



MIAMI-DADE COUNTY
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) 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 "IR-501 Flush Glazed" Aluminum Storefront System – S.M.I.

APPROVAL DOCUMENT: Drawing No. 1484, titled "IR501 Aluminum Store Front System – Small Missile Impact", sheets 1 through 3 of 3, dated 07/14/06 with revision A1 dated 04/16/08, 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 Division.

MISSILE IMPACT RATING: 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 revises NOA # 06-0803.07 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. 08-1224.14
Expiration Date: February 15, 2012
Approval Date: July 1, 2009
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **1484**, Sheets 1 through 3 of 3, titled "Series IR501 Aluminum Storefront System – Small Missile Impact", dated 07/14/06 with revision A1 dated 04/16/08, prepared by W.W. Schaefer Engineering & Consulting, P.A., signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

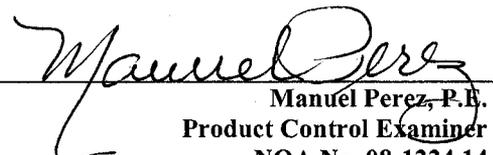
1. Test reports on:
 - 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
 - 2) Small Missile Impact Test per FBC, TAS 201-94
 - 3) Cyclic Wind Pressure Loading per FBC, TAS 203-94along with marked-up drawings and installation diagram of storefront system, prepared by Hurricane Test Laboratory , LLC, Test Report No. **HTL-G049-0704-08**, dated 07/10 thru 11/08, 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 203-94
 - 6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94along with marked-up drawings and installation diagram of outswing door and curtain wall system, prepared by Hurricane Test Laboratory , LLC, Test Report No. **HTL G049-1201-05**, dated 12/05/05 thru 02/02/06, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA#06-0803.07)

C. CALCULATIONS

1. Anchor Calculations and structural analysis, complying with FBC-2007, prepared by W.W. Schaefer Engineering & Consulting, P.A, dated 07/10/06 and revisited on 04/14/08, signed and sealed by Warren W. Schaefer, P.E.
Complies with ASTM E1300-02

D. QUALITY ASSURANCE

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


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-1224.14
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E. MATERIAL CERTIFICATIONS

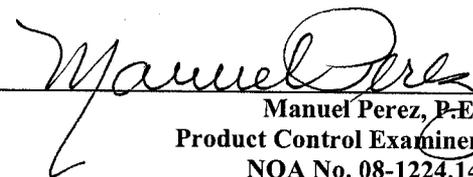
1. Notice of Acceptance No. **09-0312.02** issued to E.I. DuPont DeNemours & Co., Inc. for their "**DuPont Butacite® PVB, Interlayer**" dated 05/13/09, expiring on 12/11/10.
2. Notice of Acceptance No. **06-0216.06** issued to Solutia Inc. for their "**Saflex III G Clear or colored interlayer**" dated 05/04/06, expiring on 05/21/11.
3. **Exterior Gasket:** TREMCO Part No. **TR-14815E**, EPDM 70 durometer exterior glazing gasket complying with ASTM C864 Option II exceptions, ASTM D412, 1500 PSI, ASTM D395B, 22 HRS 158°F.
4. **Interior Gasket:** TREMCO Part No. **TX-14270E**, EPDM sponge interior glazing gasket complying with ASTM C509 Option II compression deflection limit 20-24psi.

F. STATEMENTS

1. Statement letter of conformance to FBC2007, dated April 14, 2008, signed and sealed by Warren W. Schaefer, P.E.
2. Laboratory compliance letter for Test Report no. **HTL-G049-0704-08**, issued by Hurricane Test Laboratory, Inc., dated October 14, 2008, signed by Jose E. Colon, E.I.

G. OTHERS

1. Notice of Acceptance No. **06-0803.07**, issued to Kawneer Company, Inc., for their Series "IR501" Aluminum Glazed Storefront System - S.M.I., approved on 02/16/07 and expiring on 02/15/12.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-1224.14

Expiration Date: February 15, 2012
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GENERAL NOTES:

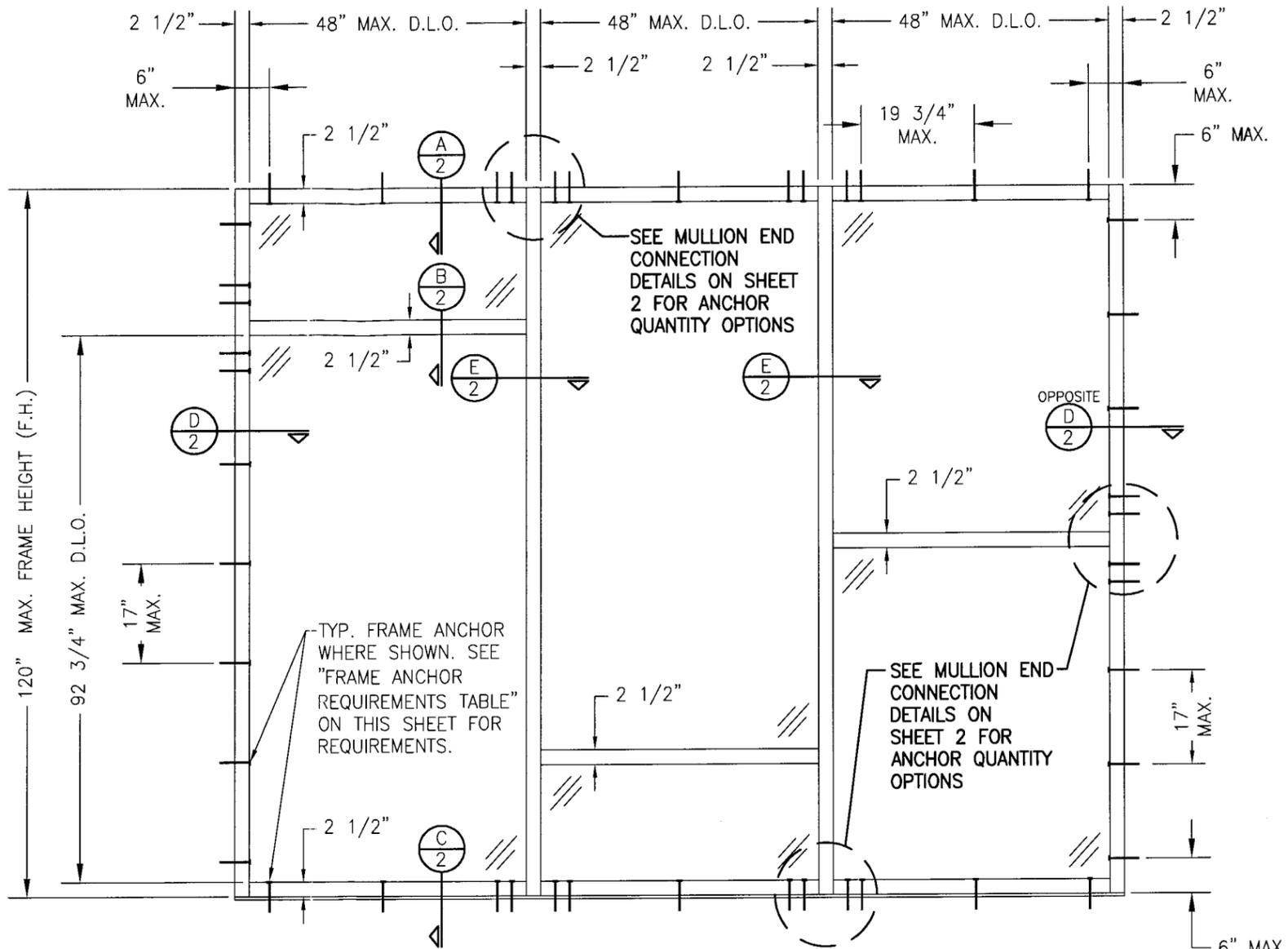
1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS 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 SMALL 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. THESE WINDOWS MAY NOT BE INSTALLED AT ELEVATIONS BELOW 30 FT. ABOVE GRADE WITHOUT AN APPROVED SHUTTER.
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 WHEN USED IN CONJUNCTION WITH LOAD COMBINATIONS SPECIFIED IN SECTION 2.0 OF 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.

CORNER & FRAME END CONSTRUCTION:

FRAME HEAD CORNER: HEAD IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH 3 NO. 12 X 1" PHTFS FASTENERS THROUGH THE SIDE MEMBER INTO THE HEAD MEMBER SCREW SPLINES & SEALED WITH SILICONE.

FRAME SILL CORNER: SILL IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH 3 NO. 12 X 1" PHTFS FASTENERS THROUGH THE SIDE MEMBER INTO THE SILL MEMBER SCREW SPLINES & SEALED WITH SILICONE.

HORIZONTAL FRAME MULLION END: MULLION IS SQUARE CUT, BUTTED TO SIDE, FASTENED WITH 2 NO. 12 X 1" SS PHTFS FASTENERS THROUGH THE SIDE MEMBER INTO THE MULLION MEMBER SCREW SPLINES & SEALED WITH SILICONE.



EXTERIOR ELEVATION
MULTIPLE FIXED PANEL STORE FRONT ASSEMBLY

SCALE: 1/2"=1'-0"

HORIZONTAL STACKING & OVERALL UNIT WIDTH IS UNLIMITED PROVIDING D.L.O. DOES NOT EXCEED 48" WIDE AT EACH PANEL. NUMBER OF VERTICAL PANELS IS UNLIMITED BUT MUST FIT INSIDE MAXIMUM FRAME HEIGHT SHOWN.

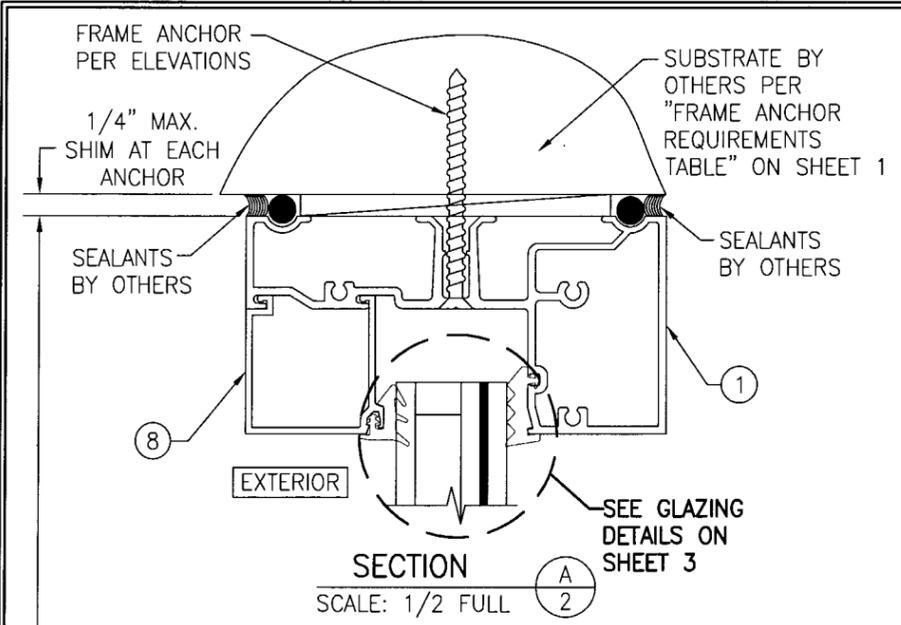
ALLOWABLE DESIGN PRESSURE
+/-65 PSF

FRAME ANCHOR REQUIREMENTS TABLE				
ANCHOR TYPE	OPENING TYPE (SUBSTRATE)	JAMB TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
A	2X_ WOOD FRAME OR BUCK (G=MIN. 0.55)	NO. 12 SMS SCREWS	1 1/4"	3/4"
B	MIN. 1/8" THICK A36 STEEL	(2) 1/4-20 SELF DRILLING/TAPPING SCREW	FULL	3/4"
C	MIN. 3000 P.S.I. CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2 1/2"
D	MIN. 16 GA. 33 KSI METAL STUD	(2) 1/4-20 SELF DRILLING/TAPPING SCREW	FULL	1/2"
E	MIN. C90 BLOCK	(1) 1/4" CONCRETE SCREW	1 1/4"	2 1/2"

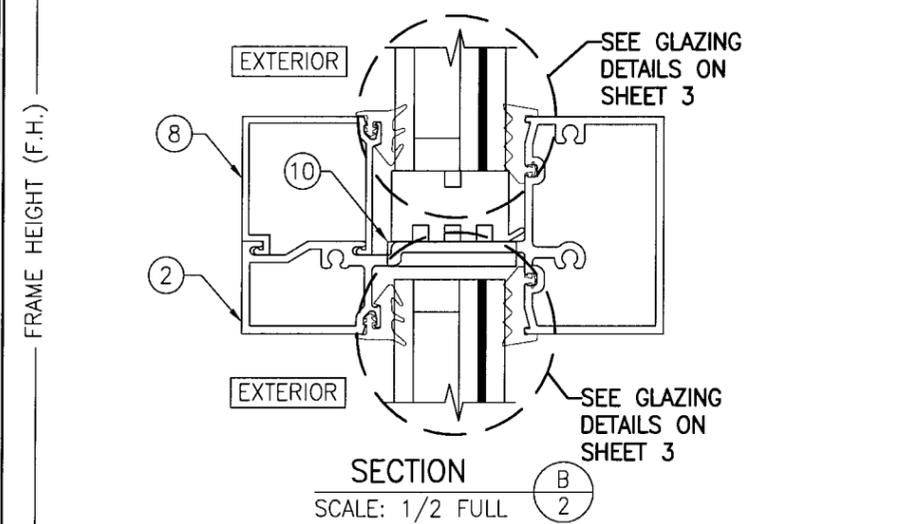
(1) CONCRETE SCREWS SHALL BE ELCO OR ITW RAMSET/RED HEAD TAPCONS, POWERS RAWL TAPPER OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).
(2) SELF DRILLING & SELF TAPPING SCREWS SHALL BE MIN. GRADE 5 CORROSION RESISTANT STEEL

PRODUCT REVISED as complying with the Florida Building Code
Acceptance No. 08-1224.14
Expiration Date FEB 15, 2012
By: *Manuel*
Miami Code Product Control Division

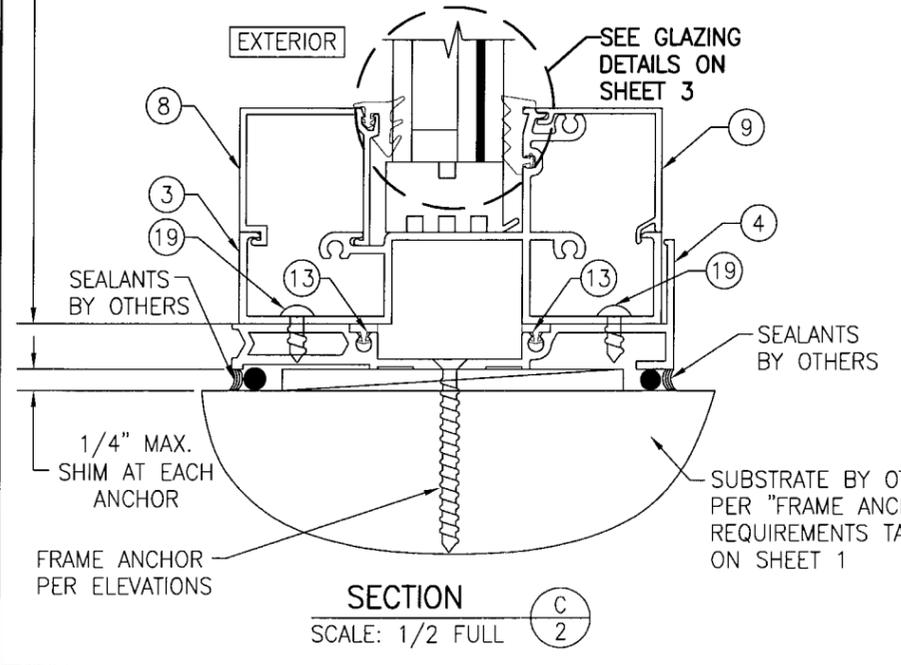
DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=24	DATE: 07/14/06
DATE: 04/16/08	
BY: W.R.M.	
REVISION DESCRIPTION	
NO. 1	UPDATE FOR CODE COMPLIANCE
DRAWING TITLE: IR501 ALUMINUM STORE FRONT SYSTEM - SMALL MISSILE IMPACT	
MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS: 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: MAY 14 2009 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1484	REV. A
SHEET NO. 1 OF 3	



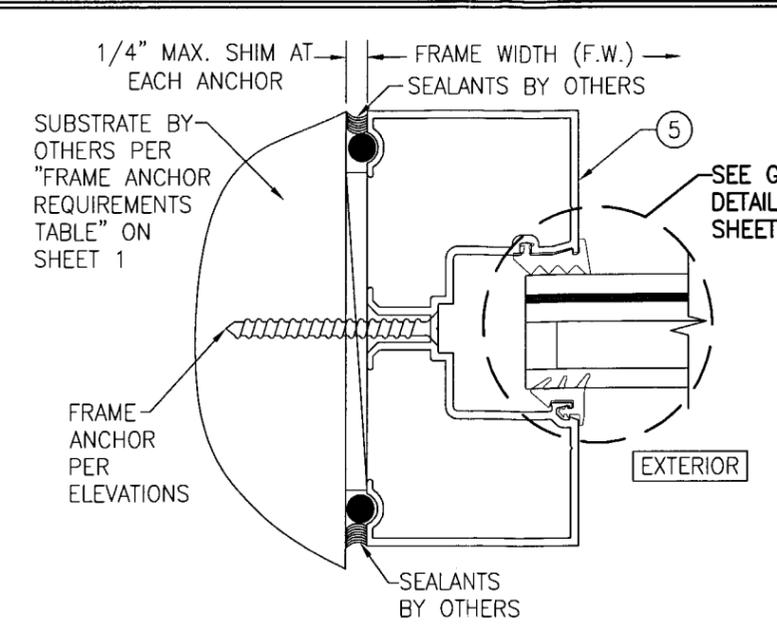
SECTION A
SCALE: 1/2 FULL



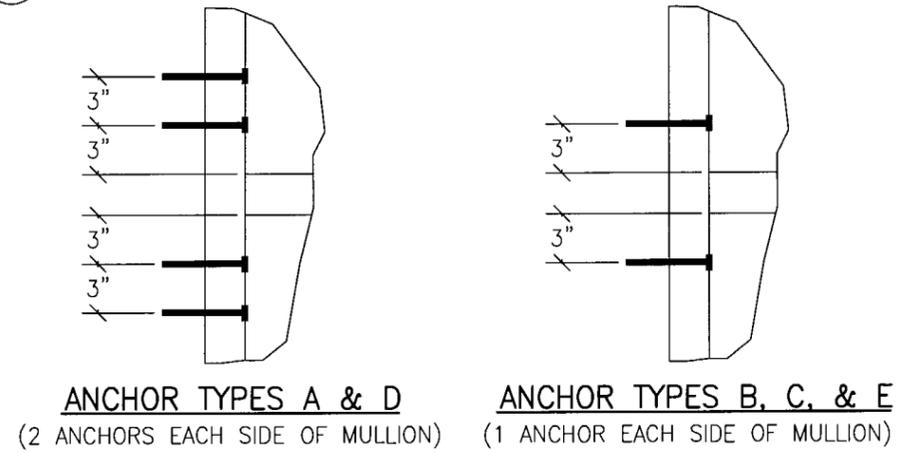
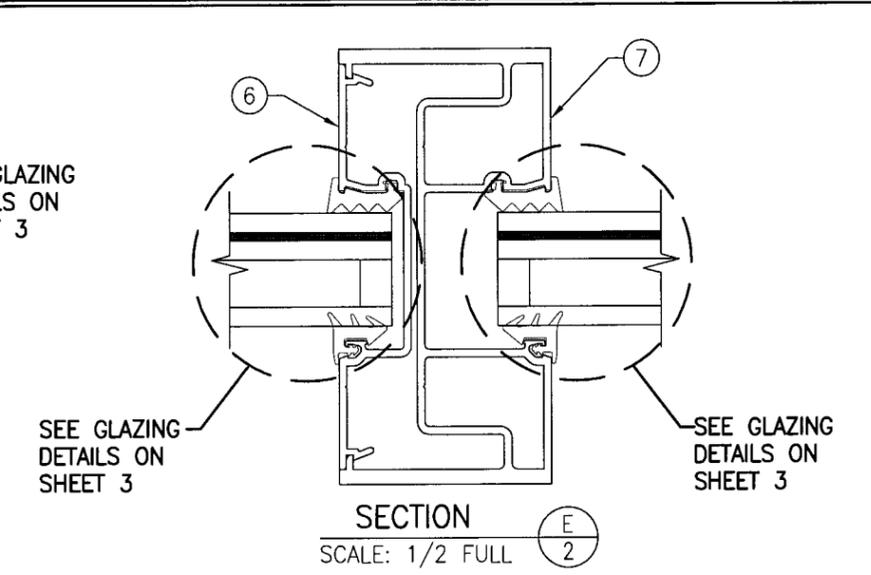
SECTION B
SCALE: 1/2 FULL



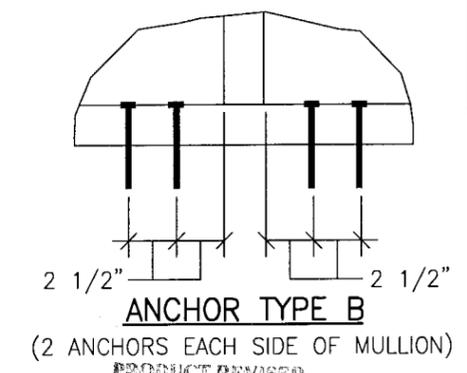
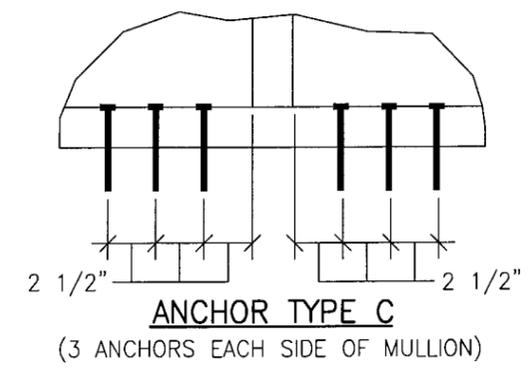
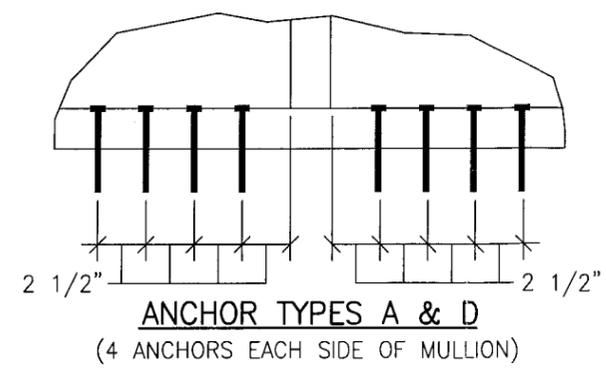
SECTION C
SCALE: 1/2 FULL



SECTION D
SCALE: 1/2 FULL



MULLION END CONNECTION
DETAILS AT HORIZONTAL MULLION ENDS

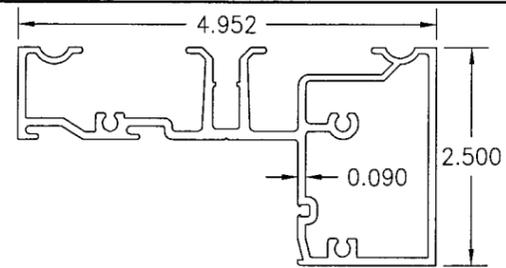


MULLION END CONNECTION
DETAILS AT VERTICAL MULLIONS

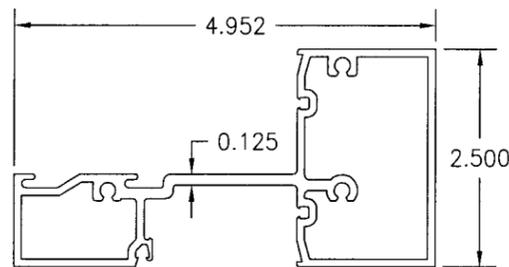
NOTE: DETAILS SHOWN REFLECT HEAD CONDITIONS. THEY ARE ALSO TYPICAL AT SILL CONDITIONS BETWEEN FIXED PANELS ONLY.

PRODUCT REVISION
as complying with the Florida
Building Code
Adopted No. 08-1224-14
Amendment Date FEB. 15, 2012
By *Warren W. Schaefer*
Miami Code Product Control
Division

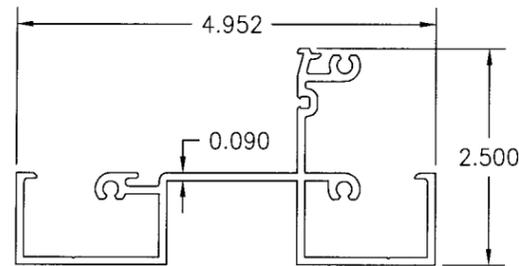
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PLOT: 1-2		DATE: 07/14/06	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: IR501 ALUMINUM STORE FRONT SYSTEM - SMALL MISSILE IMPACT			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER: KAWNEER COMPANY, INC.	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION: MAY 14 2009 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1484	REV. A	SHEET NO. 2 OF 3	



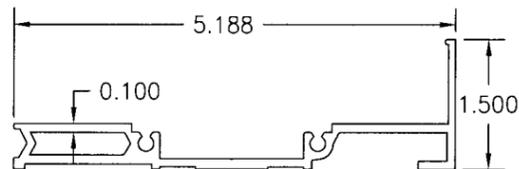
① HEAD FRAME



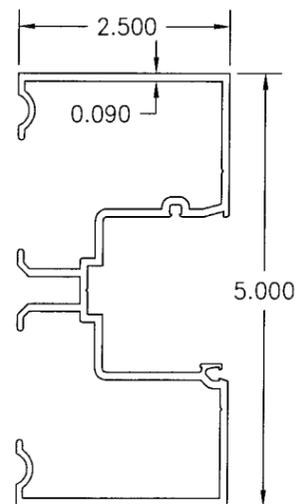
② HORIZONTAL



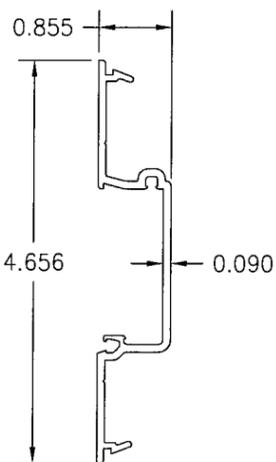
③ HP SILL



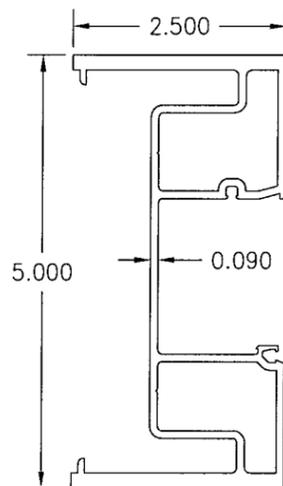
④ HP SILL FLASHING



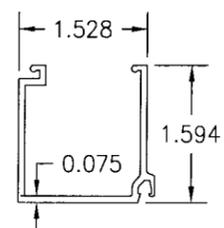
⑤ JAMB



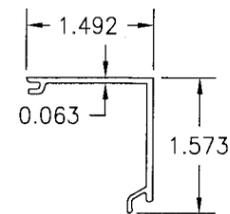
⑥ POCKET FILLER



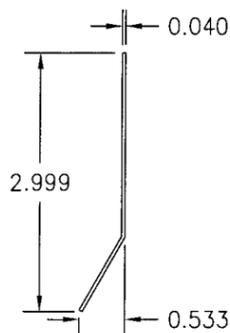
⑦ HW MULLION



⑧ GLASS STOP

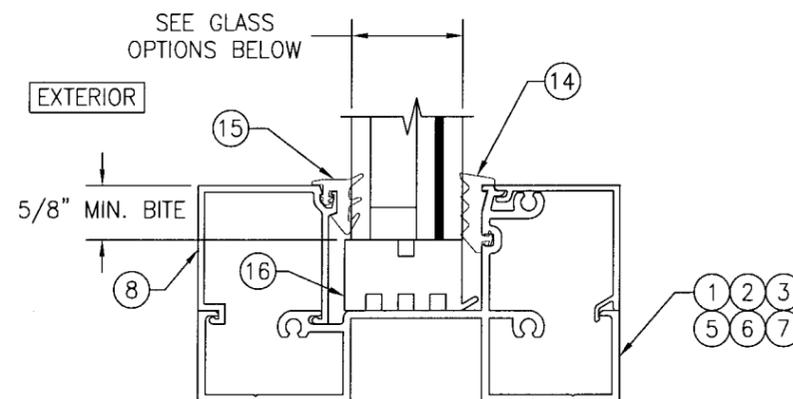


⑨ HP COVER



⑩ WATER DEFLECTOR

ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	575-103	HEAD FRAME	6063-T6 ALUMINUM
2	575-115	HORIZONTAL	6063-T6 ALUMINUM
3	987-032	HP SILL	6063-T6 ALUMINUM
4	987-033	HP SILL FLASHING	6063-T6 ALUMINUM
5	575-101	JAMB	6063-T6 ALUMINUM
6	575-102	POCKET FILLER	6063-T6 ALUMINUM
7	575-116	HW MULLION	6063-T6 ALUMINUM
8	575-104	GLASS STOP	6063-T6 ALUMINUM
9	987-034	HP COVER	6063-T6 ALUMINUM
10	451-105	WATER DEFLECTOR	6063-T6 ALUMINUM
SEALS AND SEALANTS			
13	127-120	SILL TO FLASHING GASKET	CCN SPONGE
14	127-121	INTERIOR FIXED GASKET	EPDM (DUROMETER = SPONGE) BY TREMCO
15	127-127	EXTERIOR PUSH IN GASKET	EPDM (DUROMETER = 70) BY TREMCO
16	127-070	SETTING BLOCK	EPDM
FASTENERS			
19	128-396	NO. 12 X 7/16" S.S. PHTF	2" FROM ENDS & MAX. 18" O.C.



TYP. GLAZING DETAIL

GLASS OPTIONS:

OPTION 1: 1 5/16" THICK LAMINATED GLASS BY SOLUTIA (1/4" TEMPERED/1/2" AIR SPACER/1/4" HT. ST./0.06 SOLUTIA SAFLEX IIIIG PVB/1/4" HT. ST.)

OPTION 2: 1 5/16" THICK LAMINATED GLASS BY DUPONT (1/4" TEMPERED/1/2" AIR SPACER/1/4" HT. ST./0.06 DUPONT BUTICITE PVB/1/4" HT. ST.)

PRODUCT REVISED
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 By *Manuel Perez*
 Miami State Product Control
 Division

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 07/14/06
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE IR501 ALUMINUM STORE FRONT SYSTEM - SMALL MISSILE IMPACT	
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 MAY 14 2009 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1484	REV. A
SHEET NO. 3 OF 3	