



**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
www.buildingcodeonline.com**

NOTICE OF ACCEPTANCE (NOA)

**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 High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Series 8430TL Aluminum Single Hung Windows -S.M.I,

APPROVAL DOCUMENT: Drawing No. 1410, titled "8430TL Single Hung Window (Small Missile Impact)", dated 03/07/05, sheets 1 through 4 of 4, 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: 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**



M
07/15/05

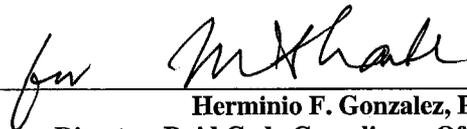
**NOA No 05-0609.02
Expiration Date: August 04, 2010
Approval Date: August 04, 2005
Page 1**

Kawneer Company, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

G. OTHER

1. Letter from the consultant stating that the product is in compliance with the Florida Building Code (Code).



**Herminio F. Gonzalez, P.E.
Director, Buid Code Compliance Office**

NOA No 05-0609.02

Expiration Date: August 04, 2010

Approval Date: August 04, 2005

Kawneer Company, Inc.

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **1410**, titled "8430TL Single Hung Window (Small Missile Impact)", dated 03/07/05, sheets 1 through 4 of 4, 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) Cyclic Wind Pressure Loading per FBC, TAS 203-94
 - 6) Force Entry Test, per FBC 2411 3.2.1 and TAS 202-94along with marked-up drawings and installation diagram of aluminum single hung windows, prepared by Hurricane Test Laboratory, LLC Test Report No. **HTL-G049-1202-04 and G049-0503-05** dated 12/08/04-5/13/05, signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. Anchor Calculations, ASTM-E1300 and structural analysis, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated March 03, 2005, signed and sealed by Warren W. Schaefer, P.E.
2. Revised Anchor Calculations and structural analysis, prepared by W.W. Schaefer Engineering & Consulting, P.A., dated June 28, 2005, signed and sealed by Warren W. Schaefer, P.E.

D. QUALITY ASSURANCE

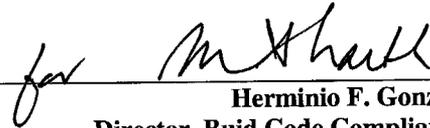
1. Miami Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

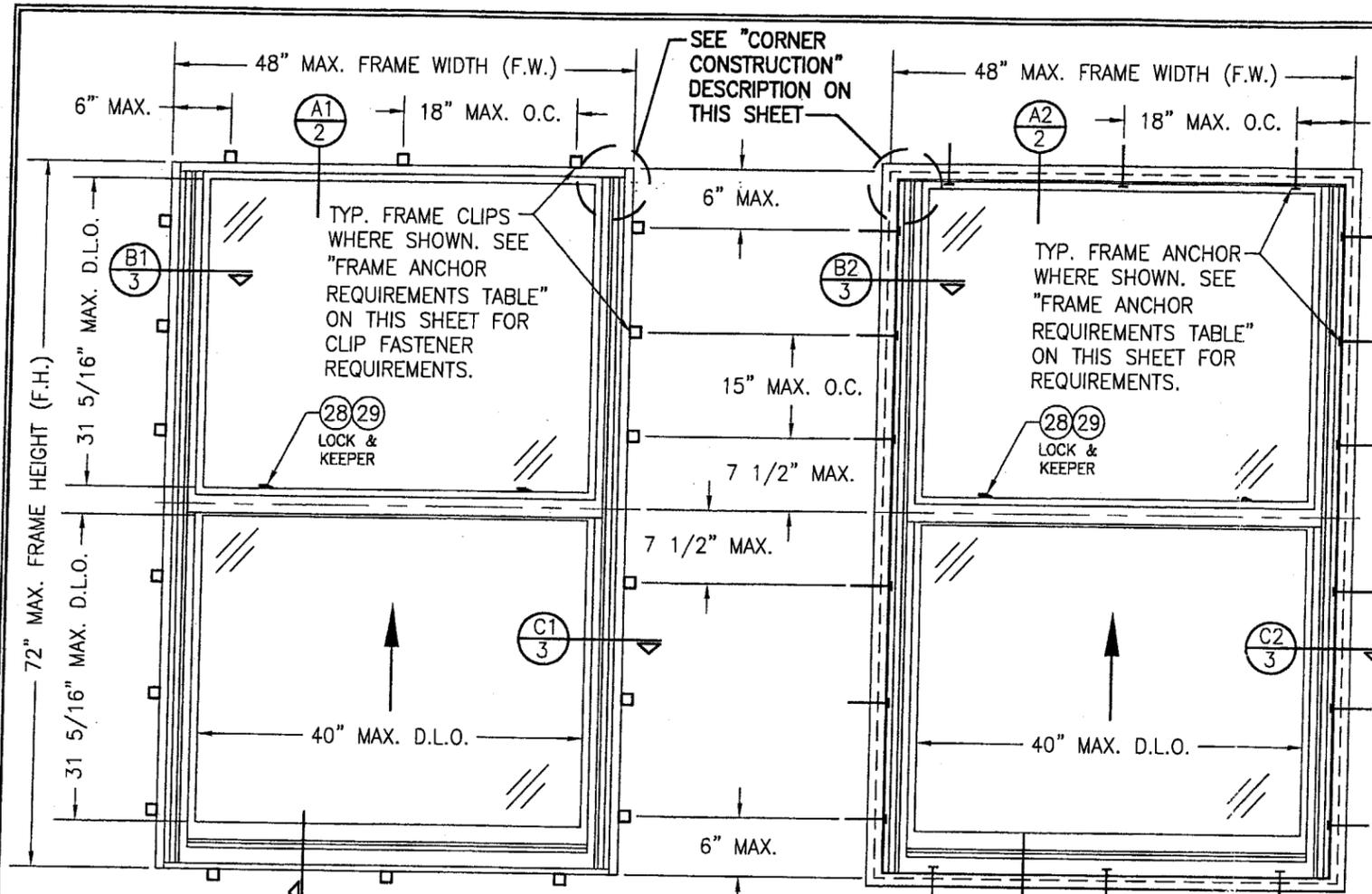
1. Notice of Acceptance No. **02-0828.15** issued to E.I. DuPont DeNemours for "DuPont Butacit PVB Material", dated 11/21/02, expiring on 12/11/05.
2. Notice of Acceptance No. **01-0205.02** issued to Solutia for "Saflex/ Keepsafe Maximum" dated 05/17/01, expiring on 05/21/06.

F. STATEMENTS

1. Statement letter of conformance and "No financial interest", dated 03/11/05 a, signed and sealed by Warren W. Schaefer, P.E.

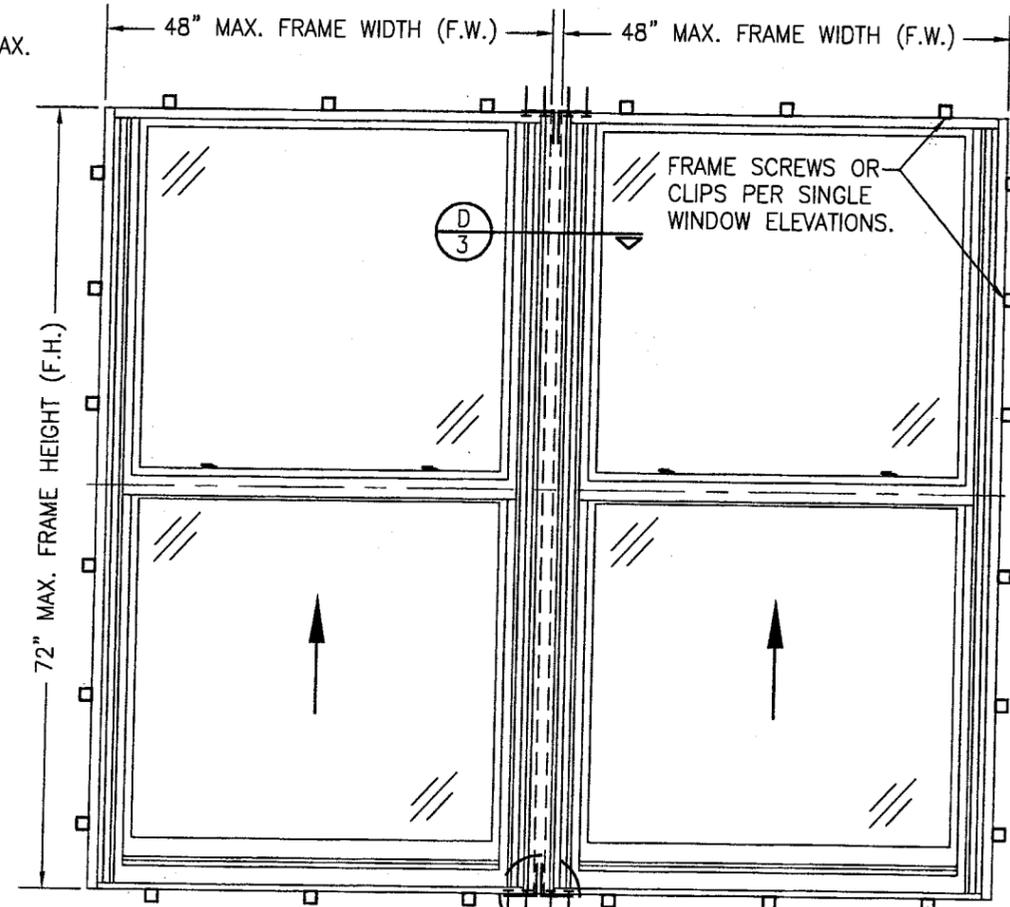


Herminio F. Gonzalez, P.E.
Director, Buid Code Compliance Office
NOA No 05-0609.02
Expiration Date: August 04, 2010
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**EXTERIOR ELEVATION
SINGLE SINGLE WINDOW
(CLIP MOUNT CONDITION)**
SCALE: 3/4"=1'-0"

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



**EXTERIOR ELEVATION
MULTIPLE WINDOWS**
SCALE: 3/4"=1'-0"

(FOR DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATIONS.)
DOUBLE WINDOW SHOWN. MORE THAN 2 WINDOWS MAY BE MULLED TOGETHER INTO ONE OPENING.

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 SMALL 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 WHEN INSTALLED 30 FT. OR GREATER ABOVE GROUND LEVEL..
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. 33 KSI STEEL.
STRUCTURAL STEEL: MIN. 12 GA. 36 KSI.
CMU: MIN. 1800 PSI.
CONCRETE: MIN. 2500 PSI.

LOCK REQUIREMENTS	
MAX. FRAME WIDTH	NO. OF LOCKS REQUIRED
48"	2
24"	1

ALLOWABLE DESIGN PRESSURE
+/-90 PSF
SMALL 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"
METAL STUD	NO. 12 TEK SCREW	FULL	1/2"
STRUCTURAL STEEL	NO. 12 TEK 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 POWERS RAWL TAPPER (HARDENED STEEL OR S.S.).

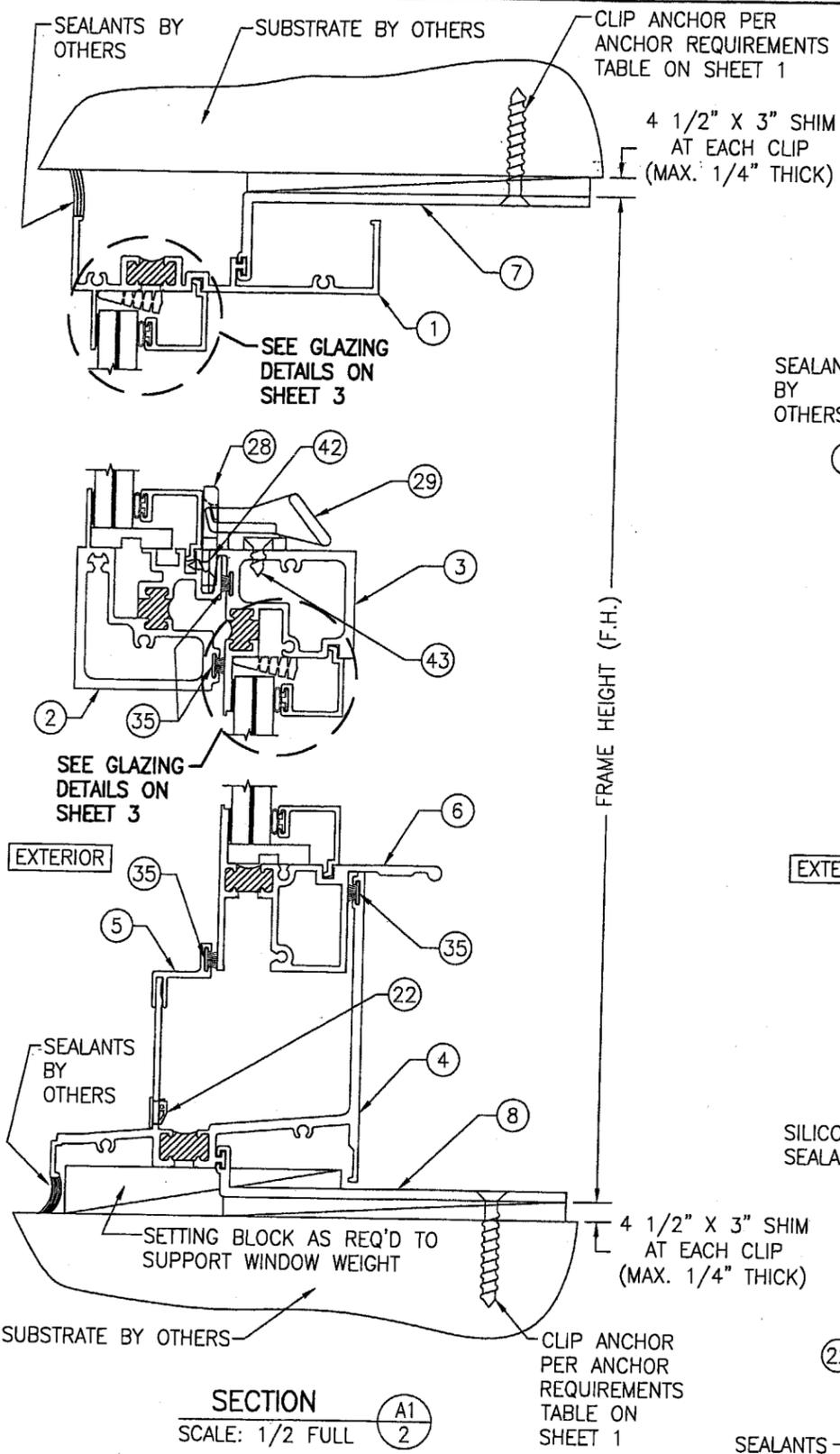
CORNER CONSTRUCTION

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.

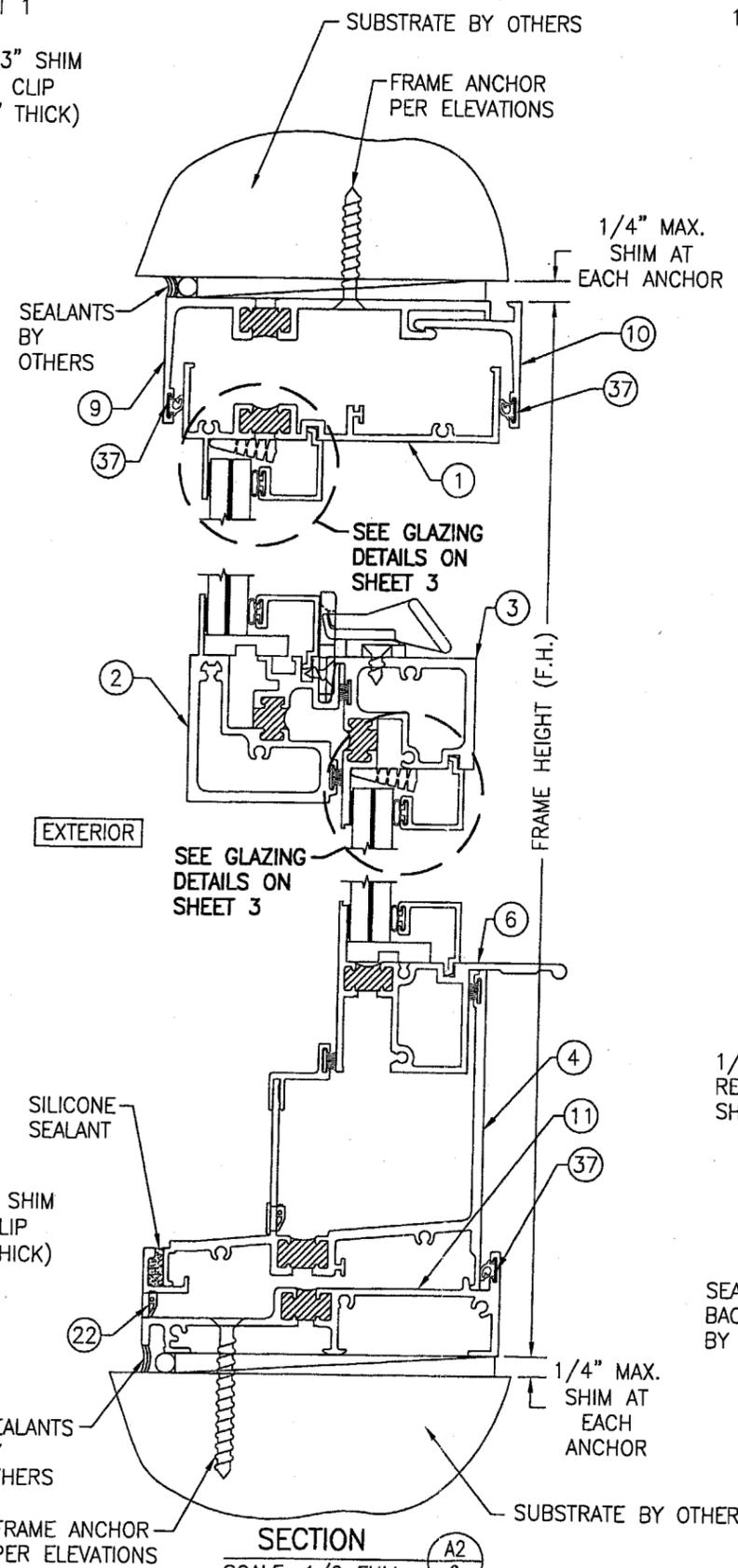
SASH CORNERS:
COPED, SECURED WITH TWO (2) NO. 8 X 1 1/4" S.S. SCREWS PER CORNER AND SEALED WITH TREMCO-TREMSIL 600 SEALANT.

Approved as complying with the Florida Building Code
Date: 08/04/05
NOA# 05-0629.02
Miami Dade Product Control
Division
By: *[Signature]*

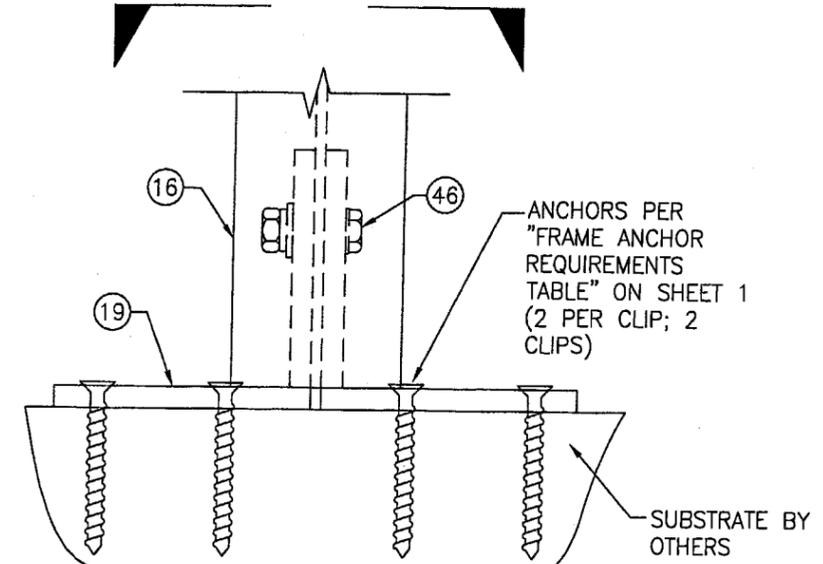
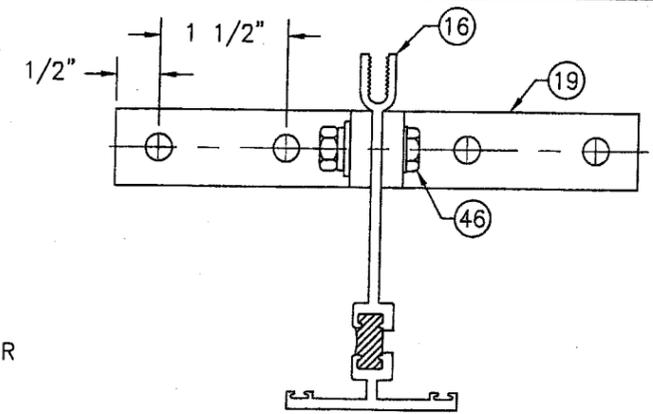
DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 03/07/05
DATE	BY
NO.	REVISION DESCRIPTION
DRAWING TITLE 8430TL SINGLE HUNG WINDOW (SMALL MISSILE IMPACT)	
MANUFACTURER KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	
CERTIFICATION JUN 28 2005 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1410	REV.
SHEET NO. 1 OF 4	



SECTION A1
SCALE: 1/2 FULL

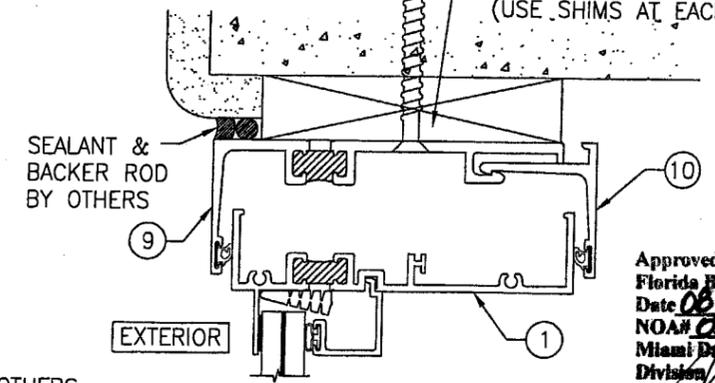


SECTION A2
SCALE: 1/2 FULL
FOR DETAIL NOT SHOWN, SEE SECTION A1



MULLION END DETAIL
NOT TO SCALE
(WINDOW FRAMES NOT SHOWN FOR CLARITY)

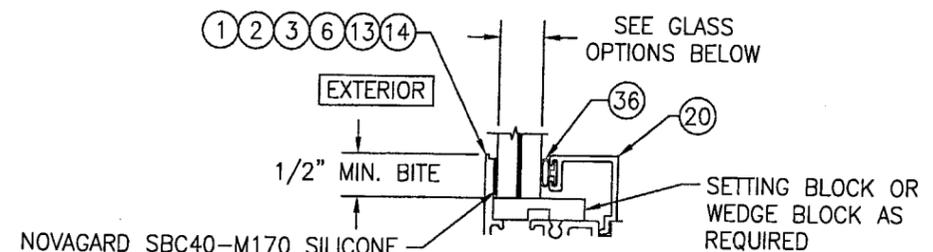
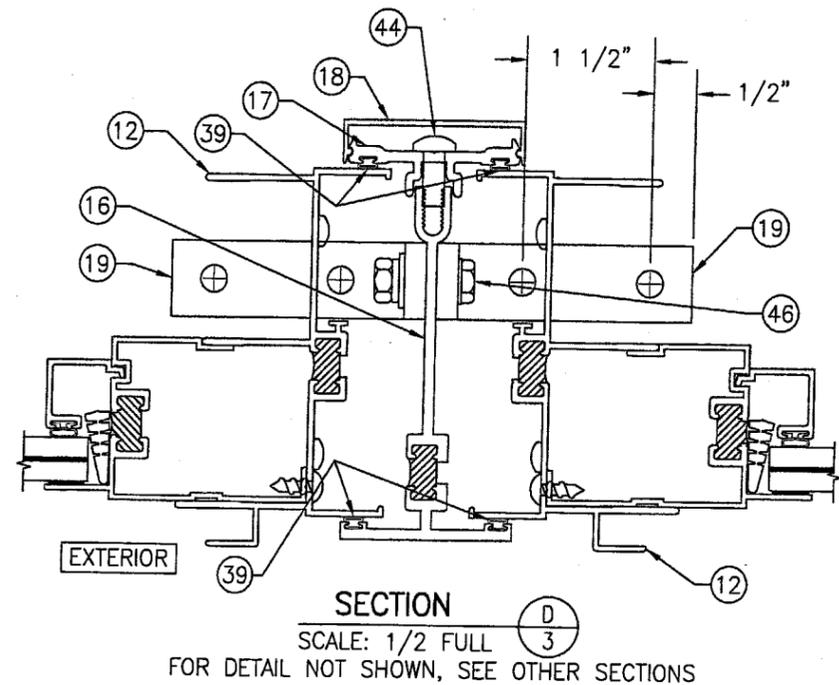
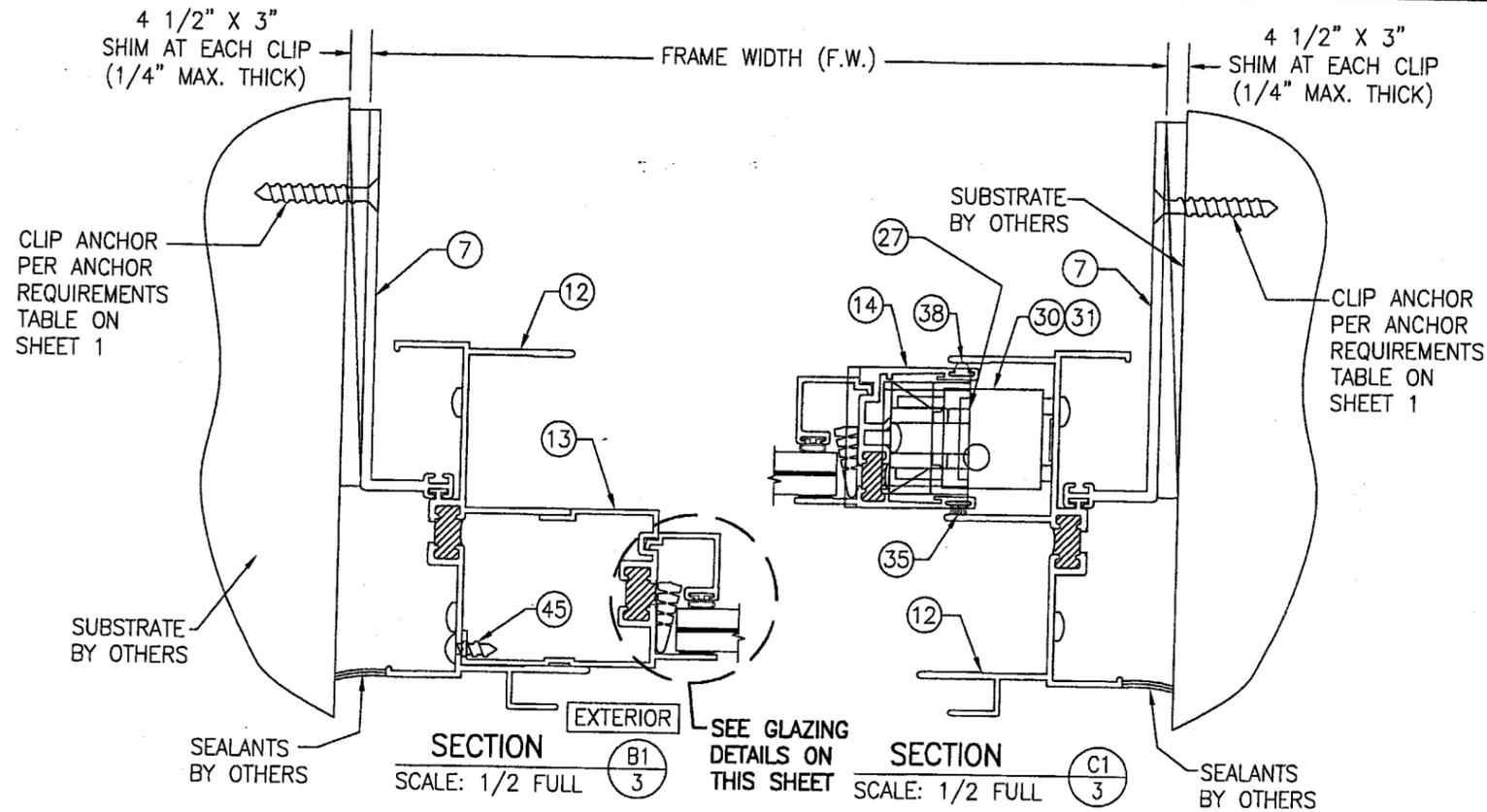
1/4" CONCRETE SCREW TO REPLACE ALL FRAME SCREWS SHOWN IN ELEVATIONS.
CONTINUOUS WOOD MEMBER LESS IN SIZE THAN A 2X BUCK TO BE MIN. 3 1/2" DEEP. NOT REQUIRED WHEN 1/4" OR LESS SHIM SPACE EXISTS. (USE SHIMS AT EACH ANCHOR ONLY).



OPTIONAL DIRECT MOUNT DETAIL
FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS
(HEAD SECTION SHOWN, SIDES AND SILL SIMILAR)

Approved as complying with the Florida Building Code
Date 08/04/05
NOAH OS-000402
Miami Dade Product Control Division
By *[Signature]*

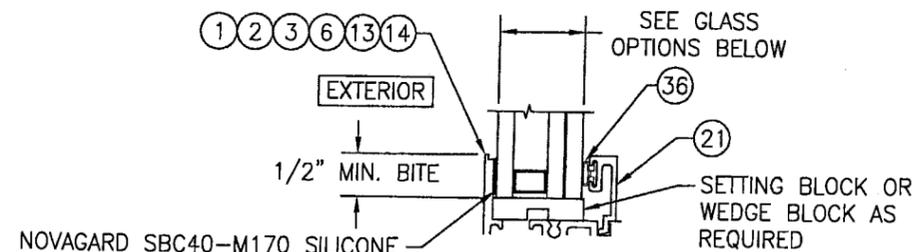
DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 03/07/05	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: 8430TL SINGLE HUNG WINDOW (SMALL MISSILE IMPACT)			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER: KAWNEER COMPANY, INC.	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
CERTIFICATION: JUN 28 2005			
DRAWING NO. 1410		REV.	
SHEET NO. 2 OF 4			



NON-IG GLAZING DETAIL
SCALE: 1/2 FULL

GLASS OPTION 1: 9/16" LAMINATED HEAT STRENGTHENED DUPONT BUTACITE PVB GLASS (1/4" HT. ST./0.06 PVB/1/4" HT. ST.)

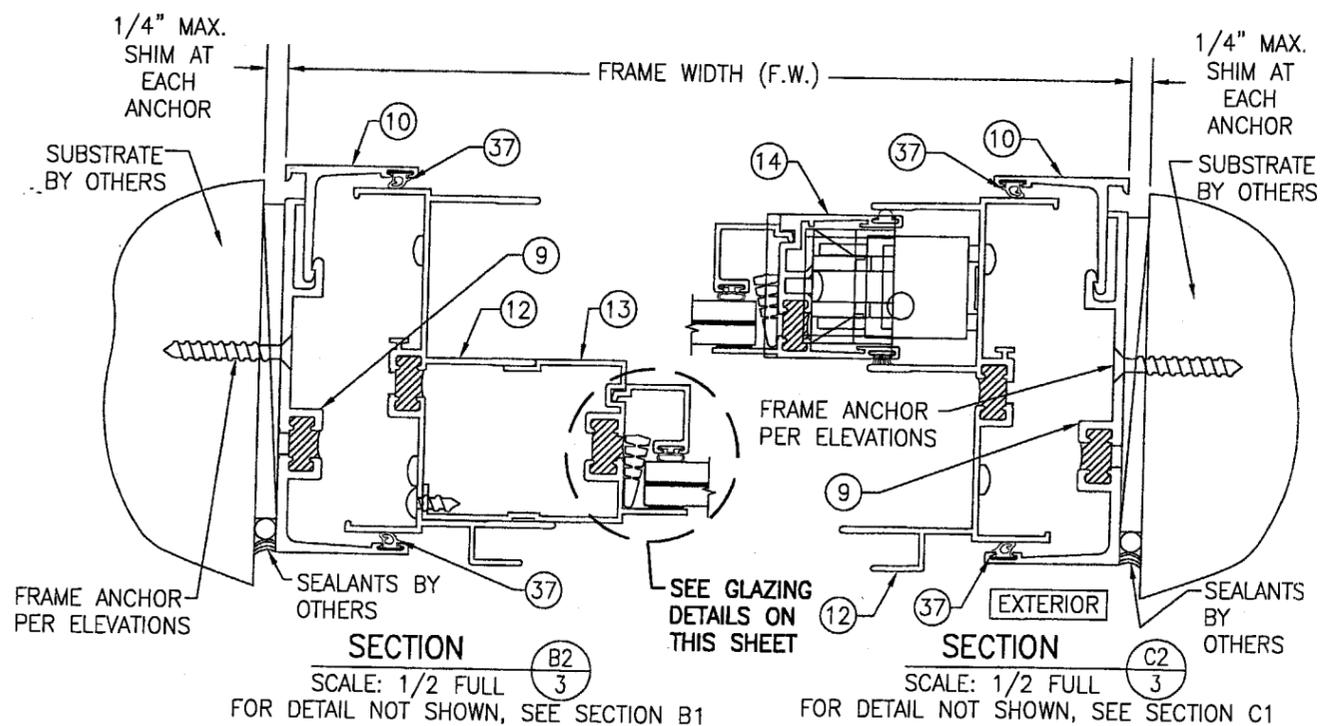
GLASS OPTION 2: 9/16" LAMINATED HEAT STRENGTHENED SOLUTIA SAFLEX PVB GLASS (1/4" HT. ST./0.06 PVB/1/4" HT. ST.)



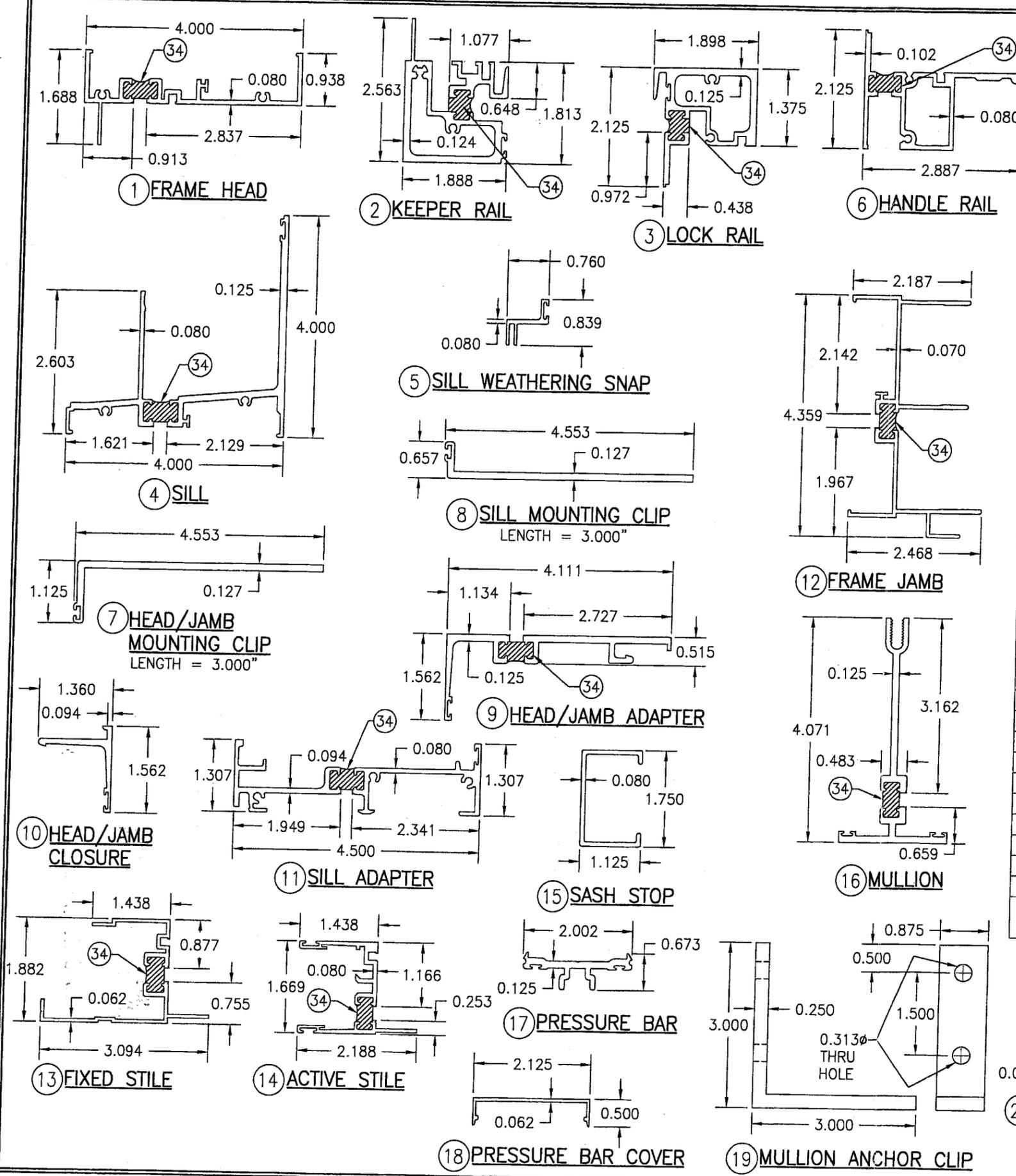
IG GLAZING DETAIL
SCALE: 1/2 FULL

GLASS OPTION 3: 1" I.G. WITH 3/16" TEMPERED OUTBOARD & 7/16" LAMINATED HEAT STRENGTHENED SOLUTIA SAFLEX PVB GLASS INBOARD (3/16" HT. ST./0.03 PVB/3/16" HT. ST.)

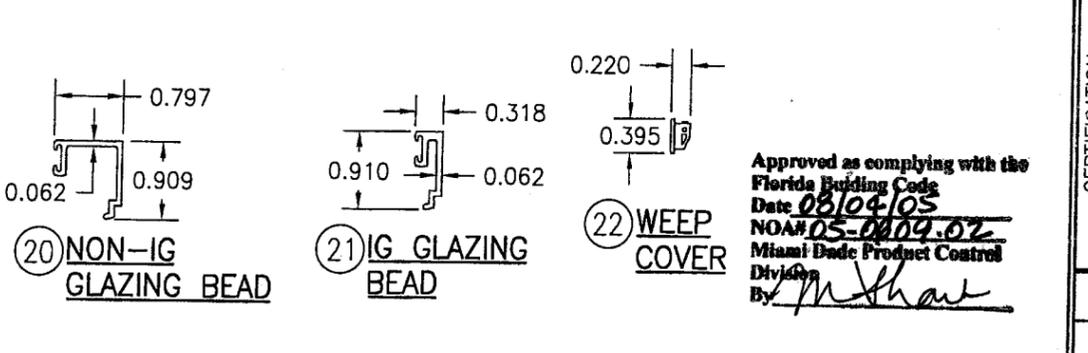
Approved as complying with the Florida Building Code
Date 08/04/05
NOA 05-0609.02
Miami Dade Product Control Division
By *[Signature]*



DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 03/07/05
NO.	REVISION DESCRIPTION
DATE	BY
DRAWING TITLE 8430TL SINGLE HUNG WINDOW (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 JUN 28 2005	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1410	REV.
SHEET NO. 3	OF 4



ITEM #	PART #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1	966-294	FRAME HEAD	6063-T6 ALUMINUM
2	986-966	KEEPER RAIL	6063-T6 ALUMINUM
3	986-974	LOCK RAIL	6063-T6 ALUMINUM
4	245-207	SILL	6063-T6 ALUMINUM
5	245-005	SILL WEATHERING SNAP	6063-T6 ALUMINUM
6	245-389	HANDLE RAIL	6063-T6 ALUMINUM
7	245-458	HEAD/JAMB MOUNTING CLIP	6063-T6 ALUMINUM
8	245-459	SILL MOUNTING CLIP	6063-T6 ALUMINUM
9	966-231	HEAD/JAMB ADAPTER	6063-T6 ALUMINUM
10	966-232	HEAD/JAMB CLOSURE	6063-T6 ALUMINUM
11	245-201	SILL ADAPTER	6063-T6 ALUMINUM
12	245-239	FRAME JAMB	6063-T6 ALUMINUM
13	966-296	FIXED STILE	6063-T6 ALUMINUM
14	966-298	ACTIVE STILE	6063-T6 ALUMINUM
15	245-407	SASH STOP	6063-T6 ALUMINUM
16	245-287	MULLION	6063-T6 ALUMINUM
17	245-490	PRESSURE BAR	6063-T6 ALUMINUM
18	243-088	PRESSURE BAR COVER	6063-T6 ALUMINUM
19	245-428	MULLION ANCHOR CLIP	6063-T6 ALUMINUM
20	245-195	NON-IG GLAZING BEAD	6063-T6 ALUMINUM
21	245-194	IG GLAZING BEAD	6063-T6 ALUMINUM
22	245-521	WEEP COVER	PVC
HARDWARE			
27	245-421	SASH CAM	KAWNEER - GLASS FILLED NYLON
28	245-400	LOCK KEEPER	KAWNEER - WHITE BRONZE
29	245-460	SWEEP LOCK	KAWNEER - WHITE BRONZE
30	245-505	BALANCE	KAWNEER SERIES 401
31	245-515	BALANCE CLIP	KAWNEER - ZINC PLATED STEEL
SEALS AND SEALANTS			
34	-	DEBRIDGING	2-PART POLYURETHANE
35	127-080	PILE WEATHERSTRIP	POLYPROPYLENE
36	127-077	BULB WEATHERSTRIP	TPE/POLYPROPYLENE
37	027-915	GASKET	SANTOPRENE/POLYPROPYLENE
38	127-076	VINYL SPACER	RIGID PVC
39	027-874	BULB WEATHERSTRIP	VISTA PLEX/POLYPROPYLENE
MISC. FASTENERS			
42	-	NO. 6 X 3/8" S.S. SCREW	2 PER LOCK KEEPER
43	-	NO. 10 X 1/2" S.S. SCREW	2 PER SWEEP LOCK
44	-	1/4-20 X S.S. SCREW	3" FROM ENDS & 3" O.C.
45	-	NO. 8 X 1/2" S.S. SCREW	2 EACH SIDE OF FIXED STILE
46	-	1/4-20 X 1" S.S. BOLT WITH NUT, FLAT WASHER & SPLIT WASHER	1 PER MULLION ANCHOR



Approved as complying with the Florida Building Code
 Date 08/04/03
 NOA# 05-0009.02
 Miami Dade Product Control Division
 By *M. Shaw*

DRAWN BY: K.P.S. CHECKED BY: W.W.S. PLOT: 1=2 DATE: 03/07/05	NO. REVISION DESCRIPTION NO. REVISION DESCRIPTION	DRAWING TITLE 84-30TL SINGLE HUNG WINDOW (SMALL 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 JUN 28 2005 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	DRAWING NO. 1410	REV. SHEET NO. 4 OF 4