



**BUILDING CODE COMPLIANCE OFFICE (BCCO)
PRODUCT CONTROL DIVISION
NOTICE OF ACCEPTANCE (NOA)**

**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
www.miamidade.gov/buildingcode**

**Kolbe & Kolbe Millwork Co., Inc.
1323 South 11th Ave.
Wausau, WI 54401**

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 "Heritage Manor" Transom Wood Fixed Window - N.I.

LIMITATION: These Fixed Windows Require Miami-Dade Approved Impact Resistant Shutters.

APPROVAL DOCUMENT: Drawing No. 1059, titled "Series Wood Manor Door Transom Non-Impact Window", sheets 1 through 4 of 4, dated 11/08/2001 with revision A1 dated 08/16/2007, 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: None

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 # 02-0614.06** and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



**NOA No. 07-0618.17
Expiration Date: October 24, 2012
Approval Date: November 08, 2007
Page 1**

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **1059**, titled "Series Wood Manor Door Transom Non-Impact Window", sheets 1 through 4 of 4, dated 11/08/2001 with revision A1 dated 08/16/2007, 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, PA 202-94
 - 2) Uniform Static Air Pressure Test, PA 202-94
 - 3) Water Resistance Test, PA 202-94
 - 4) Large Missile Impact Test, PA 201-94
 - 5) Cyclic Wind Pressure Loading, PA 203-94
 - 6) Forced Entry Test, PA 202-94

along with marked-up drawings and installation diagram of 19 specimens of aluminum clad and non-clad wood doors and fixed/transom, prepared by Architectural Testing, Inc., Test Report No. **ATI 06-30303.01**, dated 12/8/01, signed and sealed by Steven Ulrich, P.E.

"Submitted under NOA# 02-0614.06"

C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2004, prepared by W. W. Schaefer Engineering & Consulting, P.A., dated 08/18/2007, signed and sealed by Warren W. Schaefer, P.E.

Complies with ASTM E1300-98/ 02

D. QUALITY ASSURANCE

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

E. MATERIAL CERTIFICATIONS

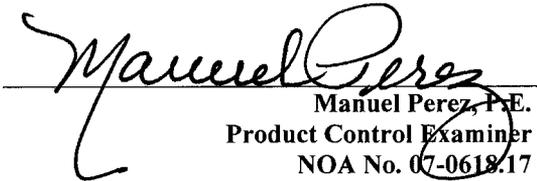
1. None

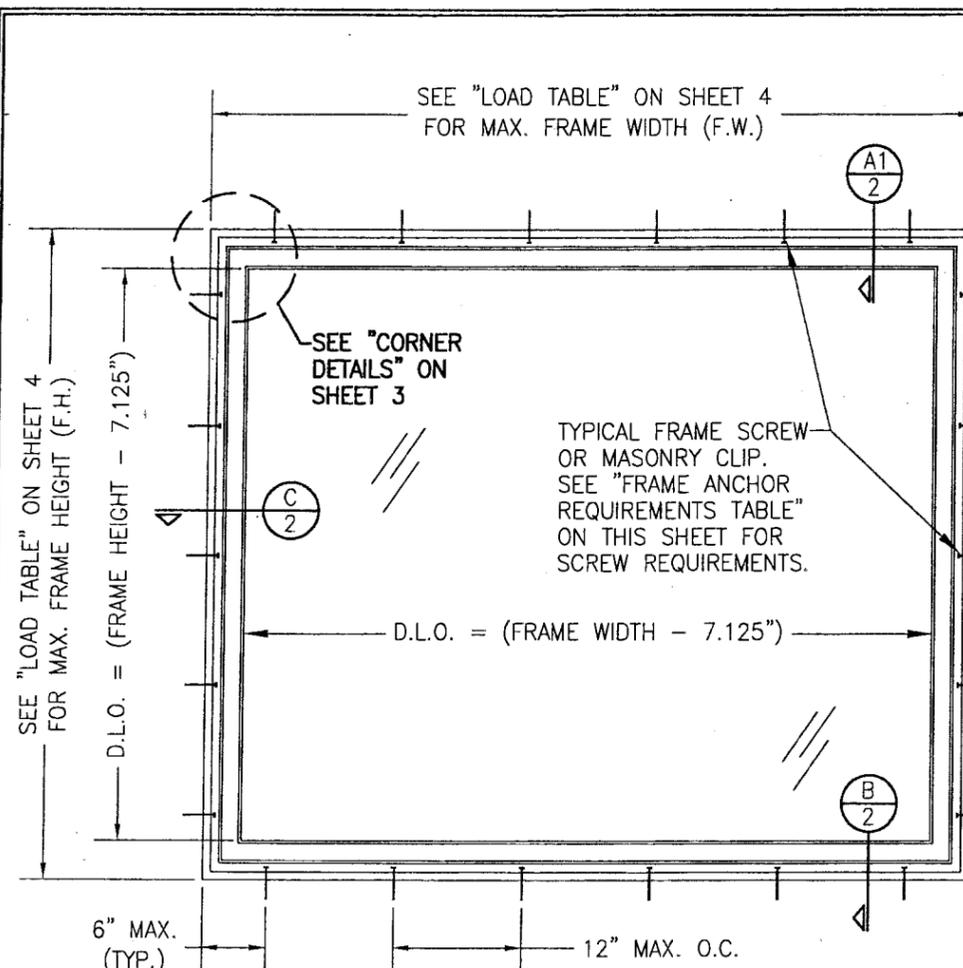
F. STATEMENTS

1. Statement letter of conformance, dated June 05, 2007, signed and sealed by Warren W. Schaefer, P.E.

G. OTHER

1. Notice of Acceptance No. 02-0614.06, issued to Kolbe & Kolbe Millwork Co., Inc. for their series "Wood Manor Door transom Non-Impact Window", approved on 08/24/2002 and expiring on 08/24/2007.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 07-0618.17
Expiration Date: October 24, 2012
Approval Date: November 08, 2007



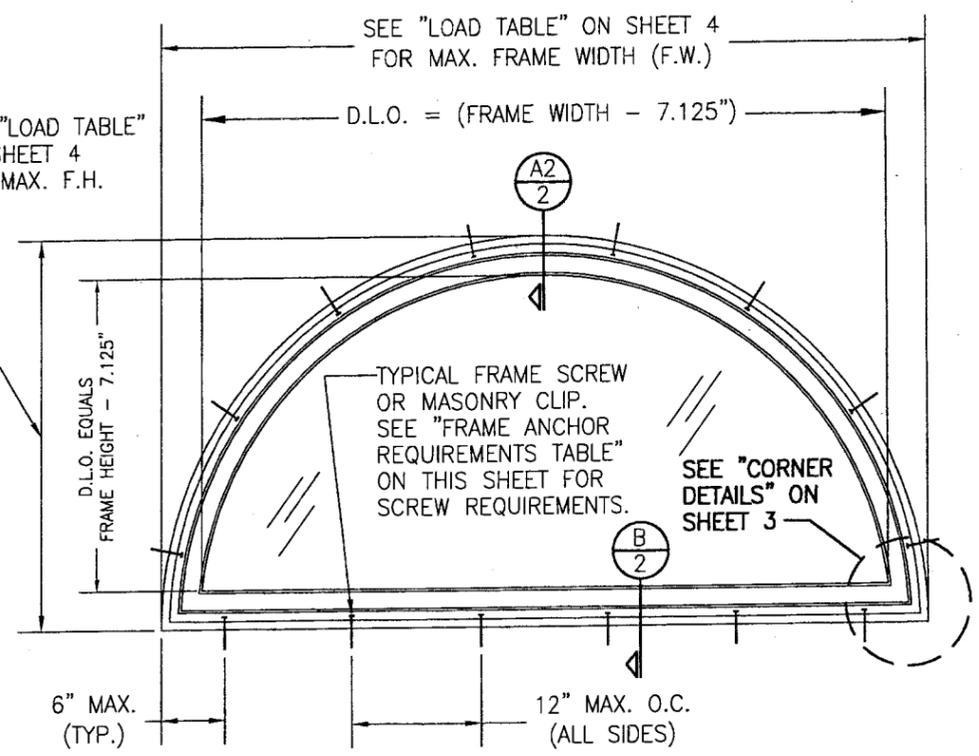
**EXTERIOR ELEVATION
RECTANGULAR WINDOW**
SCALE: 3/4"=1'-0"

ALLOWABLE DESIGN LOADS
SEE LOAD TABLE ON SHEET 4

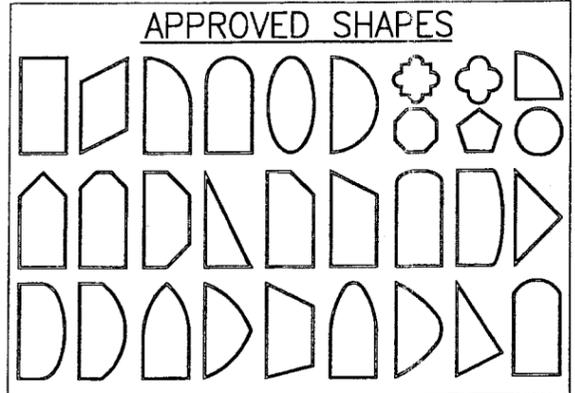
NOTE: BRICK MOLDS MAY BE PLACED AT EXTERIOR & ARE OPTIONAL (NOT SHOWN)

SEE "LOAD TABLE" ON SHEET 4 FOR MAX. F.H.

FASTENER SPACING NOTE:
WHEN SMALLER FRAME DIMENSION OF WINDOW IS 54" OR LESS, FASTENER SPACING MAY BE INCREASED TO 12" O.C. MAX.



**EXTERIOR ELEVATION
HALF ROUND WINDOW**
(OTHER RADIUS/CURVE SHAPES SIMILAR)
SCALE: 3/4"=1'-0"



NOTES:
1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION PER CORNER DETAILS.
2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.

GENERAL NOTES

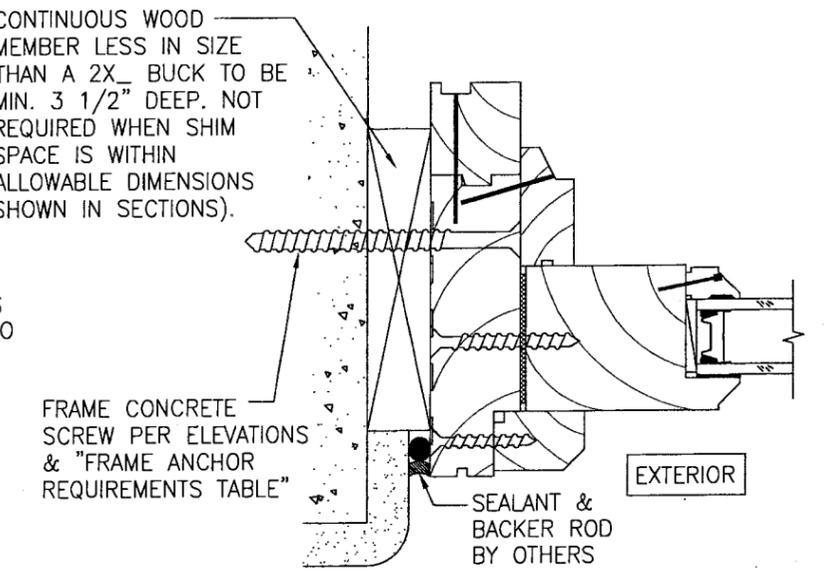
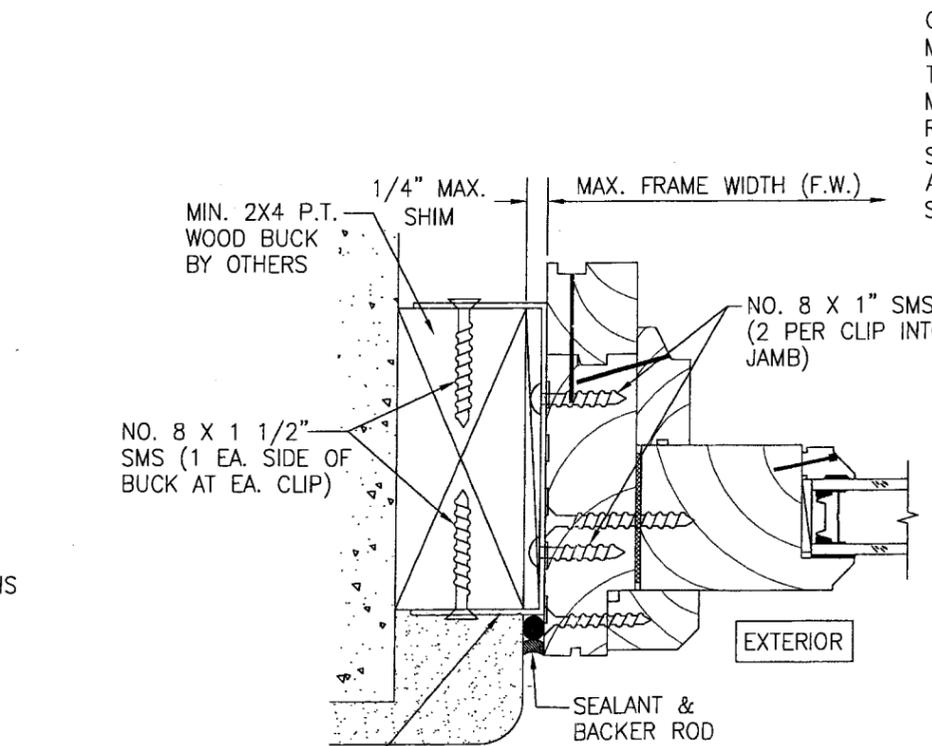
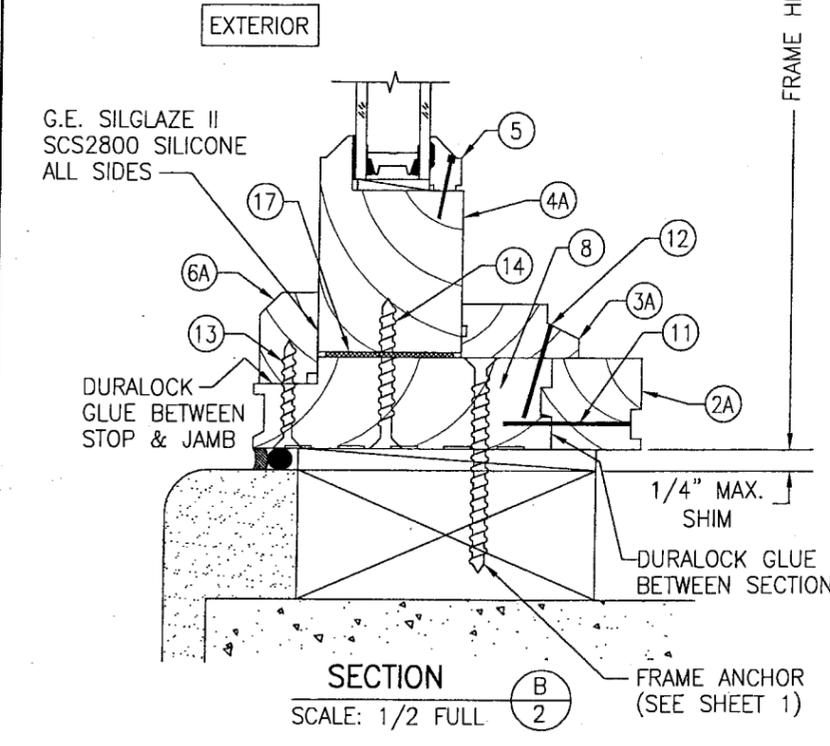
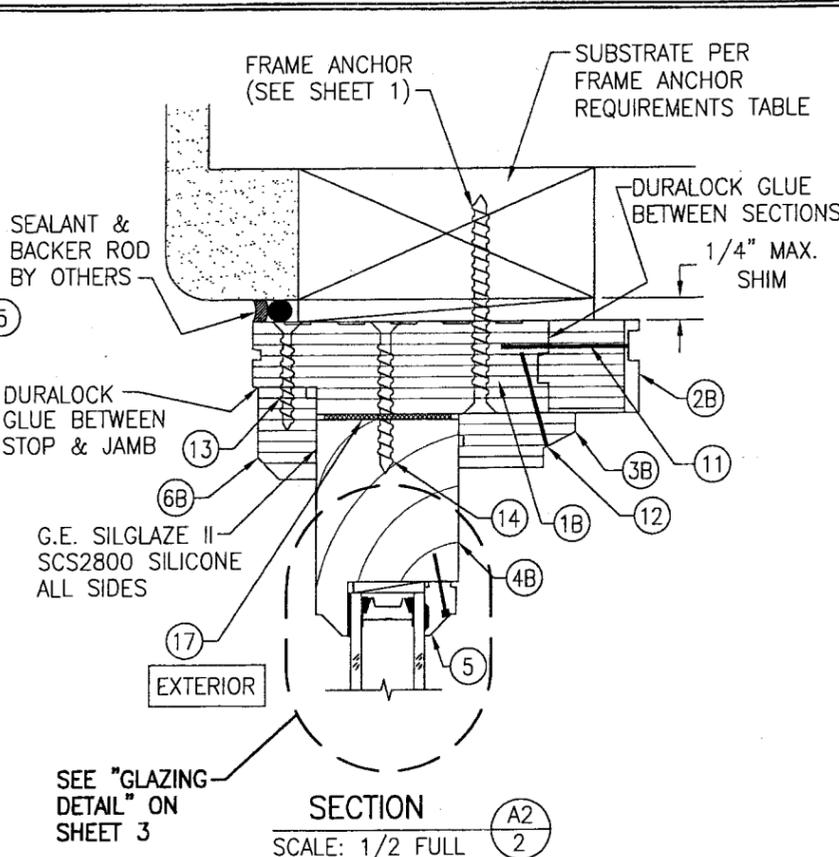
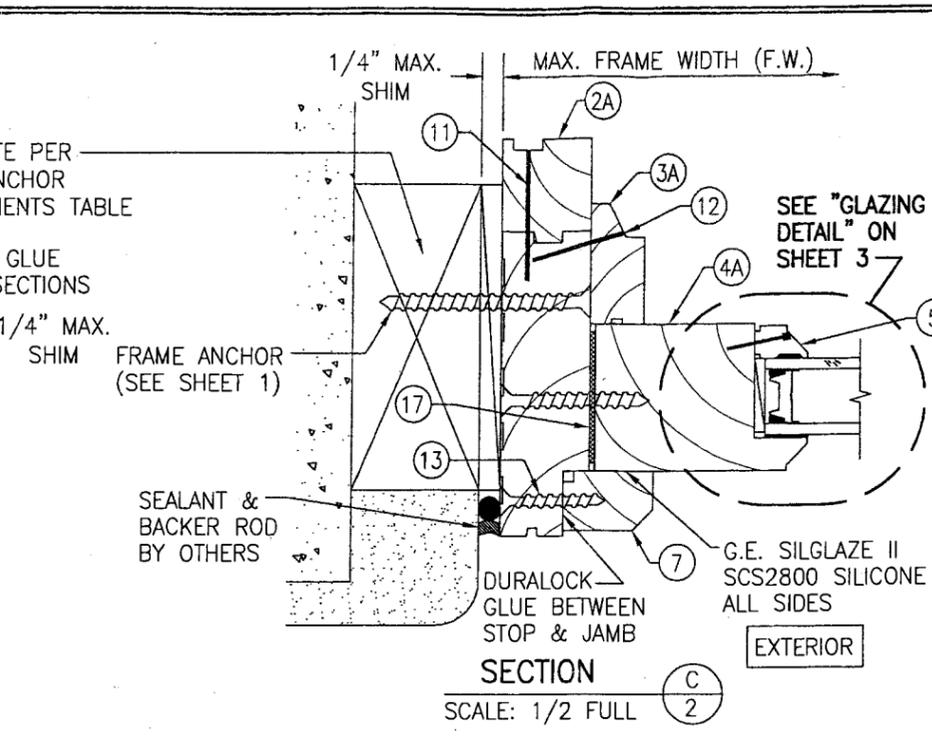
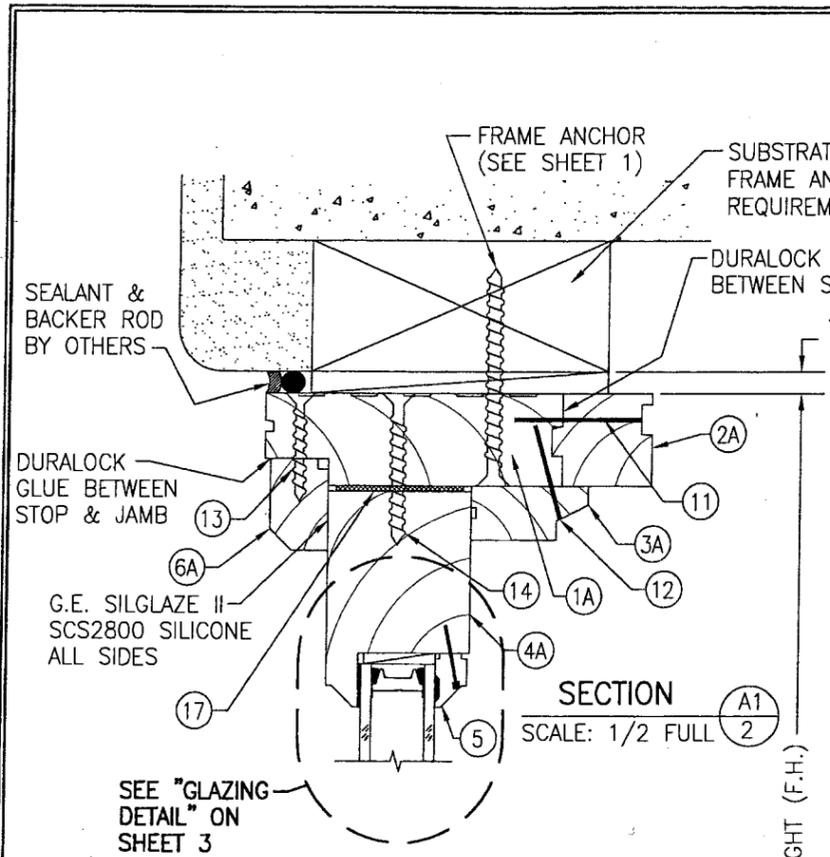
1. THESE WINDOW SYSTEMS HAVE BEEN TESTED, ANALYZED AND APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN LOADS" TABLES.
2. BUCKING, OPENINGS & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, FORCED ENTRY & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE 2004 FLORIDA BUILDING CODE PROTOCOLS TAS-202 FOR NON-IMPACT WINDOWS.
5. THESE WINDOW SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. THESE WINDOW SYSTEMS ARE NON-IMPACT RATED AND MUST BE SHUTTERED WITH A FLORIDA CODE APPROVED SHUTTER WHERE REQUIRED BY CODE.
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. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE & GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE 2004 FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF $K_d = 0.85$ SHALL BE USED.
10. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE DESIGN OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_d = 1.6$ WAS USED FOR WOOD SCREW DESIGN.

FRAME ANCHOR REQUIREMENTS TABLE			
FRAME SHEAR SCREWS			
OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
2X_ WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
C-90 CMU/2500 PSI CONCRETE	(1) 3/16" 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.).

PRODUCT RENEWED as complying with the Florida Building Code
Acceptance No 07-0618-17
Expiration Date 10/24/2012
By *Warren Sera*
Miami Dade Product Control Division

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
DATE: 08/16/07	DATE: 11/08/01
NO.:	REVISION DESCRIPTION:
AI	UPDATED TO 2004 FBC
DRAWING TITLE WOOD MANOR DOOR TRANSOM NON-IMPACT WINDOW	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	MANUFACTURER KOLBE & KOLBE MILLWORK CO., INC.
1323 SOUTH 11TH AVE. WAUSAU, WI 54401 715-842-5666	
CERTIFICATION AUG 17 2007	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
DRAWING NO. 1059	REV. A
SHEET NO. 1 OF 4	



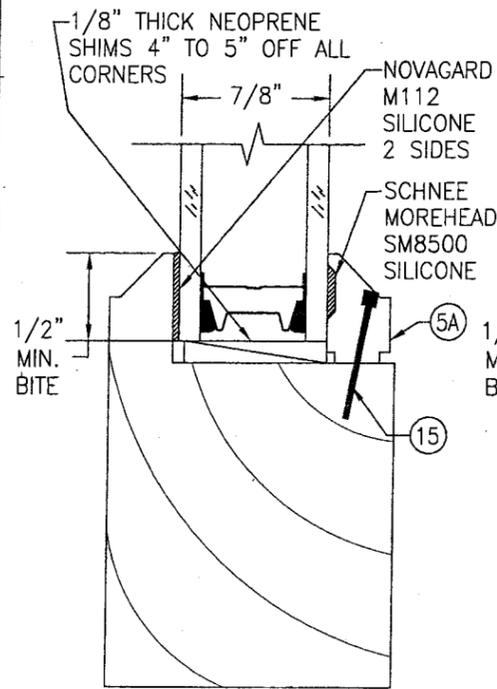
NOTE: BRICK MOLDS MAY BE PLACED AT EXTERIOR & ARE OPTIONAL (NOT SHOWN)

18 GA. STEEL MASONRY CLIP TO REPLACE JAMB ANCHOR SCREWS PER ELEVATIONS
OPTIONAL MASONRY CLIP MOUNT DETAIL
 FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS.

OPTIONAL DIRECT MOUNT DETAIL TO BLOCK OR CONCRETE WITH SPACER OR SHIM
 (HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
 (FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)

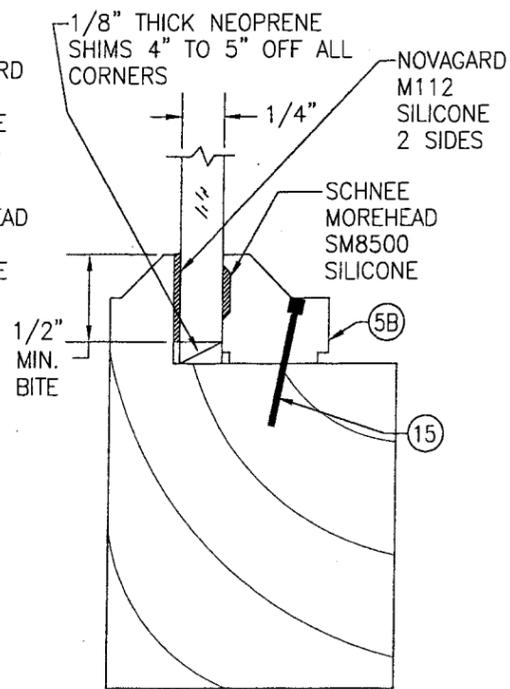
PRODUCT RENEWED as complying with the Florida Building Code
 Acceptance No. 07-0618.17
 Expiration Date 10/24/2012
 By *Warren W. Schaeffer*
 Miami Dade Product Control Division

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1-2	DATE: 11/08/01
DATE	BY
REVISION DESCRIPTION	NO.
DRAWING TITLE: WOOD MANOR DOOR TRANSOM NON-IMPACT WINDOW	
MANUFACTURER: KOLBE & KOLBE MILLWORK CO., INC. 1323 SOUTH 11TH AVE. WAUSAU, WI 54401 715-842-5666	
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: AUG 17 2007	WARREN W. SCHAEFER, P.E. P.E. NO. 44135
SHEET NO. 1059	REV. A
2	OF 4



GLAZING DETAIL

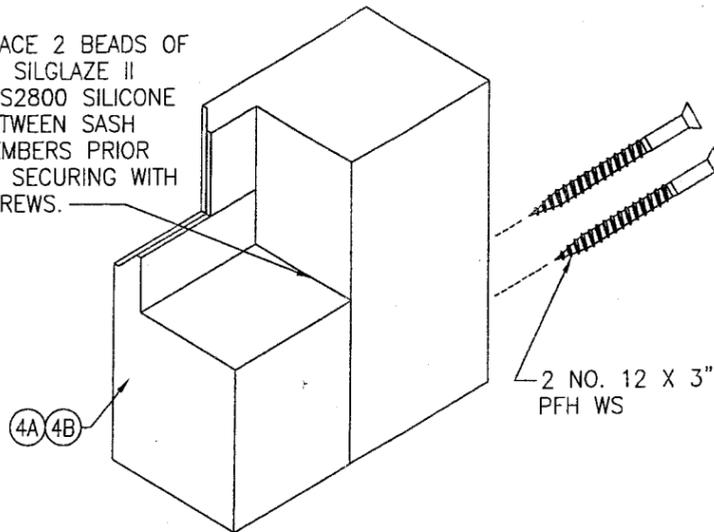
7/8" I.G. GLASS WITH 5/32" TEMPERED GLASS PANES AND 9/16" SPACER



GLAZING DETAIL

1/4" SINGLE PANE TEMPERED GLASS

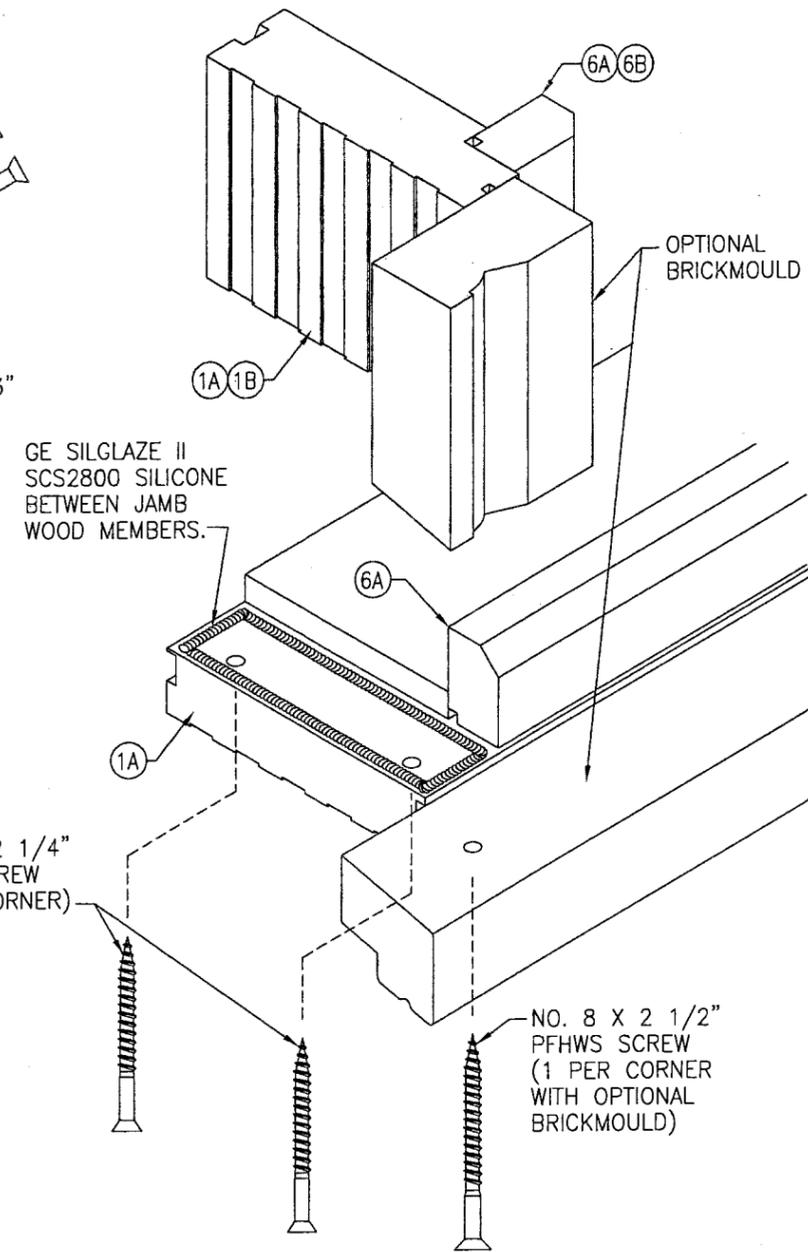
PLACE 2 BEADS OF GE SILGLAZE II SCS2800 SILICONE BETWEEN SASH MEMBERS PRIOR TO SECURING WITH SCREWS.



TYP. SASH CORNER DETAIL

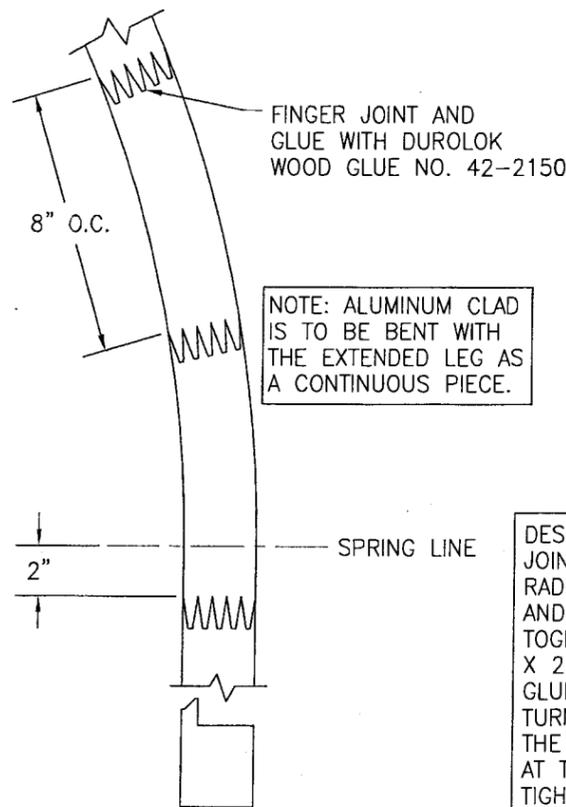
(TYP. AT ALL CORNERS 90 DEGREES & LESS)

NOTE: AT CORNERS LESS THAN 90 DEGREES, THE CORNER JOINT IS PARALLEL TO THE STRAIGHT MEMBER AND THE SCREWS RUN THROUGH THE STRAIGHT SASH INTO THE BENT/RADIUS SASH.



TYP. JAMB CORNER DETAIL

(TYP. AT ALL CORNERS 90 DEGREES & LESS)



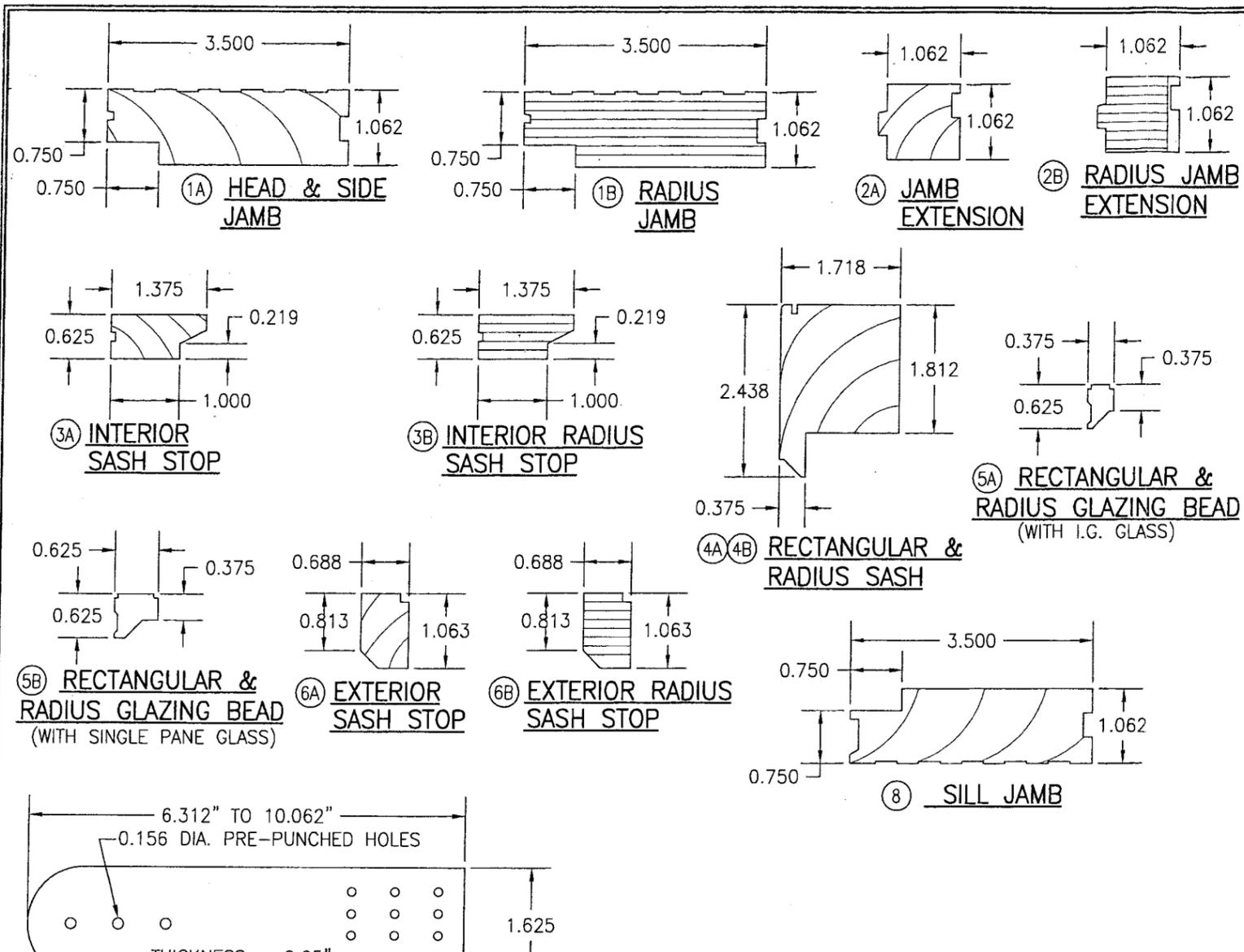
TYP. EXTENDED LEG DETAIL AT SASH

NOTE: ALUMINUM CLAD IS TO BE BENT WITH THE EXTENDED LEG AS A CONTINUOUS PIECE.

DESCRIPTION: EXTENDED LEG IS FINGER JOINTED SIMILAR TO SASH AROUND RADIUS. AT SPRING LINE, THE RADIUS AND STRAIGHT MEMBERS ARE BUTTED TOGETHER, DOWELED WITH TWO 3/8" X 2" LONG WOOD DOWELS AND FULLY GLUED WITH PVA GLUE. A STEEL TURNBUCKLE IS ALSO ROUTED INTO THE OPENING SIDE OF THE JAMBS AT THE SPRINGLINE AND USED TO TIGHTEN DOWN THE JOINT.

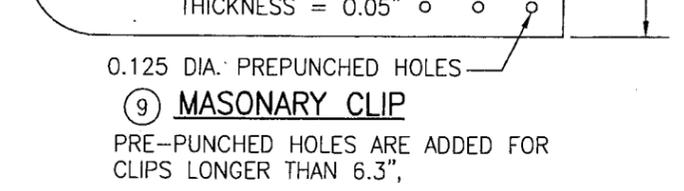
TYP. EXTENDED LEG AT JAMB

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 11/08/01	
NO.	REVISION DESCRIPTION	BY	DATE
DRAWING TITLE: WOOD MANOR DOOR TRANSOM NON-IMPACT WINDOW			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		MANUFACTURER: KOLBE & KOLBE MILLWORK CO., INC.	
8895 N. MILITARY TRAIL, SUITE C-204 PALM BEACH GARDENS, FL 33410 PHONE: 561-775-4902 FAX: 561-775-4903		1323 SOUTH 11TH AVE. WAUSAU, WI 54401 715-842-5666	
CERTIFICATION: AUG 17 2007		P.E. WARRICK W. SCHAEFER, P.E. NO. 44135	
PRODUCT RENEWED as complying with the Florida Building Code Acceptance No. 07-0618.17 Expiration Date 10/24/2012			
By: <i>Maurice Perry</i>		SHEET NO. 3 OF 4	
Miami Dade Product Control Division			



ITEM #	PART	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS			
1A	2902	FRAME HEAD & SIDE JAMB	* WOOD
1B	2902	FRAME RADIUS JAMB	LVL
2A	4824	JAMB EXTENSION	* WOOD
2B	4824	RADIUS JAMB EXTENSION	LVL
3A	4808	INTERIOR SASH STOP	* WOOD
3B	4808	INTERIOR RADIUS SASH STOP	LVL
4A	1358	SASH	* WOOD
4B	1358	RADIUS SASH	* FINGER JOINTED WOOD
5A	1006	GLAZING BEAD	* WOOD
5B	1008	GLAZING BEAD	* WOOD
6A	2900	EXTERIOR SASH STOP	* WOOD
6B	2900	EXTERIOR RADIUS SASH STOP	* WOOD
8	2909	SILL JAMB	* WOOD
9	BHDMS	1 5/8" WIDE X 0.05" THK. X MIN. 6 5/16" LONG MASONRY CLIP	ASTM A653 MIN. 33 KSI GALV. STEEL
MISCELLANEOUS FASTENERS			
11	-	16 GA. 1/2" X 1.5" LG. CROWN STAPLE	2" FROM ENDS & 8" O.C.
12	-	18 GA. X 3/16" X 1 1/8" CROWN STAPLE	2" FROM ENDS & 8" O.C.
13	-	#7 X 1 1/4" PFH SMS SCREW	2" FROM ENDS & 8" O.C.
14	-	#8 X 2 1/4" POH SCREW	2" FROM ENDS & 8" O.C.
15	-	3/4" BRAD NAIL	2" FROM ENDS & 8" O.C.
MISCELLANEOUS			
17	BFMDR	5/8" X 1.5" X 1/16" RUBBER SHIMS	2" FROM ENDS & 8" O.C.

* WOOD USED WITH TEST UNITS WAS GRADE 2 PONDEROSA PINE. ALTERNATE WOOD SPECIES TO BE APPLICABLE WITH THESE WINDOWS IS MIN. GRADE 2 MAHOGANY, SOUTHERN PINE, OAK, CHERRY, MAPLE, DOUGLAS FIR & CYPRUS.



9 MASONRY CLIP
PRE-PUNCHED HOLES ARE ADDED FOR CLIPS LONGER THAN 6.3"

ALLOWABLE DESIGN PRESSURE															
(1) SHORT DIMENSION	DESIGN LOAD CAPACITY (POSITIVE & NEGATIVE PSF)														
	30"	156.0	133.7	121.3	113.5	108.0	104.0	100.9	98.5	97.5	95.0	92.4	90.6	87.5	79.5
36"		130	113.8	104.0	97.5	92.9	89.4	86.7	85.5	82.7	80.0	78.0	72.9		
42"			111.4	99.0	91.2	85.7	81.7	78.7	77.4	74.3	71.3				
48"				97.5	87.8	81.3	76.6	73.1	71.7	68.3					
54"					86.7	78.8	73.3	69.3	67.7						
60"						78.0	71.5	66.9	65.0						
66"							70.9								
(1) LONG DIMENSION	30"	36"	42"	48"	54"	60"	66"	72"	75"	84"	96"	108"	120"	132"	144"

TABLE NOTES:
 (1) ALL WINDOW DIMENSION VALUES SHOWN ARE +/- 1/2" & ARE FRAME (F.H. & F.W.) DIMENSIONS
 (2) THOSE SIZES WITH LOADS LISTED ARE MAXIMUM ALLOWABLE SIZES AT THAT LOAD. IF NO LOAD IS LISTED FOR A GIVEN SIZE, THAT SIZE EXCEEDS ALLOWABLE AND IS NOT ACCEPTABLE.

DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
PLOT: 1=2	DATE: 11/08/01
DATE	BY
REVISION DESCRIPTION	NO.
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CERTIFICATION AUG 17 2007	WARREN W. SCHAEFER, P.E. P.E. NO. 44133
DRAWING NO. 1059	REV. A
SHEET NO. 4 OF 4	

PRODUCT RENEWED as complying with the Florida Building Code
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 Expiration Date 10/24/2012
 By *Warren W. Schaefer*
 Miami Dade Product Control Division