



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

Kawneer Company, Inc.
555 Guthridge Ct.
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 7225/8225TL Aluminum Fixed over Project Out Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. 1415, titled "Series 7225/8225TL Aluminum Fixed/Projected- Out Window (Large Missile Impact)", sheets 1 through 4 of 4, dated 04/06/05, 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

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 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Herminio F. Gonzalez, P.E., Director, BCCO**



NOA No 05-0725.06
Expiration Date: December 01, 2010
Approval Date: December 01, 2005
Page 1

Kawneer Company, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No 1415, Sheets 1 through 4 of 4, titled "Series 7225/8225TL Fixed/Projected-Out Window (Large Missile Impact)", dated 04/06/05, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren 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 and TAS 202-94along with installation diagram of a aluminum fixed/over project-out windows, prepared by Hurricane Test Laboratory, LLC., Report No. **G049-0102-05**, dated 01/12-5/25/05, signed and sealed by Vinu J, Abraham, P.E.
2. 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 203-94along with installation diagram of a aluminum fixed/over project-out windows, prepared by Hurricane Test Laboratory, LLC., Report No. **G049-0403-05**, dated 01/12-5/25/05, signed and sealed by Vinu J, Abraham, P.E.
3. Test report on:
 - 1) Uniform Static Air Pressure Test, Loading per PA 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with installation diagram of a aluminum fixed/over project-out windows, prepared by Hurricane Test Laboratory, LLC., Report No. **G049-0505-05**, dated 01/12-5/25/05, signed and sealed by Vinu J, Abraham, P.E.

C. CALCULATIONS

1. Anchor Calculations, ASTM-E1300-02, and structural analysis, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 06/20/05, signed and sealed by Vinu J. Abraham, P.E.

D. QUALITY ASSURANCE

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



Herminio F. Gonzalez, P.E.
Director, Building Code Compliance Office
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E. MATERIAL CERTIFICATIONS

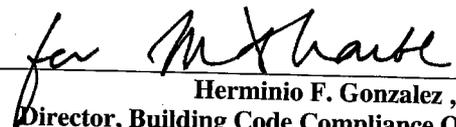
1. Notice of Acceptance No. **01-0205.02** issued to Solutia Inc. for their "Saflex /Keepsafe Maximum" dated 05/17/01, expiring on 05/21/06.
2. Notice of Acceptance No. **01-1205.02** issued to "Solutia, Inc." for "DuPont Butacite ® PVB" dated 02/15/01, expiring on 12/11/05.
3. Notice of Acceptance No. **03-0415.13** issued to "Solutia, Inc." for "Vanceva Composites" dated 12/11/03, expiring on 12/11/08.
4. Notice of Acceptance No. **02-0916.04** issued to "Viracon, Inc." for "Laminate with Polvinyl Butryal Interlayer" dated 05/22/03, expiring on 04/14/08.

F. STATEMENTS

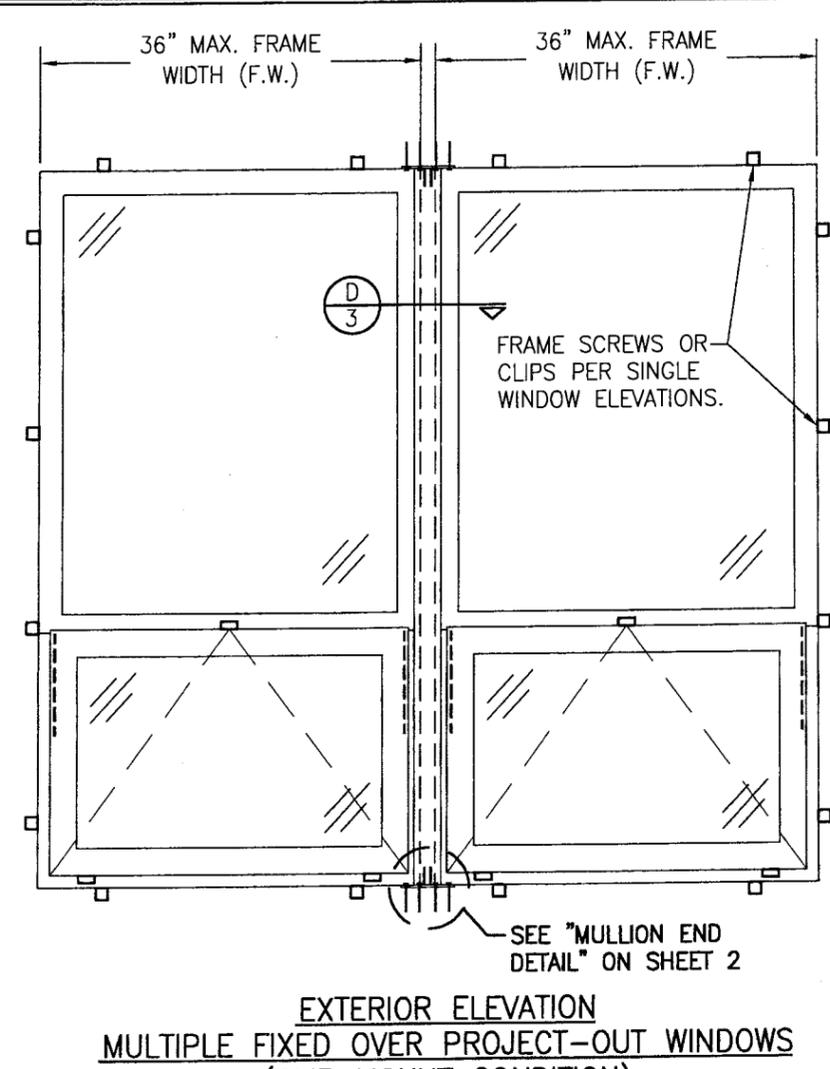
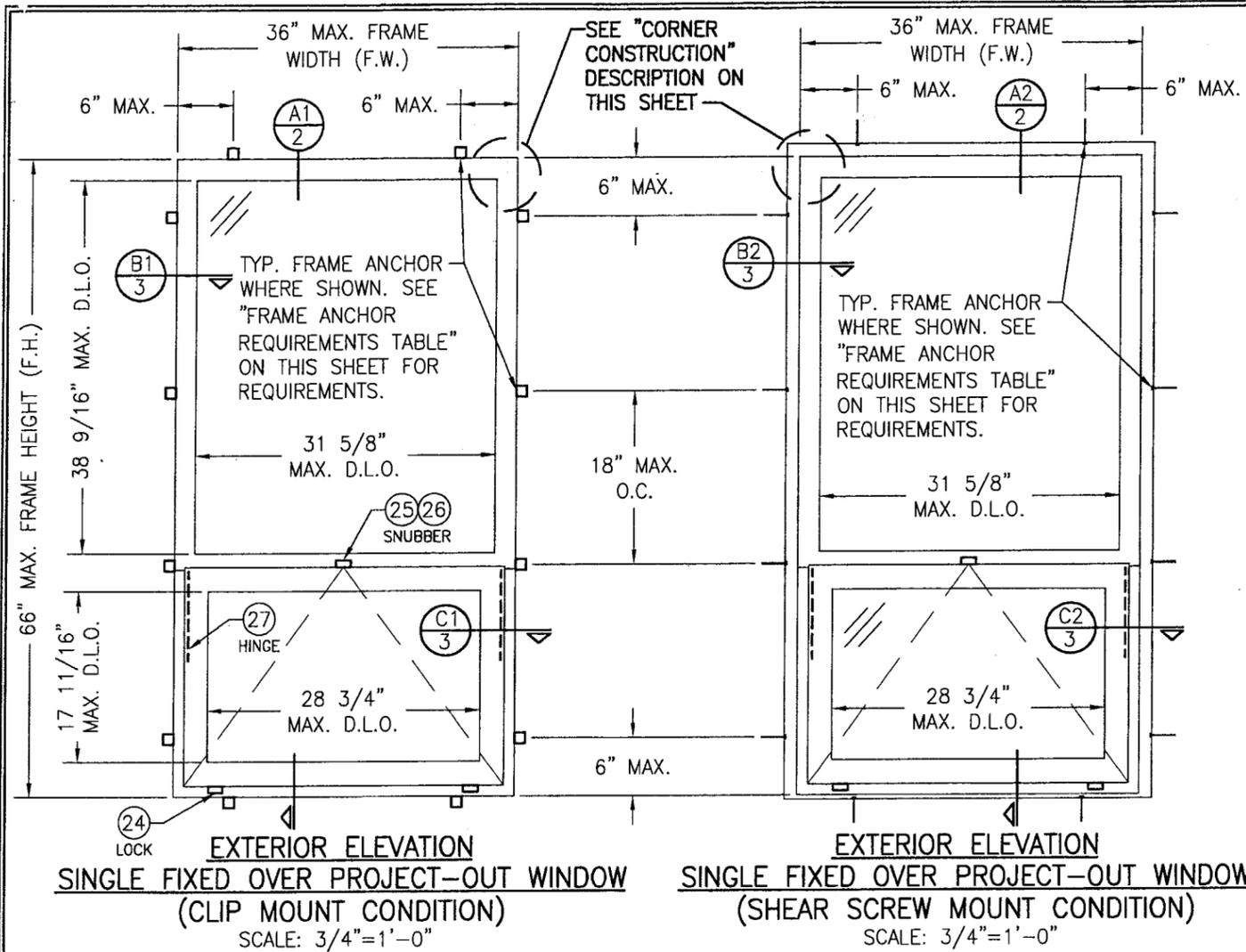
1. Statement letter of conformance and no financial interest, dated 06/21/05, signed and sealed by Warren W. Schaefer, P.E.

G. OTHER

1. Letter from the consultant, dated November 3, 2005, stating that the product is in compliance with the Florida Building Code (FBC).



Herminio F. Gonzalez, P.E.
Director, Building Code Compliance Office
NOA No 05-0725.06
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GENERAL NOTES

1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOADS" TABLE(S).
2. BUCKING, OPENINGS & 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 & MAY 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, ANSI/AAMA/NWDA 101/I.S.2-97, ASTM E1886 & ASTM E1996 FOR LARGE MISSILE IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE (FBC) FOR 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. 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. SUBSTRATE REQUIREMENTS: WOOD: MIN. 2X4 GRADE 2 SOUTHERN PINE.
METAL STUD: MIN. 18 GA. (0.043" THICK) 33 KSI STEEL.
STRUCTURAL STEEL: MIN. 0.125" THICK 36 KSI.
CMU: MIN. 1800 PSI.
CONCRETE: MIN. 2500 PSI.
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.

ALLOWABLE DESIGN PRESSURE
+/-90 PSF
LARGE MISSILE IMPACT RATED

FRAME ANCHOR REQUIREMENTS TABLE			
CLIP & FRAME ANCHORS			
OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
2X_ WOOD FRAME OR BUCK	NO. 12 SMS SCREW	1 1/2"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 12 SELF TAPPING SCREW	FULL	1/2"
MIN. 0.125" THICK 36 KSI STRUCTURAL STEEL	NO. 12 SELF TAPPING SCREW OR 1/4" THRU-BOLT	FULL	1/2"
CMU OR CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"

(1) CONCRETE SCREWS SHALL BE ELCO OR ITW RAMSET/RED HEAD TAPCONS, HILTI KWIK-CON II OR PCWERS RAWL TAPPER (HARDENED STEEL OR S.S.).

CORNER CONSTRUCTION

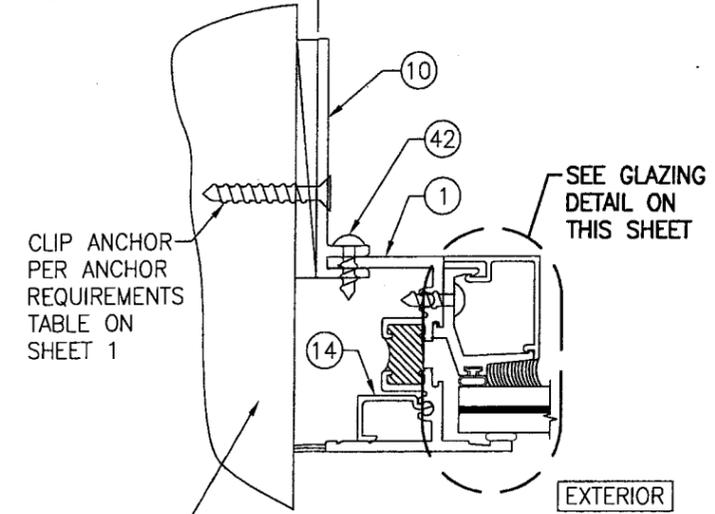
JAMB CORNERS:
COPED, SECURED WITH TWO (2) NO. 8 X 1 1/4" S.S. SCREWS PER CORNER AND SEALED WITH TREMCO-TREMSIL 600 SEALANT.

SASH CORNERS:
COPED, SECURED WITH TWO (2) NO. 8 X 1 1/4" S.S. SCREWS PER CORNER AND SEALED WITH TREMCO-TREMSIL 600 SEALANT.

Approved as complying with the Florida Building Code
Date 12/01/05
NOA# 05-0725-00
Miami Dade Product Control Division
By *Am Shark*

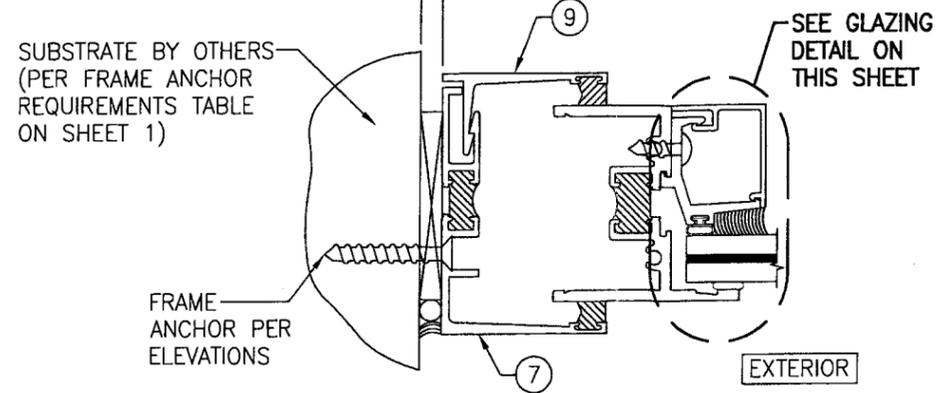
DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 04/06/05
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE 7225/8225TL FIXED/PROJECT-OUT WINDOW (LARGE MISSILE IMPACT)	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION AUG 15 2005	DRAWING NO. 1415
	REV. SHEET NO. 1 OF 4

2 3/4" X 2"
SHIM AT EACH CLIP
(MAX. 1/4" THICK)

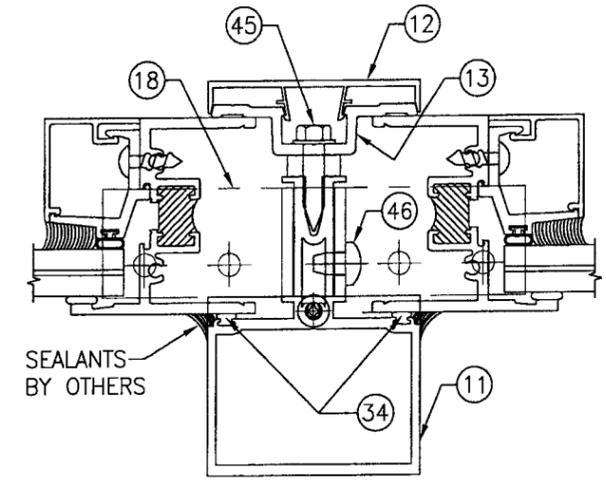


SECTION B1
SCALE: 1/2 FULL 3

1/4" MAX. SHIM AT EACH ANCHOR

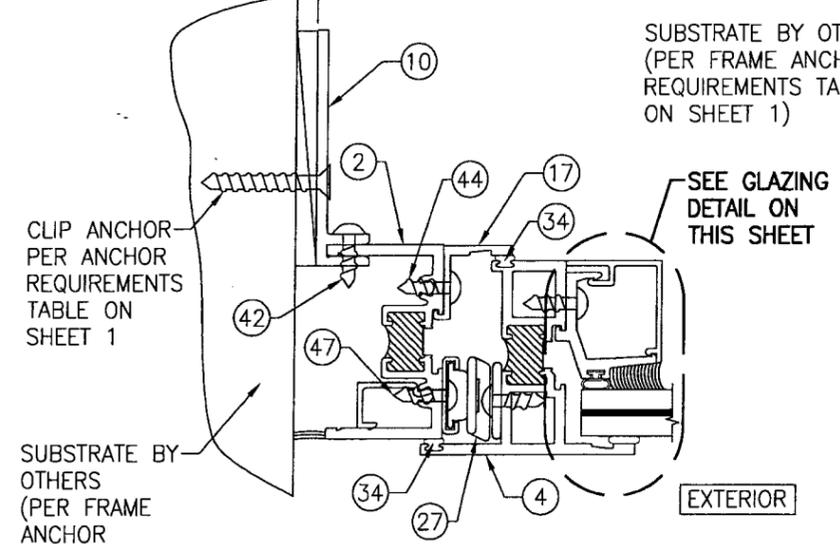


SECTION B2
SCALE: 1/2 FULL 3
FOR DETAIL NOT SHOWN, SEE SECTION B1/3



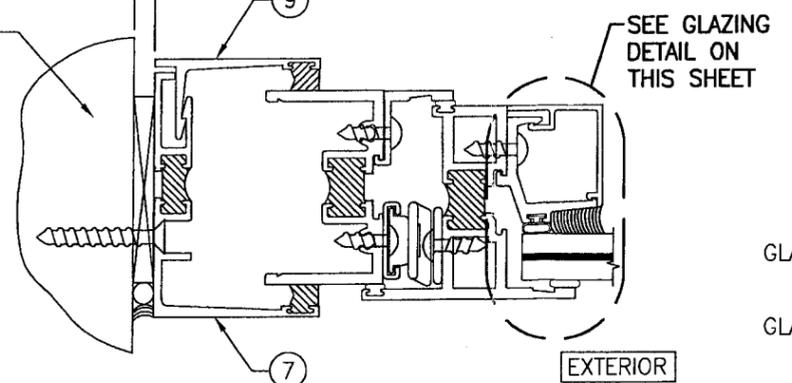
SECTION D
SCALE: 1/2 FULL 3
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

2 3/4" X 2"
SHIM AT EACH CLIP
(MAX. 1/4" THICK)

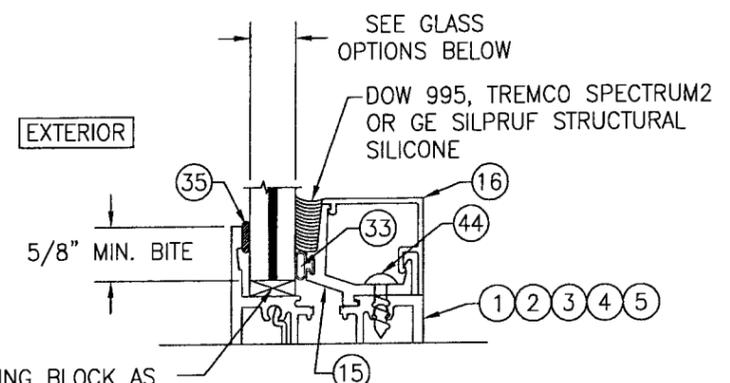


SECTION C1
SCALE: 1/2 FULL 3

1/4" MAX. SHIM AT EACH ANCHOR



SECTION C2
SCALE: 1/2 FULL 3
FOR DETAIL NOT SHOWN, SEE SECTION C1/3

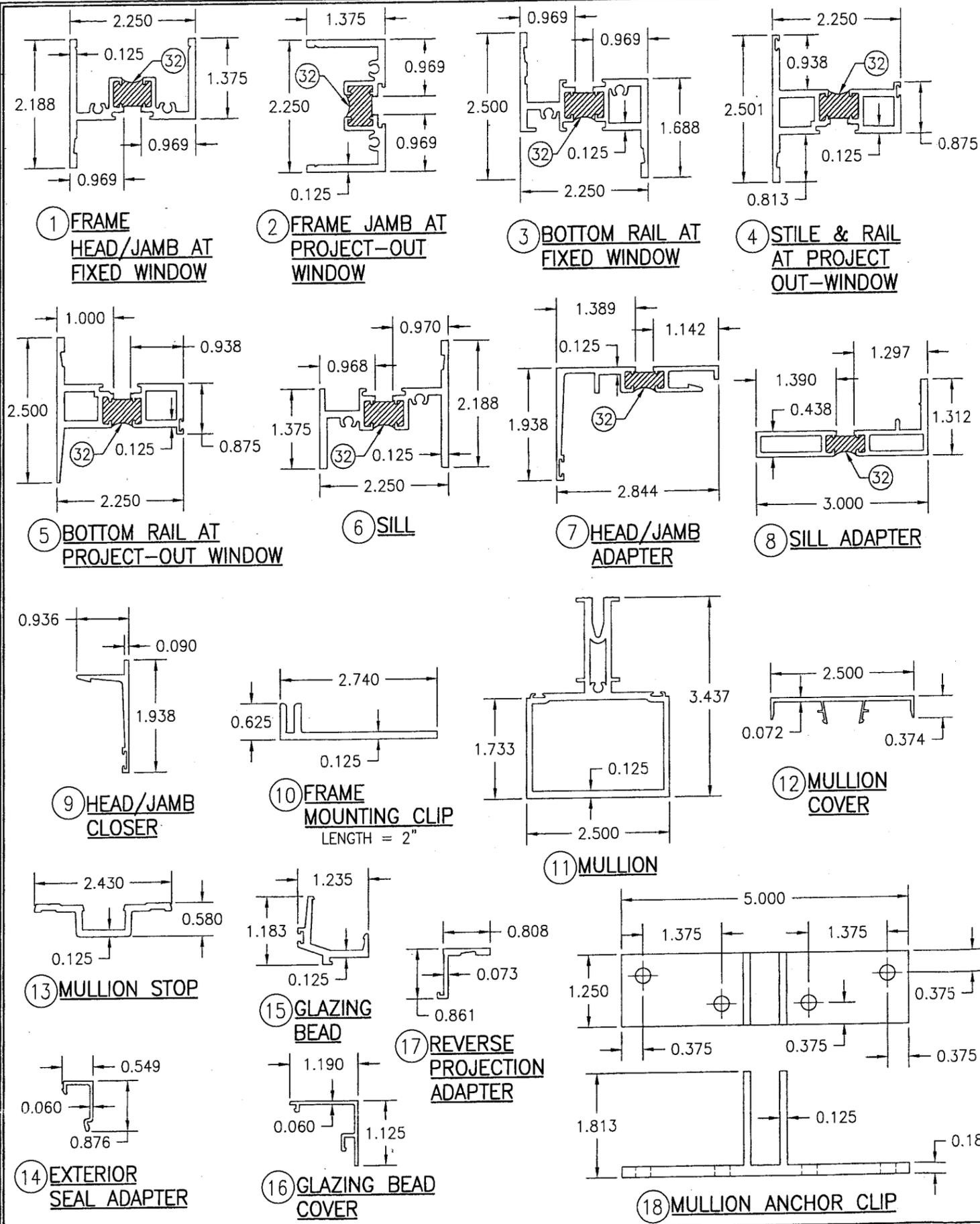


GLAZING DETAIL
SCALE: 1/2 FULL

- GLASS OPTION 1: 9/16" THICK VIRACON STORMGUARD LAMINATED GLASS (1/4" H.S./0.100 SAFLEX HP/1/4" H.S.)
- GLASS OPTION 2: 9/16" THICK SOLUTIA VANCEVA COMPOSITE LAMINATED GLASS (1/4" H.S./0.070 VANCEVA COMPOSITE PVB/1/4" H.S.)
- GLASS OPTION 3: 9/16" THICK SENTRY GLASS PLUS LAMINATED GLASS (1/4" H.S./0.090 DUPONT SGP/1/4" H.S.)
- GLASS OPTION 4: 9/16" THICK SOLUTIA SAFLEX LAMINATED GLASS (1/4" H.S./0.090 SAFLEX III G PVB/1/4" H.S.)
- GLASS OPTION 5: 9/16" THICK DUPONT BUTACITE LAMINATED GLASS (1/4" H.S./0.090 BUTACITE PVB/1/4" H.S.)

Approved as complying with the
Florida Building Code
Date: 12/10/05
NOAA: 05-0725-06
Miami Dade Product Control
Division
By: *[Signature]*

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 04/06/05
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE 7225/8225TL FIXED/PROJECT-OUT WINDOW (LARGE MISSILE IMPACT)	
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 AUG 15 2005	W. W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1415	REV.
SHEET NO. 3	OF 4



ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	228-034/228-134	FRAME HEAD/JAMB AT FIXED WINDOW	6063-T6 ALUMINUM (SEE NOTE 1)
2	228-034/228-134	FRAME JAMB AT PROJECT-OUT WINDOW	6063-T6 ALUMINUM (SEE NOTE 1)
3	225-251/225-351	BOTTOM RAIL AT FIXED WINDOW	6063-T6 ALUMINUM (SEE NOTE 1)
4	225-225/225-325	STILE & RAIL AT PROJECT-OUT WINDOW	6063-T6 ALUMINUM (SEE NOTE 1)
5	225-220/225-320	BOTTOM RAIL AT PROJECT-OUT WINDOW	6063-T6 ALUMINUM (SEE NOTE 1)
6	225-013/225-113	SILL	6063-T6 ALUMINUM (SEE NOTE 1)
7	224-054/224-154	HEAD/JAMB ADAPTER	6063-T6 ALUMINUM (SEE NOTE 1)
8	224-055/224-155	SILL ADAPTER	6063-T6 ALUMINUM (SEE NOTE 1)
9	325-059	HEAD/JAMB CLOSER	6063-T6 ALUMINUM
10	225-165	FRAME MOUNTING CLIP	6063-T6 ALUMINUM
11	224-071	MULLION	6063-T6 ALUMINUM
12	224-074	MULLION COVER	6063-T6 ALUMINUM
13	224-073	MULLION STOP	6063-T6 ALUMINUM
14	228-281	EXTERIOR SEAL ADAPTER	6063-T6 ALUMINUM
15	224-080	GLAZING BEAD	6063-T6 ALUMINUM
16	224-081	GLAZING BEAD COVER	6063-T6 ALUMINUM
17	225-079	REVERSE PROJECTION ADAPTER	6063-T6 ALUMINUM
18	225-548	MULLION ANCHOR CLIP	6063-T6 ALUMINUM
HARDWARE			
24	225-405	PROJECT-OUT CAM LOCK	WHITE BRONZE US-25D (2 PER WINDOW)
25	229-156	FRAME SNUBBER (1 PER WINDOW)	WHITE ETPU; SECURED WITH 2 NO. 10 X 7/16" S.S. PH SCREWS
26	229-154	VENT SNUBBER (1 PER WINDOW)	304 SERIES SS; SECURED WITH 2 NO. 10 X 7/16" S.S. PH SCREWS
27	229-101	ADVANTAGE 4-BAR HINGE	300 SERIES SS
SEALS AND SEALANTS			
32	-	DEBRIDGING/THERMAL BREAK (OPTIONAL)	2-PART POLYURETHANE
33	127-074	BULB GASKET	VISTAPLEX/POLYPROPYLENE
34	027-874	VENT WEATHERSTRIP	VISTAPLEX/POLYPROPYLENE
35	127-104	SILICONE	DOW CORNING INSTANT GLAZE
36	027-883	WEATHERSTRIP	SANTOPRENE
37	127-038	BACK-UP WEDGE	SCR-900
MISC. FASTENERS			
42	977-108	#10 X 3/4" SELF TAPPING PH SCREW	1 PER FRAME MOUNTING CLIP
43	128-415	#10 X 1/2" FHTF SCREW	2 PER CAM
44	128-414	#10 X 7/16" PHTF SCREW	2" FROM ENDS
45	128-406	1/4" X 1" HHTF SCREW	3" FROM ENDS & 9" O.C.
46	128-192	1/4" X 3/8" PHTF SCREW	1 PER MULLION ANCHOR CLIP
47	128-414	#10 X 7/16" PHTF SCREW	6 PER HINGE

(1) PARTS 1 THROUGH 8 MAY BE THERMALLY BROKEN AS SHOWN OR BE ONE WHOLE UN-CUT EXTRUSION (EXTRUSIONS ARE CUT TO ALLOW FOR THERMAL BREAK PLACEMENT).

Approved as complying with the
Florida Building Code
Date 12/01/05
NOA# 05-0725.06
Miami Dade Product Control
Division
By *M. Marshall*

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
DATE: 04/06/05	
PLOT: 1=2	
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CERTIFICATION	REV.
AUG 15 2005	1415
WARREN W. SCHAEFER, P.E. P.E. NO. 44135	SHEET NO. 4 OF 4