



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.maimidade.gov/buildingcode

K.D. Windows, Inc.
3705 Shares Place
Riviera Beach, FL 33404

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 KDI 2000 Aluminum Fixed Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **1011A**, titled “KDI Series 2000 Fixed Impact Resistant Window (Dade)”, sheets 1 through 4 of 4, dated 05/15/00 with revision B1 dated 11/05/08, 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: Large and 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 **revises and renews NOA # 03-1208.01** 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. 08-1202.10
 Expiration Date: December 7, 2009
 Approval Date: January 28, 2009
 Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **1011A**, Sheets 1 through 4 of 4, titled "KDI Series 2000 Fixed Impact Resistant Window (Dade)", dated 05/05/00 with revision B1 dated 11/05/08, prepared by W.W. Schaefer Engineering & Consulting, signed and sealed by Warren W. Schaefer, P.E.

B. TESTS

1. Test reports on:
 - 1) Air Infiltration Test, per PA 202-94
 - 2) Uniform Static Air Pressure Test, Loading per PA 202-94
 - 3) Water Resistance Test, per PA 202-94
 - 4) Large Missile Impact Test per PA 203
 - 5) Cyclic Load Test per PA 203along with installation diagram of a fixed window, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0091-0306-00**, dated March 01 thru 06, 2000 signed and sealed by Vinu J. Abraham, P.E.
2. Test reports on:
 - 1) Air Infiltration Test, per PA 202-94
 - 2) Uniform Static Air Pressure Test, Loading per PA 202-94
 - 3) Water Resistance Test, per PA 202-94
 - 4) Large Missile Impact Test per PA 203
 - 5) Cyclic Load Test per PA 203along with installation diagram of a fixed window, prepared by Hurricane Test Laboratory, Inc., Test Report No. **HTL-0091-0506-00**, dated May 3, 2000 signed and sealed by Vinu J. Abraham, P.E.

C. CALCULATIONS

1. Engineering Calculations for K.D. Windows, Inc. of KDI 2899 Fixed Window, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated May 16, 2000, signed and sealed by Warren W. Schaefer, P.E.
2. Glass Load Resistance Report for K.D. Windows, Inc. of KDI 2899 Fixed Window, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated November 18, 2003.

D. QUALITY ASSURANCE

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


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-1202.10
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K.D. Windows, Inc.

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E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **07-1116.11** issued to Saf-Glas, LLC for their “**SAF-GLAS Polycarbonate Laminate**”, dated 12/27/07, expiring on 12/16/12.

F. STATEMENTS

1. Statement letter of conformance, dated November 5, 2008, signed and sealed by Warren W. Schaefer, P.E.
2. Statement letter of no financial interest, dated November 18, 2008, signed and sealed by Warren W. Schaefer, P.E.
3. Testing agreement letter, dated 11/10/08 issued by HTL, between Hurricane Test Laboratory (HTL) and K.D. Windows, Inc.

G. OTHER

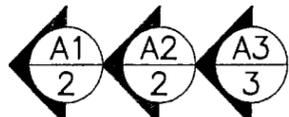
1. Notice of Acceptance No. **03-1208.01**, issued to K.D. Windows, Inc. for their Series KDI 2000 Aluminum Fixed Window – Impact Resistant”, approved on 04/08/04 and expiring on 12/07/08.
2. One year conditional approval, subjected to successful verification test, the final approval will be the balance of a total 5 years.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 08-1202.10

Expiration Date: December 7, 2009
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SEE "FRAME CORNER DETAIL ON THIS SHEET

FOR MAX. FRAME SHORT DIMENSION SEE LOAD TABLE ON SHEET 4



46 3/4" MAX. D.L.O.

ALLOWABLE DESIGN LOADS
SEE LOAD TABLE ON SHEET 4

NO. 10 SMS OR 3/16" TAPCONS (REF. SECTIONS) POSITION WITHIN 6" OF CORNERS & SPACE MAX. 14" O.C. (TYP. ALL SIDES)

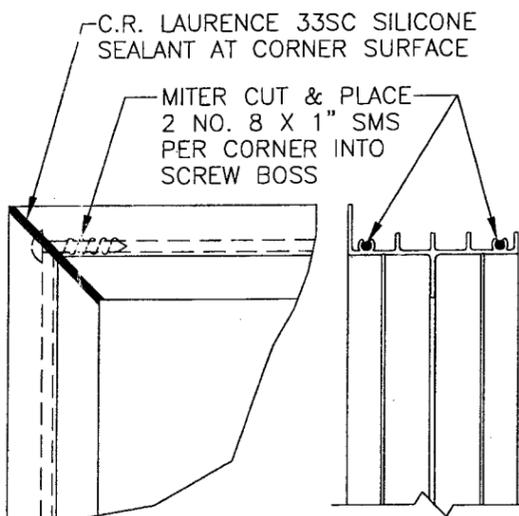
94 3/4" MAX. D.L.O.

FOR MAX. FRAME LONG DIMENSION SEE LOAD TABLE ON SHEET 4

EXTERIOR ELEVATION
SCALE: 1"=1'-0"

GENERAL NOTES:

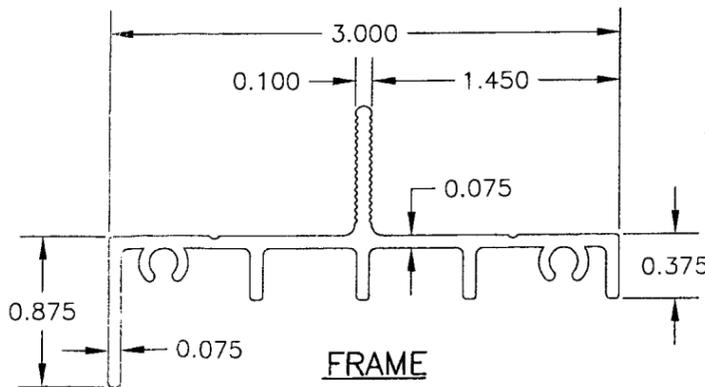
1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS 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 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.



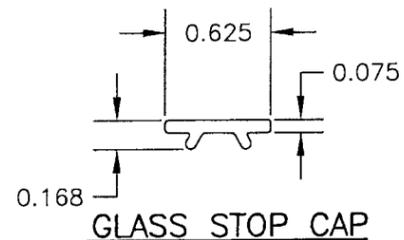
OPTION:
SPOT WELD CORNER BETWEEN EACH TOOTH IN LIEU OF USING SCREWS.

CORNER DETAIL

SCALE: 3"=1'-0"

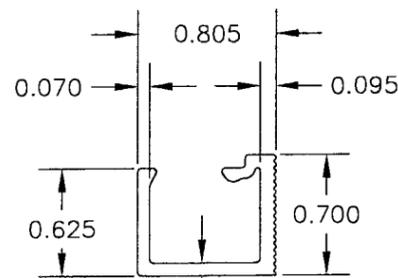


FRAME
SCALE: FULL
6063-T6 ALUMINUM



GLASS STOP CAP

SCALE: FULL
6063-T6 ALUMINUM



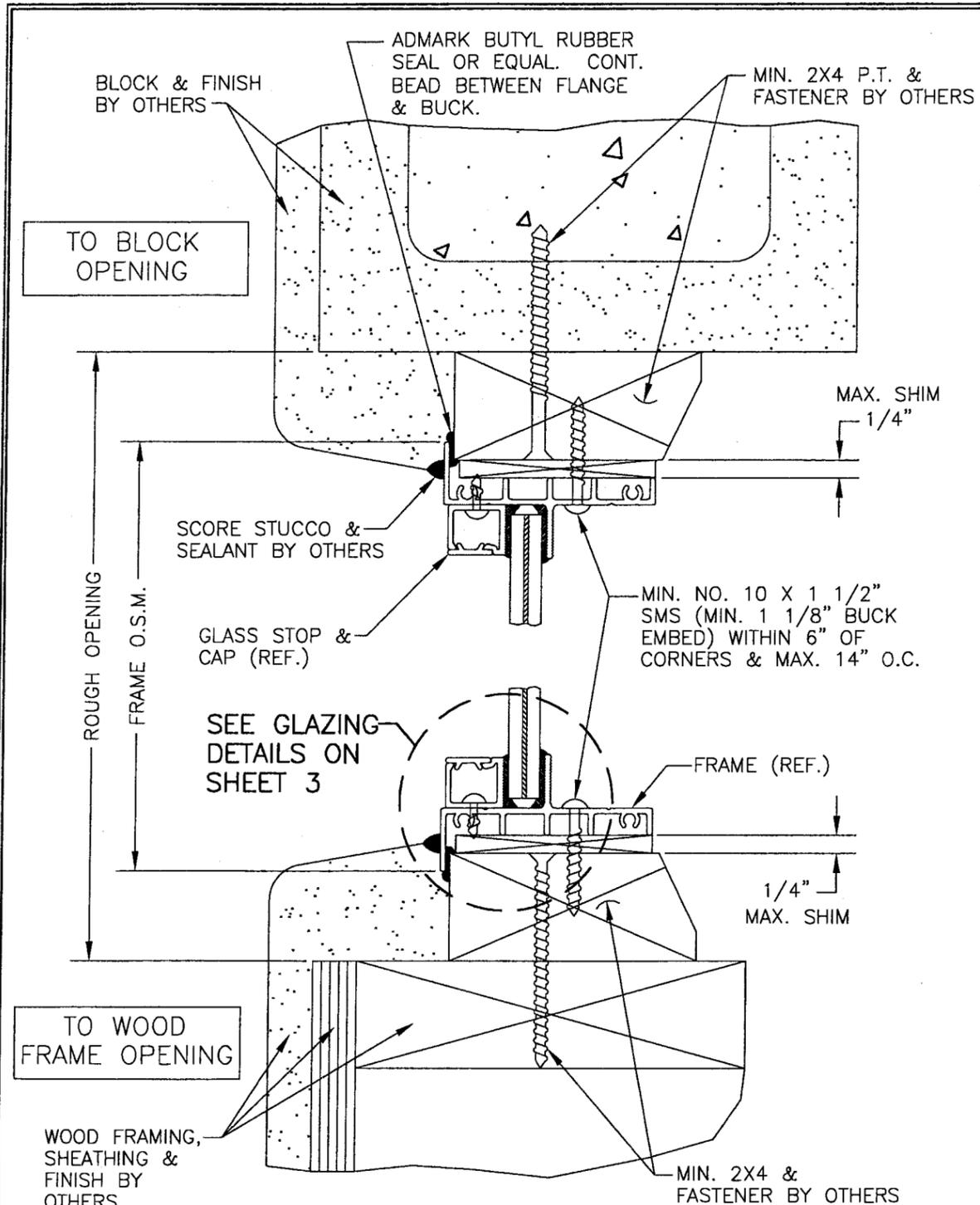
GLASS STOP

SCALE: FULL
6063-T6 ALUMINUM

PRODUCT REVISED as complying with the Florida Building Code Acceptance No. 08-1202.10 Expiration Date DEC. 7, 2009

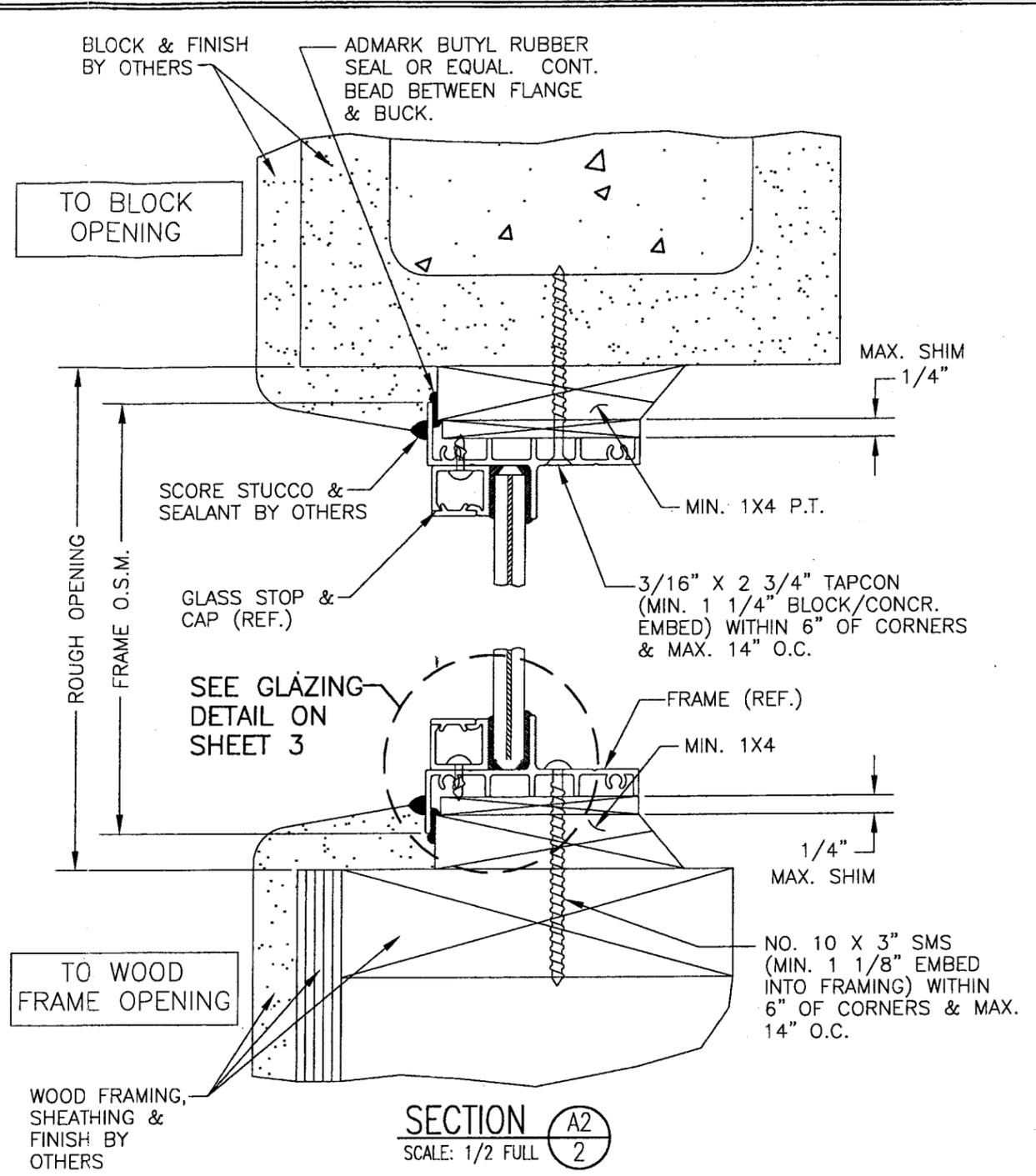
By *Manuel Perez*
Metal Made Product Control Division

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-12		DATE: 05/15/00	
NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATED NOTES 5, 6 & 7	K.P.S.	11/17/03
A2	REVISED WIND LOAD TABLE	K.P.S.	11/17/03
B1	REVISED TO PRESENT FBC & UPDATED LOAD TABLE TO PRESENT ASTM E1300 STANDARD	W.W.S.	11/05/08
DRAWING TITLE: KDI SERIES 2000 FIXED IMPACT RESISTANT WINDOW (DADE)			
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: K.D. WINDOWS, INC. 3705 SHARES PLACE RIVERIA BEACH, FLORIDA 33404 (561) 845-1401	
CERTIFICATION: DEC 19 2008		DRAWING NO. 1011A SHEET NO. 1 OF 4	
REVISIONS:		REV. B	



SECTION A1
SCALE: 1/2 FULL

MAX. ROUGH OPENING = FRAME O.S.M. + 2 1/2"
MIN. ROUGH OPENING = FRAME O.S.M. + 2 1/8"

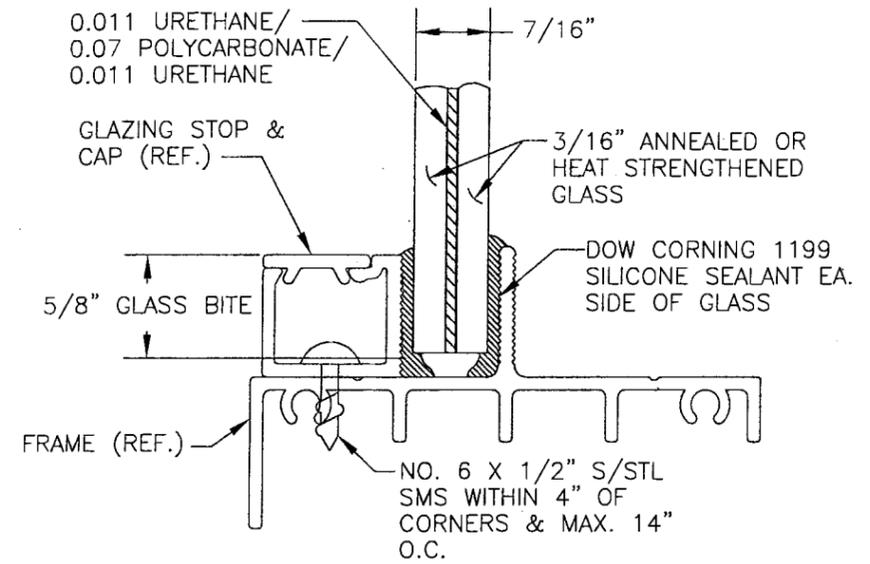
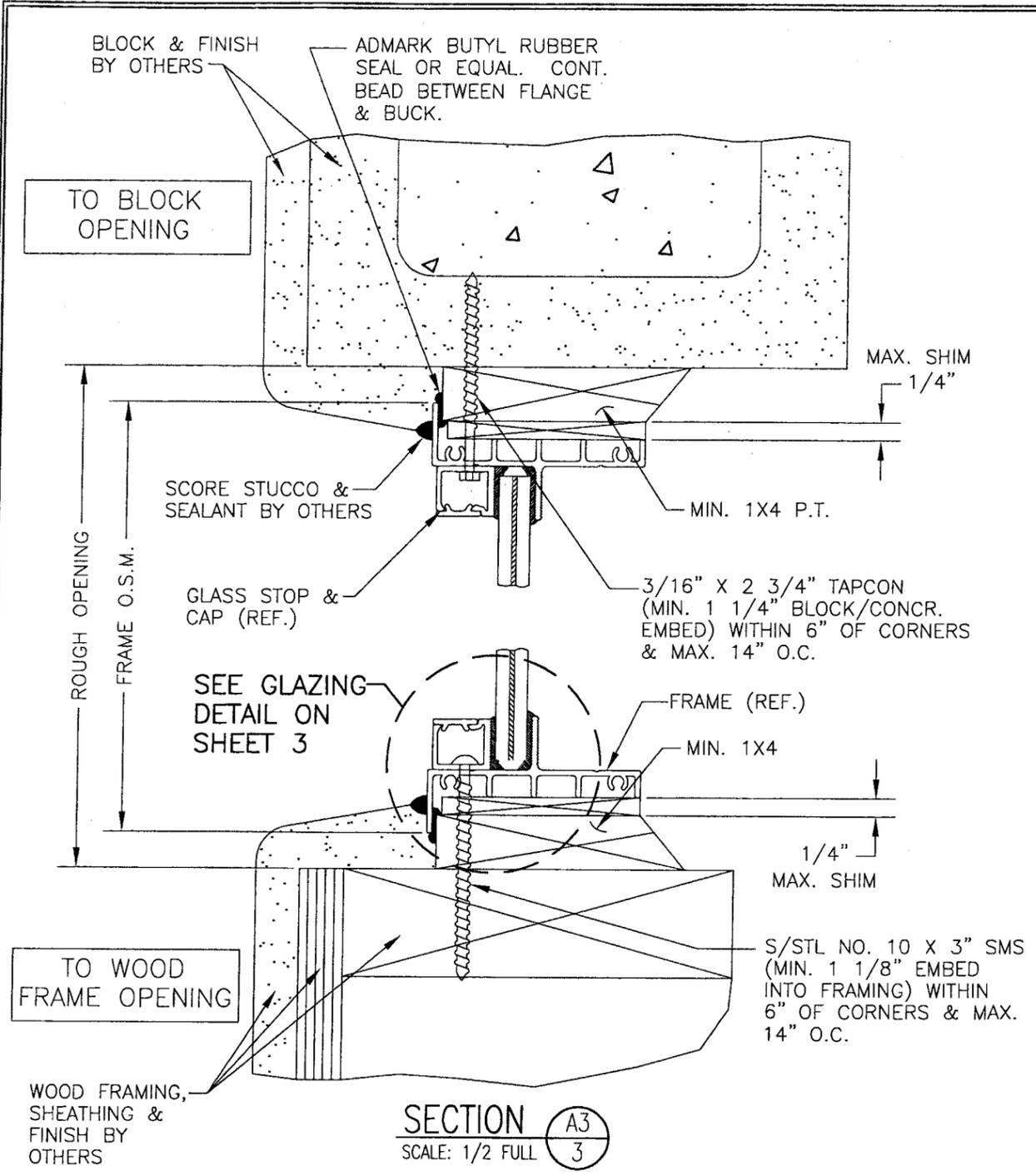


SECTION A2
SCALE: 1/2 FULL

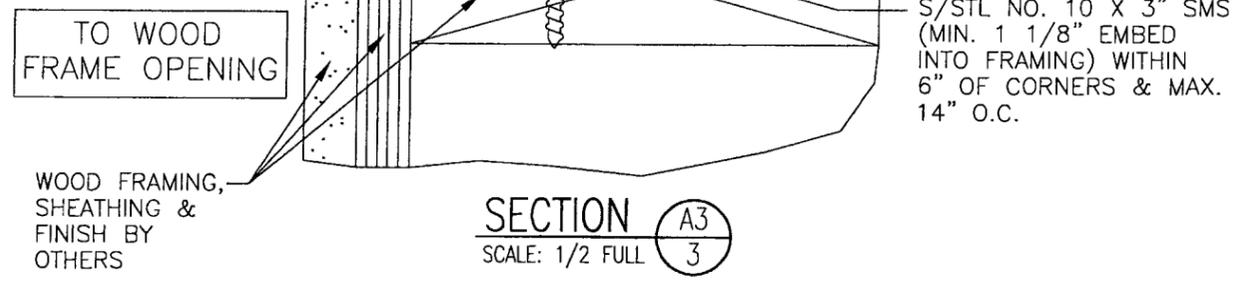
MAX. ROUGH OPENING = FRAME O.S.M. + 1"
MIN. ROUGH OPENING = FRAME O.S.M. + 1/2"

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 05/15/00	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: KDI SERIES 2000 FIXED IMPACT RESISTANT WINDOW (DADE)			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER: K.D. WINDOWS, INC.	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		3705 SHARES PLACE RIVERIA BEACH, FLORIDA 33404 (561) 845-1401	
CERTIFICATION: DEC 19 2008			
WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1011A		REV. B	
SHEET NO. 2 OF 4			

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. DB-1202.10
Expiration Date DEC. 7, 2009
By *Warren W. Schaefer*
Miami Code Product Control
Division



GLAZING DETAIL 1
 7/16" SECURITY IMPACT GLASS HOLDINGS L.L.C.
 "SAF-GLAS" LAMINATED GLASS



SECTION A3
 SCALE: 1/2 FULL

SEE LOAD TABLE ON SHEET 4
 FOR GLASS USAGE WITH RESPECT
 TO ALLOWABLE DESIGN WIND LOAD.

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. **08-1202-10**
 Expiration Date **Dec. 7, 2009**
 By *Manuel Perez*
 National Glazing Product Control
 Division

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 05/15/00	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE KDI SERIES 2000 FIXED IMPACT RESISTANT WINDOW (DADE)			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER K.D. WINDOWS, INC.	
8885 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		3705 SHARES PLACE RIVERIA BEACH, FLORIDA 33404 (561) 845-1401	
CERTIFICATION DEC 19 2008 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1011A		REV. B	
SHEET NO. 3 OF 4			

**WIND LOAD TABLE
(7/16" SECURITY SAF-GLAS LAMINATED
ANNEALED GLASS)**

MAXIMUM LONG DIMENSION	ALLOWABLE DESIGN PRESSURE (PSF)									
	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.
72"	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	50.0	58.3
78"	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	50.0	58.3
84"	60.0	70.0	60.0	70.0	60.0	70.0	60.0	69.1		
90"	60.0	70.0	60.0	70.0	60.0	65.8	60.0	63.9		
96"	60.0	70.0	60.0	68.4	60.0	61.0	59.0	59.0		
98"	60.0	70.0	60.0	66.7	59.6	59.6	57.5	57.5		
102"	60.0	70.0	60.0	63.7	57.0	57.0				
108"	60.0	70.0	60.0	61.4						
114"	60.0	70.0	59.9	59.9						
120"	60.0	70.0								
MAXIMUM SHORT DIMENSION	36"	42"	48"	50"	60"					

NOTES:

1. WINDOW SIZE DIMENSIONS SHOWN ARE MAXIMUM SIZES. SMALLER SIZES SHALL APPLY TO LOADS EQUAL TO THE NEAREST LARGER SIZE SHOWN IN TABLE.
2. IF NO LOAD IS SHOWN FOR A SPECIFIED WINDOW SIZE, THAT SIZE MAY NOT BE USED WITH THE RESPECTIVE GLASS OPTION.
3. ALL WINDOW DIMENSION VALUES SHOWN ARE +/-1/2" & ARE FRAME (F.H. & F.W.) DIMENSIONS

NOTE: HEIGHT & WIDTH
CAN BE INTERCHANGED

NOTE: PRESSURES IN THE TABLE MAY BE INCREASED TO +60/-70 PSF IF HEAT STRENGTHENED PANES OF GLASS ARE USED IN LIEU OF ANNEALED (PROVIDING THICKNESS IS THE SAME) AND THE SHORT SIDE FRAME DIMENSION OF THE WINDOW DOES NOT EXCEED 50". WHEN SHORT SIDE DIMENSION EXCEEDS 50", THE PRESSURE IS LIMITED TO +50.0/-58.3 PSF REGARDLESS OF GLASS ALLOY.

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. DB-1202.10
Expiration Date DEC. 1, 2009
By Warren M. Schaefer
Miami Dade Product Control
Division

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=1		DATE: 05/15/00	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: KDI SERIES 2000 FIXED IMPACT RESISTANT WINDOW (DADE)			
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 K.D. WINDOWS, INC. 3705 SHARES PLACE RIVERIA BEACH, FLORIDA 33404 (561) 845-1401	
CERTIFICATION DEC 19 2008	WARREN M. SCHAEFER, P.E. P.E. NO. 44135		
DRAWING NO. 1011A	REV. B	SHEET NO. 4 OF 4	