

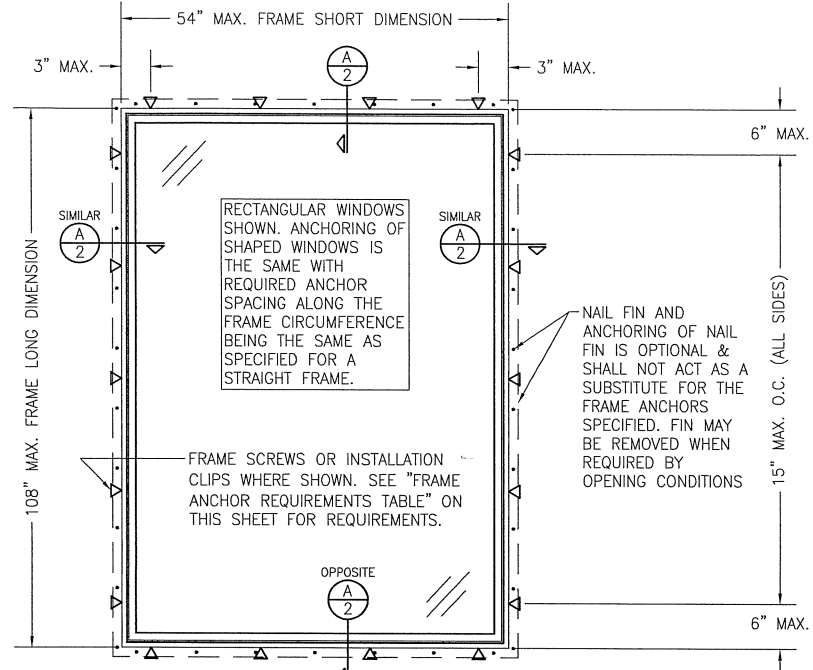
GENERAL NOTES:

1. ALL FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. THESE LARGE MISSILE IMPACT RATED WINDOW INSTALLATIONS ARE IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC).
4. 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.
5. 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.
6. TO THE BEST OF OUR KNOWLEDGE, THE WINDOWS SHOWN HEREIN ARE CERTIFIED & QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/QA ENTITY & SHALL BE LABELED IN ACCORDANCE WITH THE FBC AND THE 9N-3 FLORIDA BUILDING COMMISSION SPECIFICATIONS. WINDOW ASSEMBLY IS NOT PART OF THIS DRAWING AND SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
7. CERTIFICATION OF THESE WINDOW INSTALLATIONS SHALL BE CONSIDERED VOID IF ANY OF THE FOLLOWING APPLY: 1) THEY ARE INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT. 2) IF THEY ARE INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH WINDOW INSTALLATIONS. 3) IF CHANGES HAVE OCCURRED TO THE PRODUCT'S CERTIFICATION ENTITY'S CERTIFICATE THAT CAUSE THESE INSTALLATIONS TO BE INCORRECT OR INCONSISTENT WITH WHAT HAS BEEN TESTED.
8. THE LEAST DESIGN PRESSURE SPECIFIED EITHER IN THIS DRAWING OR IN THE PRODUCTS CERTIFICATION SHALL CONTROL FOR THE INSTALLED WINDOW.
9. THESE DRAWINGS CERTIFY THE WINDOW INSTALLATION ONLY. WATER PROOFING OF THE INSTALLED WINDOWS IS NOT PART OF THIS INSTALLATION CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER &/OR INSTALLER.

INSTALLATION EVALUATION IS BASED ON APPLICABLE ANCHOR STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE FLORIDA BUILDING CODE VERSION CONSIDERED WITH THE 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 THE REFERENCED PRODUCT, PRIOR TO STATING CODE COMPLIANCE WITH THE STATE, THE MANUFACTURER SHALL CONFIRM WITH THE INSTALLATION EVALUATION ENGINEER OF RECORD THAT THE INSTALLATIONS SPECIFIED HERE-IN ARE CURRENT WITH THE THEN CURRENT TESTING, CODE AND APPLICABLE STANDARDS.

ALTERNATE ANCHOR/SUBSTRATE EVALUATION NOTE:

ALL ALTERNATE ANCHORS IN THEIR SPECIFIED SUBSTRATES HAVE BEEN ANALYZED IN ACCORDANCE WITH THEIR APPLICABLE STANDARD(S) AND ARE FOUND TO BE EQUIVALENT TO OR STRONGER THAN THE ANCHOR(S) USED IN TESTING WITH THIS PRODUCT.



EXTERIOR ELEVATION: SINGLE WINDOW

SCALE: 3/4" = 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 (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S. OR S.S.).			

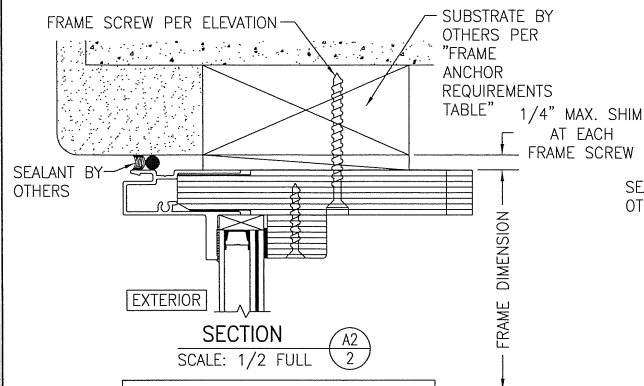
ALLOWABLE DESIGN PRESSURE

+/-55 PSF

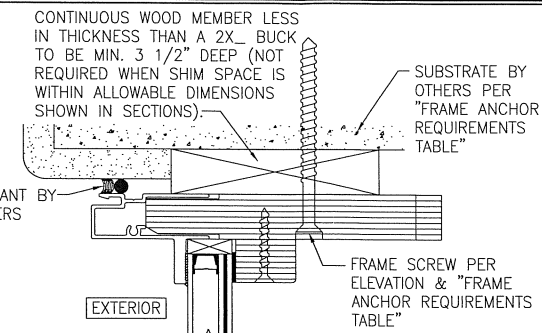
1. PRESSURE SHOWN IN THIS TABLE IS FOR INSTALLATION CONDITIONS ONLY. THE GOVERNING DESIGN PRESSURE ON THE WINDOWS SHALL BE THE LESSER OF THAT SHOWN IN THE INDIVIDUAL WINDOW'S STATE APPROVAL OR THAT SHOWN IN THIS TABLE.
2. APPROVED FOR USE IN WIND ZONES 1, 2 & 3 (WIND SPEEDS 140 MPH & LESS).
3. LONG DIMENSION MAY BE HORIZONTAL OR VERTICAL.



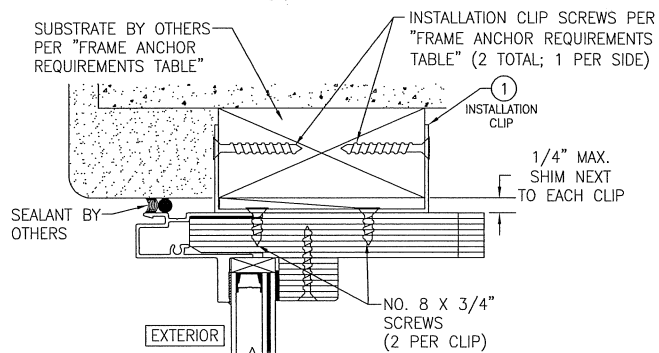
DRAWN BY: K.P.S.	CHECKED BY: W.W.S.
PLOT: 1=16	DATE: 8/16/05
DATE: 11/08/07	BY: W.W.S.
DATE: 06/20/08	BY: W.W.S.
DATE: 06/09/10	BY: W.W.S.
DATE: 06/09/12	BY: W.W.S.
NO. 1	REVISION DESCRIPTION
A1	UPDATE TO PER NEW TESTING
B1	UPDATE TO PRESENT STANDARDS
C1	UPDATE PER NEW TESTING
D1	UPDATE PER NEW TESTING
DRAWING TITLE: Pinnacle Aluminum Clad Impact Radius Direct Set Window	
MANUFACTURER: WINDSOR WINDOWS & DOORS	
900 S. 19TH STREET	
WEST DES MOINES, IA 50265	
800-218-6186	
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.	
7480 150TH COURT NORTH	
PALM BEACH GARDENS, FL 33418	
PHONE: 561-744-3424	
CERTIFICATION: AUG 20 2012	
WARREN W. SCHAEFER, P.E.	
P.E. NO. 44135	
DRAWING NO. 1438	REV. D
SHEET NO. 1	OF 2



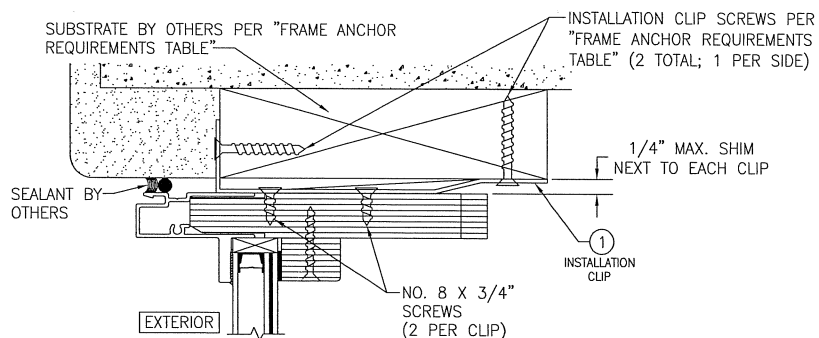
FRAME SCREW MOUNT SHOWN. SEE DETAILS ON THIS SHEET FOR DIRECT MOUNT & CLIP MOUNT DETAILS.



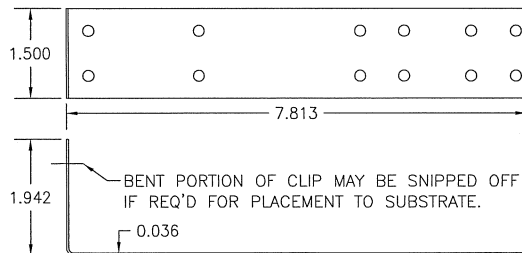
OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



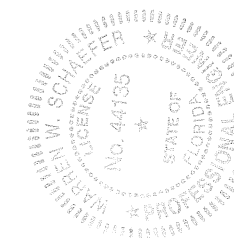
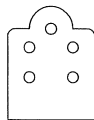
OPTIONAL INSTALLATION CLIP DETAIL 1
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTIONAL INSTALLATION CLIP DETAIL 2
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



① **FRAME INSTALLATION CLIP**
(33 KSI STEEL)



DRAWN BY: T.M.L.		CHECKED BY: W.W.S.	
PLOT: 1-2		DATE: 08/16/05	
NO.	REVISION	DESCRIPTION	DATE
1			
DRAWING TITLE: PINNACLE ALUMINUM CLAD IMPACT RADIUS DIRECT SET WINDOW			
CONSULTANTS:		MANUFACTURER:	
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A.		WINDSOR WINDOWS & DOORS	
7480 150TH COURT NORTH, 33418		900 S. 19TH STREET	
PALM BEACH GARDENS, FL		WEST DES MOINES, IA 50265	
PHONE: 561-744-3624		800-218-6186	
CERTIFICATION:		AUG 20 2012	
WARREN W. SCHAEFER, P.E.		P.E. NO. 44135	
DRAWING NO. 1438		REV. D	
SHEET NO. 2		OF 2	