

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

JAMB CORNERS: CORNERS BUTTED AND SECURED WITH NO. 8 X 2 1/4" WOOD SCREWS (3 PER CORNER) AND 3/16" X 1 1/16" 18 GA. CROWN STAPLES (2 PER CORNER)

CLAD CORNERS: CORNERS MITERED AND SECURED WITH NO. 8 X 2 1/4" S.S. SQUARE DRIVE TAPERED HEAD SCREWS (2 PER CORNER)

ALLOWABLE DESIGN PRESSURE
(SINGLE WINDOW)

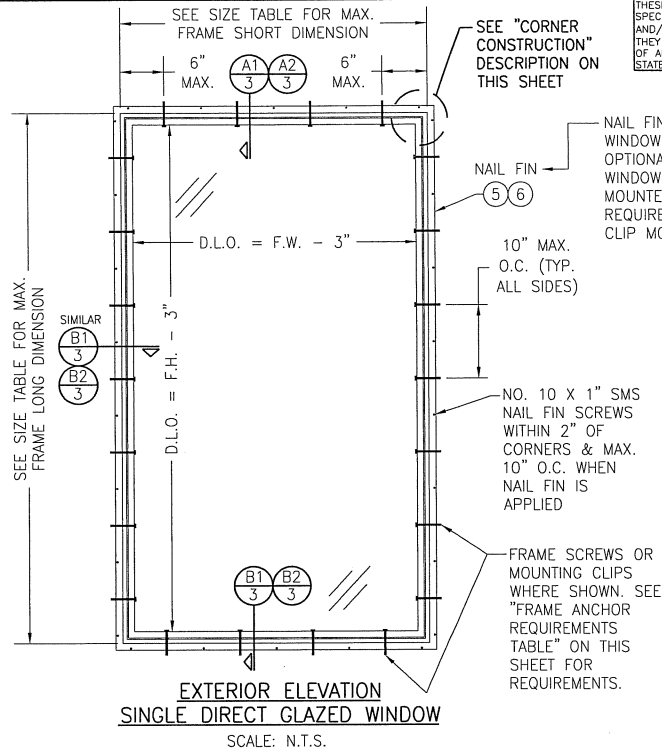
+/- 80 PSF

RECTANGULAR WINDOWS SHOWN. ANCHORING OF SHAPED WINDOWS IS THE SAME WITH REQUIRED ANCHOR SPACING ALONG THE FRAME CIRCUMFERENCE BEING THE SAME AS SPECIFIED FOR A STRAIGHT FRAME.

FRAME ANCHOR REQUIREMENTS TABLE

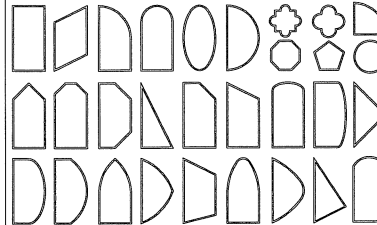
FRAME SCREWS			
OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & $G=0.55$)	(1) NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	(1) NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	(1) NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	(1) NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. C-90 CMU OR 2500 PSI CONCRETE	(2) 1/4" CONCRETE SCREW	1 1/4"	2"
MOUNTING CLIP SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & $G=0.55$)	NO. 10 SMS SCREW	1 3/8"	1/2"
NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & $G=0.55$)	NO. 10 SMS SCREW	7/8"	1/4"

- (1) IF NO. 14 SMS SCREWS OR 1/4" CONCRETE SCREWS ARE USED IN LIEU OF NO. 10 FRAME SCREWS SPECIFIED, SHIM SPACE MAY BE INCREASED TO AS MUCH AS 1/2".
- (2) CONCRETE SCREWS SHALL BE ELCO ULTRACONS, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL OR S.S.).



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

APPROVED SHAPES



NOTES:

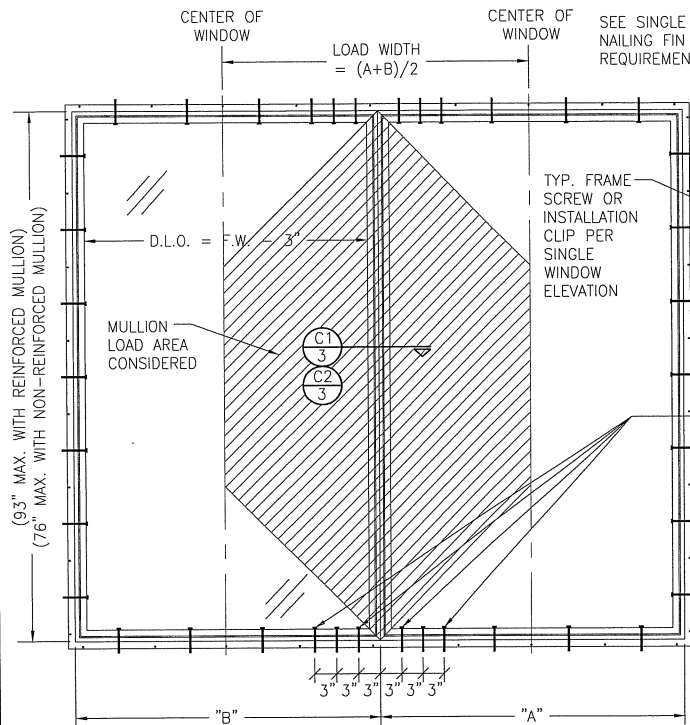
1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED ON THIS SHEET.
2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.

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.

SINGLE WINDOW ALLOWABLE SIZE TABLE

MAXIMUM FRAME SHORT DIMENSION (IN.)	MAXIMUM FRAME LONG DIMENSION (IN.)
GLASS OPTIONS 1, 2, 5 & 6	
(1) 60	120
54	132
50	144
GLASS OPTIONS 3 & 4	
54	54
48	60
42	68
(1) 38	76
36	80
30	96
24	120
GLASS OPTIONS 7 & 8	
60	72
54	80
48	90
(1) 46	93
42	102
36	120
30	144
(1) = TESTED SIZES	

DRAWN BY: S.F.R.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 4/28/05	
DATE	BY	DATE	BY
10/19/11	W.W.S.	01/09/15	W.W.S.
REVISION	DESCRIPTION	NO.	DATE
A1	UPDATE TO CURRENT STANDARDS	1	01/09/15
ALUMINUM CLAD WOOD DIRECT SET WINDOW MANUFACTURER PARRETT WINDOWS 810 2ND AVE. EAST DORCHESTER, WI 54425 (715) 654-6444 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 09 2015 WARREN W. SCHAEFER, P.E. P.E. NO. 44135 DRAWING NO. 1419 SHEET NO. 1 OF 5 REV. B			



FIXED WINDOW TO FIXED WINDOW WHEN WINDOW WIDTHS ARE LESS THAN OR EQUAL TO THE MULLION LENGTH
(SEE MULLION LOAD TABLE ON THIS SHEET)

(DOUBLE WINDOW SHOWN. MORE THAN 2 WINDOWS MAY BE MULLED TOGETHER IN ONE DIRECTION INTO ONE OPENING.)

NOTE: MULLION MAY BE HORIZONTAL OR VERTICAL.
SEE SINGLE WINDOW ELEVATION FOR DETAIL NOT SHOWN.

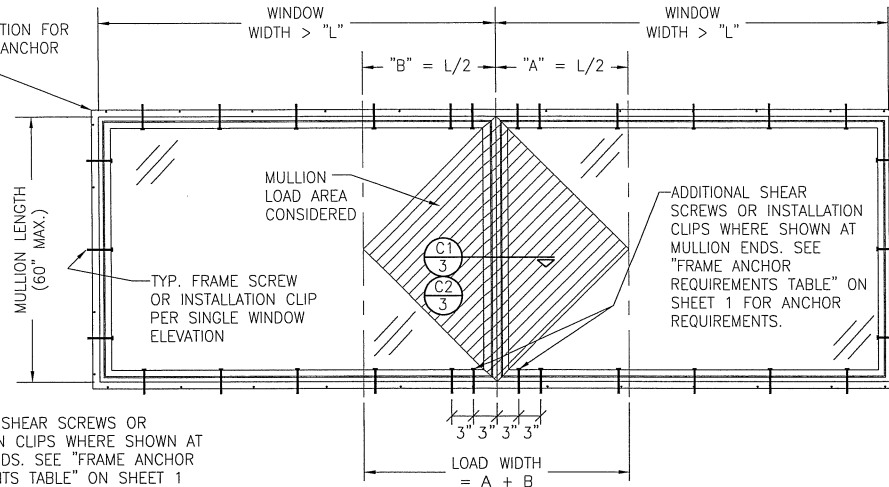
MULTIPLE UNIT NOTES:

1. THE MAXIMUM ALLOWABLE PRESSURE FOR A COMBINED UNIT IS RESTRICTED BY THE LESSER OF THE INDIVIDUAL WINDOW ALLOWABLE PRESSURE OR THE ALLOWABLE MULLION PRESSURE. SEE MULLION LOAD TABLE ON THIS SHEET FOR ALLOWABLE UNIT PRESSURE.
2. WINDOWS MAY BE STACKED HORIZONTAL OR VERTICAL. (IF VERTICALLY STACKED, MANUFACTURER MUST INSURE THAT THE DEAD WEIGHT OF THE WINDOWS DOES NOT CAUSE ANY WINDOW FAILURES OR DEFORMATIONS)

SEE SINGLE WINDOW ELEVATION FOR NAILING FIN AND NAIL FIN ANCHOR REQUIREMENTS

TYP. FRAME SCREW OR INSTALLATION CLIP PER SINGLE WINDOW ELEVATION

ADDITIONAL SHEAR SCREWS OR INSTALLATION CLIPS WHERE SHOWN AT MULLION ENDS. SEE "FRAME ANCHOR REQUIREMENTS TABLE" ON SHEET 1 FOR ANCHOR REQUIREMENTS. MAY REDUCE TO 4 ANCHORS PER END IF EITHER THE REQUIRED PRESSURE IS LESS THAN 60 PSF, THE LOAD WIDTH IS LESS THAN 36", OR MULLION LENGTH IS LESS THAN 74".



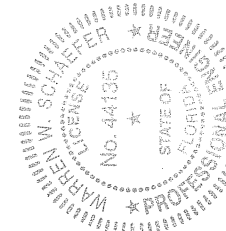
FIXED WINDOW TO FIXED WINDOW WHEN WINDOW WIDTHS ARE GREATER THAN THE MULLION LENGTH
(SEE MULLION LOAD TABLE ON THIS SHEET)

(DOUBLE WINDOW SHOWN. MORE THAN 2 WINDOWS MAY BE MULLED TOGETHER IN ONE DIRECTION INTO ONE OPENING.)

NOTE: MULLION MAY BE HORIZONTAL OR VERTICAL.
SEE SINGLE WINDOW ELEVATION FOR DETAIL NOT SHOWN.

MULLION ALLOWABLE LOAD TABLE			
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (POS. & NEG. PSF)	
		WITH REINFORCEMENT	WITHOUT REINFORCEMENT
93	60	65.7	N/A
	54	70.8	N/A
	48	77.9	N/A
	42	80.0	N/A
90	60	71.0	N/A
	54	76.2	N/A
	48	80.0	N/A
	42	80.0	N/A
84	60	80.0	N/A
	54	80.0	58.2
	48	80.0	61.8
	42	80.0	66.7
76	60	80.0	73.6
	54	80.0	80.0
	48	80.0	80.0
	42	80.0	80.0
72	60	80.0	80.0
	54	80.0	80.0
	48	80.0	80.0
	42	80.0	80.0
66	60	80.0	80.0
	54	80.0	80.0

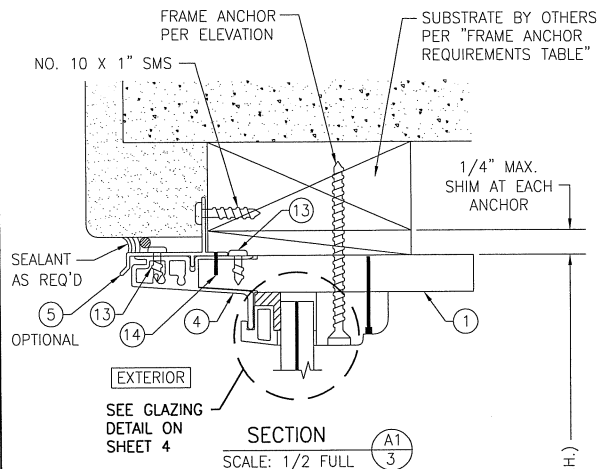
LESSER OF THE PRESSURE SHOWN IN THIS TABLE & THAT ALLOWED FOR THE INDIVIDUAL WINDOW SHALL CONTROL AS ALLOWABLE FOR THE OVERALL UNIT.



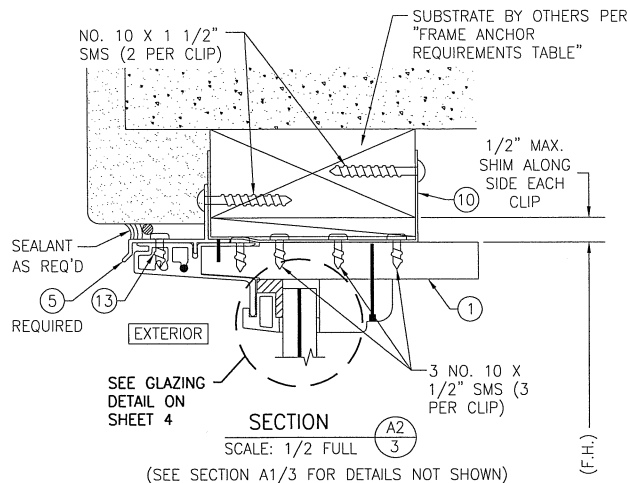
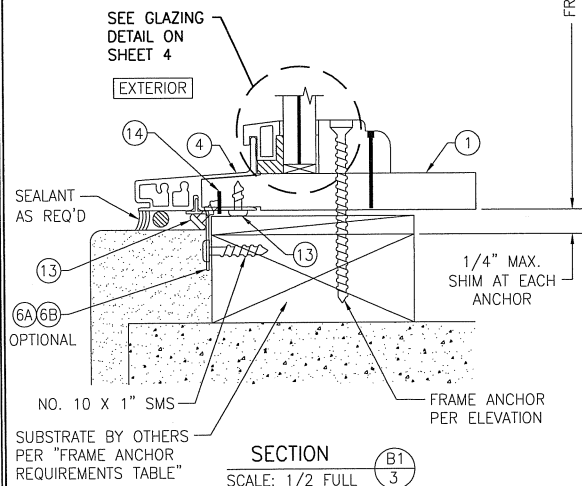
DRAWN BY:	CHECKED BY:
S.T.R.	W.W.S.
PLOT:	DATE:
1=16	4/28/05
DATE:	
BY:	
REVISION:	
DESCRIPTION:	
NO.	

ALUMINUM CLAD WOOD DIRECT SET WINDOW	
CONSULTANTS	MANUFACTURER
W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809)	PARRETT WINDOWS
7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE 561-744-3424	810 2ND AVE. EAST DORCHESTER, WI 54425 (715) 654-6444

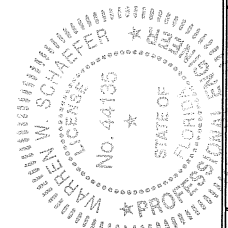
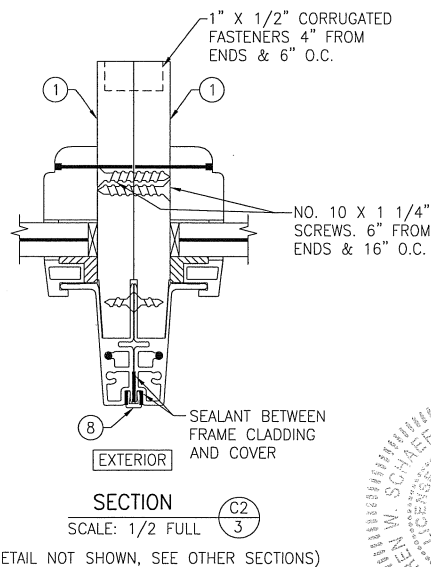
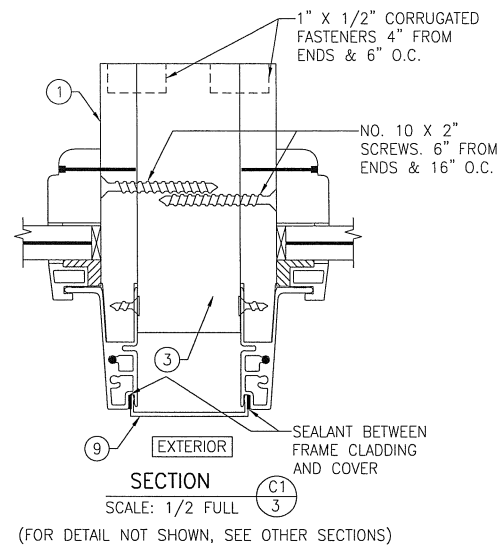
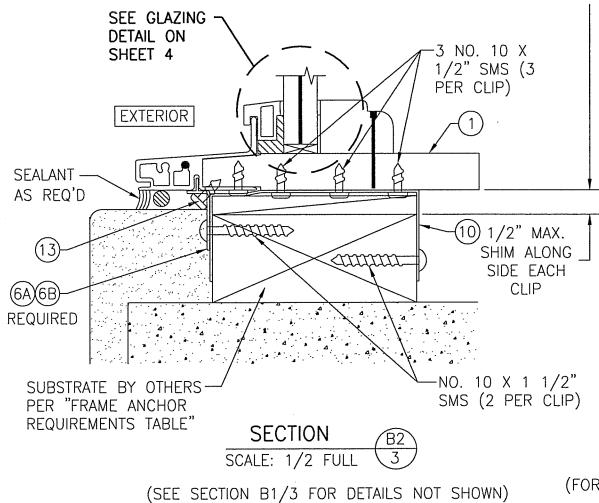
CERTIFICATION	REV.
JAN 09 2015	B
DRAWING NO.	SHEET NO.
1419	2 OF 5



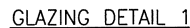
SHIM SPACE NOTE: UP TO A 1/2" SHIM SPACE MAY BE USED IF FRAME SCREWS ARE 1/4" CONCRETE SCREWS OR NO. 14 SCREWS



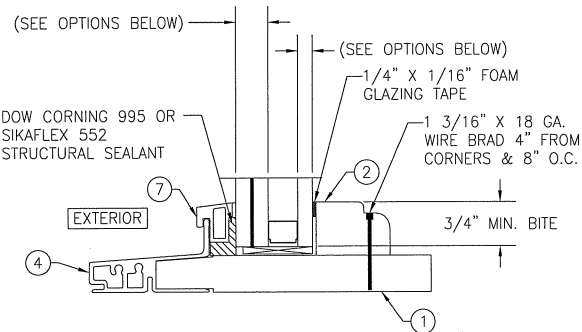
ALL SHIMS SHALL BE MIN. 1 1/2" WIDE X 3 1/2" DEEP



DRAWN BY: S.T.R.		CHECKED BY: W.W.S.	
PLOT: 1=2		DATE: 4/28/05	
NO.	REVISION	DESCRIPTION	DATE
1			
2			
3			
ALUMINUM CLAD WOOD DIRECT SET WINDOW MANUFACTURER: PARRETT WINDOWS 810 2ND AVE. EAST DORCHESTER, WI 54425 (715) 654-6444 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 09 2015	REV.	B
DRAWING NO.	1419	SHEET NO.	3 OF 5



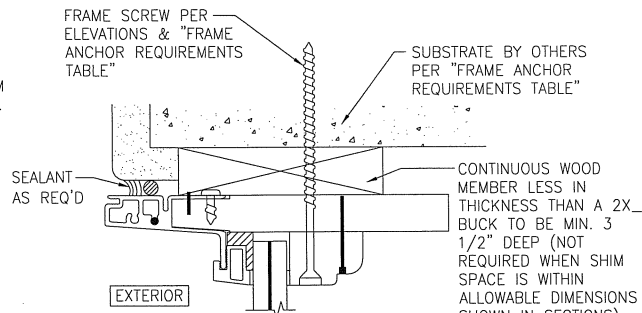
OPTION 4: 9/16" THICK LAMINATED GLASS (1/4" AN/0.10
EASTMAN CHEM. CO. SAFLEX HP/1/4" AN)



GLAZING DETAIL 2

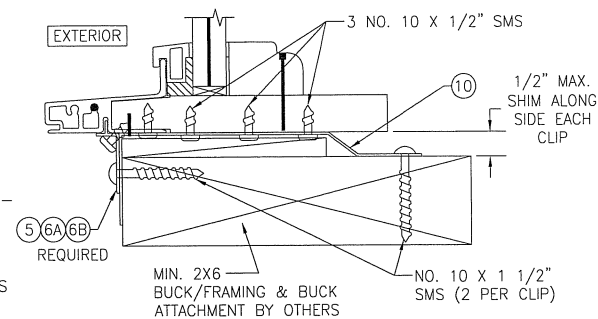
- OPTION 5: 1 5/16" THICK I.G. LAMINATED GLASS (1/4" H.S./0.075" EASTMAN CHEM. CO. SAFLEX CP/1/4" H.S. EXTERIOR; 1/2" AIR SPACE; 1/4" H.S. OR TEMPERED SINGLE PANE INTERIOR).
- OPTION 6: 1 5/16" THICK I.G. LAMINATED GLASS (1/4" H.S./0.075" EASTMAN CHEM. CO. SAFLEX HP/1/4" H.S. EXTERIOR; 1/2" AIR SPACE; 1/4" H.S. OR TEMPERED SINGLE PANE INTERIOR).
- OPTION 7: 1 5/16" THICK I.G. LAMINATED GLASS (1/4" AN/0.075" EASTMAN CHEM. CO. SAFLEX CP/1/4" AN EXTERIOR; 1/2" AIR SPACE; 1/4" H.S. OR TEMPERED SINGLE PANE INTERIOR).
- OPTION 8: 1 5/16" THICK I.G. LAMINATED GLASS (1/4" AN/0.10" EASTMAN CHEM. CO. SAFLEX HP/1/4" AN EXTERIOR; 1/2" AIR SPACE; 1/4" H.S. OR TEMPERED SINGLE PANE INTERIOR).

NOTE: WHEN REQUIRED TO MEET FLORIDA BUILDING CODE SAFETY GLASS REQUIREMENTS, THE INTERIOR SINGLE PANE OF GLASS SHALL BE TEMPERED.



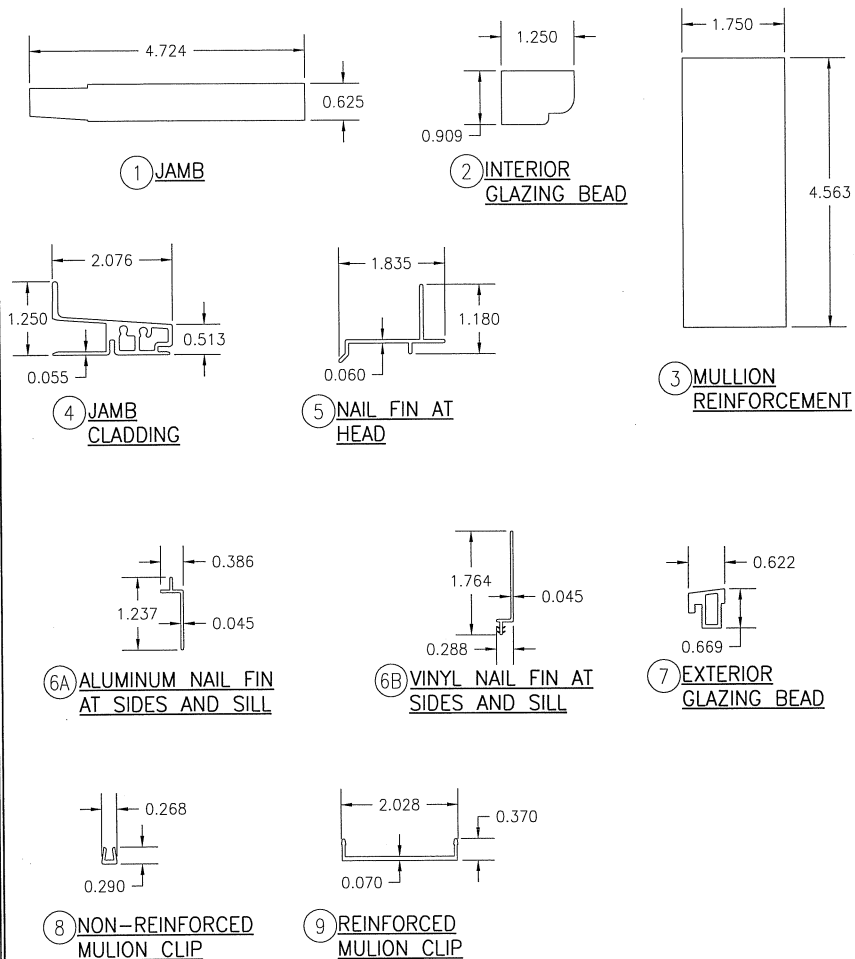
OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL CLIP MOUNT CONDITION
SILL SECTION SHOWN, HEAD & SIDES SIMILAR

DRAWING NO. 1419	SHEET NO. 4 OF 5	REVISED BY B	DATE 1/28/05	CHECKED BY W.W.S.	DRAWN BY S.T.R.
					PLOT:
					I=2
CERTIFICATION JAN 09 2015	DRAWING TITLE ALUMINUM CLAD WOOD DIRECT SET WINDOW				
	CONSULTANTS W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809)		MANUFACTURER PARRETT WINDOWS		
	7480 150TH COURT NORTH		810 2ND AVE. EAST		
	PALM BEACH GARDENS, FL 33418		DORCHESTER, WI 54425		
			(715) 654-6444		
	WARREN W. SCHAEFFER, P.E.				



ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1	JAMB	*RADIATA PINE
2	INTERIOR GLAZING BEAD	*RADIATA PINE
3	MULLION REINFORCEMENT	MAHOGANY
4	JAMB CLADDING	6063-T5 ALUMINUM
5	NAIL FIN AT HEAD	6063-T5 ALUMINUM (SEE FOOTNOTE 1 BELOW)
6A	NAIL FIN AT SIDES AND SILL	6063-T5 ALUMINUM (SEE FOOTNOTE 1 BELOW)
6B	ALTERNATE NAIL FIN AT SIDES AND SILL	VINYL (SEE FOOTNOTE 1 BELOW)
7	EXTERIOR GLAZING BEAD	6063-T5 ALUMINUM
8	NON-REINFORCED MULLION CLIP	6063-T5 ALUMINUM
9	REINFORCED MULLION CLIP	6063-T5 ALUMINUM
10	FRAME MOUNTING CLIP	0.05" X 1 1/2" X 6 1/2" MIN. 33 KSI GALV. STEEL
FASTENERS		
12	#6 X 1 5/8" SQ. HD SCREW	4" FROM CORNERS AND 10" O.C.
13	#10 X 1/2" P.H. OR F.H. SCREW	2" FROM CORNERS AND 10" O.C.
14	7/16" X 1/2" 16 GA. STAPLE	4" FROM CORNERS AND 8" O.C.

NOTE: WOOD USED IN TESTING WAS RADIATA PINE. OTHER WOOD SPECIES APPLICABLE FOR USE WITH THIS PRODUCT ARE THOSE WITH A SPECIFIC GRAVITY OF 0.43 AND MODULUS OF ELASTICITY OF 1,200,000 PSI OR GREATER. ALL WOOD IS MINIMUM GRADE 2 MILLED BY PARRETT WINDOWS TO SELECT.

FOOTNOTE 1: NAILING FIN IS ONLY REQUIRED WITH THE CLIP MOUNT CONDITIONS. IT IS NOT REQUIRED WITH THE SHEAR SCREW MOUNT CONDITIONS AND IS THUS OPTIONAL WITH THE SHEAR SCREW MOUNT CONDITIONS.

DRAWN BY: S.T.R.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 4/28/05	
DATE	BY	REVISION	DESCRIPTION
NO.	NO.	NO.	NO.
DRAWING TITLE: ALUMINUM CLAD WOOD DIRECT SET WINDOW			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE 561-744-3424			
MANUFACTURER: PARRETT WINDOWS 810 2ND AVE. EAST DORCHESTER, WI 54425 (715) 654-6444			
CERTIFICATION: JAN 09 2015		WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1419		REV. B	
SHEET NO. 5		OF 5	

