

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 NON-IMPACT RATED WINDOW SYSTEM 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.

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN 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"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"

INSTALLATION CLIP SCREWS (OPTION 1)

MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	(2) N/A
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	(2) N/A
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	(2) N/A

INSTALLATION CLIP SCREWS (OPTION 2)

MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 X 1 1/2" SMS	1 3/8"	3/4"
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"

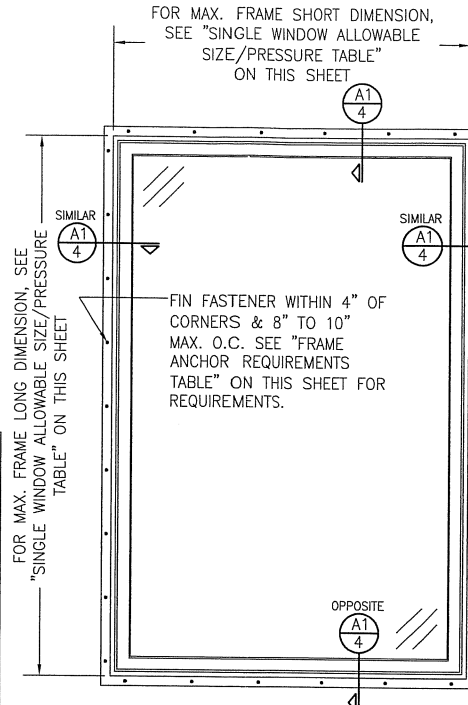
(2) NAILING FIN FASTENERS

MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS OR WOOD SCREW	1 3/8"	1/2"
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	11 GA. ROOFING NAIL	1 5/8"	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"

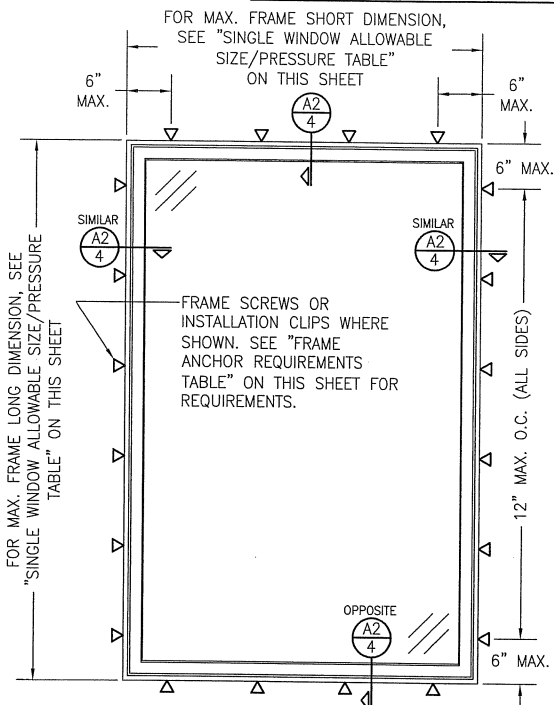
- (1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S. OR S.S.).
- (2) WHEN SCREWS ARE USED WITH THE NAIL FIN, THEY MUST BE A WAFFLE HEAD SCREW OR HAVE A FLAT WASHER AT THE SCREW HEAD.

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: K.P.S.
PLOT: 1=18
CHECKED BY: W.W.S.
DATE: 02/04/04



**EXTERIOR ELEVATION:
SINGLE WINDOW**
SCALE: 3/4" = 1'-0"
(NAIL FIN MOUNT CONDITION)



**EXTERIOR ELEVATION:
SINGLE WINDOW**
SCALE: 3/4" = 1'-0"
(FRAME SCREW & CLIP MOUNT CONDITION)

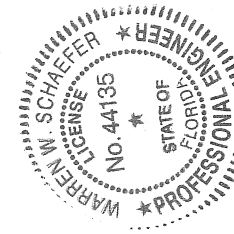
ALTERNATE ANCHOR/SUBSTRATE EVALUATION NOTE:

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.

SINGLE WINDOW ALLOWABLE SIZE/PRESSURE TABLE

MAX. WINDOW FRAME LONG DIMENSION (IN.)	MAX. WINDOW FRAME SHORT DIMENSION (IN.)	ALLOWABLE PRESSURE (+/- PSF)
78	72	40
78	54	50
60	60	50
72	48	65

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. LONG DIMENSION MAY BE HORIZONTAL OR VERTICAL



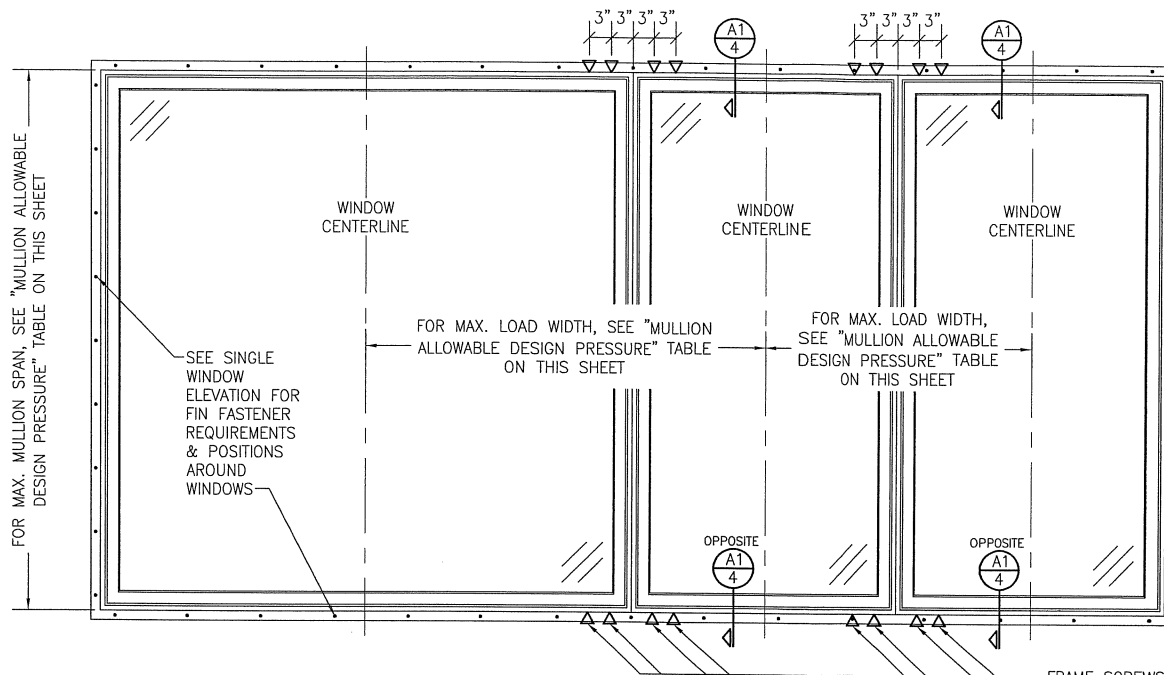
NO.	REVISION DESCRIPTION	BY	DATE
A1	UPDATE TO 2004 CODE COMPLIANT	WWS	09/10/05
B1	REVISED TO NEW TESTING	WWS	02/07/08
C1	UPDATE TO PRESENT STANDARDS	WWS	06/27/08
D1	REVISED TO NEW TESTING	WWS	03/11/10
E1	UPDATE FOR NEW TESTING	WWS	12/12/13

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. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

CERTIFICATION
DEC 23 2013
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO. 1270
SHEET NO. 1 OF 5
REV. E



**EXTERIOR ELEVATION:
MULTIPLE FIXED WINDOWS**

SCALE: 3/4" = 1'-0"
(NAIL FIN MOUNT CONDITION)

FRAME SCREWS OR
INSTALLATION CLIPS WHERE
SHOWN AT MULLION ENDS.
SEE "FRAME ANCHOR
REQUIREMENTS TABLE" ON
SHEET 1 FOR REQUIREMENTS.

**MULLION ALLOWABLE
DESIGN PRESSURE**

MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)
78	54	40
72	36	50

NOTES:

1. SEE ELEVATIONS FOR DIMENSIONING OF LOAD WIDTH.
2. 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.
3. 3 WINDOWS COMBINED ARE SHOWN. LESS OR MORE THAN 3 WINDOWS MAY BE COMBINED INTO ONE OPENING, PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLION.

DRAWN BY: K.P.S. CHECKED BY: W.W.S.
PLOT: 1-16 DATE: 02/04/04

NO.	REVISION DESCRIPTION	DATE

DRAWING TITLE
PINNACLE ALUMINUM CLAD WOOD NON-IMPACT FIXED CASEMENT WINDOW

MANUFACTURER
WINDSOR WINDOWS & DOORS
900 S. 19TH STREET
WEST DES MOINES, IA 50265
800-218-6186

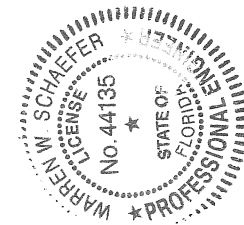
CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)
7480 130TH COURT NORTH, 33418
PALM BEACH GARDENS, FL
PHONE: 301-744-3424

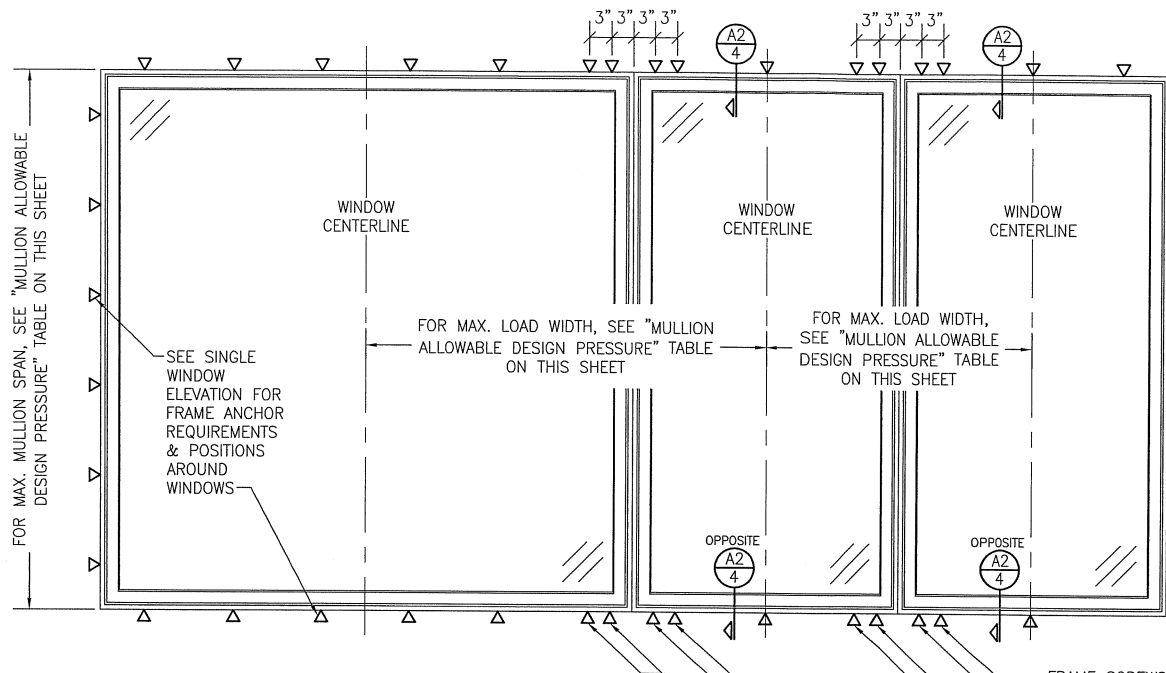
CERTIFICATION
DEC 23 2013
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO.
1270

REV.
E

SHEET NO.
2 OF 5





**EXTERIOR ELEVATION:
MULTIPLE FIXED WINDOWS**
SCALE: 3/4" = 1'-0"
(FRAME SCREW & CLIP MOUNT CONDITION)

FRAME SCREWS OR
INSTALLATION CLIPS WHERE
SHOWN AT MULLION ENDS.
SEE "FRAME ANCHOR
REQUIREMENTS TABLE" ON
SHEET 1 FOR REQUIREMENTS.

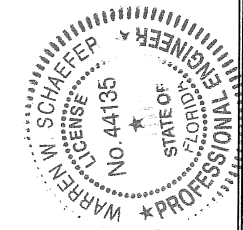
MULLION ALLOWABLE DESIGN PRESSURE

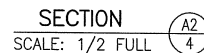
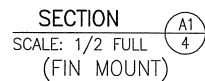
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/- PSF)
78	54	40
72	36	50

NOTES:

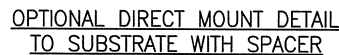
1. SEE ELEVATIONS FOR DIMENSIONING OF LOAD WIDTH.
2. PRESSURE SHOWN IN THIS TABLE IS FOR INSTALLATION CONDITIONS ONLY. THE GOVERNING DESIGN PRESSURE ON THE WINDOWS SHALL BE THE LESSER OF THAT SHOWN IN THE INDIVIDUAL WINDOW'S STATE APPROVAL OR THAT SHOWN IN THIS TABLE.
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DRAWN BY: K.P.S.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 02/04/04	
DATE	BY	REVISION	DESCRIPTION
<p>DRAWING TITLE PINNACLE ALUMINUM CLAD WOOD NON-IMPACT FIXED CASEMENT WINDOW</p> <p>CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE 561-744-3424</p> <p>MANUFACTURER WINDSOR WINDOWS & DOORS 900 S. 19TH STREET WEST DES MOINES, IA 50265 800-218-6186</p>			
<p>CERTIFICATION DEC 23 2013 WARREN W. SCHAEFER, P.E. P.E. NO. 44135</p>			
DRAWING NO. 1270		REV. E	
SHEET NO. 3		OF 5	

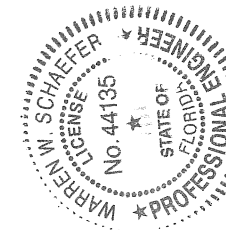





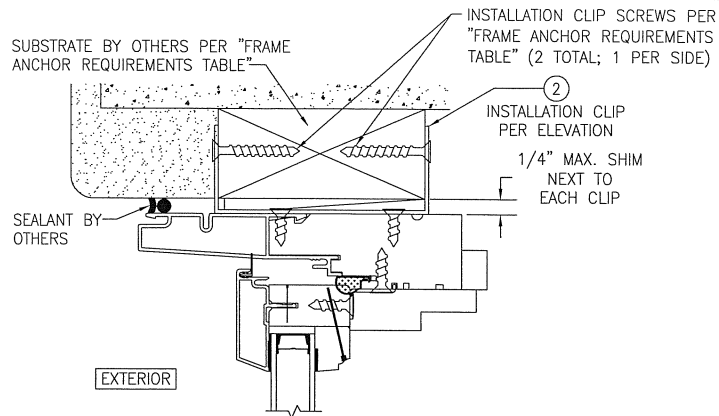
FRAME SCREW MOUNT SHOWN. SEE DETAILS
ON THIS SHEET FOR DIRECT MOUNT DETAIL
& SHEET 5 FOR CLIP MOUNT DETAILS.



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

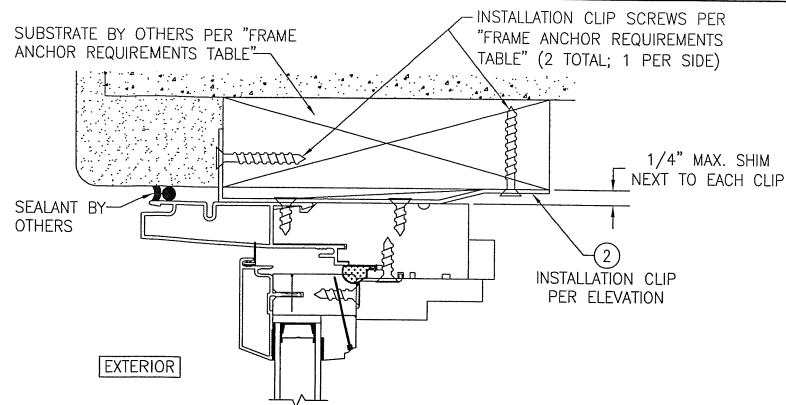


DRAWING NO. 1270	REV. F	SHEET NO. 4 OF 5	CERTIFICATION  DEC 9 2013 WARDEN W. SCHAEFER P.E. PHONE: 581-744-3348	DRAWING TITLE PINNACLE ALUMINUM CLAD WOOD NON-IMPACT FIXED CASEMENT WINDOW	CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 1500 NORTH COURT PALMDALE, CALIFORNIA 93518 PHONE: 581-744-3424	MANUFACTURER WINDSOR WINDOWS & DOORS 900 S. 19TH STREET WEST DES MOINES, IA 50265 800-218-6186	NO. REVISION DESCRIPTION BY DATE			PLOT: 1=2	DRAWN BY K.P.S.	CHECKED BY W.W.S.	DATE: 02/04/04



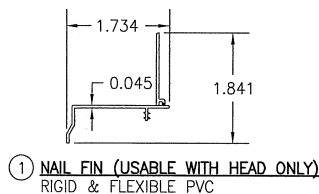
INSTALLATION CLIP DETAIL (OPTION 1)

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

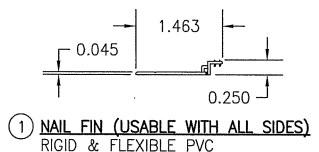


INSTALLATION CLIP DETAIL (OPTION 2)

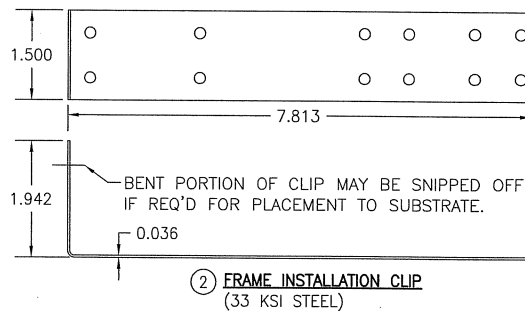
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



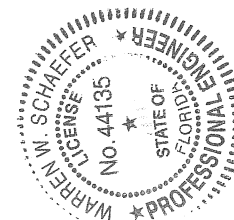
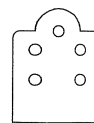
① **NAIL FIN (USABLE WITH HEAD ONLY)**
RIGID & FLEXIBLE PVC



① **NAIL FIN (USABLE WITH ALL SIDES)**
RIGID & FLEXIBLE PVC



② **FRAME INSTALLATION CLIP**
(33 KSI STEEL)



DRAWN BY: K.P.S.		CHECKED BY: W.M.S.	
PLOT: 1=2		DATE: 02/04/04	
NO.	REVISION	DESCRIPTION	DATE
1			
2			
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6			
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10			
DRAWING TITLE: PINNACLE ALUMINUM CLAD WOOD NON-IMPACT FIXED CASEMENT WINDOW			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)			
7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418			
PHONE: 561-744-3624			
MANUFACTURER: WINDSOR WINDOWS & DOORS			
900 S. 19TH STREET			
WEST DES MOINES, IA 50265			
800-218-6186			
CERTIFICATION: DEC 9 2013			
WARREN W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1270		REV. E	
SHEET NO. 5		OF 5	