
SCALE: 1/2 FULL



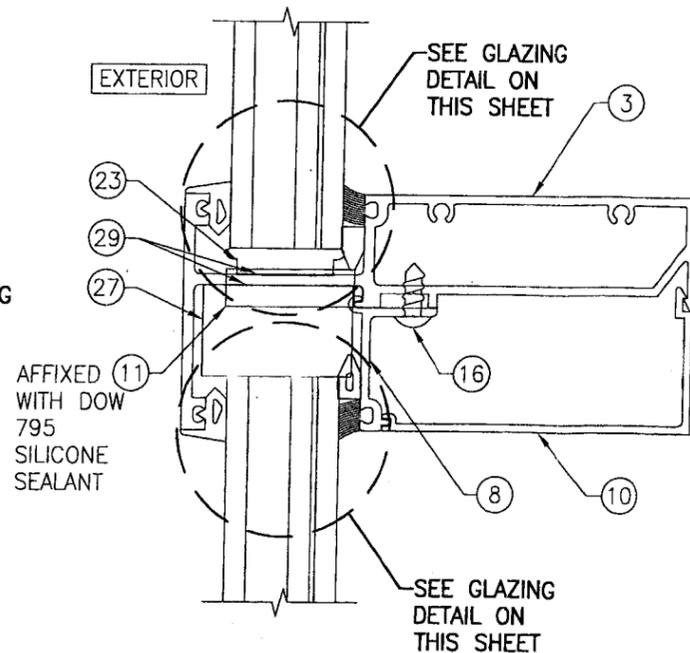
SECTION B
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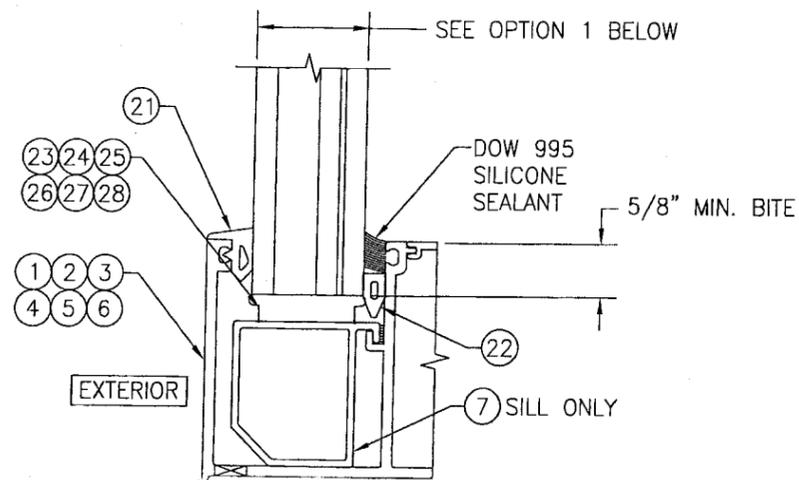
SECTION C
SCALE: 1/2 FULL



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.)

Approved as complying with the Florida Building Code
Date: 4/23/06
NOAA 06-0712-01
Minimum Code Product Control
By: [Signature]

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 06/26/06
DATE	
BY	
REVISION DESCRIPTION	
NO.	

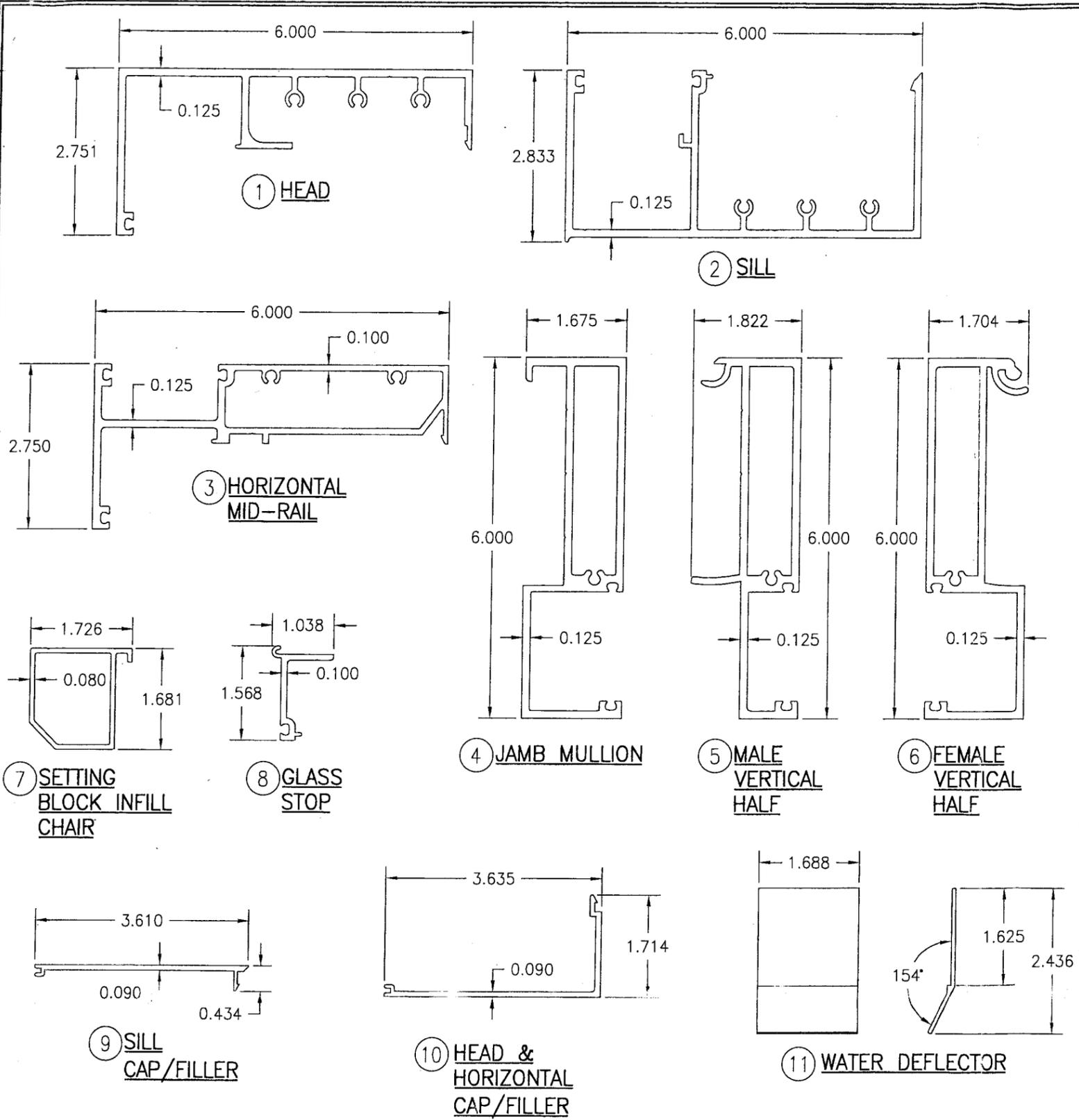
DRAWING TITLE
IR 631-LARGE MISSILE IMPACT STORE FRONT SYSTEM

MANUFACTURER
KAWNEER COMPANY, INC.
555 GUTHRIE 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
11/16/2006
W. W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1482	REV.
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	831-494	SILL CAP/FILLER	6063-T6 ALUMINUM
10	831-497	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

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 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION JUL 06 2006 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1482	REV.
SHEET NO. 3	OF 3

Approved as complying with the Florida Building Code
 Date: 11/20/06
 NOA: 06-0310-01
 Minimal Date Product Change
 Division
 By: *Janine*