



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidadecounty.gov/pera/

Kawneer Company, Inc.
555 Guthridge Court
Norcross, GA 30092

SCOPE: 7225/8225TL

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section 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 Section (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. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 "7225/8225TL Fixed/Project-Out Window (Large Missile Impact)", sheets 1 through 4 of 4, dated 04/06/05 with revision B1 dated 11/03/11, 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 Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

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, model/series, 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 revises NOA # 10-0908.08 and 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 **Manuel Perez, P.E.**



NOA No. 11-1013.10
Expiration Date: December 01, 2015
Approval Date: December 08, 2011
Page 1

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 "7225/8225TL Fixed/Project-Out Window (Large Missile Impact)", dated 04/06/05 with revision B1 dated 11/03/11, 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) Small Missile Impact Test per FBC, TAS 201-94
5) Large Missile Impact Test per FBC, TAS 201-94
6) Cyclic Wind Pressure Loading per FBC, TAS 203-94
7) Forced Entry Test, per FBC 2411 3.2.1 and TAS 202-94
along with installation diagram of an aluminum fixed/over project-out window, prepared by Hurricane Test Laboratory, LLC, Report No. **HTL-G049-0102-05**, dated 01/12-5/25/05, signed and sealed by Vinu J, Abraham, P.E.
(Submitted under previous NOA #05-0725.06)
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) Small Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of an aluminum fixed/over project-out window, prepared by Hurricane Test Laboratory, LLC, Report No **HTL-G049-0403-05**, dated 01/12-5/25/05, signed and sealed by Vinu J, Abraham, P.E.
(Submitted under previous NOA #05-0725.06)
3. Test reports on: 1) Uniform Static Air Pressure Test, Loading per PA 202-94
2) Small Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of an aluminum fixed/over project-out window, prepared by Hurricane Test Laboratory, LLC, Report No **HTL-G049-0505-05**, dated 01/12-5/25/05, signed and sealed by Vinu J, Abraham, P.E.
(Submitted under previous NOA #05-0725.06)


Manuel Perez, P.E.

Product Control Examiner
NOA No. 11-1013.10

Expiration Date: December 01, 2015
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC-2007 and FBC-2010, prepared by W.W. Schaefer Engineering & Consulting P.A., dated 06/20/05, updated on 09/01/10 and 10/06/11, signed and sealed by Warren W. Schaefer, P.E.
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **08-0508.02** issued to **Viracon, Inc.** for their "**StormGuard Glass Interlayer**", dated 07/03/08, expiring on 04/14/13.
2. Notice of Acceptance No. **08-1224.04** issued to Solutia, Inc. for their "**Saflex Composites Glass Interlayer with PET Core**" dated 02/25/09, expiring on 12/11/13.
3. Notice of Acceptance No. **10-0413.04** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Sentry Glass® Interlayer**" dated 05/26/10, expiring on 01/14/12.
4. Notice of Acceptance No. **09-0223.05** issued to **Solutia, Inc.** for their "**Saflex Multi-layer Glass Interlayer**" dated 04/08/09, expiring on 04/08/14.
5. Notice of Acceptance No. **10-0922.09** issued to **E.I. DuPont DeNemours & Co., Inc.** for their "**DuPont Butacite® PVB, Interlayer**" dated 12/24/10, expiring on 12/11/11.

F. STATEMENTS

1. Statement letter of conformance complying with the FBC-2007 and FBC-2010, dated October 06, 2011, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest, dated October 06, 2011, signed and sealed by Warren W. Schaefer, P.E.
3. Laboratory compliance letter for Test Reports No. **HTL-G049-0102-05**, **HTL-G049-0403-05** and **HTL-G049-0505-05**, issued by Hurricane Test Laboratory, Inc., dated July 07, 2005, signed and sealed by Vinu J. Abraham, P.E.

G. OTHERS

1. Notice of Acceptance No. **10-0908.08**, issued to Kawneer Company, Inc. for their Series 7225/8225TL Aluminum Fixed over Project-Out Window – L.M.I., approved on 12/16/10 and expiring on 12/01/15.


Manuel Perez, P.E.

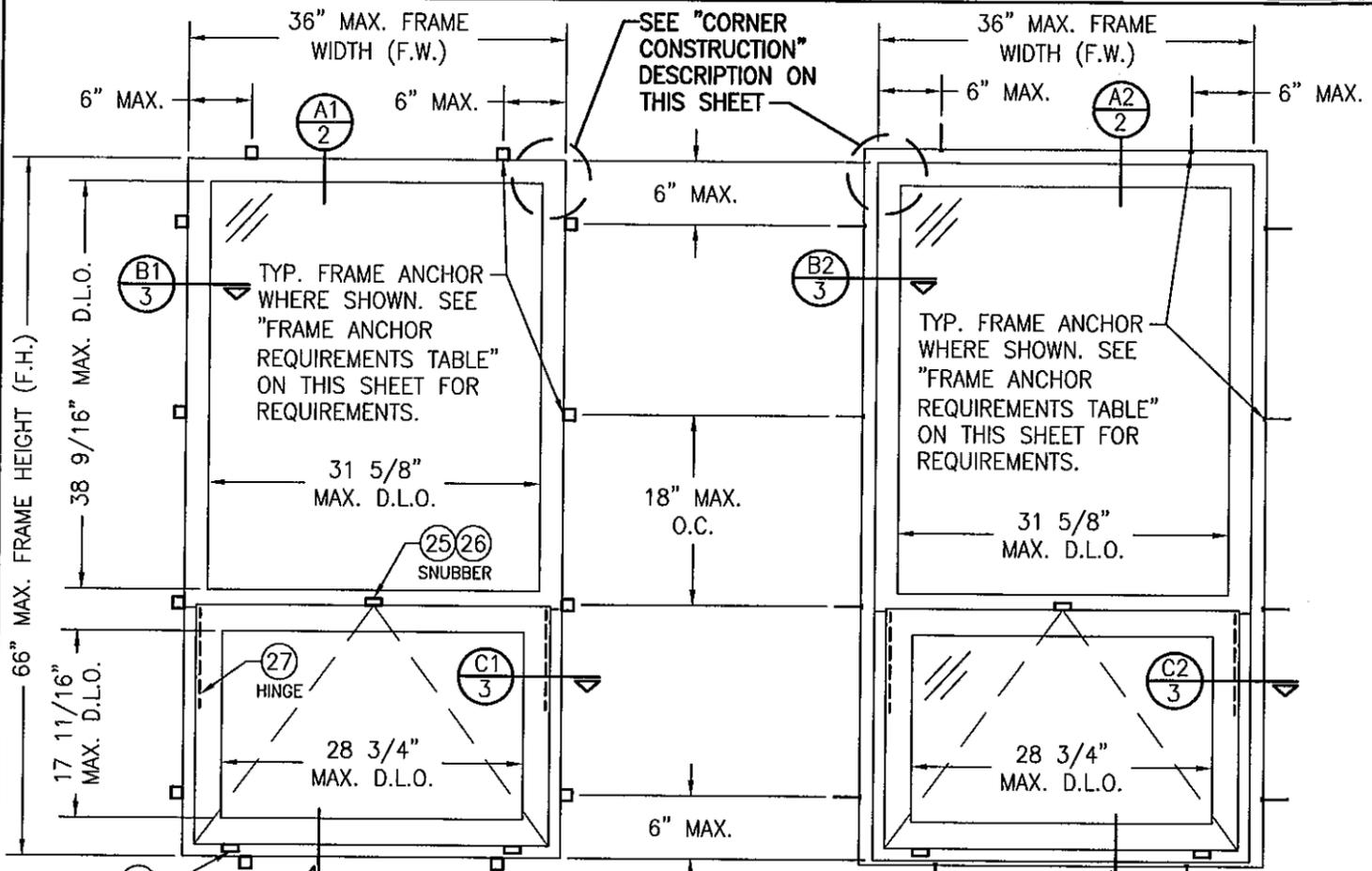
Product Control Examiner
NOA No. 11-1013.10

Expiration Date: December 01, 2015

Approval Date: December 08, 2011

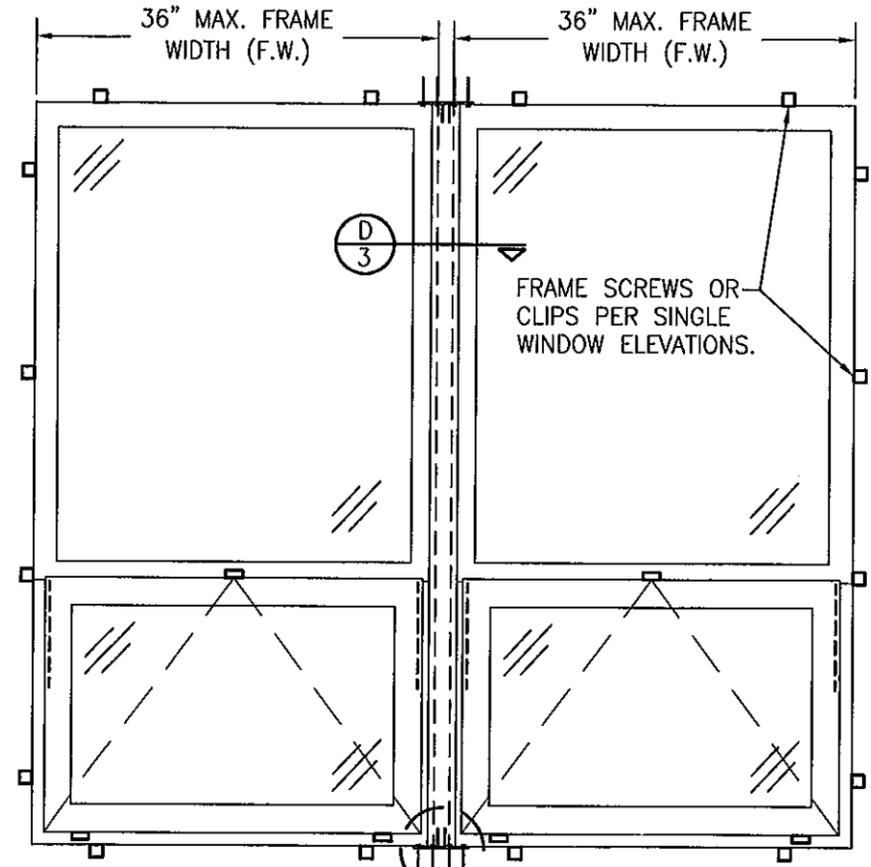
THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY:	K.P.S.	CHECKED BY:	W.W.S.
DATE:	08/01/10	DATE:	04/08/05
NO.	1-16	NO.	
REVISION DESCRIPTION		BY	
A1	UPDATE TO CURRENT STANDARDS	W.W.S.	
B1	UPDATE CONSULTANTS ADDRESS	W.R.M.	



EXTERIOR ELEVATION
SINGLE FIXED OVER PROJECT-OUT WINDOW
 (CLIP MOUNT CONDITION)
 SCALE: 3/4"=1'-0"

EXTERIOR ELEVATION
SINGLE FIXED OVER PROJECT-OUT WINDOW
 (SHEAR SCREW MOUNT CONDITION)
 SCALE: 3/4"=1'-0"



EXTERIOR ELEVATION
MULTIPLE FIXED OVER PROJECT-OUT WINDOWS
 (CLIP MOUNT CONDITION)
 SCALE: 3/4"=1'-0"
 (FOR DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATIONS.)
 DOUBLE WINDOW SHOWN. ANY NUMBER OF WINDOWS MAY BE COMBINED HORIZONTALLY IN ANY OPENING.

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 $K_d = 0.85$ 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 $C_d = 1.6$ 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.

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

FRAME ANCHOR REQUIREMENTS TABLE			
CLIP & FRAME SCREWS			
OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2"

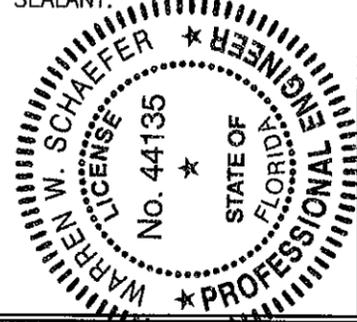
(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).

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.

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No 11-1013-10
 Expiration Date DEC. 1, 2015
 By *Warren W. Schaefer*
 Miami Dade Product Control



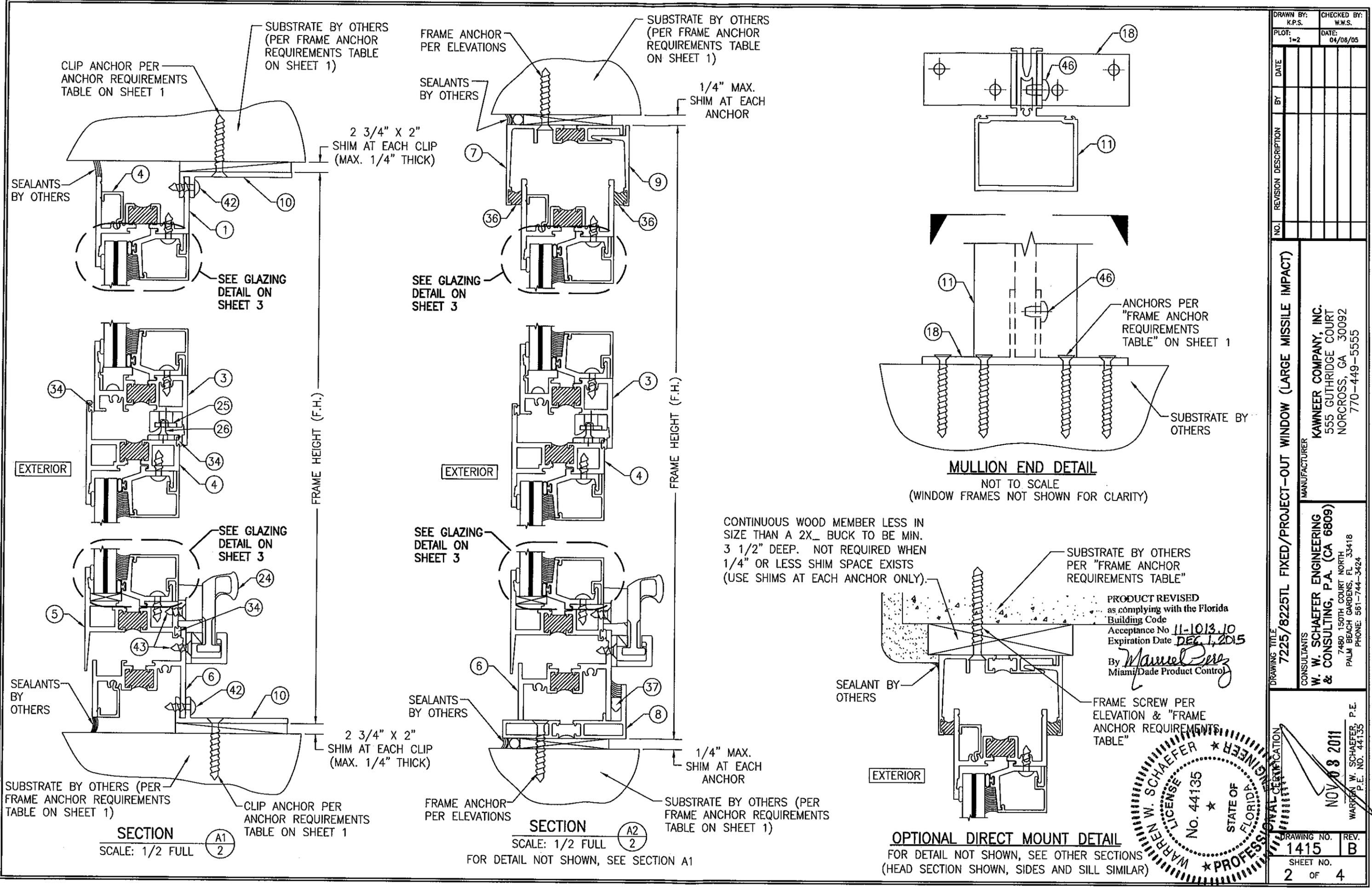
DRAWING TITLE: 7225/8225TL FIXED/PROJECT-OUT WINDOW (LARGE MISSILE IMPACT)

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

CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
 7480 150TH COURT NORTH
 PALM BEACH GARDENS, FL 33418
 PHONE: 561-744-3424

CERTIFICATION: *Warren W. Schaefer*
 DATE: NOV 08 2011
 WARREN W. SCHAEFER, P.E.
 P.E. NO. 44135

DRAWING NO.	1415	REV.	B
SHEET NO.	1	OF	4



NO.	REVISION DESCRIPTION	BY	DATE

DRAWING TITLE
7225/8225TL FIXED/PROJECT-OUT WINDOW (LARGE MISSILE IMPACT)

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

CONSULTANTS
W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No **11-1013.10**
Expiration Date **DEC. 1, 2015**
By *Manuel Perez*
Miami/Dade Product Control

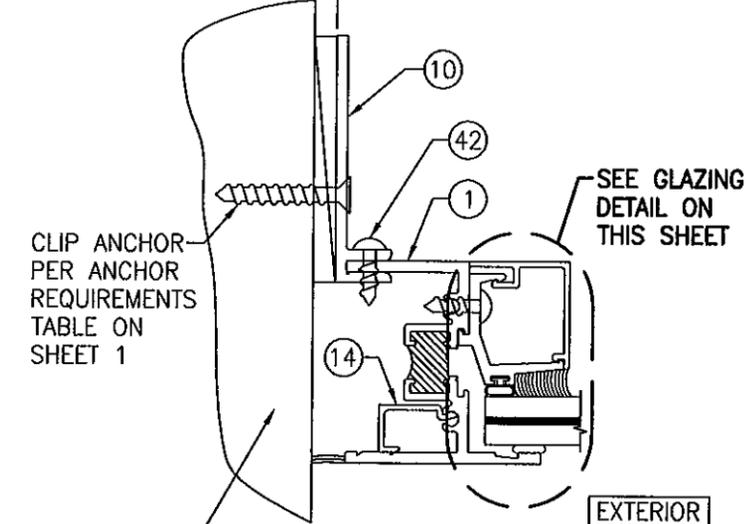
DRAWING NO. **1415** REV. **B**

SHEET NO. **2** OF **4**

PROFESSIONAL CERTIFICATION
WARREN W. SCHAEFER
No. 44135
STATE OF FLORIDA
LICENSED PROFESSIONAL ENGINEER

NOV 03 2011
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

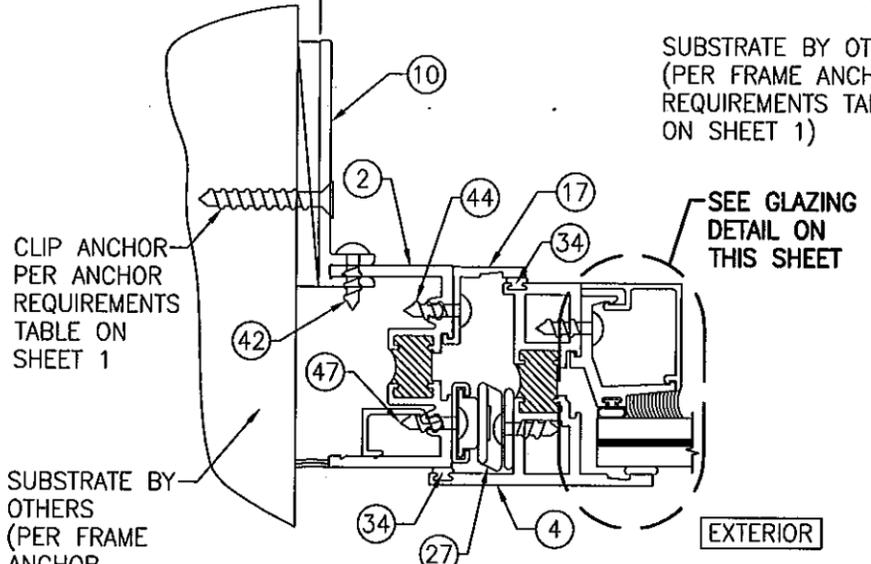
2 3/4" X 2"
SHIM AT EACH CLIP
(MAX. 1/4" THICK)



SECTION B1
SCALE: 1/2 FULL

SUBSTRATE BY OTHERS
(PER FRAME ANCHOR REQUIREMENTS TABLE ON SHEET 1)

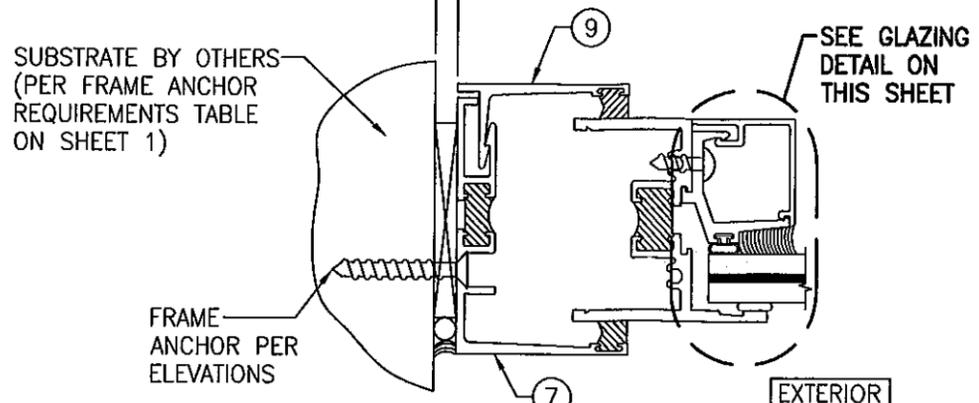
2 3/4" X 2"
SHIM AT EACH CLIP
(MAX. 1/4" THICK)



SECTION C1
SCALE: 1/2 FULL

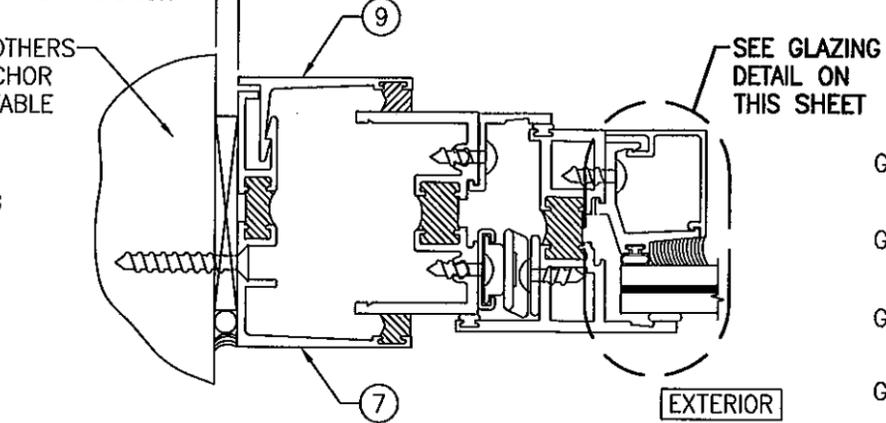
SUBSTRATE BY OTHERS
(PER FRAME ANCHOR REQUIREMENTS TABLE ON SHEET 1)

1/4" MAX. SHIM AT EACH ANCHOR

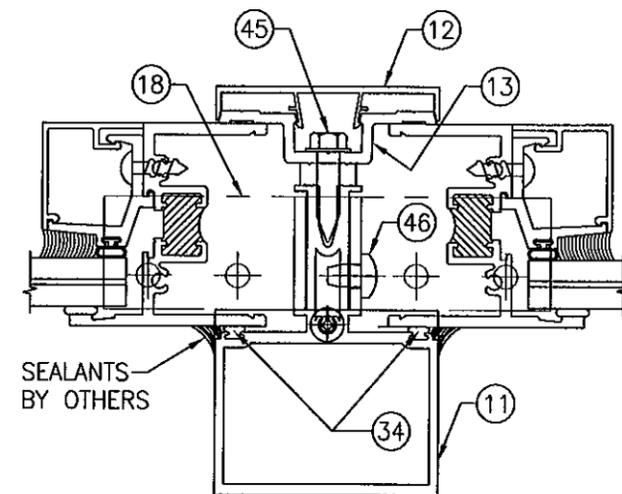


SECTION B2
SCALE: 1/2 FULL
FOR DETAIL NOT SHOWN, SEE SECTION B1/3

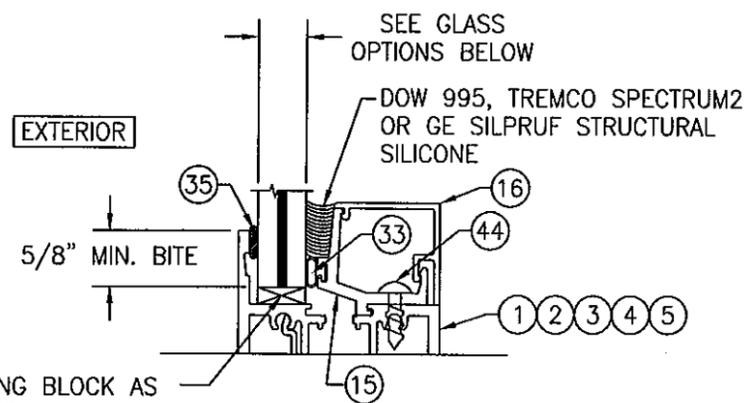
1/4" MAX. SHIM AT EACH ANCHOR



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



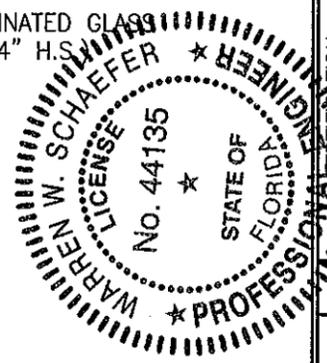
SECTION D
SCALE: 1/2 FULL
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



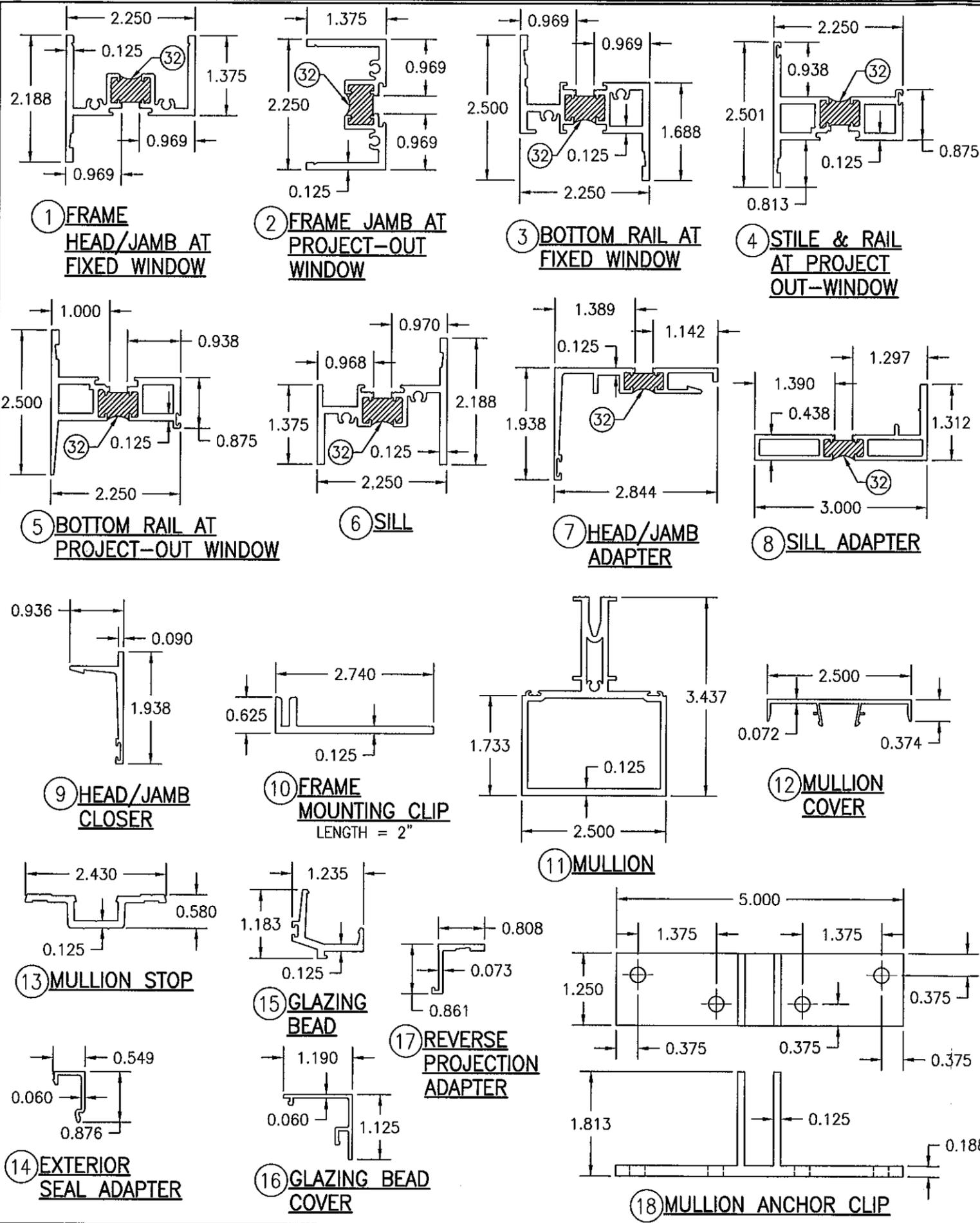
GLAZING DETAIL
SCALE: 1/2 FULL

- 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 LAMINATED GLASS (1/4" H.S./0.090 DUPONT SG/1/4" H.S.)
- GLASS OPTION 4: 9/16" THICK SOLUTIA SAFLEX LAMINATED GLASS (1/4" H.S./0.090 SAFLEX IIIIG 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.)

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 11-1013.10
Expiration Date DEC 1, 2015
By *Manuel Pro*
Miami, FL Product Control



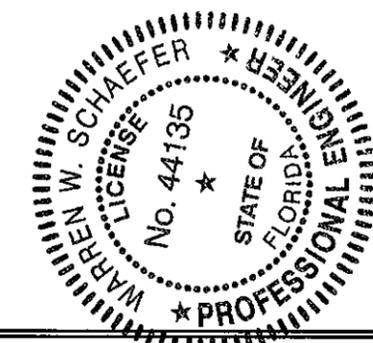
DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 04/06/05
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE 7225/8225TL FIXED/PROJECT-OUT WINDOW (LARGE MISSILE IMPACT)	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555
DATE NOV 03 2011	REVISION WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1415	REV. B
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).

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No. 11-1013.10
 Expiration Date DEC 1, 2015
 By *Manuel Perez*
 Miami Dade Product Control



DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 04/08/05
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE 7225/8225TL FIXED WINDOW / PROJECT-OUT WINDOW (LARGE MISSILE IMPACT)	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, 3341B PALM BEACH GARDENS, FL PHONE: 561-744-3424	
CERTIFICATION NOV 08 2011 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1415	REV. B
SHEET NO. 4 OF 4	