



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/pera/

M.Q. Windows, Inc.
1855 Griffin Rd. Suite A-271
Dania, FL 33004

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section 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 Section (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. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section 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 "S200" Wood Single Hung Window – L.M.I.

APPROVAL DOCUMENT: Drawing No. **W06-11**, titled "Series S200 Single Hung Wood Wdw.(LMI)", sheets 1 and 9 of 9, dated 02/14/06 with revision #1 dated 03/02/09, prepared by manufacturer, signed and sealed by Scott Wolters, 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 Section.

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, model/series, 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 and renews NOA # **06-0505.09** 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. 11-1103.03
Expiration Date: August 03, 2016
Approval Date: March 08, 2012
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No. **W06-11**, titled "Series S200 Single Hung Wood Wdw. (L.M.I.), sheets 1 through 9 of 9, dated 02/14/06 with revision#1 dated 03/02/09, prepared by manufacturer, signed and sealed by Scott Wolters, 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 installation diagram of a S200 wood single hung wood, pulley and chain window, prepared by Hurricane Test Laboratory, LLC. Test Report No. **0118-0911-07** dated 12/19/08, and addendum letter dated 03/22/11, all 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 202-94.
along with installation diagram of a wood single hung window with rectangular transom, prepared by Hurricane Test Laboratory, LLC. Test Report No. **G118-0202-05** and **G118-0705-05**, dated 02/08-11/05, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 06-0505.09)
3. 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 installation diagram of single hung window with radius transom, prepared by Hurricane Test Laboratory, LLC., Test Report No. **0118-1215-03**, dated 12/17/03-01/15/04, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 06-0505.09)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 11-1103.03

Expiration Date: August 03, 2016
Approval Date: March 08, 2012

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS (CONTINUED)

4. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of single hung window with radius fixed transom,
prepared by Hurricane Test Laboratory, LLC., Test Report No. **G118-0816-04**, dated
12/17/03-01/15/04, signed and sealed by Vinu J. Abraham, P.E.
(Submitted under previous NOA# 06-0505.09)

C. CALCULATIONS:

1. Anchor verification calculations and structural analysis, complying with FBC-2007 and 2010, dated 03/08/06, revised on 07/07/09 and updated on 11/01/11, prepared by Wolters Engineering, signed and sealed by Scott Wolters, P.E.
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA).

E. MATERIAL CERTIFICATIONS

1. Notice of Acceptance No. **11-0325.05** " issued to Solutia, Inc. for their "Saflex and Vanceva clear and color interlayers" dated 05/05/11, expiring on 05/21/16

F. STATEMENTS

1. Statement letter of conformance, complying with the FBC-2007 and FBC-2010, dated 07/07/09 and 11/01/11, signed and sealed by Scott Wolters, P.E.
2. Statement letter of no financial interest, dated 07/07/09, signed and sealed by Scott Wolters, P.E.

G. OTHERS

1. Notice of Acceptance No. **06-0505.09**, issued to M.Q. Windows, Inc. for their Series S200 Wood Single Hung Window – L.M.I., approved on 08/03/06 and expiring on 08/03/11.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 11-1103.03

Expiration Date: August 03, 2016
Approval Date: March 08, 2012

SERIES S200 SINGLE HUNG WOOD WINDOW

DESIGN LOAD RATING FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE 2010 EDITION INCLUDING HIGH VELOCITY HURRICANE ZONE.

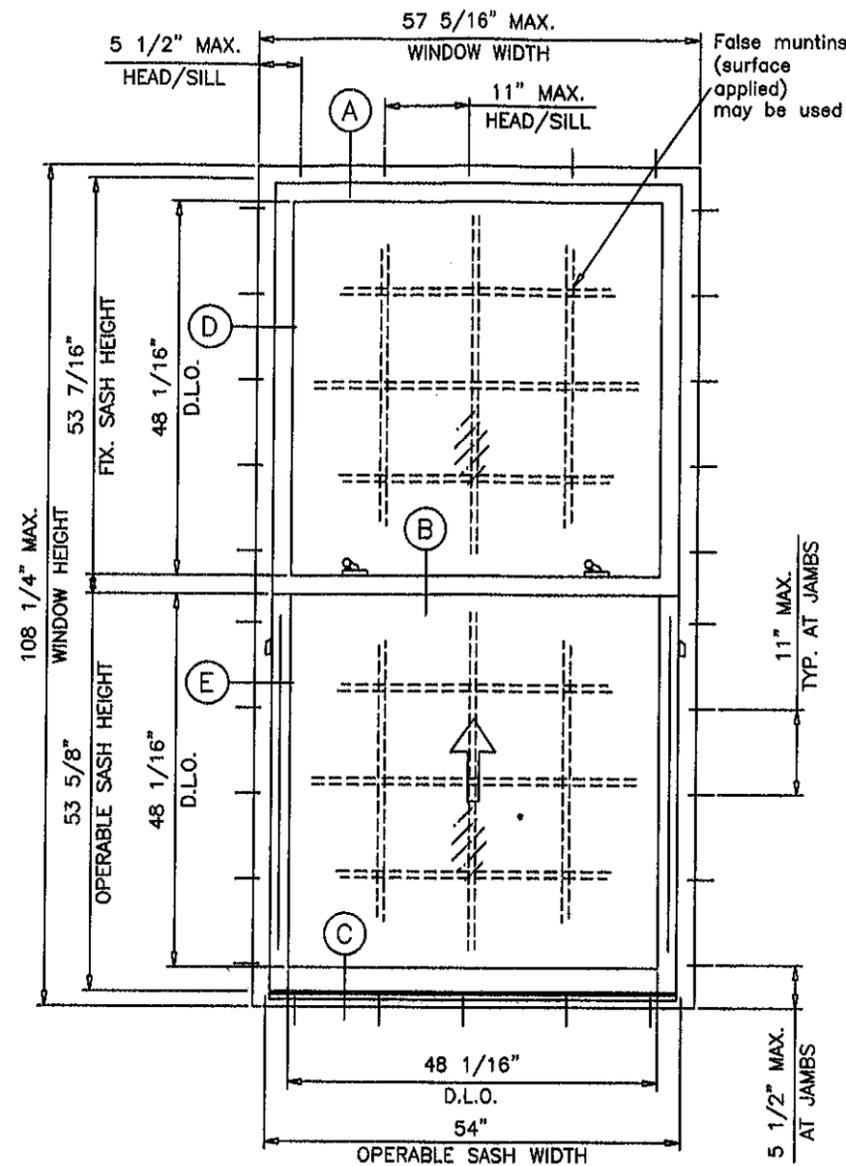
WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

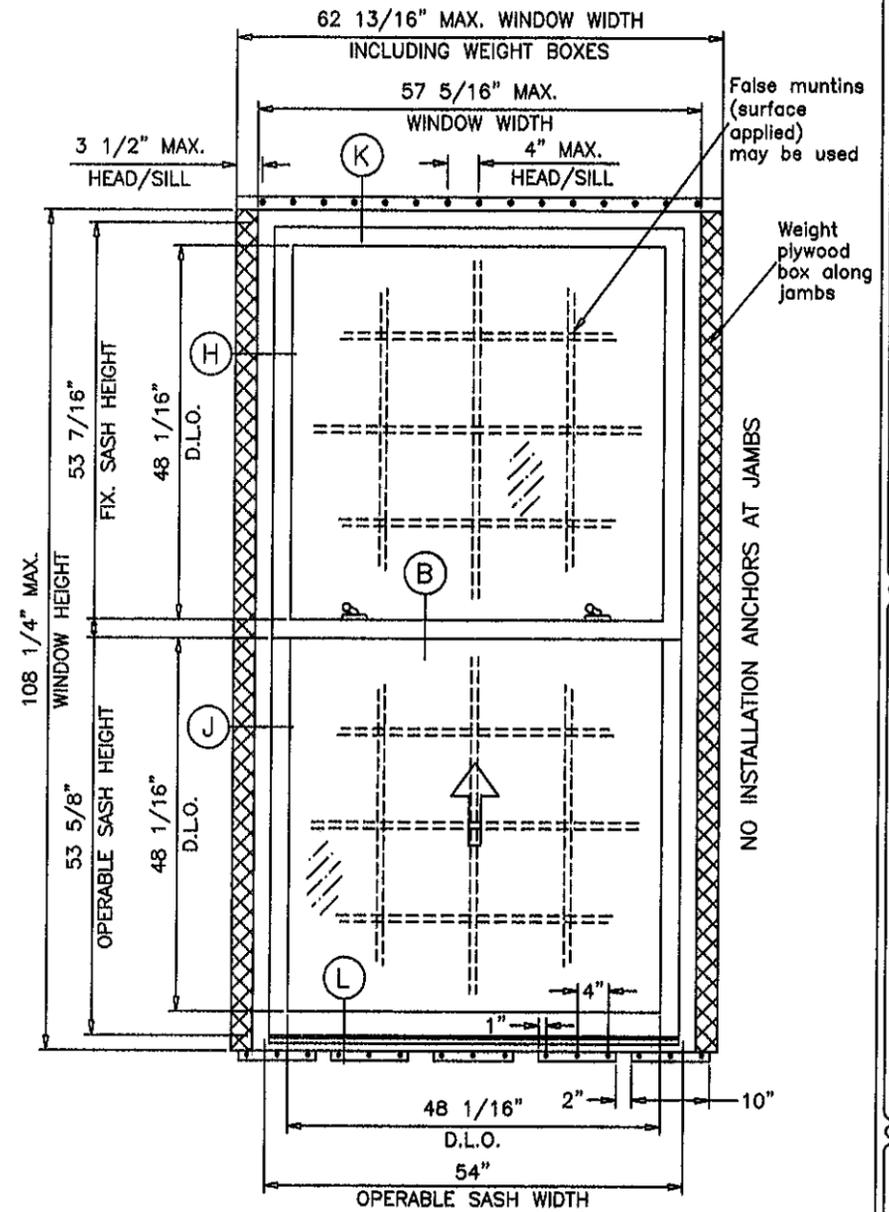
ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IN ALLOWABLE STRESS IS USED IN DESIGN OF WOOD ANCHORS ONLY.

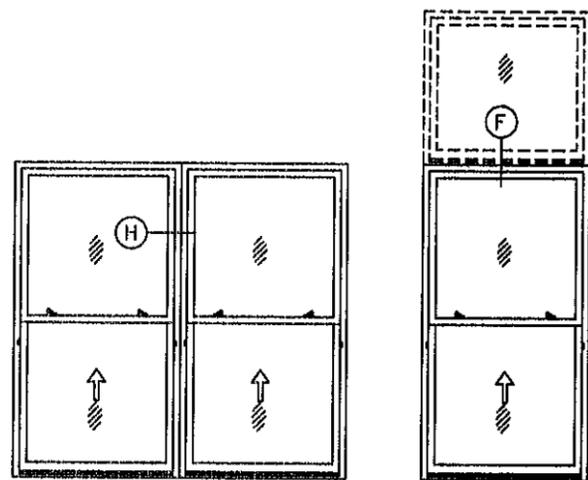
ALL WOOD NOT SEPARATED FROM AND/OR IN DIRECT CONTACT WITH CONCRETE AND MASONRY SHALL BE TREATED IN AN APPROVED PRESERVATIVE OR SHALL BE AN APPROVED DURABLE SPECIES PER FBC 004 ch. 2326.2.4.



TYPICAL ELEVATION USING BLOCK & TACKLE BALANCES



TYPICAL ELEVATION USING PULLEY, CHAIN & COUNTER WEIGHT SYSTEM (SINGLE WINDOWS ONLY)



APPROVED CONFIGURATIONS

APPROVAL APPLIES TO INDIVIDUAL UNITS OF SINGLE HUNG WINDOWS OR FIXED OVER SINGLE HUNG WINDOWS.
 ALSO SIDE BY SIDE COMBINATIONS OF S.H. TO S.H. IN MODULES OF TWO OR MORE UNITS.
 ALSO SIDE BY SIDE COMBINATIONS OF FIX/S.H. TO FIX/S.H. IN MODULES OF TWO OR MORE UNITS USING MIAMI-DADE COUNTY APPROVED MULLION IN BETWEEN.
 LOWER DESIGN PRESSURES FROM WINDOW OR MULLION APPROVALS WILL APPLY TO ENTIRE SYSTEM.

THESE WINDOWS ARE RATED FOR LARGE MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.


 SCOTT WOLTERS
 FL PE# 62354
 WOLTERS ENGINEERING
 (COA# 27194)
 1271 GRANT STREET
 HOLLYWOOD, FL 33019
 PH/FAX: (954) 921-5828
 JAN 27 2012

PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No. **11-1103.03**
 Expiration Date **Aug. 3, 2016**
 By 
 Miami Dade Product Control

SERIES S200 SINGLE HUNG WOOD WDW. (L.M.I.)
 MQ windows and doors
 4508 rte 117
 Ste-Agathe-des-Monts
 QC, Canada
 TEL (819) 326-0321 FAX (819) 321-1791

no	date	by	description
1	03/02/09	SM	Counter weight option added

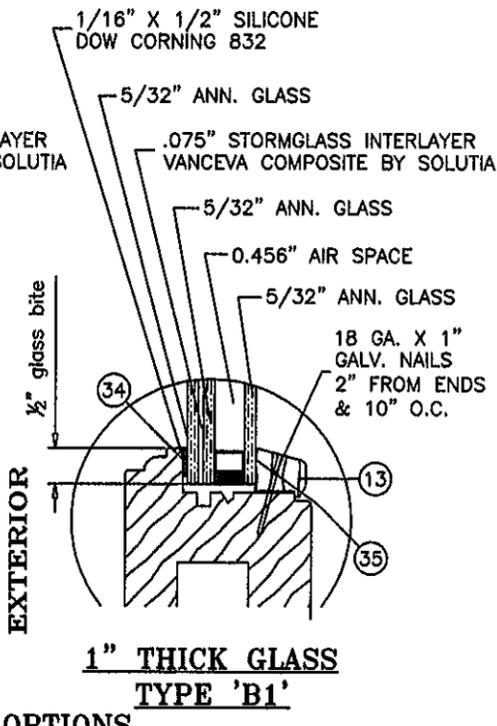
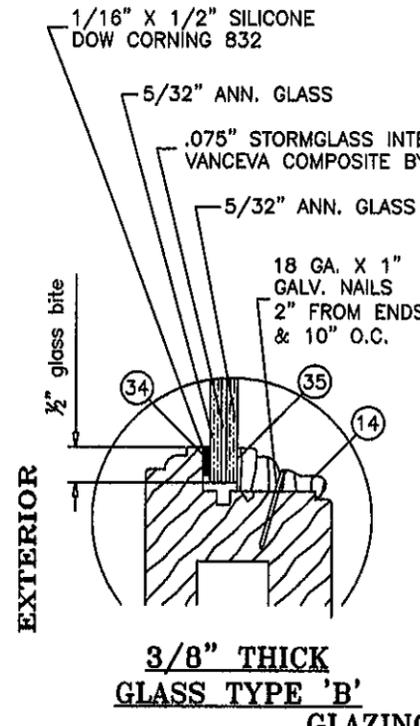
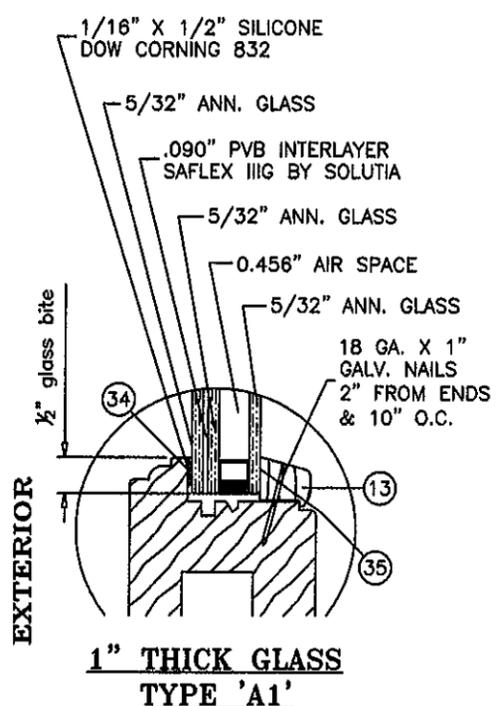
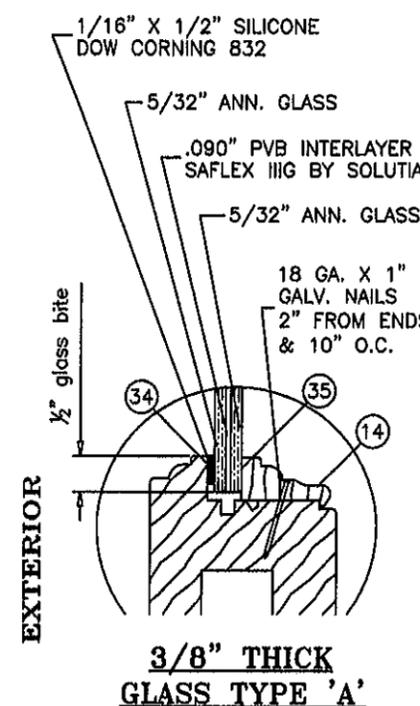
date:	02-14-06
scale:	1/2"=1'-0"
dr. by:	S.M.
chk. by:	
drawing no.	W06-11
sheet	1 of 9

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPES 'A' & 'B'		GLASS TYPES 'A1' & 'B1'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
26-1/2"	34-1/4"	60.0	70.0	60.0	70.0
32"		60.0	70.0	60.0	70.0
37"		60.0	70.0	60.0	70.0
42"		60.0	70.0	60.0	70.0
48"		60.0	70.0	60.0	70.0
53-1/8"		60.0	70.0	60.0	70.0
57-5/16"	60.0	70.0	60.0	70.0	
26-1/2"	46-1/4"	60.0	70.0	60.0	70.0
32"		60.0	70.0	60.0	70.0
37"		60.0	70.0	60.0	70.0
42"		60.0	70.0	60.0	70.0
48"		60.0	70.0	60.0	70.0
53-1/8"		60.0	70.0	60.0	70.0
57-5/16"	60.0	70.0	60.0	70.0	
26-1/2"	58-1/4"	60.0	70.0	60.0	70.0
32"		60.0	70.0	60.0	70.0
37"		60.0	70.0	60.0	70.0
42"		60.0	70.0	60.0	70.0
48"		60.0	70.0	60.0	70.0
53-1/8"		60.0	70.0	60.0	70.0
57-5/16"	60.0	70.0	60.0	70.0	
26-1/2"	70-1/4"	60.0	70.0	60.0	70.0
32"		60.0	70.0	60.0	70.0
37"		60.0	70.0	60.0	70.0
42"		60.0	70.0	60.0	70.0
48"		60.0	70.0	60.0	70.0
53-1/8"		60.0	70.0	60.0	70.0
57-5/16"	60.0	70.0	60.0	70.0	
26-1/2"	82-1/4"	60.0	70.0	60.0	70.0
32"		60.0	70.0	60.0	70.0
37"		60.0	70.0	60.0	70.0
42"		60.0	70.0	60.0	70.0
48"		60.0	70.0	60.0	70.0
53-1/8"		60.0	70.0	60.0	70.0
57-5/16"	60.0	69.4	60.0	69.1	
26-1/2"	94-1/4"	60.0	70.0	60.0	70.0
32"		60.0	70.0	60.0	70.0
37"		60.0	70.0	60.0	70.0
42"		60.0	70.0	60.0	70.0
48"		60.0	70.0	60.0	70.0
53-1/8"		60.0	64.5	60.0	66.0
57-5/16"	59.8	59.8	60.0	61.0	
26-1/2"	108-1/4"	60.0	70.0	60.0	70.0
32"		60.0	70.0	60.0	70.0
37"		60.0	70.0	60.0	70.0
42"		60.0	70.0	60.0	70.0
48"		60.0	63.1	60.0	64.0
53-1/8"		55.9	55.9	57.6	57.6
57-5/16"	55.9	55.9	57.6	57.6	

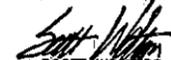
GLASS CAPACITIES ON THIS CHART ARE BASED ON ASTM E1300-98 (60 SEC. WIND)

DESIGN LOAD CAPACITY - PSF					
WINDOW DIMS.		GLASS TYPES 'A' & 'B'		GLASS TYPES 'A1' & 'B1'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
26-1/2"	34-1/4"	60.0	70.0	60.0	70.0
32"		60.0	70.0	60.0	70.0
37"		60.0	70.0	60.0	70.0
42"		60.0	70.0	60.0	70.0
48"		60.0	70.0	60.0	70.0
53-1/8"		60.0	70.0	60.0	70.0
57-5/16"	60.0	70.0	60.0	70.0	
26-1/2"	46-1/4"	60.0	70.0	60.0	70.0
32"		60.0	70.0	60.0	70.0
37"		60.0	70.0	60.0	70.0
42"		60.0	70.0	60.0	70.0
48"		60.0	70.0	60.0	70.0
53-1/8"		60.0	70.0	60.0	70.0
57-5/16"	60.0	70.0	60.0	70.0	
26-1/2"	58-1/4"	60.0	70.0	60.0	70.0
32"		60.0	70.0	60.0	70.0
37"		60.0	70.0	60.0	70.0
42"		60.0	70.0	60.0	70.0
48"		60.0	70.0	60.0	70.0
53-1/8"		60.0	70.0	60.0	70.0
57-5/16"	60.0	70.0	60.0	70.0	
26-1/2"	70-1/4"	60.0	70.0	60.0	70.0
32"		60.0	70.0	60.0	70.0
37"		60.0	70.0	60.0	70.0
42"		60.0	70.0	60.0	70.0
48"		60.0	70.0	60.0	70.0
53-1/8"		60.0	70.0	60.0	70.0
57-5/16"	60.0	70.0	60.0	70.0	
26-1/2"	82-1/4"	60.0	70.0	60.0	70.0
32"		60.0	70.0	60.0	70.0
37"		60.0	70.0	60.0	70.0
42"		60.0	70.0	60.0	70.0
48"		60.0	70.0	60.0	70.0
53-1/8"		60.0	70.0	60.0	70.0
57-5/16"	60.0	70.0	60.0	70.0	
26-1/2"	94-1/4"	60.0	70.0	60.0	70.0
32"		60.0	70.0	60.0	70.0
37"		60.0	70.0	60.0	70.0
42"		60.0	70.0	60.0	70.0
48"		60.0	70.0	60.0	70.0
53-1/8"		60.0	70.0	60.0	70.0
57-5/16"	60.0	70.0	60.0	70.0	
26-1/2"	108-1/4"	60.0	70.0	60.0	70.0
32"		60.0	70.0	60.0	70.0
37"		60.0	70.0	60.0	70.0
42"		60.0	70.0	60.0	70.0
48"		60.0	70.0	60.0	70.0
53-1/8"		60.0	70.0	60.0	70.0
57-5/16"	60.0	70.0	60.0	70.0	

GLASS CAPACITIES ON THIS CHART ARE BASED ON ASTM E1300-04 (3 SEC. GUSTS).



GLAZING OPTIONS


 SCOTT WALTERS
 FL PE# 62354
 WALTERS ENGINEERING
 (COA# 27194)
 1271 GRANT STREET
 HOLLYWOOD, FL 33019
 PH/FAX: (954) 921-5828
 JAN 27 2012

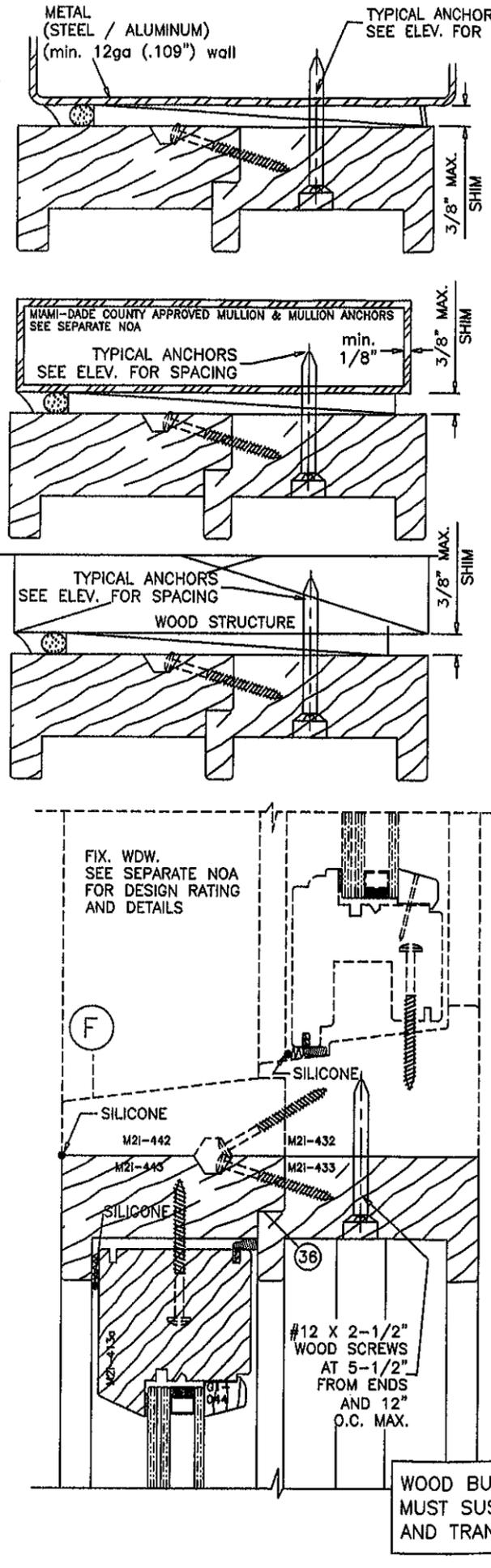
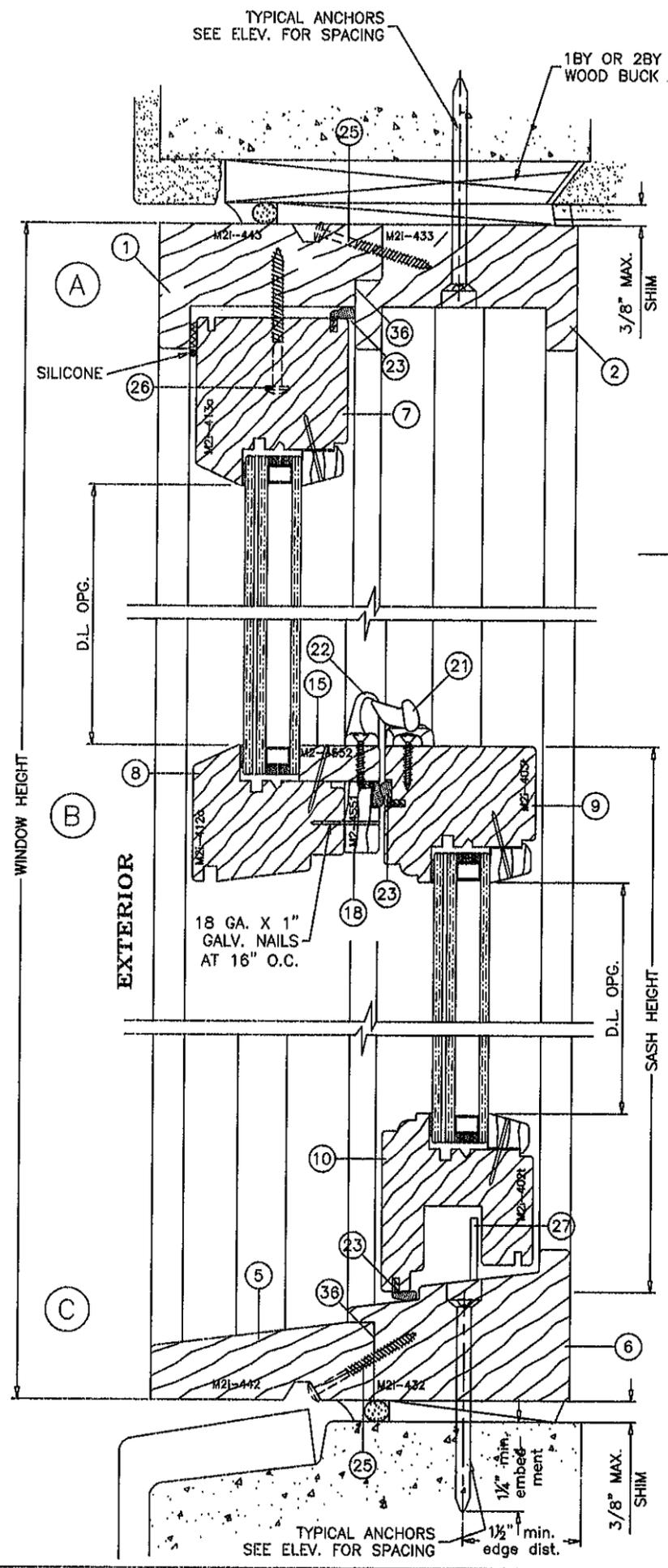
PRODUCT REVISED
 as complying with the Florida
 Building Code
 Acceptance No 11-1103.03
 Expiration Date Aug. 3, 2016
 By 
 Miami Dade Product Control

SERIES S200 SINGLE HUNG WOOD WDW (L.M.I.)
 MQ windows and doors
 4508 rte 117
 Ste-Agathe-des-Monts
 QC, Canada
 TEL: (819) 326-0321 FAX: (819) 321-1791

revisions:
 no. date by description
 1 03/02/09 SM Counter weight option added

date: 02-14-06
 scale: 3/8" = 1"
 dr. by: S.M.
 chk. by:

drawing no.
 W06-11
 sheet 2 of 9



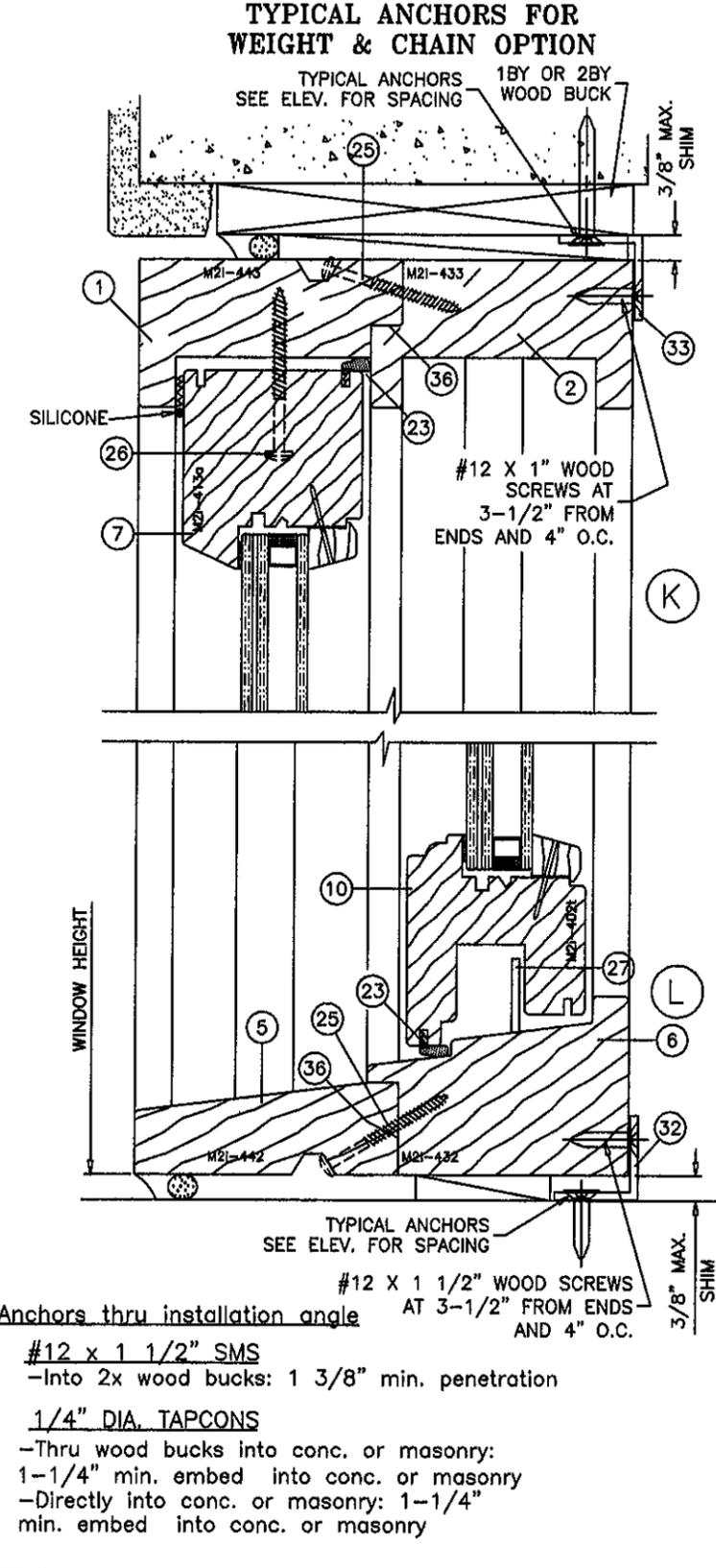
TYPICAL ANCHORS FOR BLOCK & TACKLE OPTION

anchors thru window frame
 1/4" DIA. TAPCONS
 -Into 2x wood bucks or wd structure: 1-1/2" min. penetration into wood
 -Thru wood bucks into conc. or masonry: 1-1/4" min. embed into conc. or masonry
 -Directly into conc. or masonry: 1-1/4" min. embed into conc. or masonry
#14 SMS or self drilling screws into metal
 -Steel: 12 ga. (.109") min. (Fy = 36 KSI min.)
 -Aluminum: 1/8" thk. min. (6063-T5 min.) (steel in contact with alu. must be plated or painted)

anchors thru installation angle
#12 SMS
 -Into 2x wood bucks or wd structure: 1-3/8" min. penetration into wood
 1/4" DIA. TAPCONS
 -Thru wood bucks into conc. or masonry: 1-1/4" min. embed into conc. or masonry
 -Directly into conc. or masonry: 1-1/4" min. embed into conc. or masonry

TYPICAL EDGE DISTANCES
 Into concrete & masonry: 1-1/2" min.
 Into metal struct.: 5/8" min.
 Into wood buck: 5/8" min.

WOOD BUCKS AND METAL STRUCTURE NOT BY MQ WDW. MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.



anchors thru installation angle
#12 x 1 1/2" SMS
 -Into 2x wood bucks: 1 3/8" min. penetration
 1/4" DIA. TAPCONS
 -Thru wood bucks into conc. or masonry: 1-1/4" min. embed into conc. or masonry
 -Directly into conc. or masonry: 1-1/4" min. embed into conc. or masonry

Scott Walters
 SCOTT WALTERS
 FL PE# 62354
 WALTERS ENGINEERING
 (COA# 27194)
 1271 GRANT STREET
 HOLLYWOOD, FL 33019
 PH/FAX: (954) 921-5828
 JAN 27 2012

PRODUCT REVISED as complying with the Florida Building Code
 Acceptance No. 11-1103.03
 Expiration Date ~~11/3/2016~~ **11/3/2016**
 By *Manuel Perez*
 Miami/Dade Product Control

revisions:

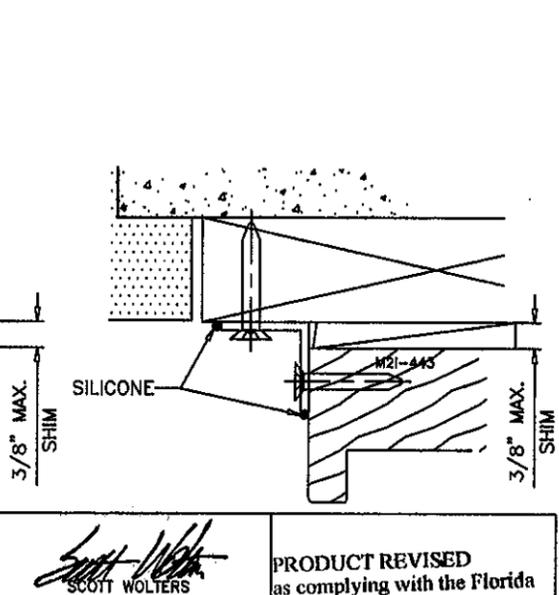
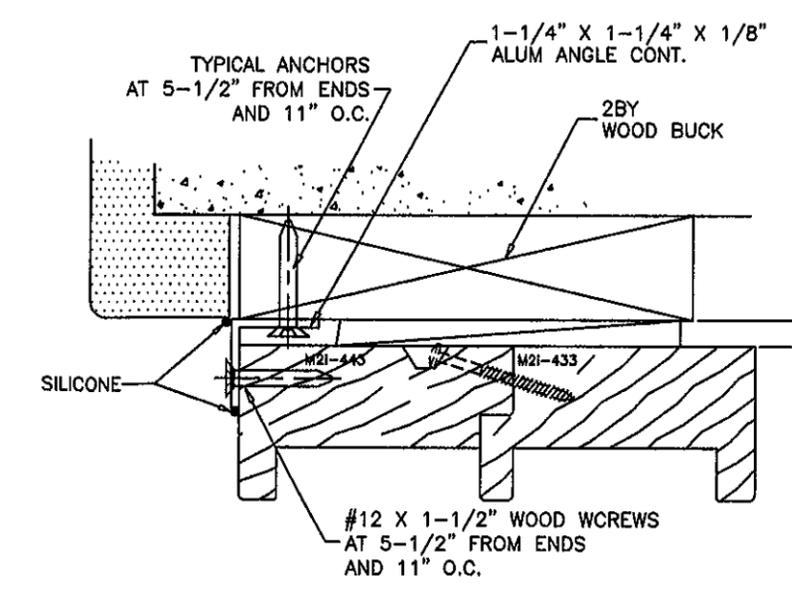
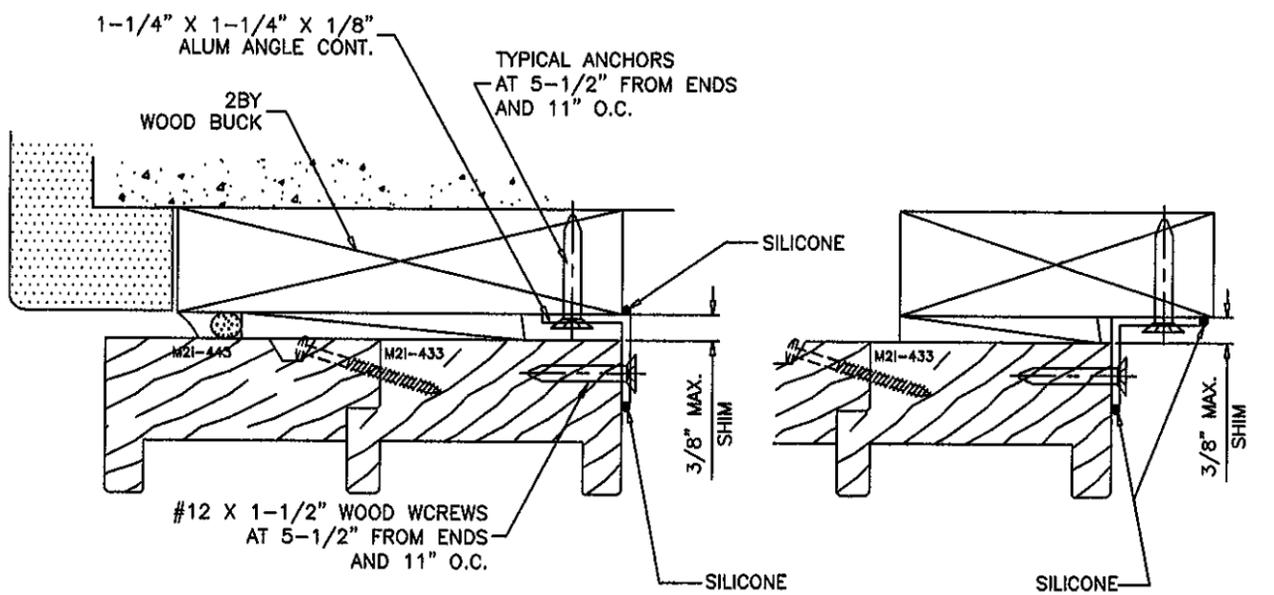
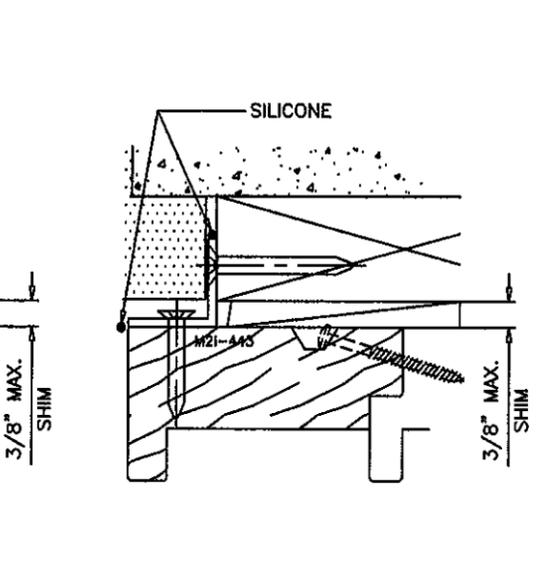
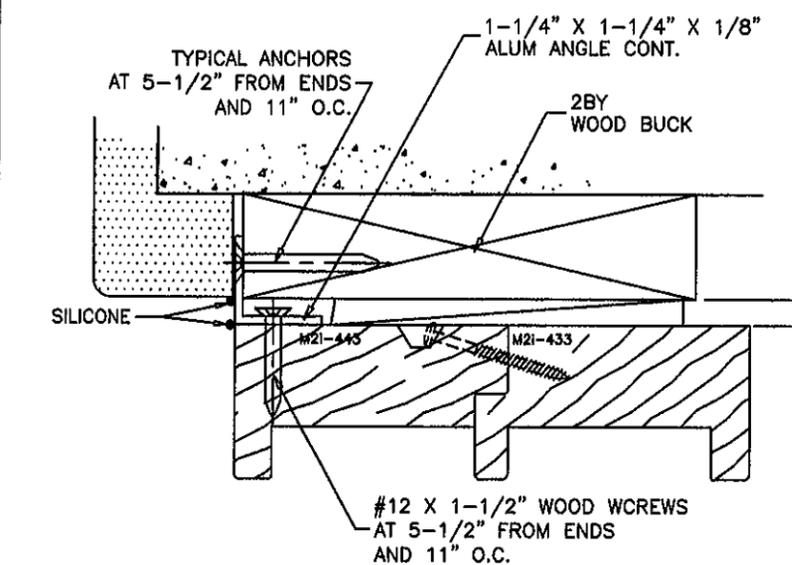
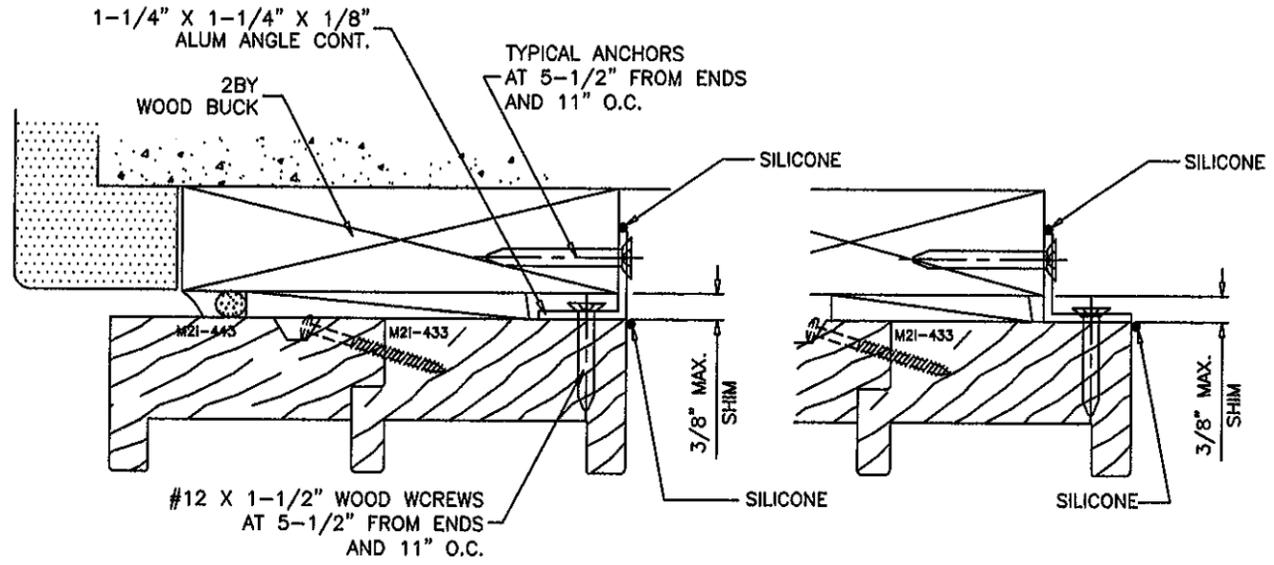
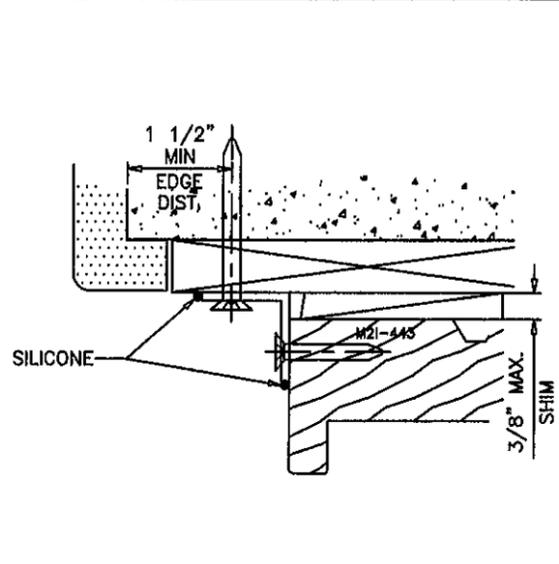
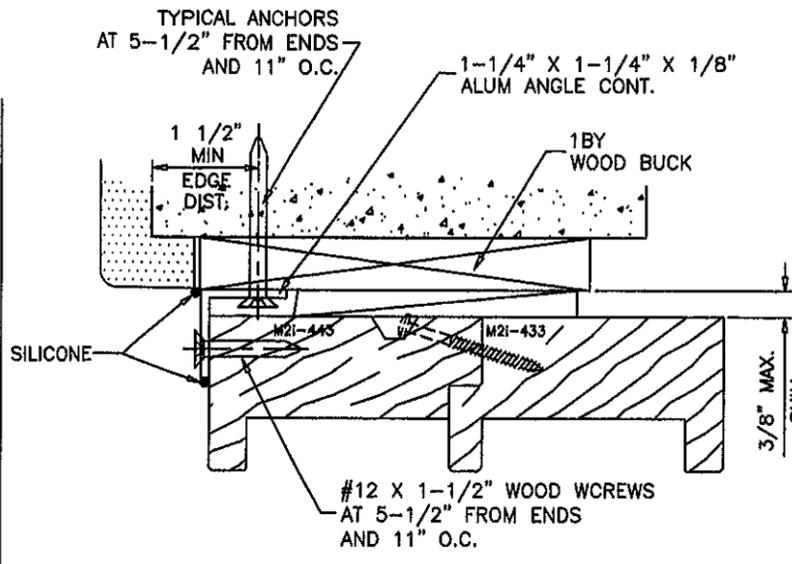
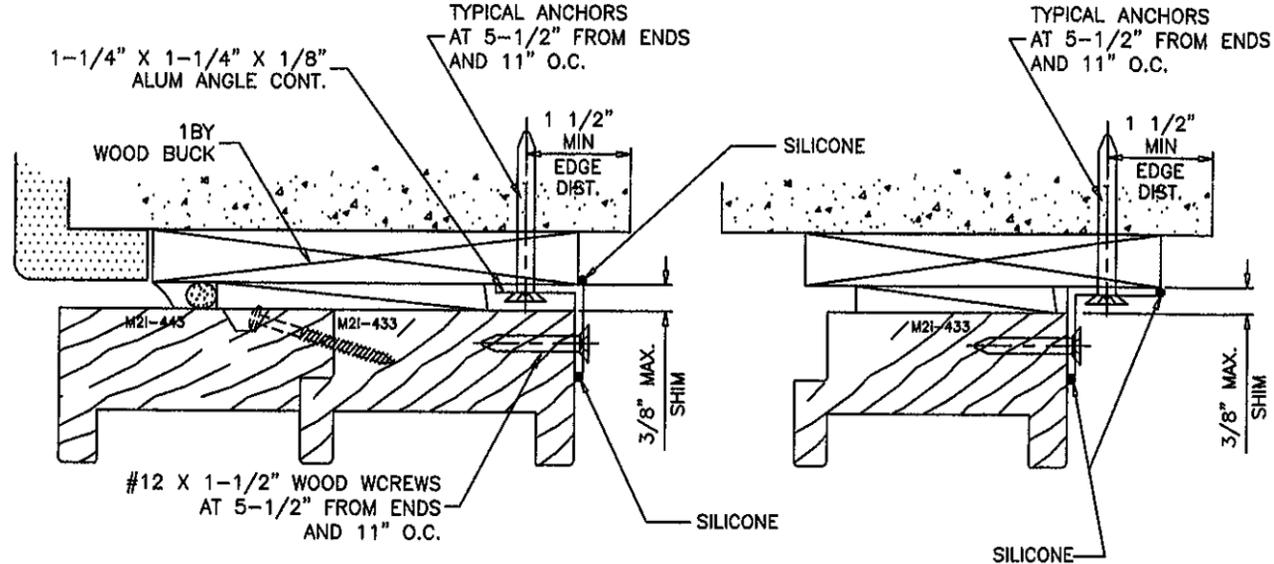
no.	date	by	description
1	03/02/09	SM	Counter weight option added

date: 02-14-06
 scale: 3/8" = 1"
 dr. by: S.M.
 chk. by:

drawing no. W06-11
 sheet 3 of 9

SERIES S200 SINGLE HUNG WOOD WDW. (L.M.I.)
 MQ windows and doors
 4508 rte 117
 Ste-Agathe-des-Monts
 QC, Canada
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mq.
 WINDOWS OF SASKIA AND THE AMERICAS



32 ANGLE INSTALLATION DETAILS

SCOTT WOLTERS
 FL PE# 62354
 WOLTERS ENGINEERING
 (COA# 27194)
 1271 GRANT STREET
 HOLLYWOOD, FL 33019
 PH/FAX: (954) 921-5828
 JAN 27 2012

PRODUCT REVISED
 as complying with the Florida
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 Acceptance No 11-1103.03
 Expiration Date Aug. 3, 2016
 By *Manuel Perez*
 Miami Dade Product Control

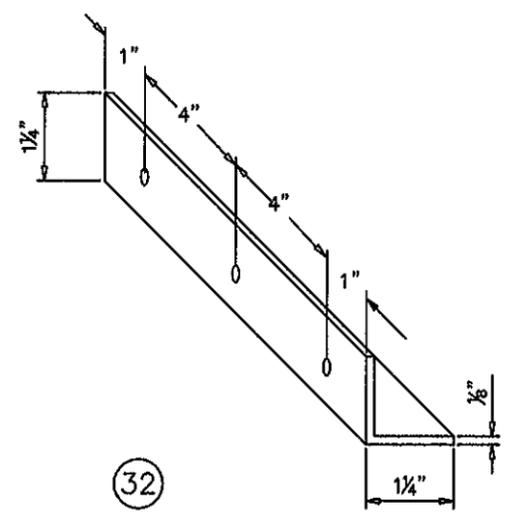
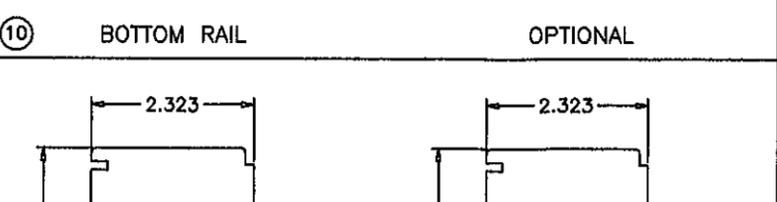
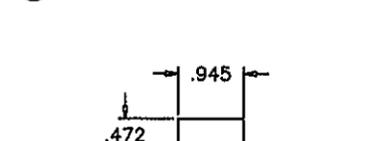
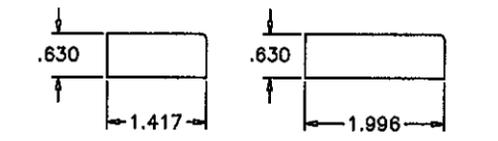
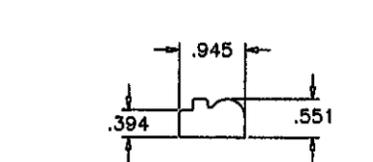
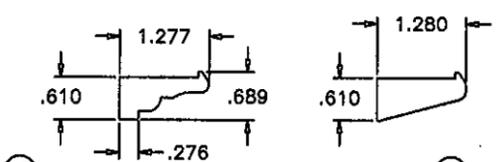
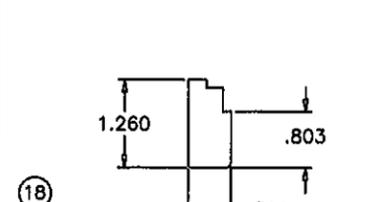
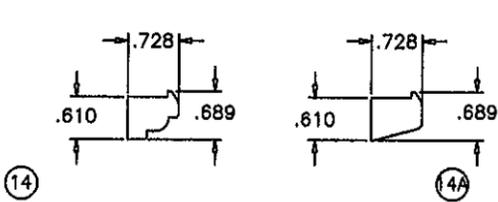
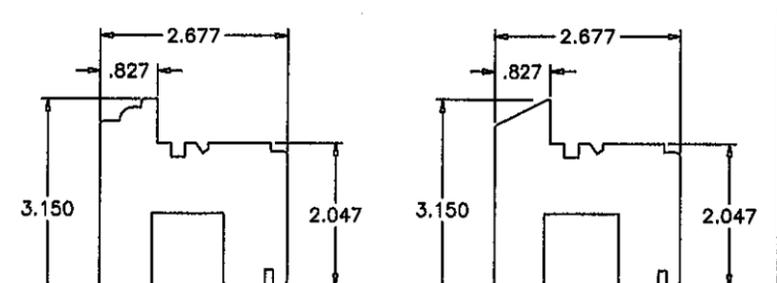
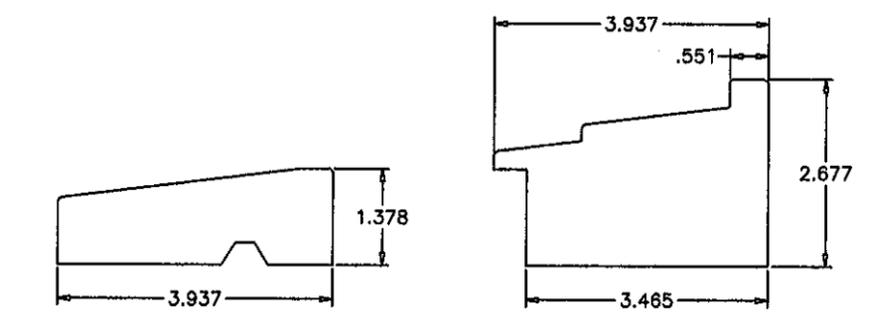
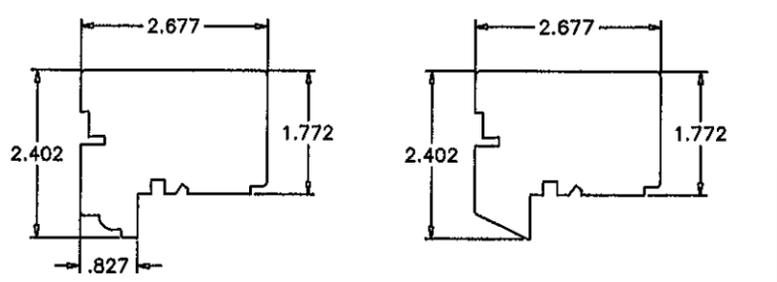
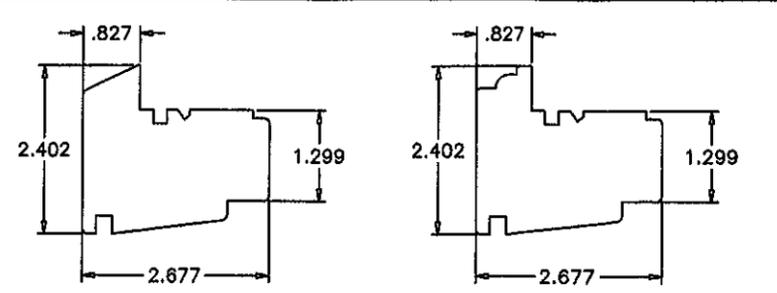
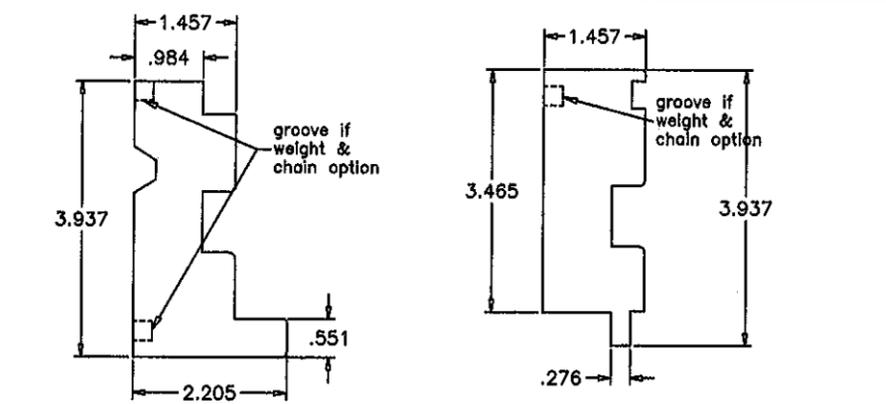
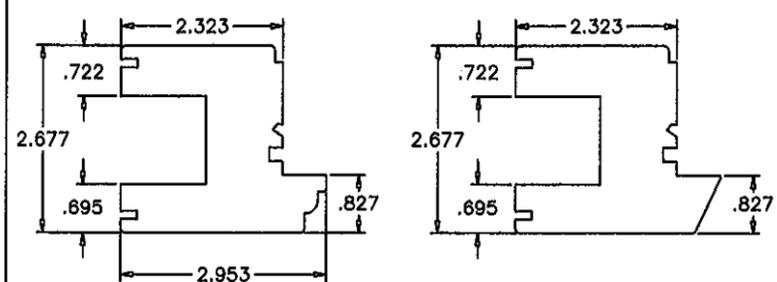
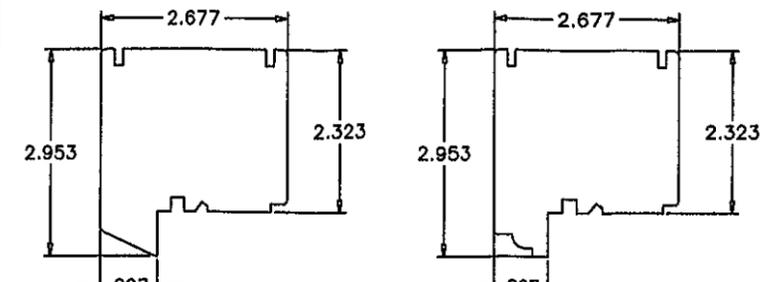
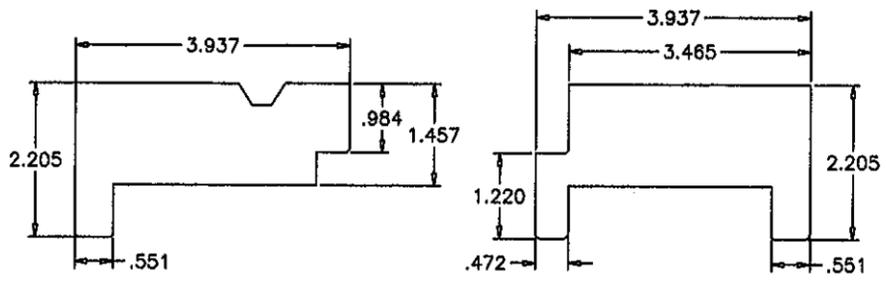
SERIES S200 SINGLE HUNG WOOD WDW.(L.M.I.)
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drawing no.
 W06-11
 sheet 5 of 9

TYPICAL
WOOD-HONDURAS
MAHOGANY
LUMBER



SCOTT WOLTERS
FL PE# 82354
WOLTERS ENGINEERING
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1271 GRANT STREET
HOLLYWOOD, FL 33019
PH/FAX:(954) 921-5828
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Miami/Dade Product Control

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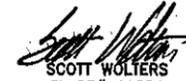
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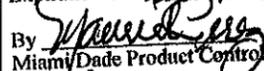
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W06-11
sheet 6 of 9

WOOD = Mahogany or with specific gravity of 0.59 or higher

ITEM #	PART #	REQD.	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	M2i-443	1/ WDW.	EXTERIOR FRAME HEAD	WOOD	MQ WDW.
2	M2i-433	1/ WDW.	INTERIOR FRAME HEAD	WOOD	MQ WDW.
3	M2i-440	2/ WDW.	EXTERIOR FRAME JAMB	WOOD	MQ WDW.
4	M2i-430	2/ WDW.	INTERIOR FRAME JAMB	WOOD	MQ WDW.
5	M2i-442	1/ WDW.	EXTERIOR FRAME SILL	WOOD	MQ WDW.
6	M2i-432	1/ WDW.	INTERIOR FRAME SILL	WOOD	MQ WDW.
7	M2i-413A	1/ WDW.	FIXED UPPER SASH	WOOD	MQ WDW.
8	M2i-412A	1/ WDW.	FIXED MEETING RAIL	WOOD	MQ WDW.
9	M2i-403T	1/ WDW.	TOP RAIL	WOOD	MQ WDW.
10	M2i-402T	1/ WDW.	BOTTOM RAIL	WOOD	MQ WDW.
11	M2i-410A	2/ WDW.	JAMB FIXED UPPER STILE	WOOD	MQ WDW.
12	M2i-400T	2/ WDW.	JAMB BOTTOM STILE	WOOD	MQ WDW.
13	G1-075	4/ SASH	GLAZING BEAD (LAMINATED GLASS)	WOOD	MQ WDW.
13A	G1-074	4/ SASH	ALT. GLAZING BEAD (LAM. GLASS)	WOOD	MQ WDW.
14	G1-045	4/ SASH	GLAZING BEAD (LAM. INSUL. GLASS)	WOOD	MQ WDW.
14A	G1-044	4/ SASH	ALT. GLAZING BEAD (LAM. INSUL. GLASS)	WOOD	MQ WDW.
15	M2-4552	1	GLAZING BEAD LAM. INSUL. GLASS	WOOD	MQ WDW. (AT MTG. RAIL)
15A	M2-4553	1	GLAZING BEAD LAM. GLASS	WOOD	MQ WDW. (AT MTG. RAIL)
16	G2-080	2/ WDW.	INTERIOR STOPPER	WOOD	MQ WDW.
17	G2-081	2/ WDW.	MIDDLE STOPPER	WOOD	MQ WDW.
18	M2-4551	1/ WDW.	MEETING RAIL MOULDING	WOOD	-
19	S400	2/ WDW.	BLOCK & TACKLE BALANCE	-	BALANCE SYSTEMS INC.
20	S200-B101	2/ WDW.	BALANCE HOOK BLOCK	Aluminum 6005A-T5	SECURED W/ (2) #7X1" FH WD. SCREWS
21	LKF18	2/ WDW.	CAM LOCK	BRONZE	SECURED W/ (2) #7X1" FH WD. SCREWS
22	-	2/ WDW.	KEEPER	BRONZE	SECURED W/ (2) #7X1" FH WD. SCREWS
23	12057	AS REQD.	W'STRIPPING GASKET	EPDM	AMESBURY
24	251000AFD	AS REQD.	BRUSH W'STRIPPING	POLYPROPYLENE	AMESBURY
25	#10X2"	AS REQD.	FRAME RH ASSY SCREWS	STEEL	AT 24" O.C. MAX. AND 6" FROM CORNERS
26	#12X2-1/2"	AS REQD.	SASH RH ASSY SCREWS	STEEL	AT 5-1/2" FROM ENDS & 12" O.C. MAX.
27	-	1	CONT. FLAT BAR (1/8" X 1-1/4")	Aluminum 6005A-T5	SECURED W/ (2) #7X1/2" FH WD. SCREWS
28	SP250BBRE	2/ WDW.	PULLEY	BRONZE	SECURED W/ (2) #7X1" FH WD. SCREWS
29	#45	2/ WDW.	FLAT CHAIN	BRONZE	SECURED W/ BOLTED HOOK TO THE WEIGHT
30	---	2/ WDW.	COUNTERWEIGHT	STEEL	SECURED W/ BOLTED HOOK TO THE CHAIN
31	-	at jambs	PS 1-07 1/2" exterior C-D grade	SPF PLYWOOD	GLUED (item 36) AND 1 1/2" X 18g NAILS @2" from corners and 10" max o/c.
32	-	inst. option	(5) clip Angles (1/8" x 1 1/4" x 1 1/4" x 10" long)	Aluminum 6005A-T5	2" spacing, w/(3) #12 x 1 1/2" wood screw @ 1" from edge and 4" o.c.; minimum 1 3/8" embedment
33	-	inst. option	Continuous Angle (1/8" x 1 1/4" x 1 1/4")	Aluminum 6005A-T5	with #12 x 1/1/2" long wood screws @1" from the edge and @ 4" o.c.; minimum 1 3/8" embedment
34	DC832	along glass perimeter	1/16" X 1/2" BEAD	BLACK SILICONE	DOW CORNING 832
35	Spectrem2	along glass perimeter	1/32" X 1/2" bead, between glazing bead and int. face of the glass	CLEAR SILICONE	TREMCO
36	3W-4B	along shown wood surfaces	Type 1 ext. grade Wood glue	white PVA glue	RHENOCOLL GMBH


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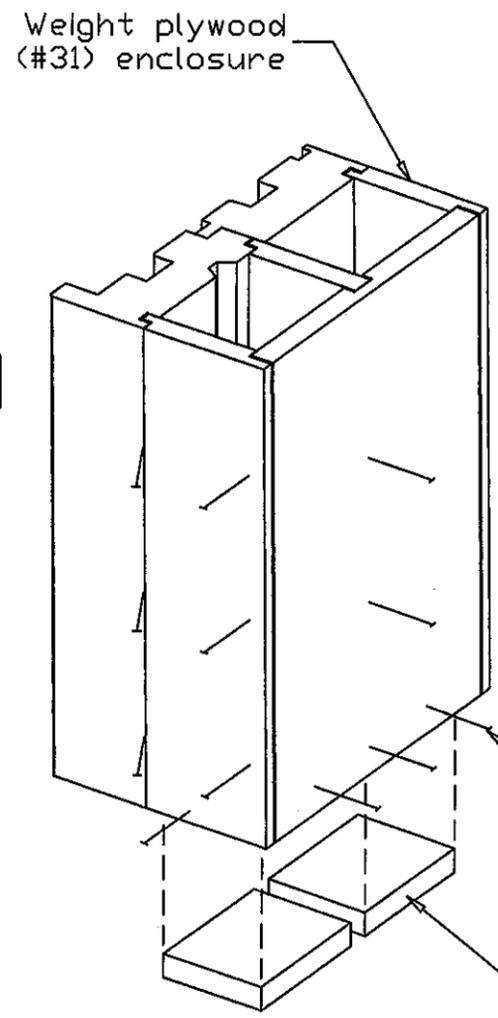
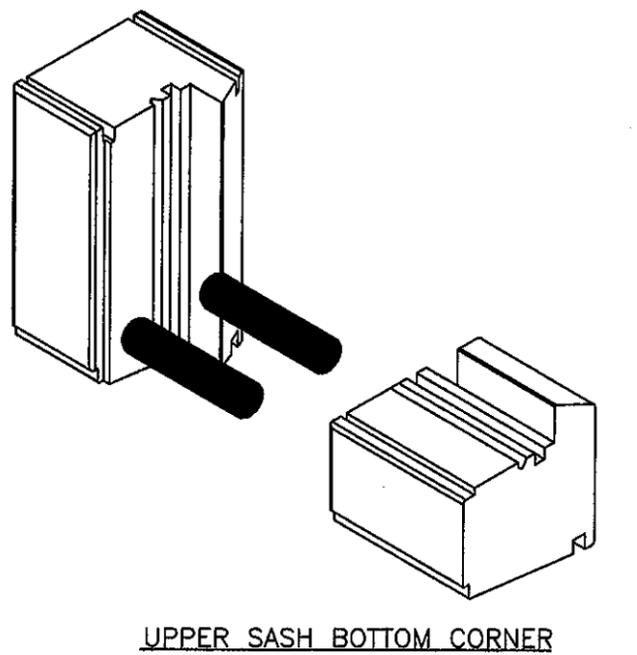
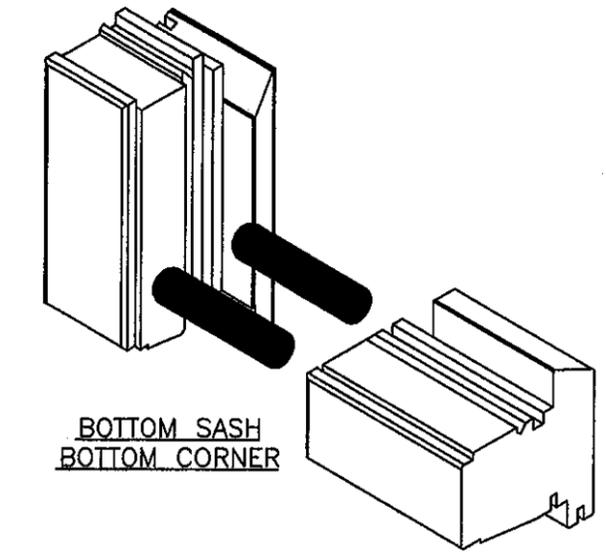
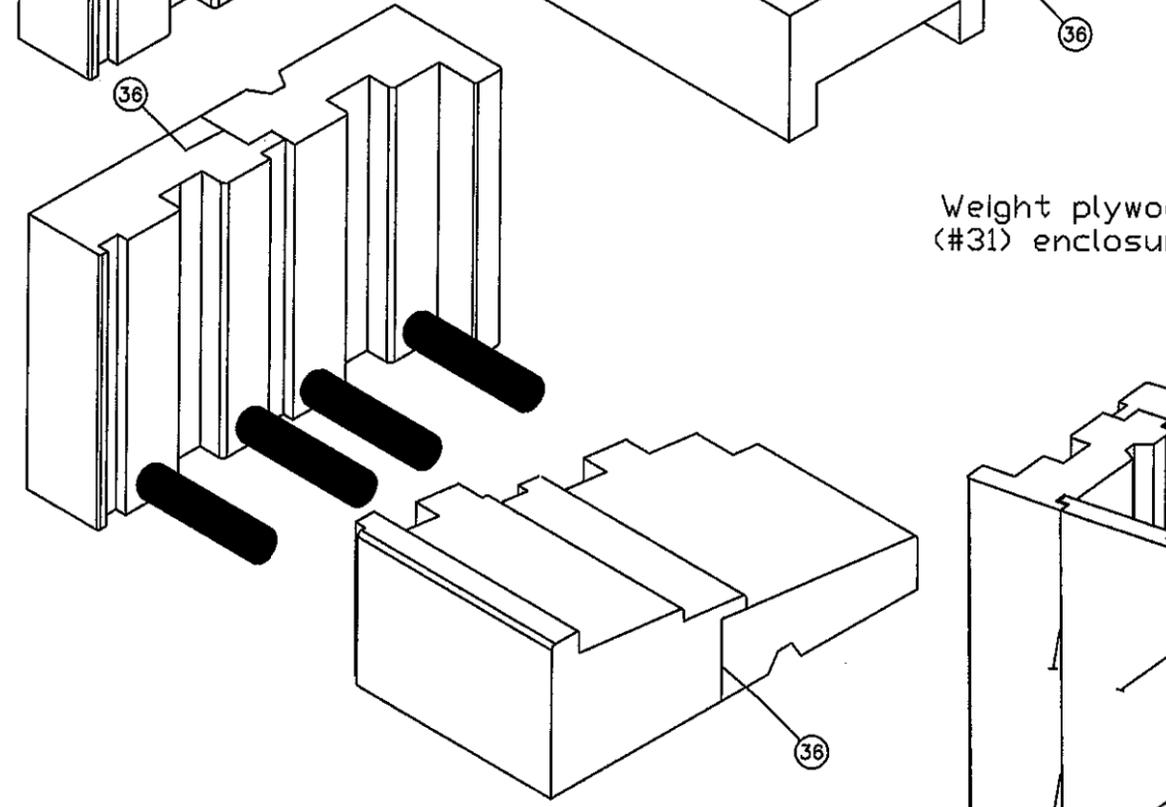
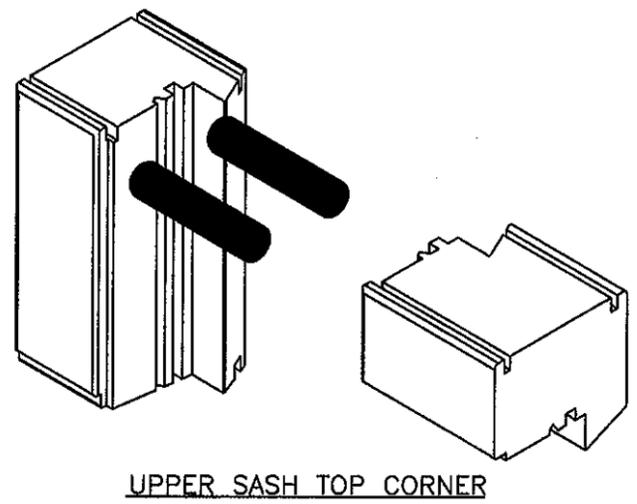
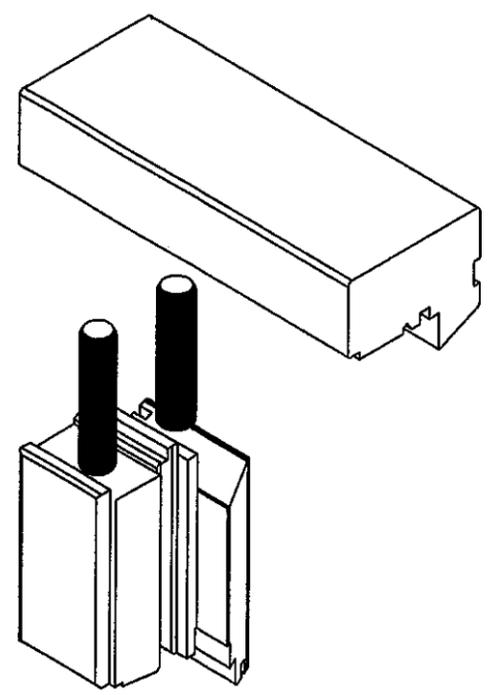
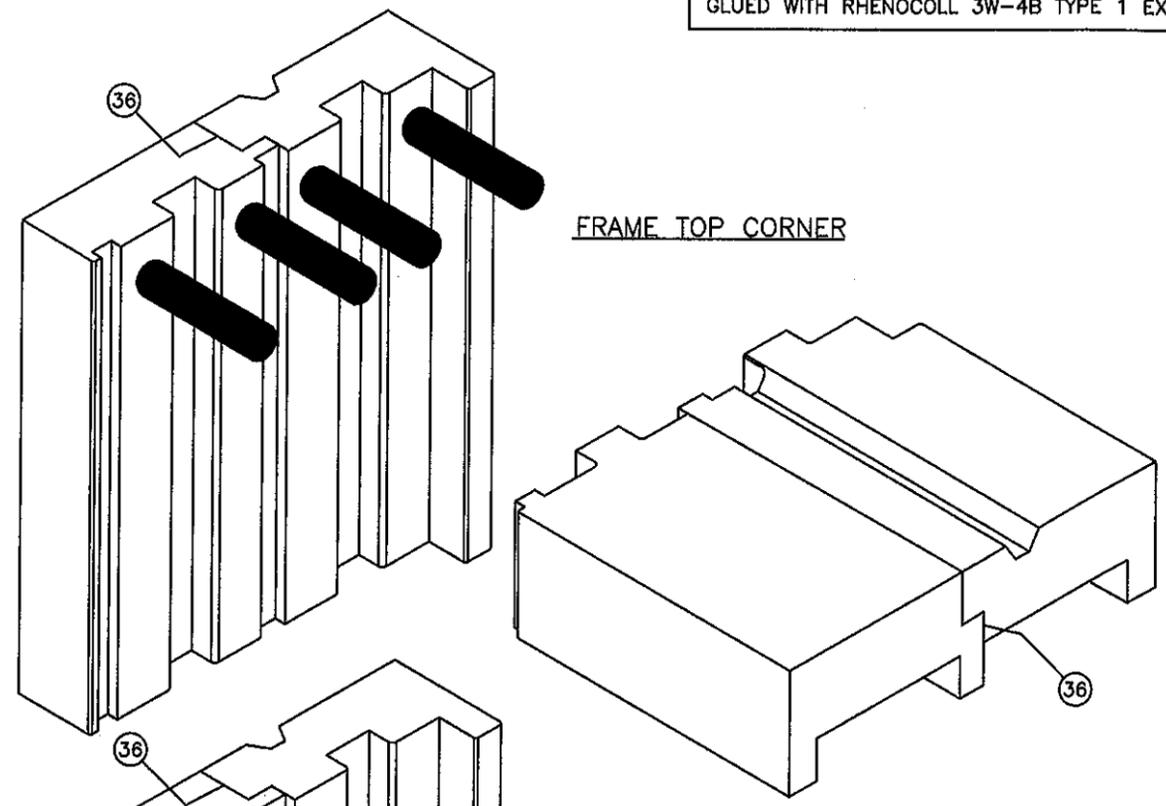
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 sheet 7 of 9

7/16" X 2-3/4" WOOD DOWELS
GLUED WITH RHENOCOLL 3W-4B TYPE 1 EXTERIOR GRADE



18ga x 1 1/2" long brad nail @ 2" from corners and 10" max. o.c. thereafter. All interfaces glued with 3W-4B Item #36

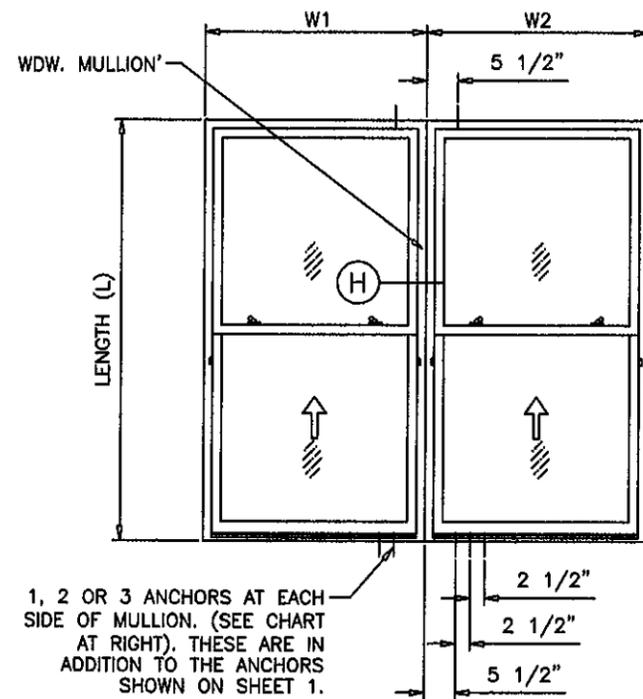
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Miami Dade Product Control

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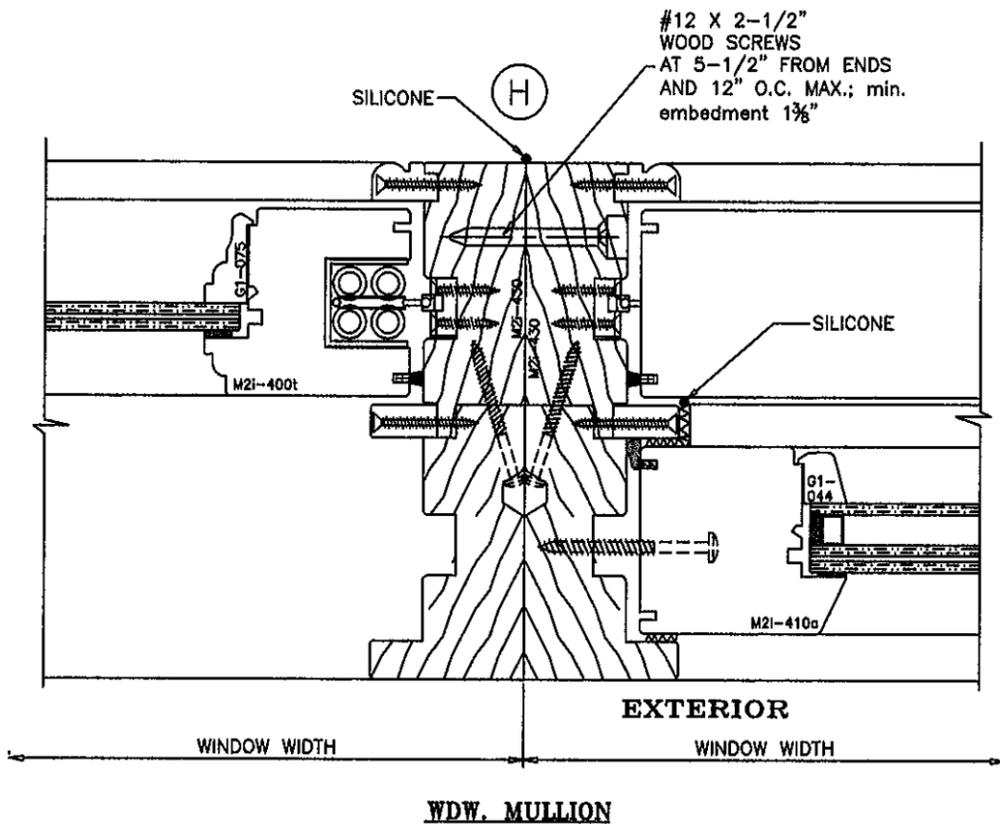
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MQ
WINDOWS
OF
FINE
WOOD



TYPICAL ELEVATIONS
SIDE BY SIDE WINDOWS
 SIDE BY SIDE APPLIES TO TWO OR MORE WINDOWS
 (BLOCK AND TACKLE BALANCES ONLY)

$$\text{WIDTH (W)} = \frac{W1 + W2}{2}$$



WINDOW DIMS.		MULLION LOAD CAPACITY - PSF								
		1/4" TAPCONS (THRU FRAME)			#14 SMS (THRU FRAME)			#12 SMS (THRU ANGLE)		
		1 ANCHOR AT EACH SIDE OF MULLION	2 ANCHORS AT EACH SIDE OF MULLION	3 ANCHORS AT EACH SIDE OF MULLION	1 ANCHOR AT EACH SIDE OF MULLION	2 ANCHORS AT EACH SIDE OF MULLION	3 ANCHORS AT EACH SIDE OF MULLION	1 ANCHOR AT EACH SIDE OF MULLION	2 ANCHORS AT EACH SIDE OF MULLION	3 ANCHORS AT EACH SIDE OF MULLION
WIDTH (W)	LENGTH (L)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	EXT.(+) INT.(-)	
26-1/2"	58-1/4"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
32"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
37"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
53-1/8"		70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
57-5/16"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	
26-1/2"	70-1/4"	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0	70.0
32"		70.0	70.0	70.0	58.0	70.0	70.0	70.0	70.0	70.0
37"		70.0	70.0	70.0	58.0	70.0	70.0	70.0	70.0	70.0
42"		70.0	70.0	70.0	58.0	70.0	70.0	70.0	70.0	70.0
48"		70.0	70.0	70.0	58.0	70.0	70.0	70.0	70.0	70.0
53-1/8"		70.0	70.0	70.0	58.0	70.0	70.0	70.0	70.0	70.0
57-5/16"	70.0	70.0	70.0	58.0	70.0	70.0	70.0	70.0	70.0	
26-1/2"	82-1/4"	70.0	70.0	70.0	59.8	70.0	70.0	70.0	70.0	70.0
32"		61.1	70.0	70.0	49.5	70.0	70.0	67.0	70.0	70.0
37"		61.1	70.0	70.0	49.5	70.0	70.0	67.0	70.0	70.0
42"		61.1	70.0	70.0	49.5	70.0	70.0	67.0	70.0	70.0
48"		61.1	70.0	70.0	49.5	66.0	70.0	67.0	70.0	70.0
53-1/8"		61.1	70.0	70.0	49.5	66.0	70.0	67.0	70.0	70.0
57-5/16"	61.1	70.0	70.0	49.5	64.5	70.0	67.0	70.0	70.0	
26-1/2"	94-1/4"	64.3	70.0	70.0	52.2	69.6	70.0	70.0	70.0	70.0
32"		53.3	70.0	70.0	43.2	69.6	70.0	58.4	70.0	70.0
37"		53.3	70.0	70.0	43.2	62.3	70.0	58.4	70.0	70.0
42"		53.3	70.0	70.0	43.2	62.3	70.0	58.4	70.0	70.0
48"		53.3	70.0	70.0	43.2	57.6	70.0	58.4	70.0	70.0
53-1/8"		53.3	70.0	70.0	43.2	57.6	69.4	58.4	70.0	70.0
57-5/16"	53.3	69.4	70.0	43.2	56.3	69.4	58.4	70.0	70.0	
26-1/2"	108-1/4"	56.0	70.0	70.0	45.4	60.6	70.0	61.4	70.0	70.0
32"		46.4	70.0	70.0	37.6	62.7	70.0	50.9	70.0	70.0
37"		46.4	66.9	70.0	37.6	54.2	70.0	50.9	70.0	70.0
42"		46.4	66.9	70.0	37.8	54.2	66.9	50.9	70.0	70.0
48"		46.4	61.9	70.0	37.6	50.2	66.9	50.9	67.8	70.0
53-1/8"		46.4	61.9	70.0	37.6	50.2	60.4	50.9	67.8	70.0
57-5/16"	46.4	60.4	70.0	37.6	49.0	60.4	50.9	66.3	70.0	

INSTRUCTIONS:

USE CHARTS AS FOLLOWS.

- STEP 1** DETERMINE DESIGN WIND LOAD REQUIREMENT BASED ON WIND VELOCITY, BLDG. HEIGHT, WIND ZONE USING APPLICABLE ASCE 7 STANDARD.
- STEP 2** SEE CHARTS ON SHEET 2 FOR DESIGN LOAD CAPACITY OF DESIRED WINDOW SIZE.
- STEP 3** USE CHART ON THIS SHEET FOR SIDE BY SIDE CONNECTION CAPACITY OF WINDOW MULLION. THE CAPACITY SHOULD EXCEED THE DESIGN LOAD.
- STEP 4** THE LOWEST VALUE RESULTING FROM STEPS 2 AND 3 SHALL APPLY TO ENTIRE SYSTEM.

Scott Walters
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