



MIAMI-DADE COUNTY
BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION

MIAMI-DADE COUNTY, FLORIDA
METRO-DADE FLAGLER BUILDING
140 WEST FLAGLER STREET, SUITE 1107
MIAMI, FLORIDA 33130-1563
(305) 375-2902 FAX (305) 372-6339

NOTICE OF ACCEPTANCE (NOA)

www.miamidade.gov/buildingcode

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 "AA 900" Project-In Aluminum Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. 1694, titled Series "AA 900 Project-In Large Missile Impact Window", sheets 1 through 3 of 3, dated 11/17/09 with the latest revision dated 09/24/10, 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, evidence pages E-1, E-2 and E-3, as well as approval document mentioned above.

The submitted documentation was reviewed by **Jaime D. Gascon, P. E.**



J. Gascon
9/29/10

NOA No. 10-0616.03
Expiration Date: October 20, 2015
Approval Date: October 20, 2010

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **1694**, titled Series "AA 900 Project-In Large Missile Impact Window", sheets 1 through 3 of 3, dated 11/17/09 with the latest revision dated 09/24/10, 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 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
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94along with marked-up drawings and installation diagram of projected-in window, prepared by Hurricane Test Laboratory, LLC, Test Reports No.'s **HTL-0049-0108-09** and **HTL-0049-0106-09**, dated 08/04/09 and 09/08/09, signed and sealed by Vinu J. Abraham, P. E.

C. CALCULATIONS

1. Anchor calculations and structural analysis, complying with FBC-2007, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 02/03/10, signed and sealed by Warren W. Schaefer, P. E.
Complies with ASTM E1300-04

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **08-0206.01** issued to Solutia Inc. for their "**Saflex HP Glass Interlayer**" dated 04/17/2008, expiring on 04/17/2013.
2. Notice of Acceptance No. **08-0520.08** issued to Solutia Inc. for their "**Vanceva Composites Glass Interlayer**" dated 7/17/08, expiring on 12/11/13.

F. STATEMENTS

1. Statement letter of conformance, no financial interest and compliance with the FBC-2007, dated February 03, 2010, signed and sealed by Warren W. Schaefer, P. E.



Jaime D. Gascon, P. E.
Chief, Product Control Division
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F. STATEMENTS (CONTINUED)

2. Laboratory compliance letter for Test Reports No.'s HTL-0049-0108-09 and HTL-0049-0106-09, issued by Hurricane Test Laboratory, LLC, dated August 04, and September 08, 2009, both signed and sealed by Vinu J. Abraham, P. E.

G. OTHERS

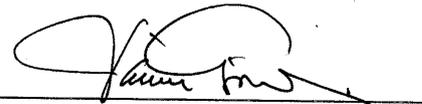
1. Test reports on:
 - 1) ASTM D624C Tear Test passed 141 pli \geq 125 pli
 - 2) ASTM D412C Tensile Test 30HRS passed 2350 PSI and 2130PSI;
 - 3) ASTM D395B Compression Set 22 HRS with 100°F passed 21 % and 28% \leq 30%;
 - 4) ASTM D2240 Shore A Hardness passed 83A \leq 85 (\pm 5) durometer;
 - 5) ASTM D1149 Ozone Resistance 100 HR/ 40°F/ 20% strain/ 100 pphm NO Cracks;
 - 6) ASTM D573 Heat Resistance 70 HR/ 100°C passed:
Tensile -1% \leq 15%, Elongation -38% \leq 40%, Hardness 8 \leq 10 and 7PSI \leq 10PSI;
 - 7) ASTM D624C Tear Test passed 158 pli \geq 125 pli;
 - 8) ASTM D746/ C509 Low Temperature Brittleness at -40°C passed NO Cracks;

along with Verified Component List of Extra High Performance Replaceable Fenestration Setting Block by an AAMA Accredited Laboratory, issue P/N 5,483,775 by Kawneer Company, Inc., dated 01/06/10 by AAMA Certification Program.

2. Test reports on:
 - 1) ASTM C864 Option II passed;
 - 2) ASTM D412C Tensile Test 30HRS passed 1500 PSI;
 - 2) ASTM D395B Compression Set 22 HRS with 100°F passed 21 % and 28% \leq 29%;
 - 3) ASTM C661 Durometer, Shore A 60 \pm 5

along with AAMA 702-04 CLASS A, Verified Component List of Extra High Performance Replaceable Fenestration Weather seals by an AAMA Accredited Laboratory, issue P/N TR14649E by TremCo, Inc., dated 01/06/10 by AAMA Certification Program.

3. Test reports on:
 - 1) ASTM C661 Durometer, Shore A 65 \pm 5;
 - 2) ASTM D412C Tensile Test 30HRS passed 350 PSI;along with AAMA 702-04 CLASS A, Verified Component List of Extra High Performance Replaceable Fenestration Weather seals by an AAMA Accredited Laboratory, issue P/N E202 by Ultrafab, Inc., dated 01/06/10 by AAMA Certification Program.



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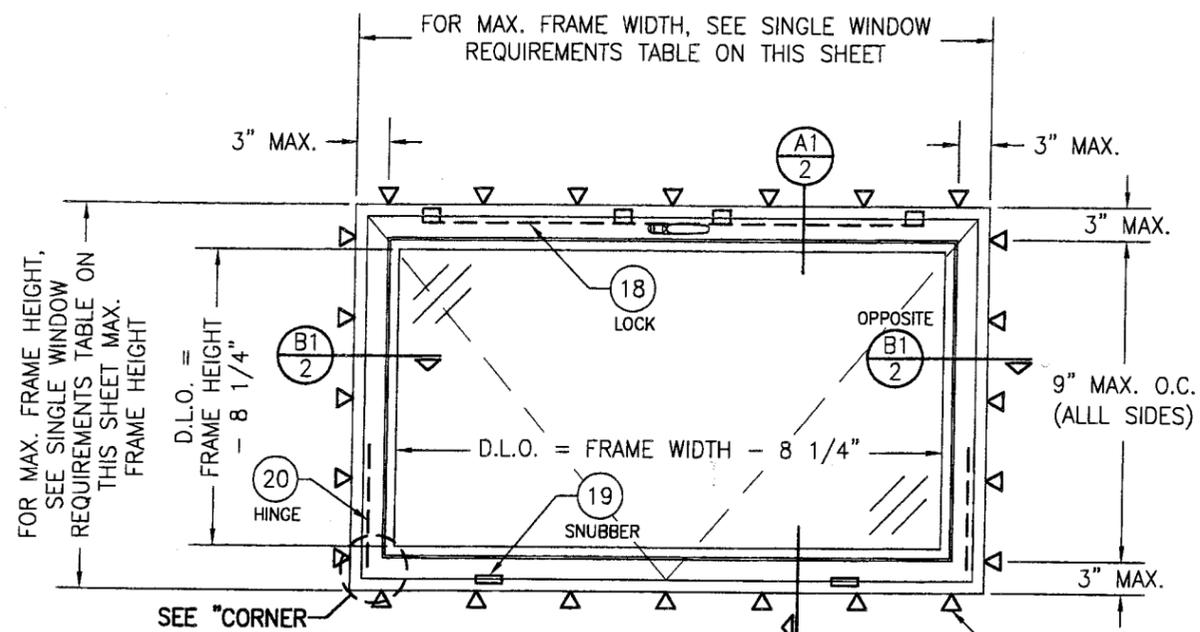
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHERS (CONTINUED)

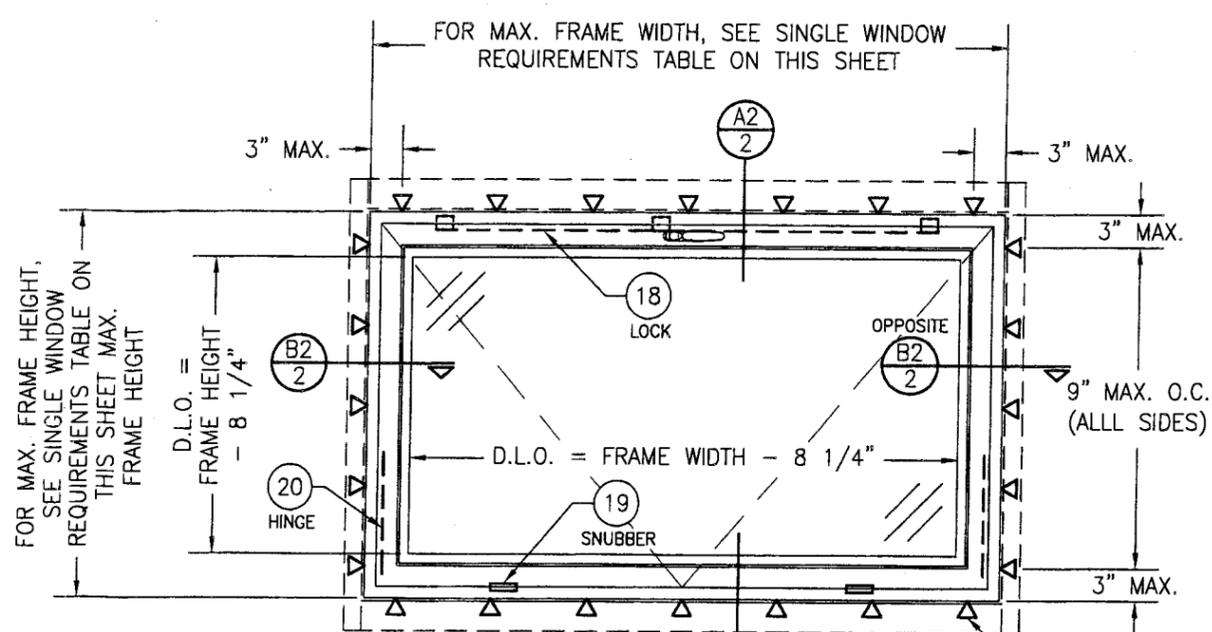
4. Test reports on: 1) ASTM C661 Durometer, Shore A 60 ± 5 ;
2) ASTM D412C Tensile Test 30HRS passed 350 PSI;
along with AAMA 805.2-94, Group A, Verified Component List of Bonding Back-
Bedding Compound by an AAMA Accredited Laboratory, issue P/N InstantGlaze I by
Dow Corning, dated 09/08/09 by AAMA Certification Program.
5. Test reports on: 1) ASTM C864 Option II passed;
2) ASTM D412C Tensile Test 30HRS passed 1500 PSI ≥ 1410 PSI;
2) ASTM D395B Compression Set 22 HRS with 100°F passed 21 %
and 28% $\leq 30\%$;
3) ASTM C661 Durometer, Shore A 70 ± 5
along with AAMA 702-04 CLASS A, Verified Component List of Extra High
Performance Replaceable Fenestration Weather seals by an AAMA Accredited
Laboratory, issue P/N RM270555 by Trelleborg/ EPG, Inc., dated 01/06/10 by AAMA
Certification Program.



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**INTERIOR ELEVATION:
SINGLE WINDOW INSTALLED INTO
STANDARD OPENING**
SCALE: 3/4" = 1'-0"



**INTERIOR ELEVATION:
SINGLE WINDOW INSTALLED INTO IR631
STOREFRONT**
SCALE: 3/4" = 1'-0"

GENERAL NOTES:

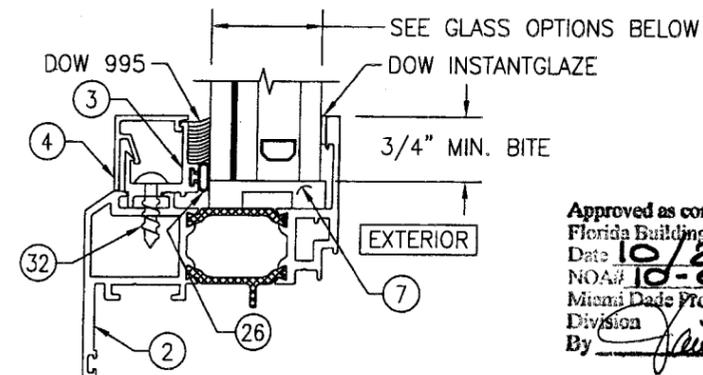
1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S).
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS 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 KD = 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 CD = 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.

CORNER CONSTRUCTION:

FRAME: MITERED, JOINED TOGETHER WITH TWO(2) CORNER KEYS (ITEM #10). CORNERS ARE SEALED WITH DOW 995 SEALANT.
SASH: MITERED, JOINED TOGETHER WITH TWO(2) CORNER KEYS (ITEMS #8 & #9). CORNERS ARE SEALED WITH DOW 995 SEALANT.

WINDOW REQUIREMENTS TABLE				
MAX. FRAME WIDTH (IN.)	MAX. FRAME HEIGHT (IN.)	ALLOWABLE GLASS OPTION	QUANTITY LOCK POINTS REQ'D	QUANTITY OF SNUBBER'S REQ'D
+100/-135 PSF ALLOWABLE PRESSURE				
44 1/2	28	1	4	1
33 1/2	28	1	3	1
22 1/4	28	1	2	1
+/-75 PSF ALLOWABLE PRESSURE				
59 1/2	35 1/2	2	3	2
39 1/2	35 1/2	2	2	2
29 3/4	35 1/2	1 OR 2	2	1
44 1/2	28	1 OR 2	3	1

SEE GLAZING DETAIL ON THIS SHEET FOR GLASS OPTIONS



TYPICAL GLAZING DETAIL

GLASS OPTION 1: 1 5/16" THICK I.G. GLASS(1/4" H.S./0.070 SOLUTIA VANCEVA/1/4 H.S. INTERIOR; 1/2" SPACER; 1/4" TEMP. EXTERIOR)
GLASS OPTION 2: 1 5/16" THICK I.G. GLASS(1/4" H.S./0.09 SOLUTIA SAFLEX IIII PVB/1/4 H.S. INTERIOR; 1/2" SPACER; 1/4" TEMP. EXTERIOR)

Approved as complying with the Florida Building Code
Date: 10/20/2010
NOA# 10-0016-03
Miami Dade Product Control Division
By: [Signature]

FRAME ANCHOR REQUIREMENTS TABLE

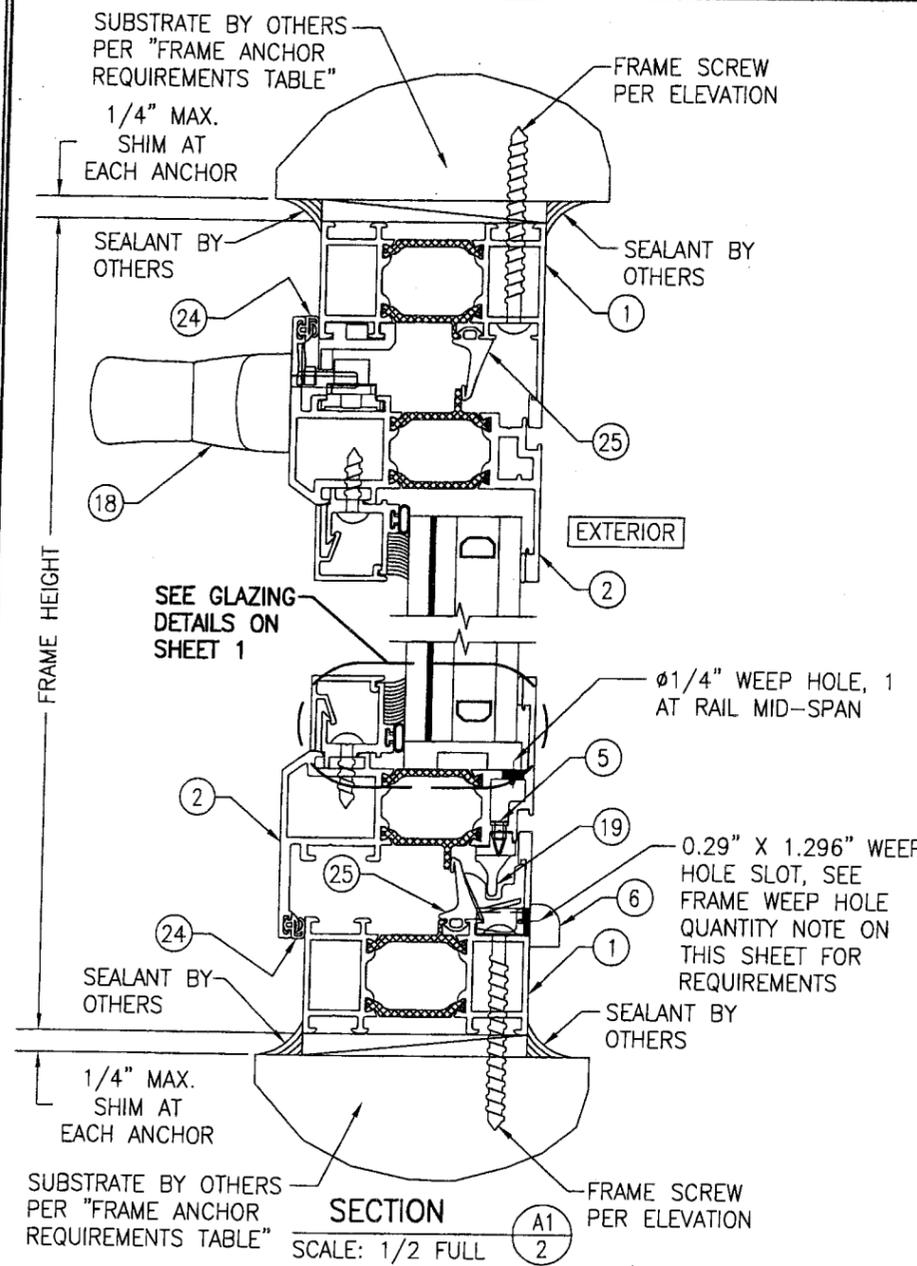
FRAME SCREWS			
OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
IR631 STOREFRONT	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 0.125" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 11/17/09
NO.	REVISION DESCRIPTION

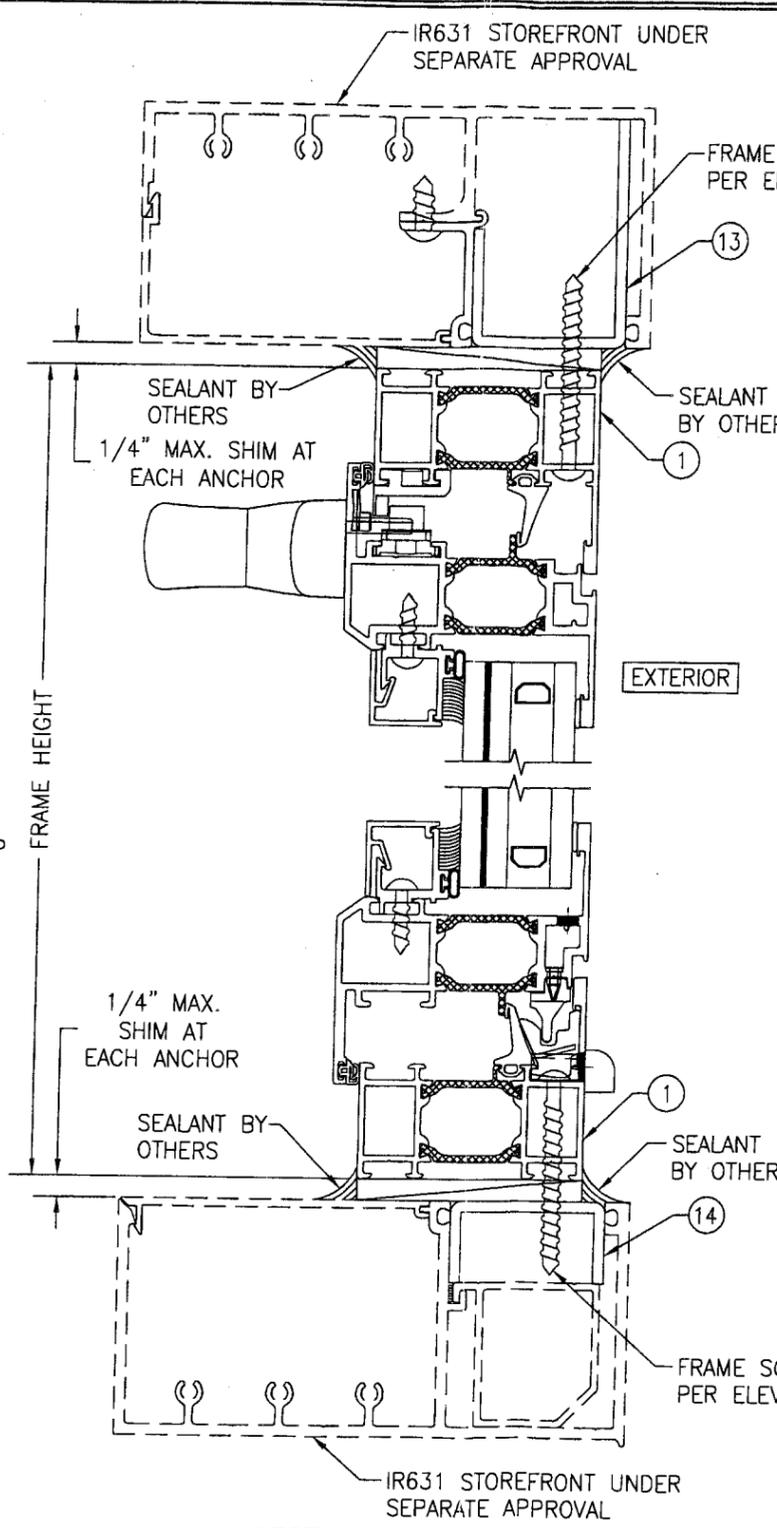
DRAWING TITLE: AA900 PROJECT - IN LARGE MISSILE IMPACT WINDOW
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.
MANUFACTURER: KAWNEER COMPANY, INC.
8895 N. MILITARY TRAIL, SUITE C-204
PALM BEACH GARDENS, FL 33410
PHONE: 561-775-4902 FAX: 561-775-4903

CERTIFICATION
SEP 24 2010
NO. 44135
STATE OF FLORIDA
PROFESSIONAL ENGINEER
WARREN W. SCHAEFER, P.E.
WARREN W. SCHAEFER, P.E.
NO. 44135

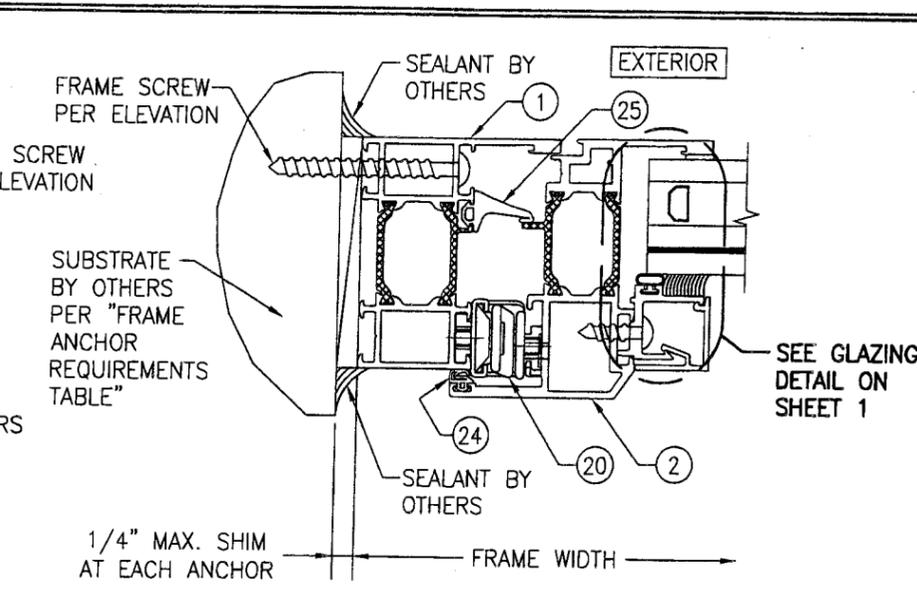
DRAWING NO. 1694
SHEET NO. 1 OF 3



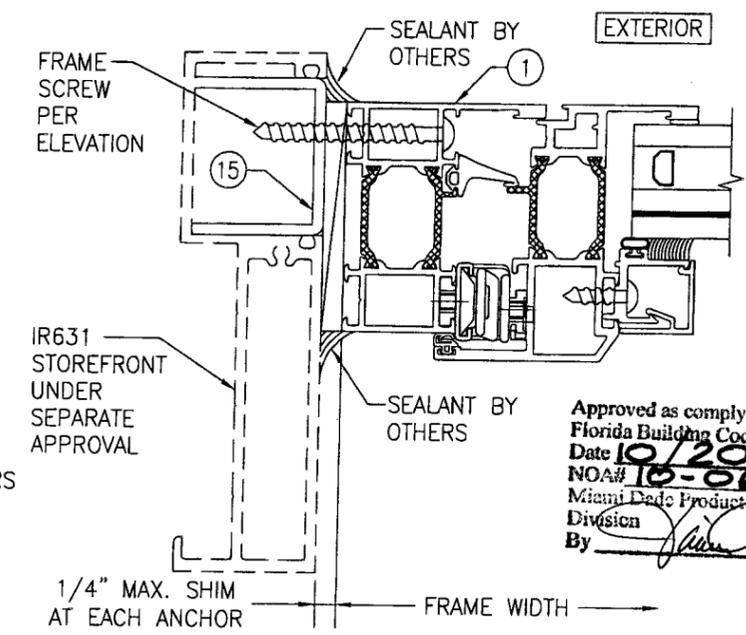
SECTION A1
SCALE: 1/2 FULL



SECTION A2
SCALE: 1/2 FULL
(FOR DETAIL NOT SHOWN, SEE SECTION A1/2)



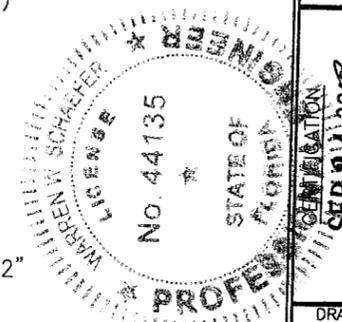
SECTION B1
SCALE: 1/2 FULL



SECTION B2
SCALE: 1/2 FULL
(FOR DETAIL NOT SHOWN, SEE SECTION B1/2)

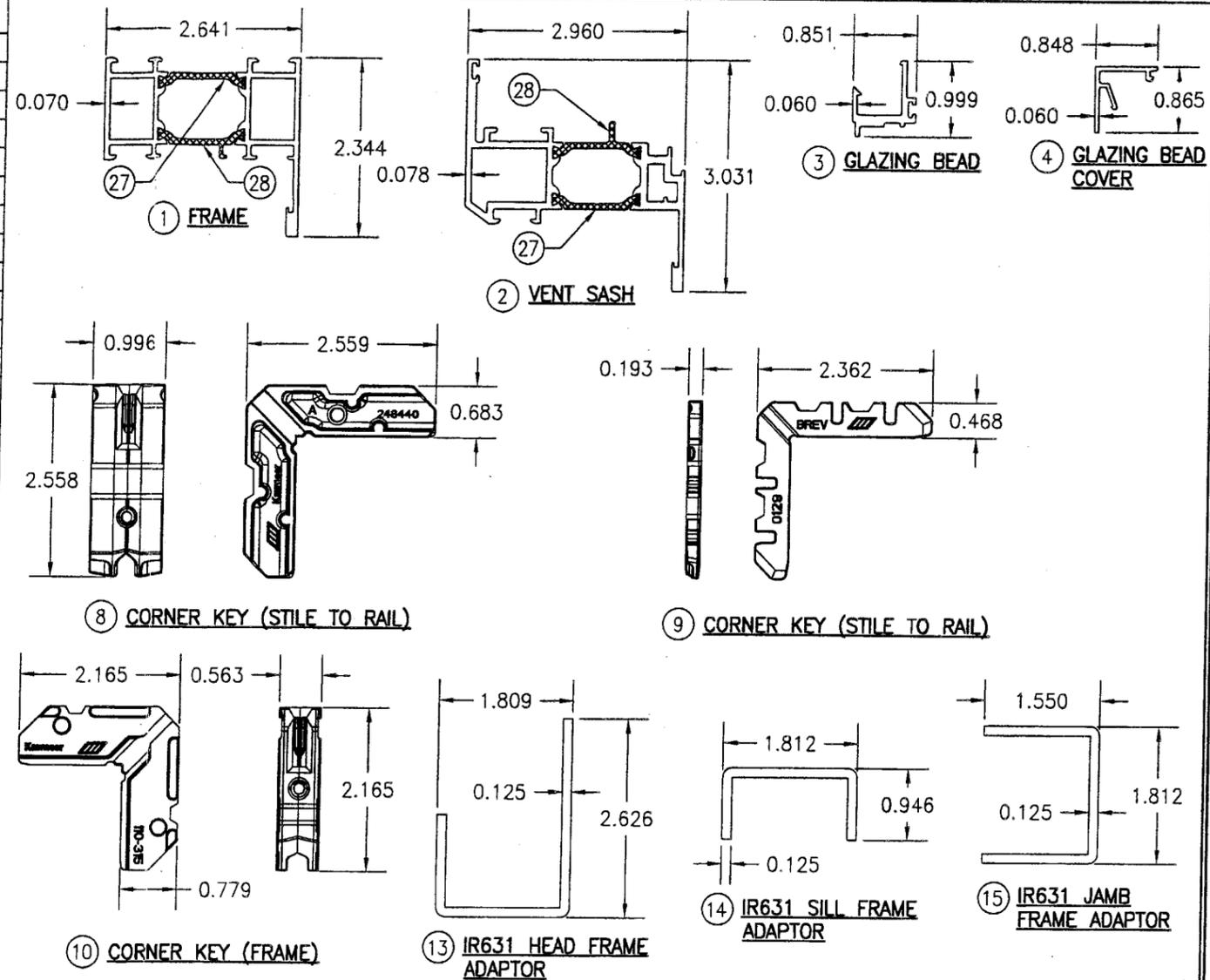
FRAME WEEP HOLE QUANTITY NOTE:
 1 REQ'D WHEN WINDOW FRAME WIDTH IS 18" OR LESS
 2 REQ'D WHEN WINDOW FRAME WIDTH IS BETWEEN 18" & 32"
 3 REQ'D WHEN WINDOW FRAME WIDTH IS OVER 36

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 Miami Dade Product Control
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 By [Signature]

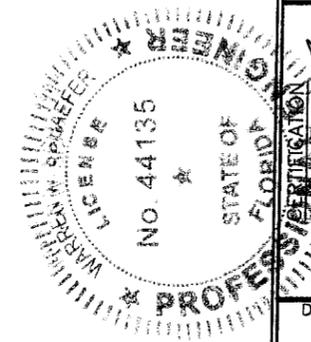


DRAWING TITLE A900 PROJECT-IN LARGE MISSILE IMPACT WINDOW		DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
NO. REVISION DESCRIPTION		PLOT: 1-2		DATE: 11/17/09	
DATE	BY	NO.	NO.	NO.	NO.
DRAWING TITLE		CONSULTANTS		MANUFACTURER	
		W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		KAWNEER COMPANY, INC.	
		8895 N. MILITARY 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	
DRAWING NO.		REV.		DRAWING NO.	
1694				1694	
SHEET NO.		REV.		SHEET NO.	
2 OF 3				2 OF 3	

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	FRAME	6063-T6 ALUMINUM
2	VENT SASH	6063-T6 ALUMINUM
3	GLAZING BEAD	6063-T6 ALUMINUM
4	GLAZING BEAD COVER	6063-T6 ALUMINUM
5	WEEP CHECK VALVE	1 AT SILL RAIL MID-SPAN
6	WEEP COVER	1 PER FRAME WEEP HOLE
7	SETTING BLOCK	EPDM (QTY. AS REQUIRED)
8	CORNER KEY (STILE TO RAIL)	CAST ALUMINUM
9	CORNER KEY (STILE TO RAIL)	CAST ALUMINUM
10	CORNER KEY (FRAME)	CAST ALUMINUM
13	IR631 HEAD FRAME ADAPTOR	3003-H14 ALUMINUM
14	IR631 SILL FRAME ADAPTOR	3003-H14 ALUMINUM
15	IR631 JAMB FRAME ADAPTOR	3003-H14 ALUMINUM
HARDWARE		
18	MULTI-POINT LOCK	GIESSE 01150-371
19	SNUBBER DRIVER & KEEPER	ADVANTAGE 982 & 983
20	4-BAR HINGE	ADVANTAGE MFG 316-AT
21	HANDLE	AS REQ'D TO OPERATE MULTI-POINT LOCK
SEALS & SEALANTS		
24	WEATHERSTRIP	EPG EPDM 6507-02-00
25	WEATHERSTRIP	TREMCO EPDM TR1469E
26	BULB WEATHERSTRIP	ULTRAFAB POLYPROPYLENE E202
27	DEBRIDGING/THERMAL BREAK	TECATHERM-66-GF
28	DEBRIDGING/THERMAL BREAK	TECATHERM-66-GF
FASTENERS		
32	NO. 10 X 3/4" PHTF TORX SCREW	WITHIN 3" OF CORNERS & 18 MAX. O.C.



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NOA# 10-0616.03
Miami Dade Product Control
Division
By [Signature]



DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 11/17/09
DATE	
BY	
REVISION DESCRIPTION	
NO.	

DRAWING TITLE: **AA900 PROJECT-IN LARGE MISSILE IMPACT WINDOW**

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

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

DRAWING NO. **1694** REV.
SHEET NO. **3** OF **3**