



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 "8430 TL" Aluminum Single Hung Windows – S.M.I.

APPROVAL DOCUMENT: Drawing No. 1410, titled "8430TL Single Hung Window (Small Missile Impact)", dated 03/07/05 with revision "A1" dated 03/31/10, 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 Renewal 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.

REVISION 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 **renews NOA No. 05-0609.02** 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 **Jaime D. Gascon, P. E.**



J. Gascon
4/21/10

NOA No. 10-0406.06
Expiration Date: August 04, 2015
Approval Date: May 12, 2010
Page 1

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 with revision "**A1**" dated 03/31/10, 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) 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 202-94

along with marked-up drawings and installation diagram of aluminum single hung windows, prepared by Hurricane Test Laboratory, LLC, Test Reports No.'s **HTL-G049-1202-04** and **HTL-G049-0503-05**, dated 12/08/04 and 05/13/05, both signed and sealed by Vinu J. Abraham, P. E.

(Submitted under previous NOA No.05-0609.02)

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by W. W. Schaefer Engineering & Consulting, P. A., dated 03/31/10, signed and sealed by Warren W. Schaefer, P. E.

Complies with ASTM E1300-04

D. QUALITY ASSURANCE

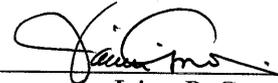
1. Miami-Dade Building Code Compliance Office (BCCO).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **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.

F. STATEMENTS

1. Statement letter of conformance, dated March 31, 2010, signed and sealed by Warren W. Schaefer, P. E.
2. Statement letter of no financial interest, dated March 31, 2010, signed and sealed by Warren W. Schaefer, P. E.



Jaime D. Gascon, P. E.
Chief, Product Control Division

NOA No. 10-0406.06

Expiration Date: August 04, 2015

Approval Date: May 12, 2010

Kawneer Company, Inc.

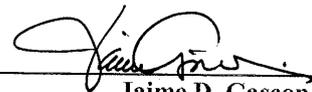
NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

F. STATEMENTS (CONTINUED)

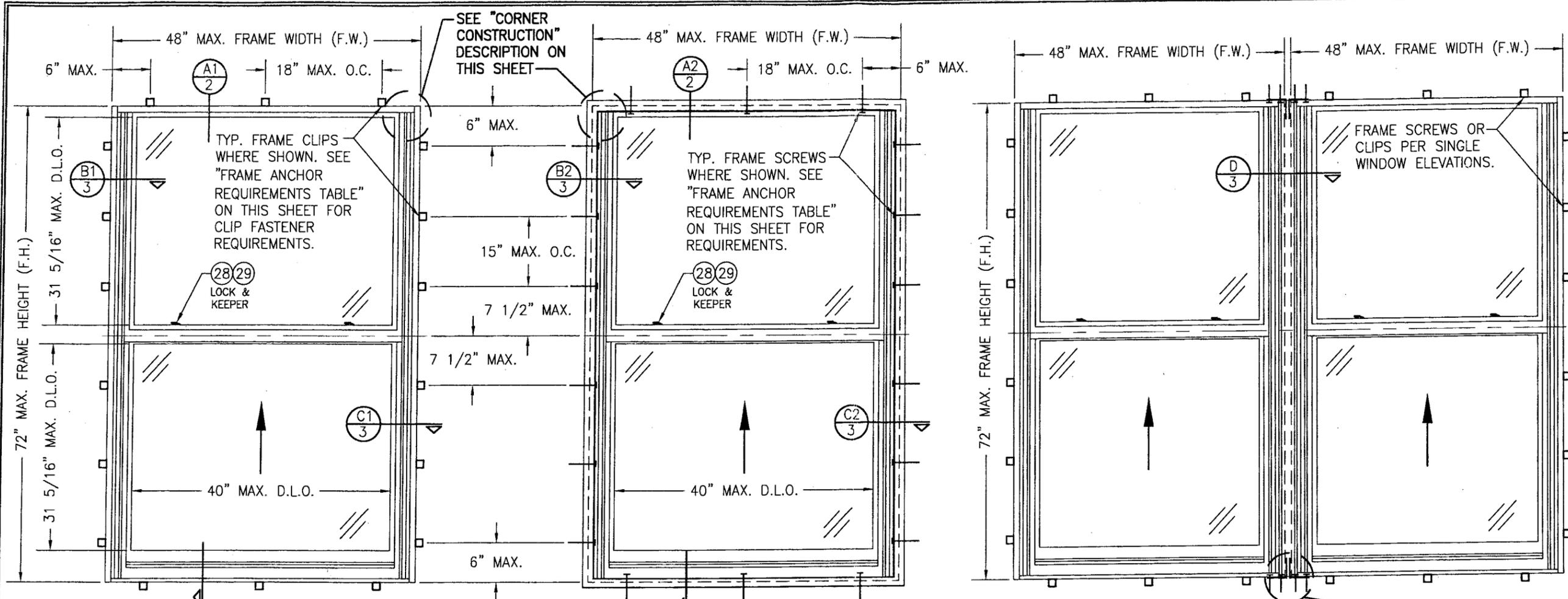
3. Laboratory compliance letter for Test Reports No.'s **HTL-G049-1202-04** and **HTL-G049-0503-05**, issued by Hurricane Test Laboratory, LLC, dated December 08, 2004 and May 13, 2005, both signed and sealed by Vinu J. Abraham, P. E.
(Submitted under previous NOA No.05-0609.02)

G. OTHERS

1. Notice of Acceptance No. **05-0609.02**, issued to Kawneer Company, Inc. for their Series "**8430TL Aluminum Single Hung Windows - S.M.I.**", approved on 08/04/05 and expiring on 08/04/10.



Jaime D. Gascon, P. E.
Chief, Product Control Division
NOA No. 10-0406.06
Expiration Date: August 04, 2015
Approval Date: May 12, 2010



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

EXTERIOR ELEVATION; SINGLE WINDOW
(FRAME 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 PROVIDING OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS AND THEIR MULLIONS.

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.

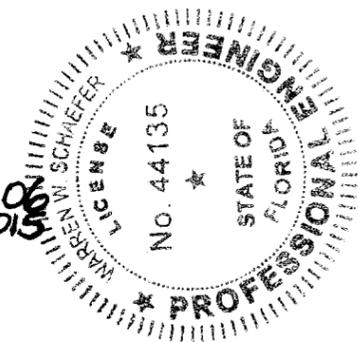
LOCK REQUIREMENTS	
MAX. FRAME WIDTH	NO. OF LOCKS REQUIRED
48"	2
24"	1

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

FRAME ANCHOR REQUIREMENTS TABLE			
FRAME & CLIP 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. 0.10" THK 6063-T5 ALUM.	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.).

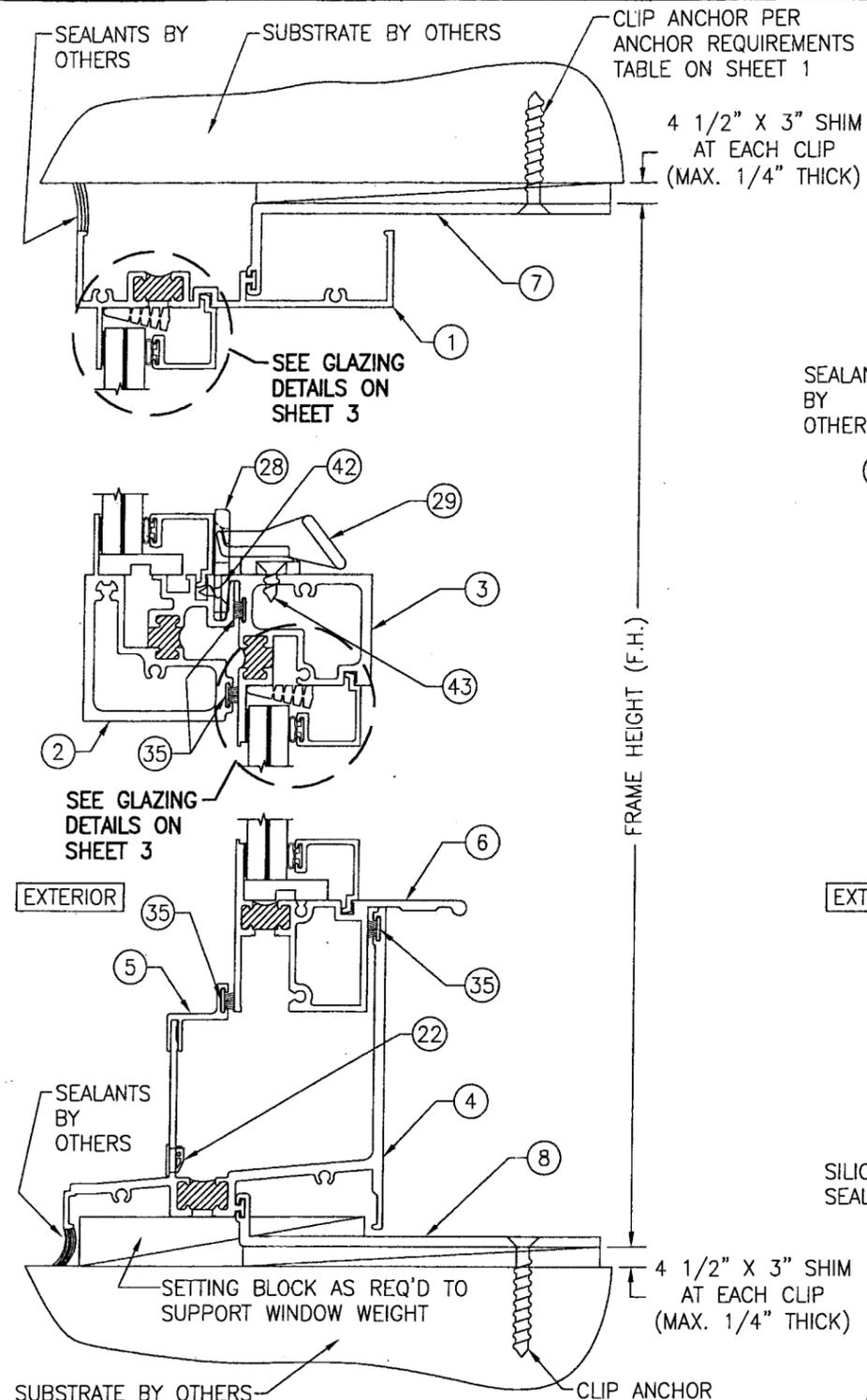
PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No. 10-0406-06
Expiration Date 06/10/2015
By [Signature]
Miami Dade Product Control Division



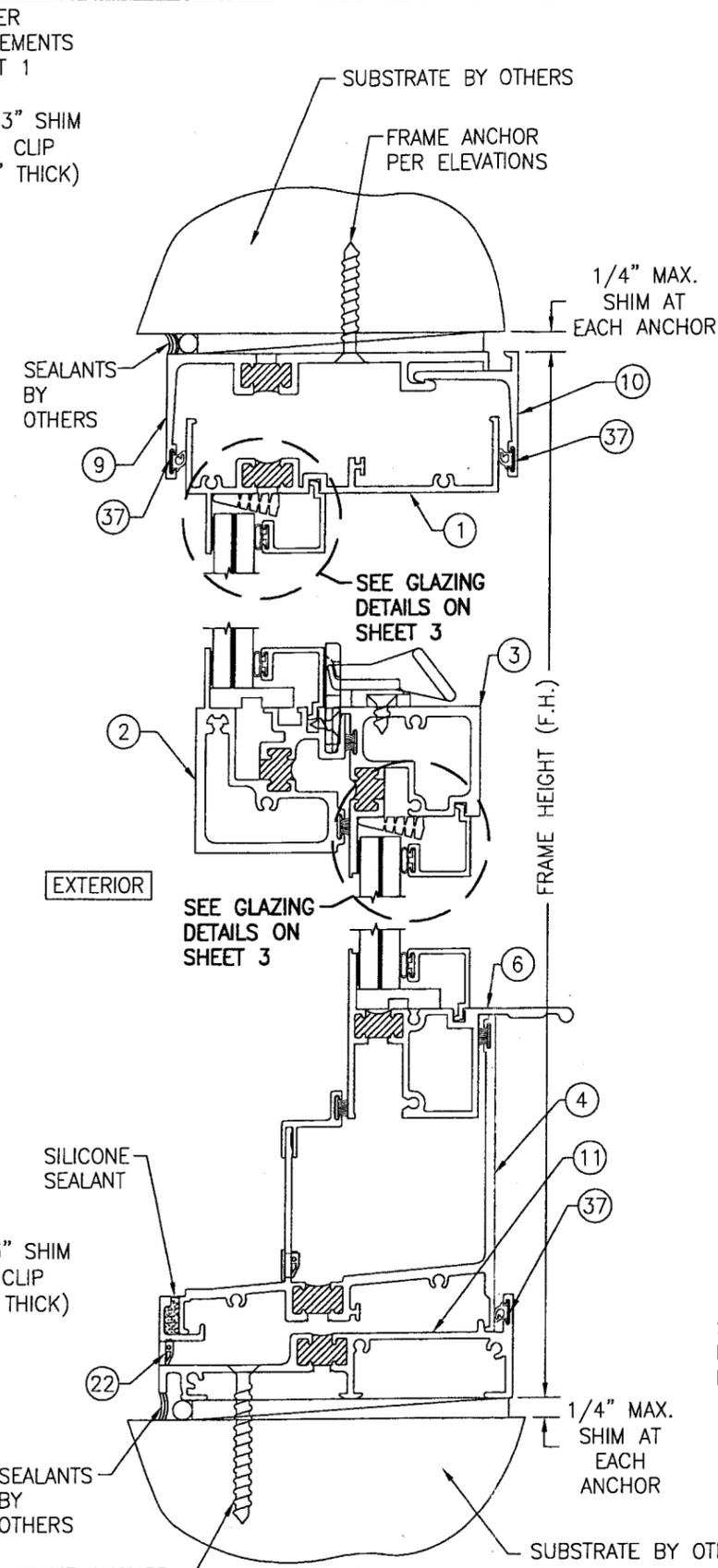
GENERAL NOTES:

- THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)."
- OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
- 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.
- 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.
- 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).
- WHEN GLAZED FOR SMALL MISSILE IMPACT, THESE WINDOWS MAY NOT BE INSTALLED AT ELEVATIONS BELOW 30 FT. ABOVE GRADE WITHOUT AN APPROVED SHUTTER.
- 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.
- 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.
- 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.
- 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.

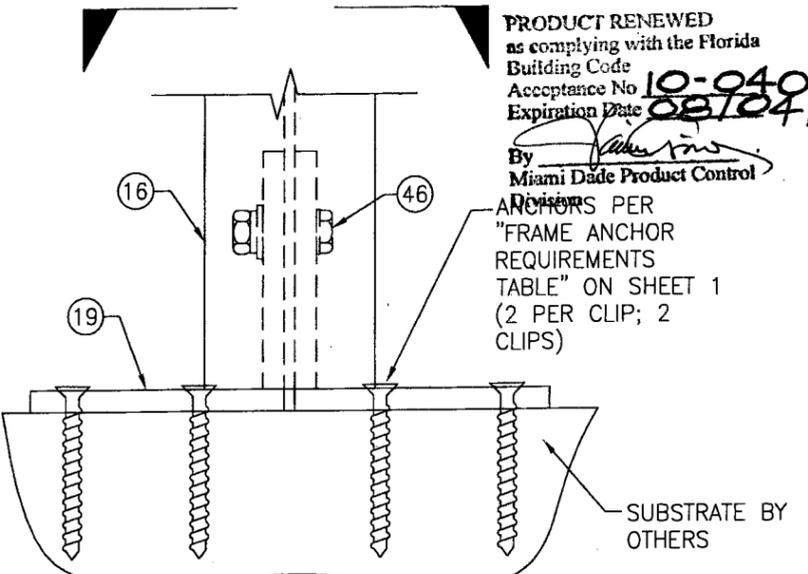
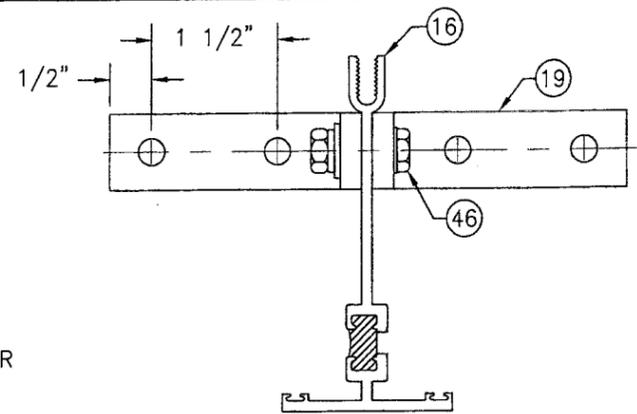
DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1-16	DATE: 03/07/05
DATE: 03/31/10	
BY: W.W.S.	
REVISION DESCRIPTION	
NO. 1	UPDATE TO CURRENT STANDARDS
DRAWING TITLE: 84-30TL SINGLE HUNG WINDOW (SMALL MISSILE IMPACT)	
MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555	
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: MAR 8 2010 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1410	REV. A
SHEET NO. 1 OF 4	



SECTION A1
SCALE: 1/2 FULL

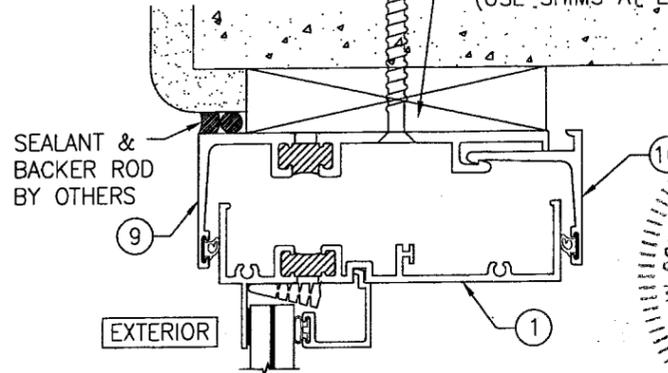


SECTION A2
SCALE: 1/2 FULL
FOR DETAIL NOT SHOWN, SEE SECTION A1



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

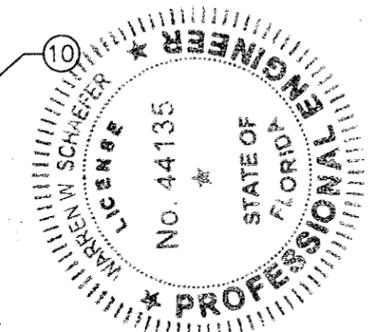
1/4" CONCRETE SCREW TO REPLACE ALL FRAME SCREWS SHOWN IN ELEVATIONS.
CONTINUOUS WOOD MEMBER LESS IN SIZE THAN A 2X BUCK TO BE MIN. 3 1/2" DEEP. NOT REQUIRED WHEN 1/4" OR LESS SHIM SPACE EXISTS (USE SHIMS AT EACH ANCHOR ONLY).



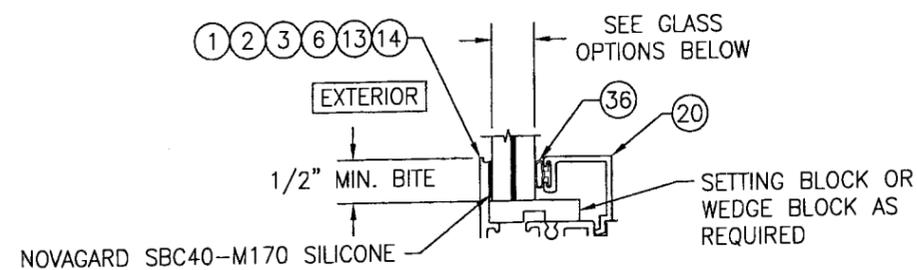
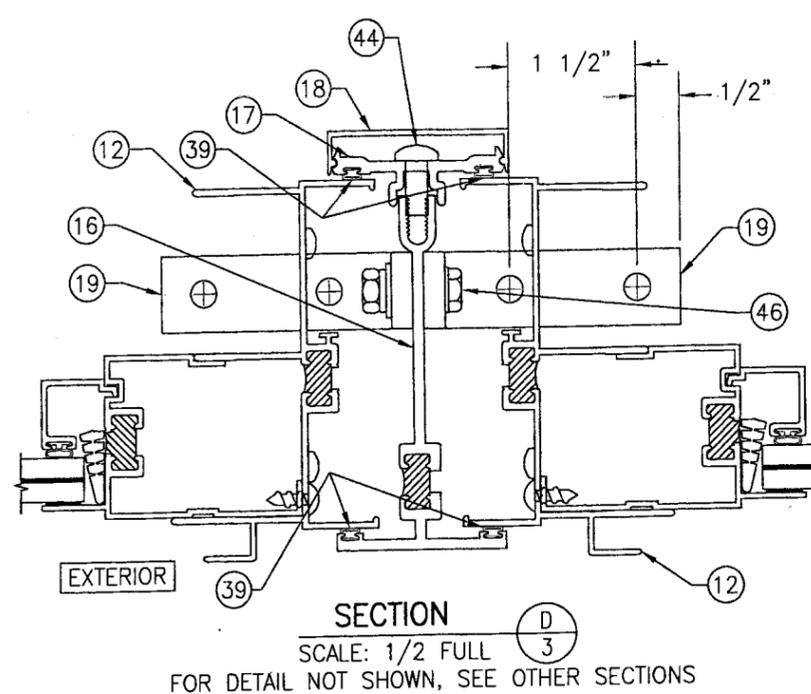
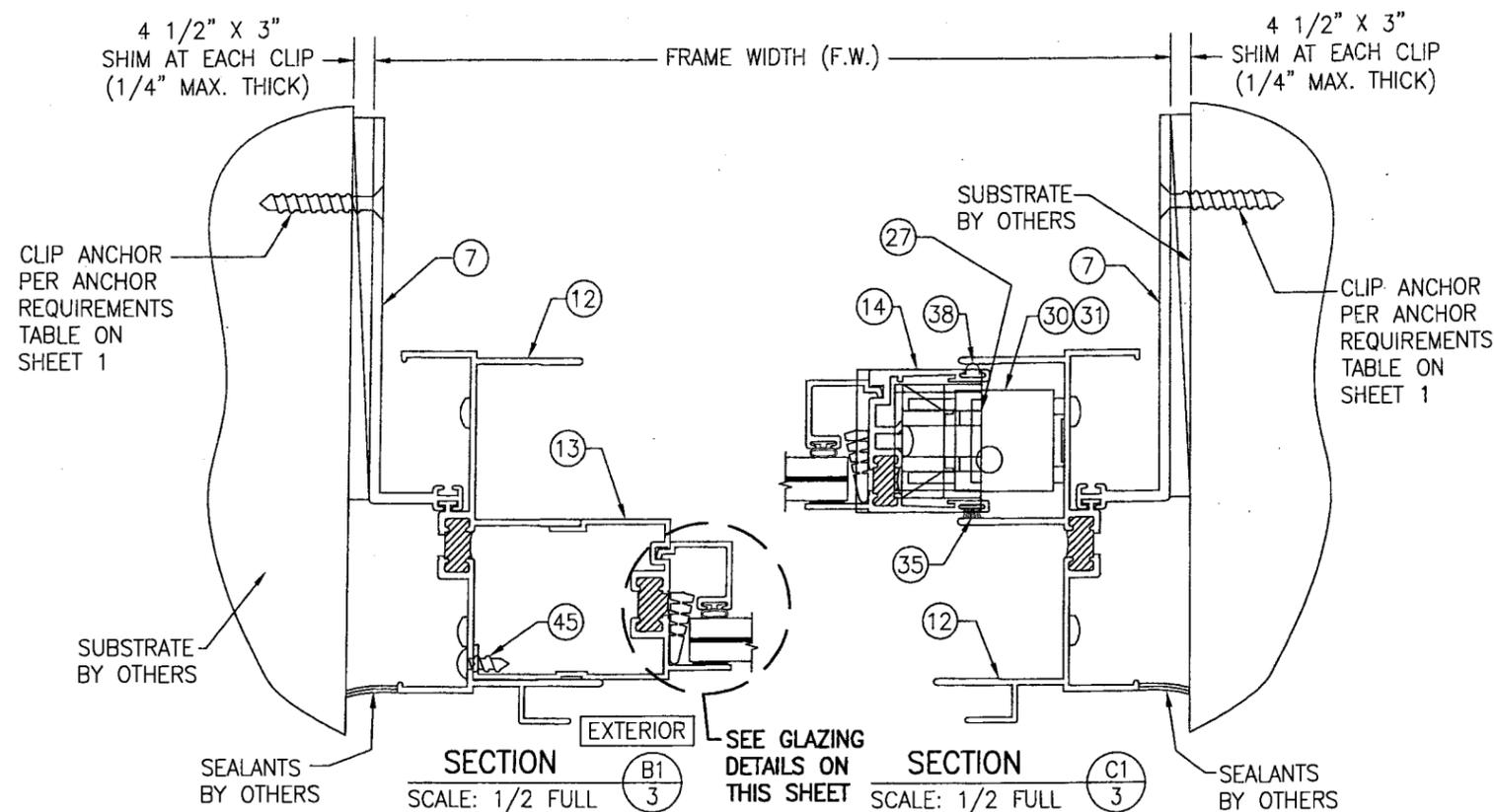
OPTIONAL DIRECT MOUNT DETAIL
FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS (HEAD SECTION SHOWN, SIDES AND SILL SIMILAR)

PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 10-0406.06 Expiration Date 08/04/2015
By *[Signature]*
Miami Dade Product Control Division

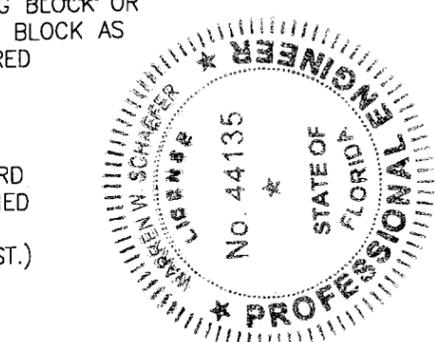
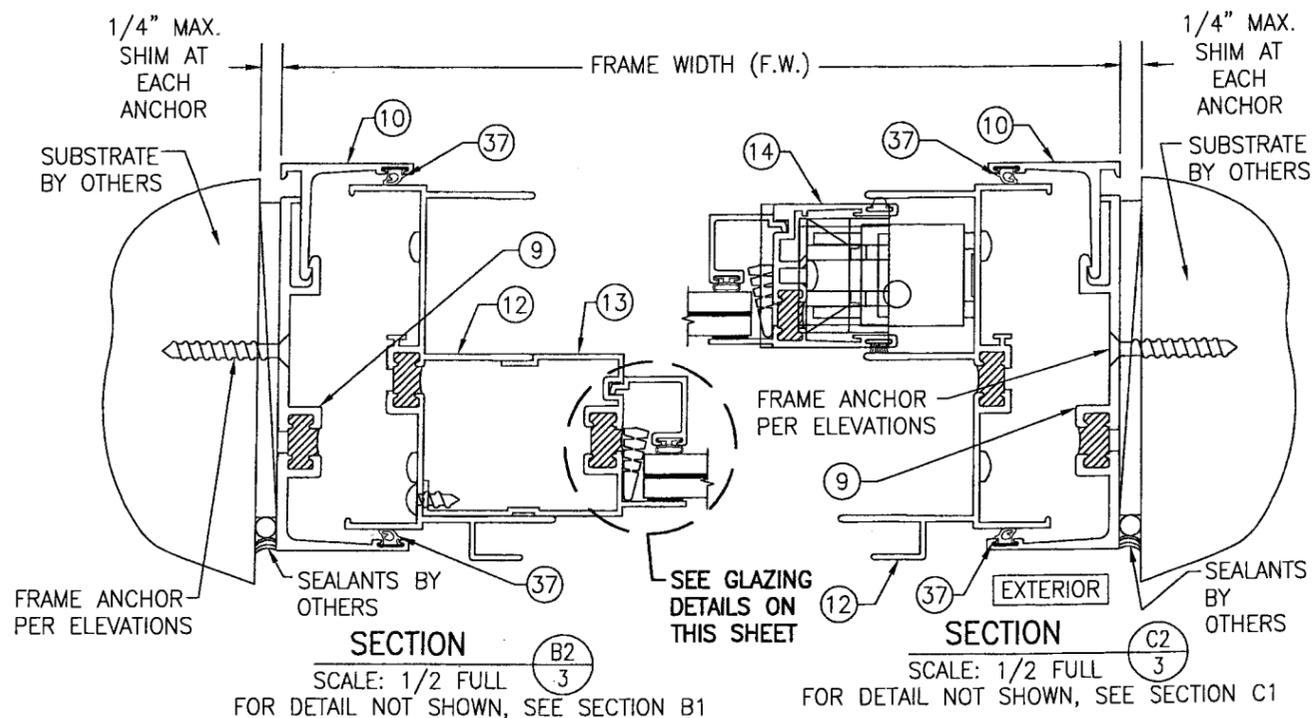
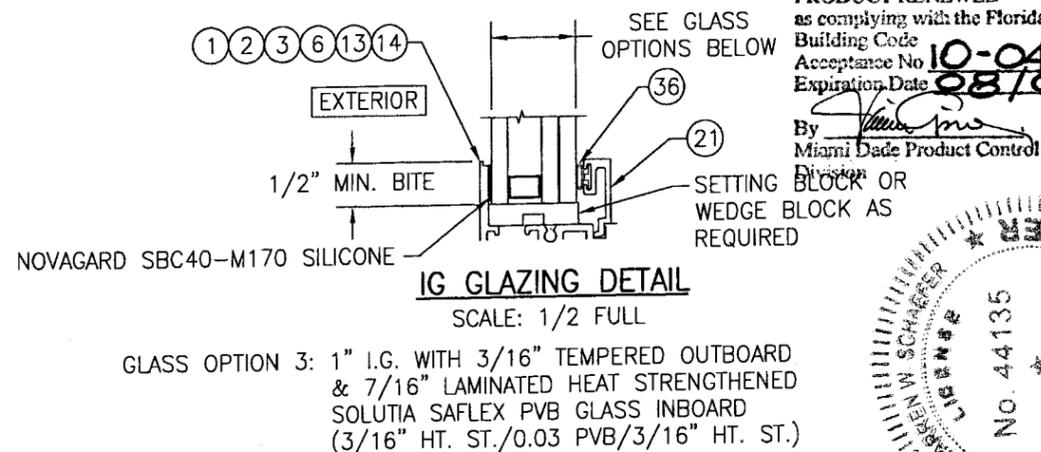
ANCHORS PER "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 (2 PER CLIP; 2 CLIPS)



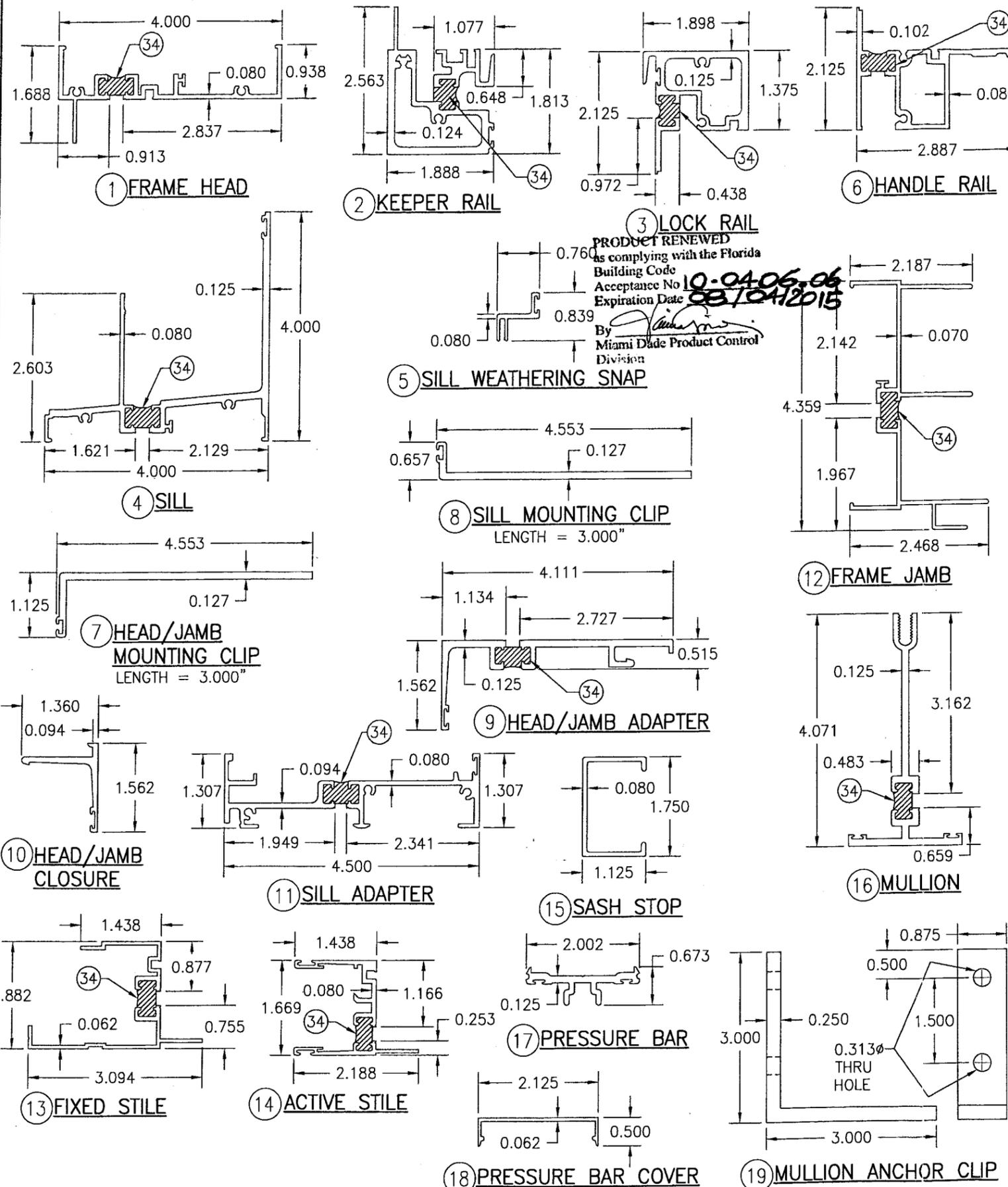
DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 03/07/05
DATE	
BY	
REVISION DESCRIPTION	
NO.	
DRAWING TITLE: 8430TL SINGLE HUNG WINDOW (SMALL MISSILE IMPACT)	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. 8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903	MANUFACTURER: KAWNEER COMPANY, INC. 555 GUTHRIDGE COURT NORCROSS, GA 30092 770-449-5555
CERTIFICATION MAR 31 2010 WARREN W. SCHAEFER P.E. NO. 44135	DRAWING NO. 1410 REV. A SHEET NO. 2 OF 4



- 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.)



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)			
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: MAR 31 2010 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1410		REV. A	
SHEET NO. 3 OF 4			



PRODUCT RENEWED
 as complying with the Florida
 Building Code
 Acceptance No. 10-0406-06
 Expiration Date 08/04/2015
 By *[Signature]*
 Miami Dade Product Control
 Division

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

DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 03/07/05
DATE	BY
REVISION	DESCRIPTION
NO.	
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 WARREN W. SCHAEFER, P.E. P.E. NO. 44135 MAR 31 2010	
DRAWING NO. 1410	REV. A
SHEET NO. 4 OF 4	

