

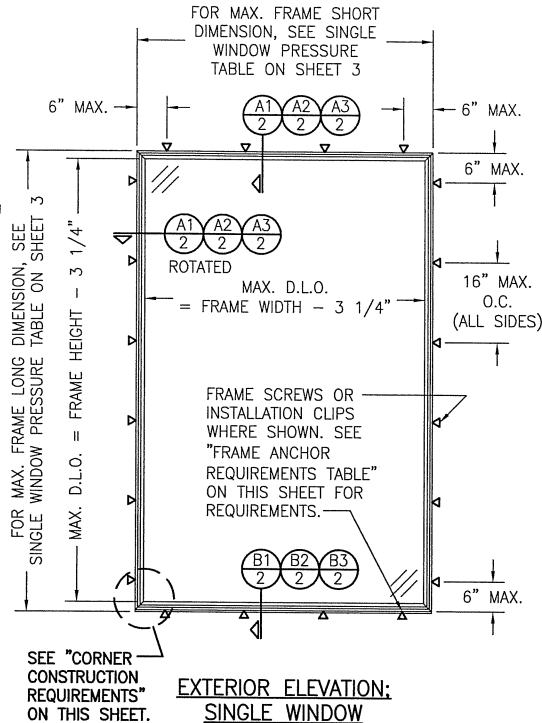
GENERAL NOTES:

1. THIS PRODUCT HAS 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. THIS PRODUCT HAS BEEN DESIGNED IN ACCORDANCE WITH AND MEETS THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ) & IS LARGE MISSILE IMPACT RATED.
5. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
6. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
7. 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 PER THE ASCE-7 STANDARD.
8. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE.
9. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/OA ENTITY & SHALL BE LABELED IN ACCORDANCE WITH THE FBC AND THE FLORIDA DEPARTMENT OF BUSINESS & PROFESSIONAL REGULATION SPECIFICATIONS. THESE DRAWINGS SHOW ALL APPLICABLE ELEVATION, COMBINATION, INSTALLATION & COMPARATIVE ANALYSIS CONDITIONS AS DETERMINED THROUGH TESTING & ENGINEERING RATIONAL ANALYSIS. PRODUCT ASSEMBLY SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
10. CERTIFICATION OF THIS PRODUCT SHALL BE CONSIDERED VOID IF IT IS INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT OR IF IT IS INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH INSTALLATIONS OF THIS TYPE OF PRODUCT.
11. ALL WOOD MEMBERS OF THIS PRODUCT THAT MAY POSSIBLY COME INTO CONTACT WITH MASONRY OR CONCRETE SUBSTRATES, ARE SUBJECT TO MOISTURE &/OR ARE SUBJECT TO THE OUTSIDE ENVIRONMENT SHALL BE OF AN APPROVED DURABLE SPECIES OR BE TREATED IN AN APPROVED METHOD WITH AN APPROVED PRESERVATIVE PER FBC REQUIREMENTS.

CORNER CONSTRUCTION:

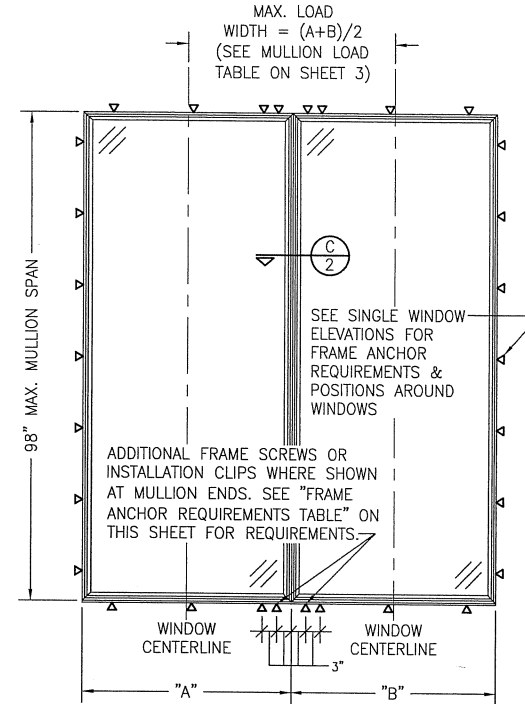
WOOD JAMBS: MITERED AND SECURED WITH THREE (3) NO. 8 X 2" S.S. WOOD SCREWS THRU HEAD AND SILL JAMBS INTO SIDE JAMBS & (2) NO. 8 X 2" S.S. WOOD SCREWS THRU SIDE JAMBS INTO HEAD AND SILL JAMBS.

JAMB CLAD: MITERED AND SECURED WITH ONE (1) NO. 6 X 1 1/4" S.S. WOOD SCREW THRU HEAD CLAD INTO SIDE JAMB CLAD SCREW BOSS.



EXTERIOR ELEVATION: SINGLE WINDOW

SCALE: 1/2" = 1'-0"



EXTERIOR ELEVATION: MULTIPLE FIXED WINDOWS

SCALE: 1/2" = 1'-0"

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU OR 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
INSTALLATION CLIP SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 3/8"	1/2"
MIN. 18 GA. 33 KSI METAL STUD	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

(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.).

ALLOWABLE DESIGN LOADS

SEE DESIGN LOAD TABLES ON SHEET 3.

LONG DIMENSION OF WINDOW MAY BE HORIZONTAL OR VERTICAL (HEIGHT & WIDTH MAY BE INTERCHANGED).

EVALUATION OF THIS PRODUCT IS BASED ON APPLICABLE STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE FLORIDA BUILDING CODE VERSION CONSIDERED WITH THIS EVALUATION WAS THAT IN FORCE AT THE TIME OF THE EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT THAT NEW OR ADDITIONAL TESTING IS COMPLETED ON THIS PRODUCT, PRIOR TO STATING CODE COMPLIANCE WITH THE STATE, THE MANUFACTURER SHALL CONFIRM WITH THE EVALUATION ENGINEER OF RECORD THAT EVERYTHING SPECIFIED HERE-IN IS CURRENT WITH ALL CURRENT TESTING, CODES AND APPLICABLE STANDARDS.

MULTIPLE UNIT NOTES:

1. FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATIONS.
2. MULLION MAY BE HORIZONTAL OR VERTICAL PROVIDING UNIT SIZES ARE RESTRICTED AS SHOWN IN THIS ELEVATION.
3. WINDOWS MAY BE STACKED HORIZONTAL OR VERTICAL. TO INSURE THAT THE DEAD WEIGHT OF THE ABOVE WINDOW(S) WILL NOT CAUSE UNDO STRESS ON THE BELOW WINDOW, WHEN VERTICALLY STACKED, THE MANUFACTURER/INSTALLER SHALL LIMIT THE SAG OF THE HORIZONTAL MULLION TO MAX. 1/8".
4. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLIONS.
5. INDIVIDUAL WINDOW SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE WINDOW ELEVATIONS.

THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWN BY: W.R.M.	CHECKED BY: W.W.S.
DATE: 08/22/11	DATE: 09/17/09
BY: W.R.M.	BY: W.W.S.
REVISION DESCRIPTION	NO.
1-24	1
UPDATE TO CURRENT STANDARDS	2
UPDATE TO CURRENT STANDARDS	3
ALUMINUM CLAD WOOD DIRECT SET WINDOW	
MANUFACTURER	
PALM CITY MILLWORK, INC.	
3313 S.W. 42ND AVE.	
PALM CITY, FL 34990	
800-273-5598	
CONSULTANTS	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)	
7480 150TH COURT NORTH	
PALM BEACH GARDENS, FL 33418	
PHONE: 561-744-3424	
CERTIFICATION	
JAN 08 2015	
W. W. SCHAEFER, P.E.	
P.E. NO. 44135	
DRAWING NO. 1	REV. B
1682	
SHEET NO.	
1	OF 3

MULLION LOAD TABLE			
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH A±B 2 (IN.)	ALLOWABLE PRESSURE (PSF)	
		POS.	NEG.
78	62	60.0	70.0
	54	60.0	70.0
	60	59.9	69.9
84	62	59.1	68.9
	48	60.0	70.0
	54	57.0	66.5
90	60	53.9	62.9
	62	53.0	61.9
	42	60.0	70.0
96	48	56.0	65.4
	54	50.5	58.9
	60	47.0	54.8
98	62	46.0	53.7
	42	60.0	70.0
	48	53.6	62.5
98	54	48.3	56.3
	60	44.8	52.3
	62	43.9	51.2

NOTE: DUE TO TRIANGULAR LOAD DISTRIBUTION ON THE MULLION, WHEN MULLION SPAN IS 64" OR LESS, THE LOAD WIDTH HAS NO RESTRICTION & IS LIMITED ONLY BY THE ALLOWABLE INDIVIDUAL WINDOW SIZE.

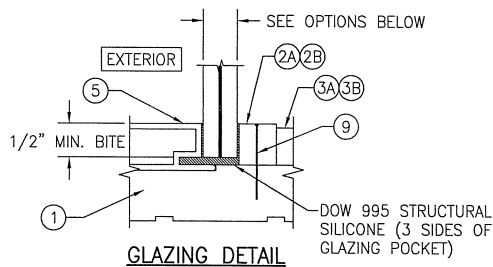
SINGLE WINDOW ALLOWABLE DESIGN PRESSURE TABLE
(WHEN USING GLASS OPTIONS 1 & 2)

(1) SHORT DIMENSION	ALLOWABLE DESIGN PRESSURE (PSF)															
	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.
36" OR LESS	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0
42"	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0
48"	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0
54"	60.0	70.0	60.0	70.0	60.0	70.0	59.4	70.0	58.9	68.3	58.0	65.5				
60"	60.0	70.0	59.7	69.7	57.6	67.2	55.9	63.6								
64"	60.0	70.0	58.2	67.8	55.9	64.7										
(1) LONG DIMENSION	78" OR LESS		84"		90"		96"		98"		102"		108"		120"	

SINGLE WINDOW ALLOWABLE DESIGN PRESSURE TABLE
(WHEN USING GLASS OPTION 3)

(1) SHORT DIMENSION	ALLOWABLE DESIGN PRESSURE (PSF)																							
	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.	POS.	NEG.
24" OR LESS	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0
30"	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0
36"	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0
42"	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0
48"	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0
54"			60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0										
60"				60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0	60.0	70.0											
64"					60.0	70.0	60.0	70.0																
(1) LONG DIMENSION	48" OR LESS		54"		60"		64"		66"		72"		78"		84"		90"		96"		98"		108"	

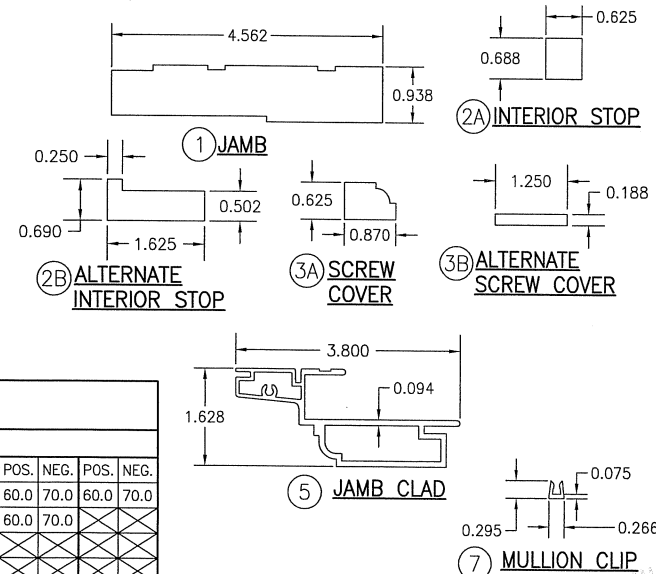
NOTES: 1. ALL WINDOW DIMENSION VALUES SHOWN ARE +/- 1/2" & ARE FRAME (F.H. & F.W.) DIMENSIONS.
2. THOSE SIZES WITH LOADS LISTED ARE MAXIMUM ALLOWABLE SIZES AT THAT LOAD. IF NO LOAD IS LISTED FOR A GIVEN SIZE, THAT SIZE EXCEEDS ALLOWABLE AND IS NOT ACCEPTABLE.
3. SEE GLAZING DETAIL FOR DESCRIPTION OF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



- OPTION #1: 9/16" THICK EASTMAN CHEM. CO. SAFLEX HP LAMINATED ANNEALED (1/4" AN/0.10" SAFLEX HP/1/4" AN)
OPTION #2: 9/16" THICK DUPONT SG LAMINATED ANNEALED GLASS (1/4" AN/0.09" SG/1/4" AN)
OPTION #3: 7/16" THICK EASTMAN CHEM. CO. SAFLEX HP LAMINATED ANNEALED (3/16" AN/0.10" SAFLEX HP/3/16" AN)

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	JAMB	WOOD
2A	INTERIOR STOP	WOOD
2B	ALTERNATE INTERIOR STOP	WOOD
3A	SCREW COVER	WOOD
3B	ALTERNATE SCREW COVER	WOOD
5	JAMB CLAD	6063-T5 ALUMINUM
7	MULLION CLIP	6063-T5 ALUMINUM
8	MASONRY CLIP (1.25" X MIN. 6.5" X 0.043")	MIN. 33 KSI GALV. STEEL
FASTENERS		
9	18 GA. X 1" FINISH NAIL	2" FROM CORNERS & 5" MAX. O.C.
10	18 GA. X 7/8" X 3/4" S.S. STAPLES	5" FROM CORNERS & 6" MAX. O.C.
11	#8 X 1 1/4" WOOD SCREW	4" FROM ENDS & 12 O.C.

NOTE: WOOD USED IN TESTING WAS MAHOGANY WITH A SPECIFIC GRAVITY OF G = 0.62 AND A MODULUS OF ELASTICITY OF E = 1,600,000 PSI. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.61 AND MODULUS OF ELASTICITY OF 1,600,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY PALM CITY MILLWORK, INC. TO SELECT.



DRAWN BY: W.R.M.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 09/17/09	
DATE	BY	NO.	REVISION DESCRIPTION
DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT SET WINDOW			
MANUFACTURER: PALM CITY MILLWORK, INC. 3313 S.W. 42ND AVE. PALM CITY, FL 34990 800-273-5598			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, 33418 PALM BEACH GARDENS, FL PHONE: 561-744-3424			
CERTIFICATION: JAN 09 2015 WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1682		REV. B	
SHEET NO. 3		OF 3	