



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, 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 - SMI**

**APPROVAL DOCUMENT:** Drawing No. 1458, titled "IR 631- Small Missile Impact Store Front System", sheets 1 through 4 of 4 prepared by W.W Schaefer Engineering & Consulting, P.A., dated 11/02/05, 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: Small Missile 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 **Jaime D. Gascon, P.E.**



*J. Gascon*  
 7/6/06

NOA No 05-1227.04  
 Expiration Date: July 27, 2011  
 Approval Date: July 27, 2006  
 Page 1

Kawneer Company, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

**A. DRAWINGS**

1. Manufacturer's die drawings and sections.
2. Drawing No. **1458**, titled "IR 631- Small Missile Impact Store Front System", sheet 1 through 4 of 4, prepared by W.W Schaefer Engineering & Consulting, P.A., dated 11/02/05, 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 20294  
3) Water Resistance Test, per FBC, TAS 202-94  
4) Small 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 an IR-631 aluminum wall system door, prepared by Hurricane Test Laboratory, LLC., Test Report No. **HTL-0049-0313-05**, dates 03/01/5 - 05/06/05, signed and sealed by Vinu J. Abraham, P.E.

**C. CALCULATIONS**

1. Revised Anchor Calculations and structural analysis, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 06/12/05, signed and sealed by Warren W. Schaefer, P.E.  
**Complies with ASTM E 1300-02**

**D. QUALITY ASSURANCE**

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

**E. MATERIAL CERTIFICATIONS**

- 1.0. 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 and no financial interest, dated 11/14/05, signed and sealed by Warren W. Schaefer, P.E.

**G. OTHER**

1. Letter from the consultant, dated 06/20/06, stating that the product is in compliance with the Florida Building Code (FBC).



Jaime D. Gascon, P.E.  
Chief, Product Control Division  
NOA No 05-1227.04  
Expiration Date: July 27, 2011  
Approval Date: July 27, 2006

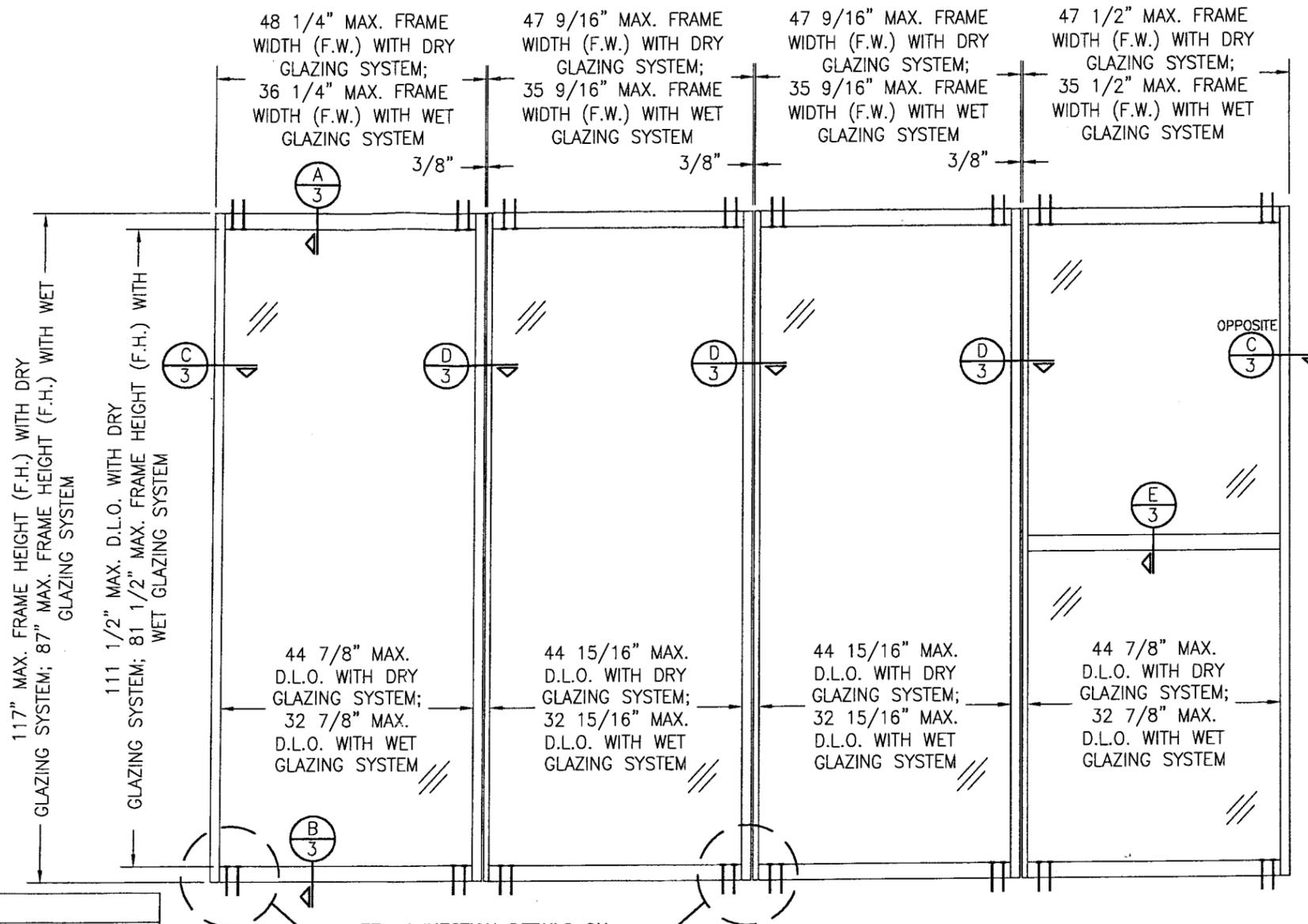
**GENERAL NOTES**

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 & MAY NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, FORCED ENTRY & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE 2004 FLORIDA BUILDING CODE PROTOCOLS TAS-202 FOR NON-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. THESE STORE FRONT SYSTEMS ARE SMALL MISSILE IMPACT RATED AND MAY NOT BE INSTALLED AT ELEVATIONS BELOW 30 FT. ABOVE GRADE UNLESS SHUTTERED BY A FLORIDA CODE APPROVED SHUTTER.
7. ALL ANCHORS SHALL BE INSTALLED AS SPECIFIED ON THESE DRAWINGS. SPECIFIED EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
8. ALL FRAME ANCHORS SECURING WINDOW/DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
9. THERE SHALL BE NO LIMIT TO THE NUMBER OF HORIZONTAL & VERTICAL PANELS USED FOR ANY JOB PROVIDING ALL RESTRICTIONS ARE MET PER THE ELEVATIONS.
10. ALL SUBSTRATE SHALL HAVE THE FOLLOWING MINIMUM REQUIREMENTS.
  - a) ALL CONCRETE SUBSTRATE SHALL BE MIN. 3000 PSI.
  - b) ALL WOOD SUBSTRATE SHALL BE MIN. G = 0.55 DENSITY.
  - c) ALL METAL STUD SUBSTRATE SHALL BE MIN. 16 GA. Fy = 50 ksi.
  - d) ALL STRUCTURAL STEEL SUBSTRATE SHALL BE MIN. 1/8" THK. & Fy = 36 ksi.
11. 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 2 1/4" 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 2 1/4" SCREWS & SEALED WITH DOW 795 SILICONE SEALANT.



SEE CONNECTION DETAILS ON SHEET 2 FOR ANCHOR QUANTITY REQUIREMENTS

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

**FRAME ANCHOR REQUIREMENTS TABLE**

FRAME & SILL ANCHORS				
ANCHOR TYPE	OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
A	2X_ WOOD FRAME OR BUCK	(1) 1/4" CONCRETE SCREW	1 3/8"	3/4"
B	MIN. 16 GA. 33 KSI METAL STUD	(2) 1/4" SELF DRILL/TAP SCREW	FULL	1/2"
C	MIN. 1/4" THICK A36 STEEL	(2) 3/8" H.H. MACHINE SCREW	FULL	3/4"
D	MIN. 3000 P.S.I. CONCRETE	(3) 3/8" WEDGE ANCHOR	2 1/2"	3"
E	MIN. 1/8" THICK A36 STEEL	(2) 1/4" SELF DRILL/TAP SCREW	FULL	1/2"
F	MIN. 3000 P.S.I. CONCRETE	(4) 1/4" WEDGE ANCHOR	2"	3"

- (1) CONCRETE SCREWS SHALL BE ELCO OR ITW RAMSET/RED HEAD TAPCONS, POWERS RAWL TAPPER OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).
- (2) SELF DRILLING/TAPPING SCREWS & MACHINE SCREWS SHALL BE MIN. GRADE 5 CORROSION RESISTANT STEEL
- (3) 3/8" WEDGE ANCHORS SHALL BE POWERS RAWL POWERBOLT OR HILTI KWIK-BOLT II (STEEL OR S.S.)
- (4) 1/4" WEDGE ANCHORS SHALL BE POWERS RAWL POWERBOLT, HILTI KWIK-BOLT II OR ITW RAMSET/RED HEAD DYNABOLT (STEEL OR S.S.).

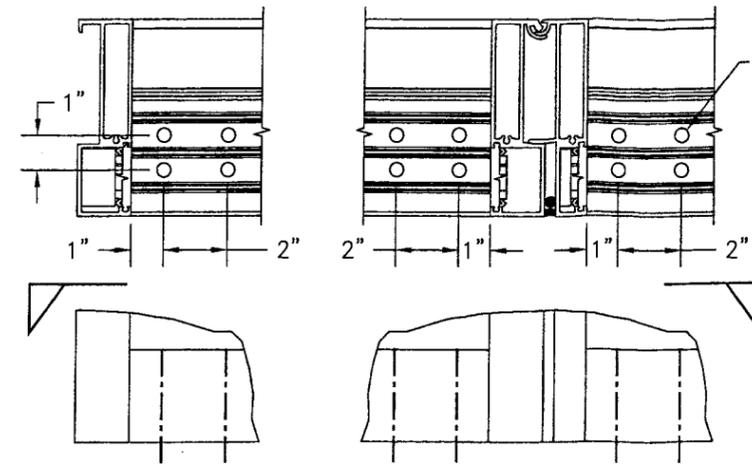
(1) ALLOWABLE DESIGN PRESSURE	
GLAZING SYSTEM	ALLOWABLE PRESSURE
DRY GLAZING	±95 P.S.F.
WET GLAZING	±135 P.S.F.

(1)SEE LOAD TABLES ON SHEET 2 FOR PRESSURE LIMITATIONS WITH RESPECT TO ANCHOR TYPE. LESSER OF PRESSURE IN ANCHOR LOAD TABLE AND THIS TABLE SHALL CONTROL.

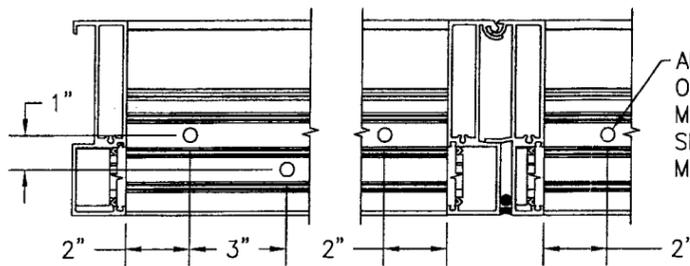
Approved as complying with the Florida Building Code  
Date 07/22/06  
NOAR 05-1227.04  
Miami Dade Product Control  
Division  
By *[Signature]*

DRAWN BY: W.R.M.	CHECKED BY: W.S.S.
PLOT: 1-24	DATE: 11/02/05
DATE	BY
NO.	REVISION DESCRIPTION
DRAWING TITLE IR 631-SMALL 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. 8885 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION NOV 30 2005 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1458	REV. 1
SHEET NO. 1	OF 4

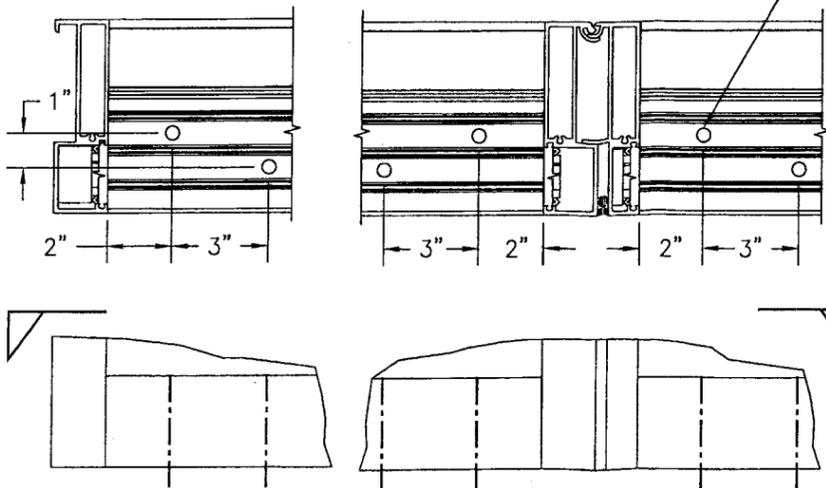
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 11/02/05
NO.	DATE
REVISION	DESCRIPTION



MULLION END CONNECTION DETAIL  
(ANCHOR TYPES "A" & "B")



MULLION END CONNECTION DETAIL  
(ANCHOR TYPES "C" & "D")



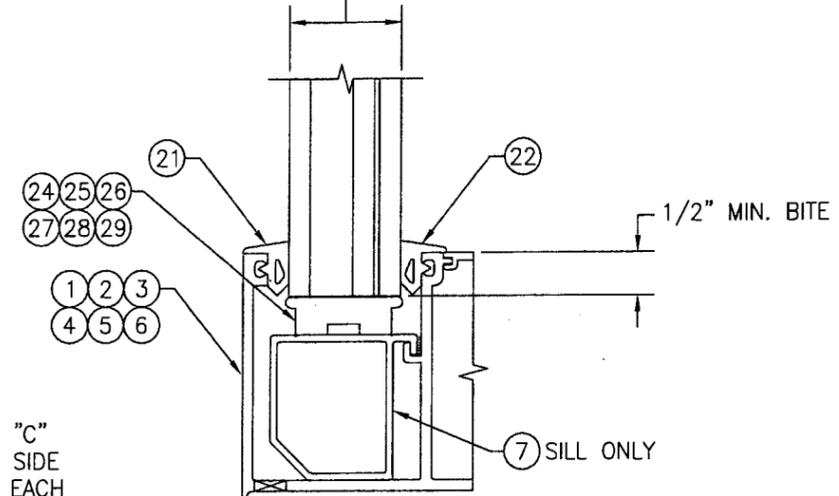
MULLION END CONNECTION DETAIL  
(ANCHOR TYPES "E" & "F")

ANCHOR TYPE "A"  
OR "B" (4 AT  
SIDE MULLION &  
4 EACH SIDE OF  
CENTER MULLION)

ANCHOR TYPE "C"  
OR "D" (2 AT SIDE  
MULLION & 1 EACH  
SIDE OF CENTER  
MULLION)

ANCHOR TYPE "E"  
OR "F" (2 AT SIDE  
MULLION & 2 EACH  
SIDE OF CENTER  
MULLION)

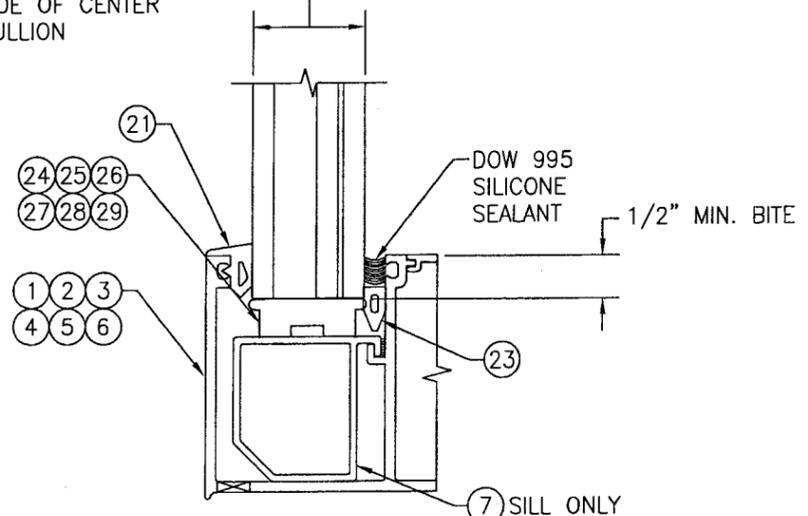
1 5/16" THICK LAMINATED I.G. SOLUTIA SAFLEX  
GLASS WITH 1/4" THICK HEAT STRENGTHENED  
OUTER PANE, 1/2" AIR SPACER, AND 9/16" THICK  
LAMINATED INNER GLASS (1/4" H.S./0.06 SAFLEX  
IIIIG PVB/1/4" H.S.)



TYP. GLAZING DETAIL 1  
(DRY GLAZING SYSTEM)  
SCALE: 1/2 FULL

Approved as complying with the  
Florida Building Code  
Date 07/27/06  
NOA# 05-1223-04  
Miami Code Product Control  
Division  
By *[Signature]*

1 5/16" THICK LAMINATED I.G. SOLUTIA SAFLEX  
GLASS WITH 1/4" THICK HEAT STRENGTHENED  
OUTER PANE, 1/2" AIR SPACER, AND 9/16" THICK  
LAMINATED INNER GLASS (1/4" H.S./0.06 SAFLEX  
IIIIG PVB/1/4" H.S.)



TYP. GLAZING DETAIL 2  
(WET GLAZING SYSTEM)  
SCALE: 1/2 FULL

ANCHOR LOAD TABLE

(1) MAXIMUM FRAME HEIGHT (IN.)	(1) MAXIMUM FRAME WIDTH (IN.)	(2) ALLOWABLE PRESSURE (P.S.F.)		
		ANCHOR TYPE A & B	ANCHOR TYPE C & D	ANCHOR TYPE E & F
117	48	95.0	95.0	75.3
	42	95.0	95.0	86.0
	36	95.0	95.0	95.0
108	48	95.0	95.0	81.6
	42	95.0	95.0	93.2
96	48	95.0	95.0	91.8
	42	95.0	95.0	95.0
90	48	95.0	95.0	95.0
87	36	135.0	135.0	135.0

(1) MAXIMUM FRAME HEIGHT & WIDTH DIMENSIONS SHOWN ARE ±1/2"  
(2) NOTE: PRESSURES ARE LIMITED TO 95 PSF WHEN FRAME HEIGHT IS GREATER THAN 87" OR FRAME WIDTH IS GREATER THAN 36". PRESSURES ARE LIMITED TO 135 PSF WHEN FRAME HEIGHT IS 87" OR LESS AND FRAME WIDTH IS 36" OR LESS.

DRAWING TITLE  
IR 631--SMALL MISSILE IMPACT STORE FRONT SYSTEM

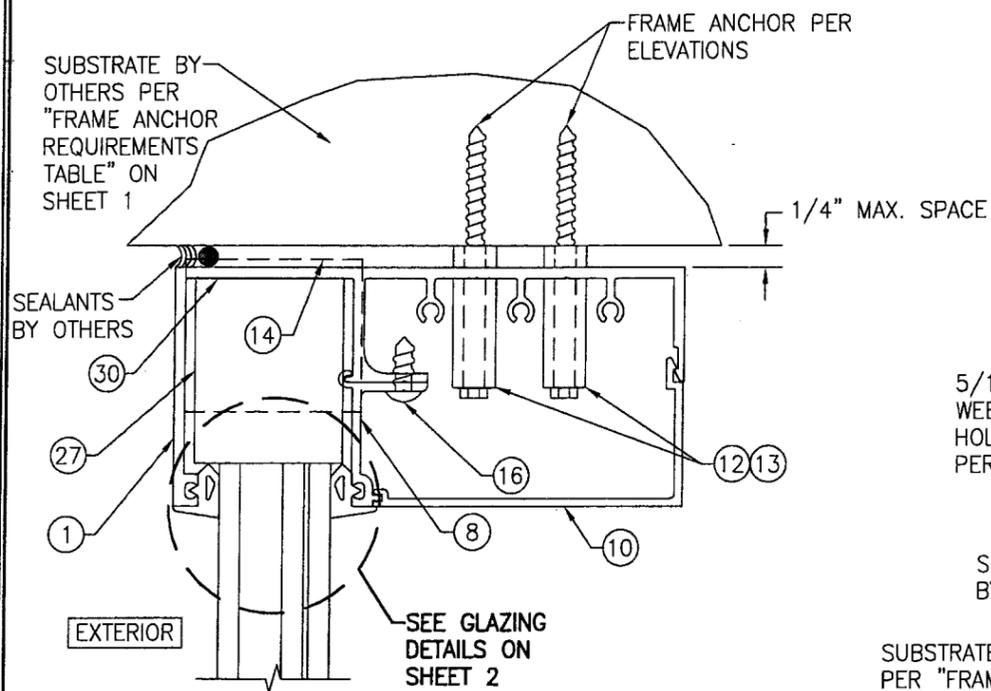
CONSULTANTS  
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.  
8885 N. MILITARY TRAIL, SUITE C-204  
PALM BEACH GARDENS, FL 33410  
PHONE: 561-775-4902 FAX: 561-775-4903

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

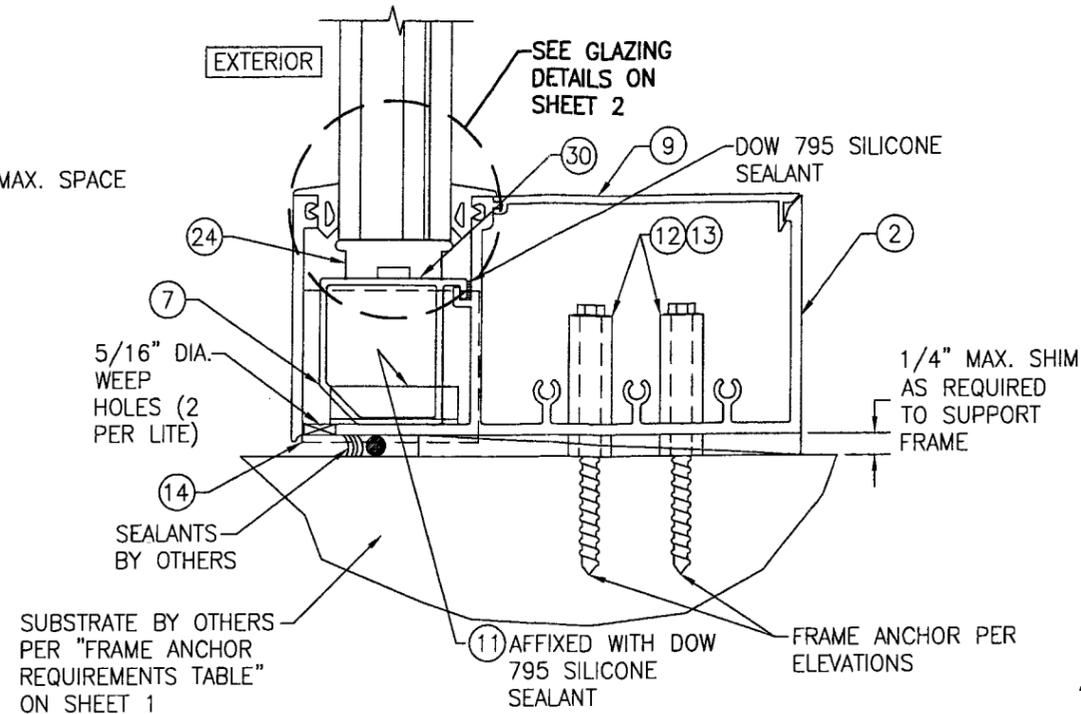
CERTIFICATION  
NOV 30 2005

DRAWING NO. 1458  
SHEET NO. 2 OF 4

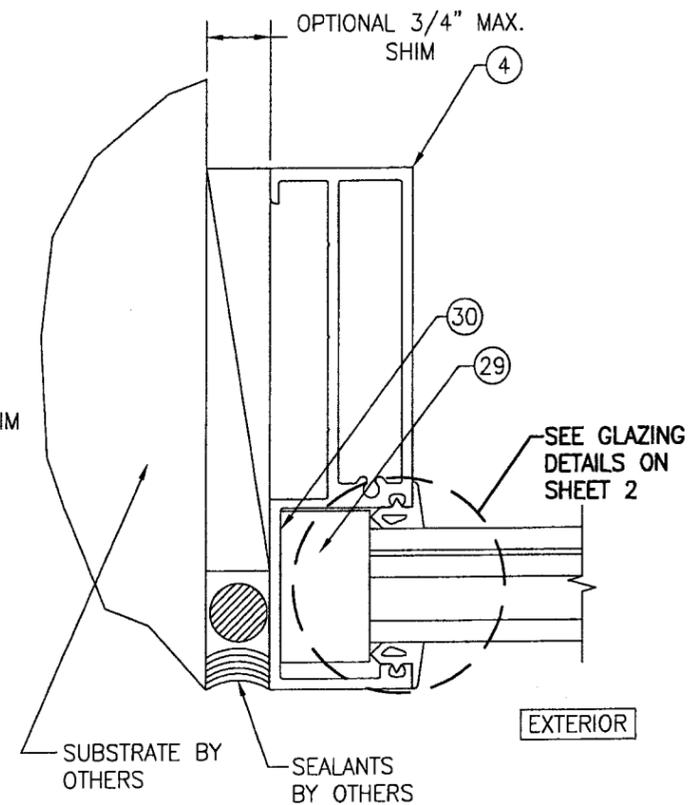
WARREN W. SCHAEFER, P.E.  
P.E. NO. 44135



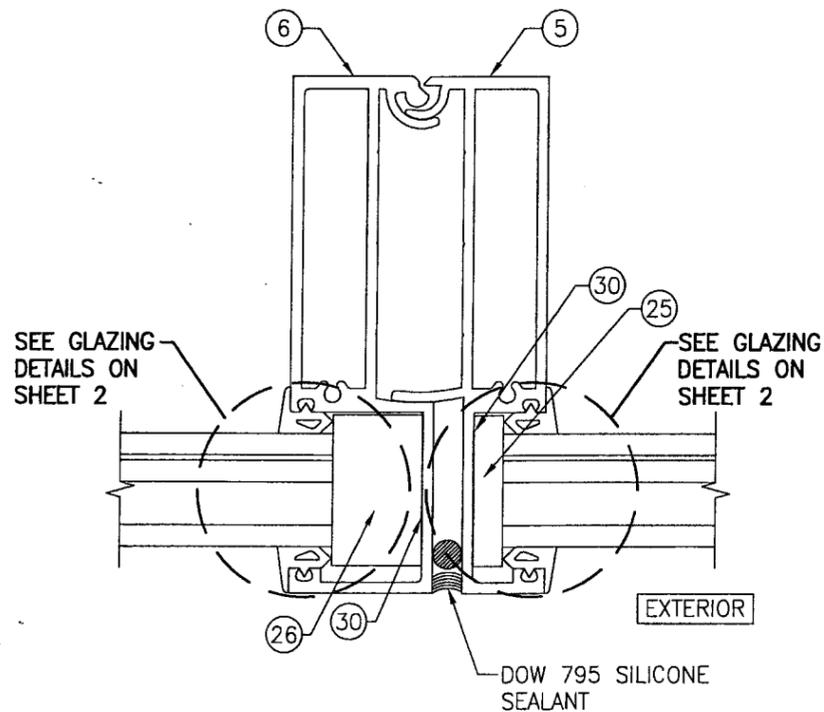
SECTION A  
SCALE: 1/2 FULL



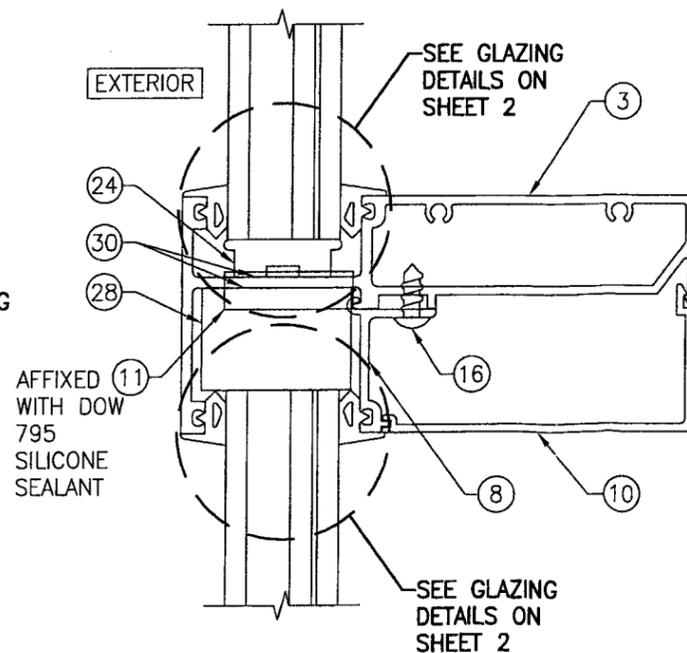
SECTION B  
SCALE: 1/2 FULL



SECTION C  
SCALE: 1/2 FULL



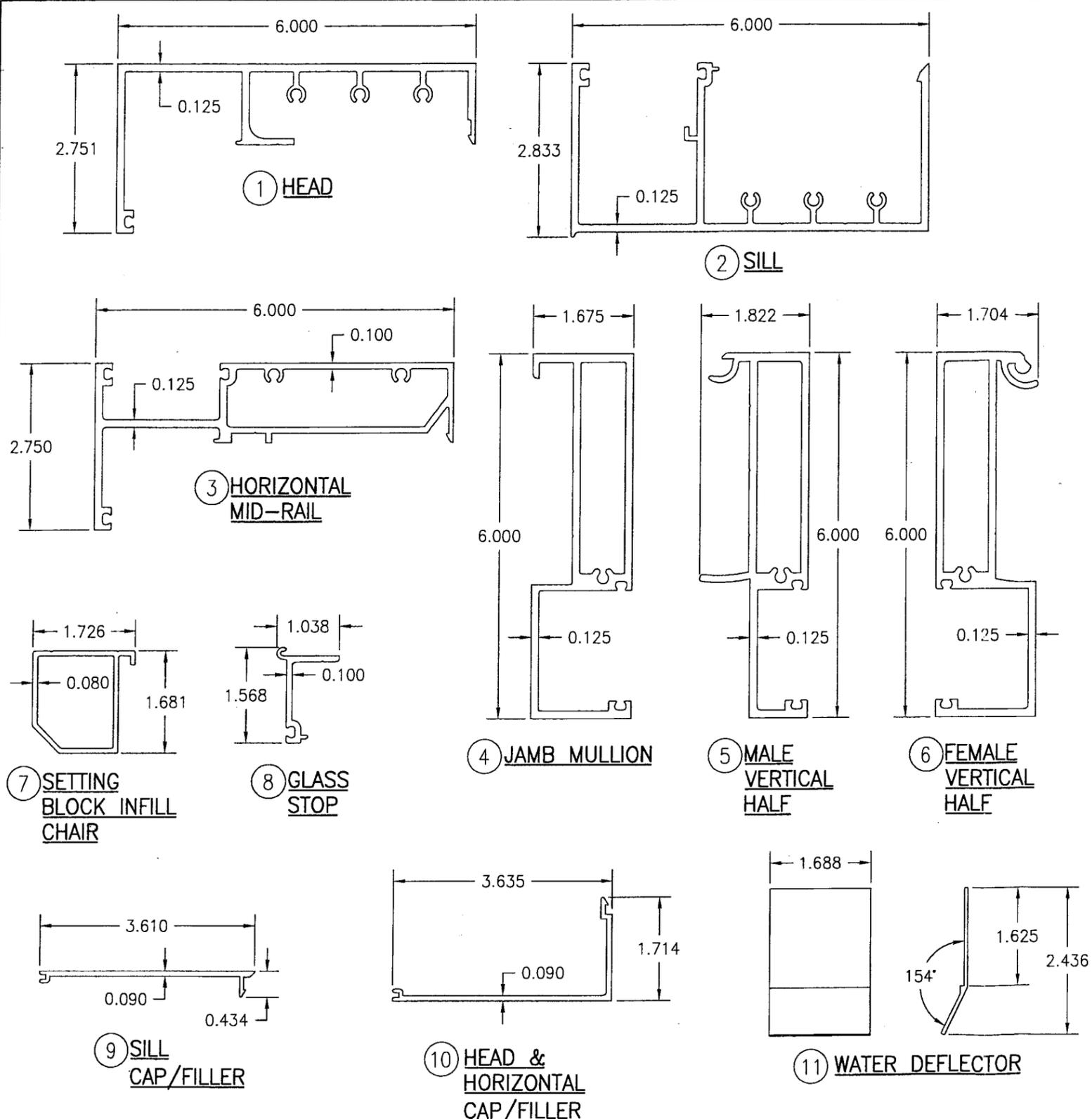
SECTION D  
SCALE: 1/2 FULL



SECTION E  
SCALE: 1/2 FULL

Approved as complying with the  
Florida Building Code  
Date 07/27/06  
NOAH 05-1223.09  
Miami Dade Product Control  
Division  
By *James Jones*

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 11/02/05
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE IR 631-SMALL MISSILE IMPACT STORE FRONT SYSTEM	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	MANUFACTURER KAWNEER COMPANY, INC.
8885 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 NOV 30 2005	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1458	REV.
SHEET NO. 3	OF 4



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	6063-T6 ALUMINUM
12	-	1/4" X 1 1/4" SCH. 80 PIPE SLEEVE	ASTM A53F LOW-CARBON STEEL
13	-	3/8" X 1 1/4" SCH. 80 PIPE SLEEVE	ASTM A53F LOW-CARBON STEEL
14	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	027-851	WEDGE GASKET (DRY GLAZING ONLY)	TREMCO; SHORE "A" 60 DUROMETER EPDM
23	027-575	WEDGE GASKET (WET GLAZING ONLY)	TREMCO; SHORE "A" 60 DUROMETER EPDM
24	831-552	SETTING BLOCK	KRP; SHORE "A" 85 DUROMETER EPDM
25	831-542	SIDE BLOCK; SHALLOW POCKET	KRP; SHORE "A" 85 DUROMETER EPDM
26	831-709	SIDE BLOCK; DEEP POCKET	KRP; SHORE "A" 85 DUROMETER EPDM
27	831-659	"W" BLOCK; HEAD	KRP; SHORE "A" 85 DUROMETER EPDM
28	123-391	"W" BLOCK; HORIZONTAL	KRP; SHORE "A" 85 DUROMETER EPDM
29	831-657	"W" BLOCK; JAMB	KRP; SHORE "A" 85 DUROMETER EPDM
30	027-895	DOUBLE SIDED TAPE	3M; ACRYLIC FOAM

Approved as complying with the Florida Building Code  
 Date 07/23/06  
 NOAH 03-1222.04  
 Miami Dade Product Control  
 Division  
 By *[Signature]*

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 11/02/05
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE <b>IR 631-SMALL MISSILE IMPACT STORE FRONT SYSTEM</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>KAWNEER COMPANY, INC.</b> 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION <b>NOV 30 2005</b>	DRAWING NO. <b>1458</b>
	REV. SHEET NO. <b>4 OF 4</b>