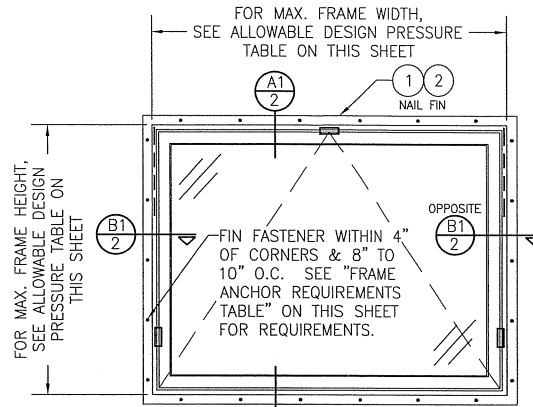


# GENERAL NOTES:

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.

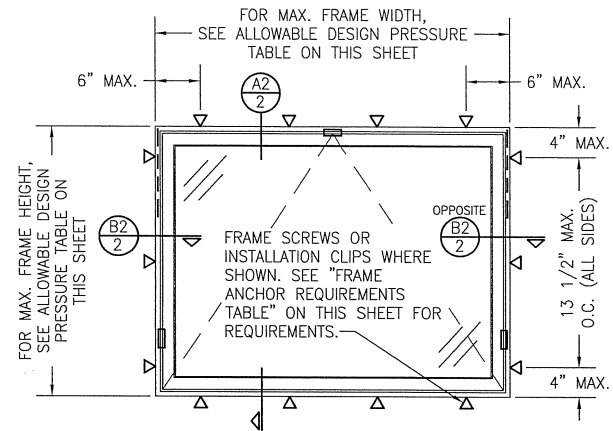
## ALTERNATE ANCHOR/SUBSTRATE EVALUATION NOTE:

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"  
(NAIL FIN MOUNT CONDITION)



**EXTERIOR ELEVATION:  
SINGLE WINDOW**

SCALE: 3/4" = 1'-0"  
(FRAME SCREW & CLIP MOUNT CONDITION)

## FRAME ANCHOR REQUIREMENTS TABLE

| OPENING TYPE<br>(SUBSTRATE)                          | FRAME/CLIP/NAIL FIN TO<br>OPENING FASTENER TYPE | MINIMUM<br>EMBED | MINIMUM<br>EDGE DIST. |
|--|---|------------------|-----------------------|
| FRAME SCREWS   |   |                  |                       |
| MIN. 2X4 WOOD FRAME OR BUCK<br>(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                             |   |                  |                       |
| MIN. 2X6 WOOD FRAME OR BUCK<br>(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<br>(MIN. GR. 3 & G=0.55) | NO. 8 SMS OR WOOD SCREW                         | 1 3/8"           | 1/2"                  |
| MIN. 2X4 WOOD FRAME OR BUCK<br>(MIN. GR. 3 & G=0.55) | 11 GA. ROOFING NAIL                             | 1 8/8"           | 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, ELCO CRETE-FLEX, ITW RAMSET/RED HEAD TAPCONS OR HILTI KWIK-CON II (HARDENED STEEL 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.

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.

## ALLOWABLE DESIGN PRESSURE

| MAX.<br>FRAME<br>WIDTH<br>(IN.) | MAX.<br>FRAME<br>HEIGHT<br>(IN.) | ALLOWABLE<br>PRESSURE<br>(+/- PSF) |
|---------------------------------|----------------------------------|------------------------------------|
| 48                              | 36                               | 50                                 |
| 60                              | 60                               | 30                                 |

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.

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.  
CHECKED BY: W.W.S.  
PLOT: 1=16  
DATE: 02/10/04

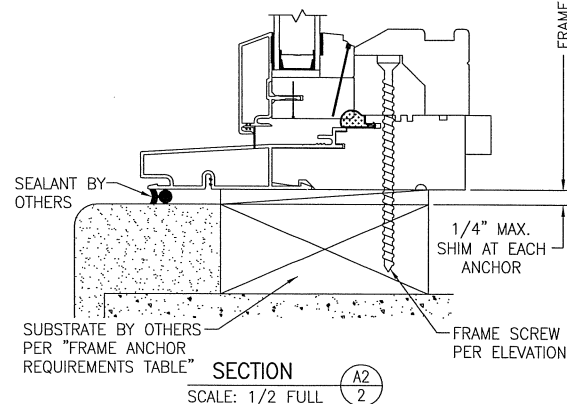
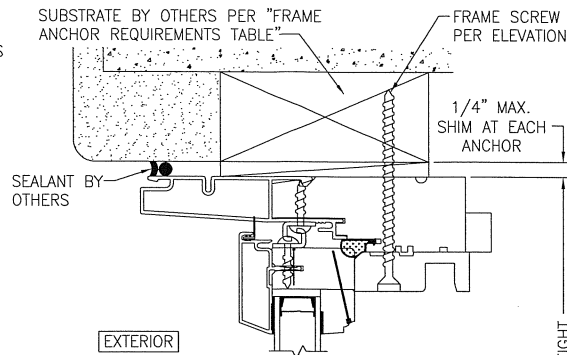
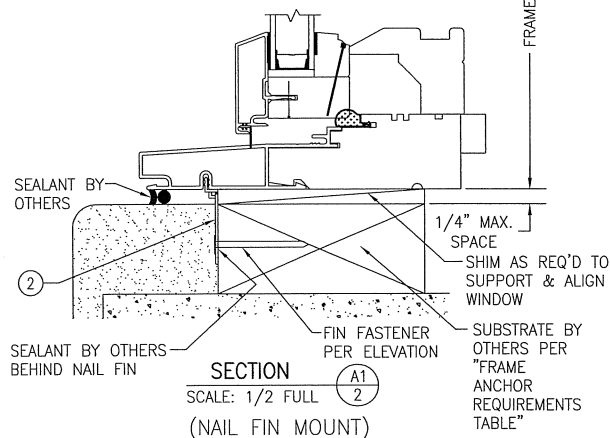
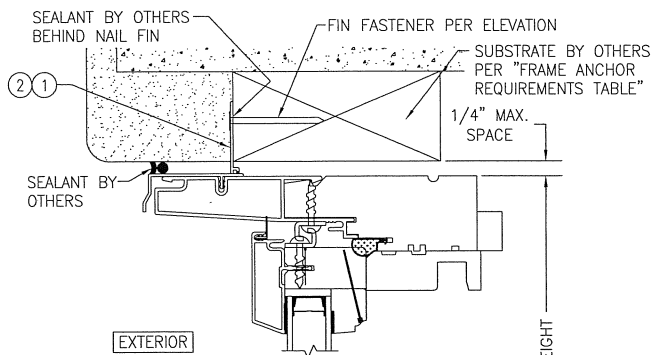
| NO. | REVISION                      | DESCRIPTION | DATE     | BY |
|-----|-------------------------------|-------------|----------|----|
| 01  | UPDATE TO 2004 CODE COMPLIANT | WWS         | 08/10/05 |    |
| 02  | UPDATE TO PRESENT STANDARDS   | WWS         | 05/24/08 |    |
| 03  | UPDATE FOR NEW TESTING        | WWS         | 03/09/10 |    |
| 04  | UPDATE FOR NEW TESTING        | WWS         | 07/09/12 |    |

**PINNACLE ALUMINUM CLAD WOOD NON-IMPACT AWNING WINDOW**  
MANUFACTURER  
WINDSOR WINDOWS & DOORS  
900 S. 19TH STREET  
WEST DES MOINES, IA 50265  
800-218-6186

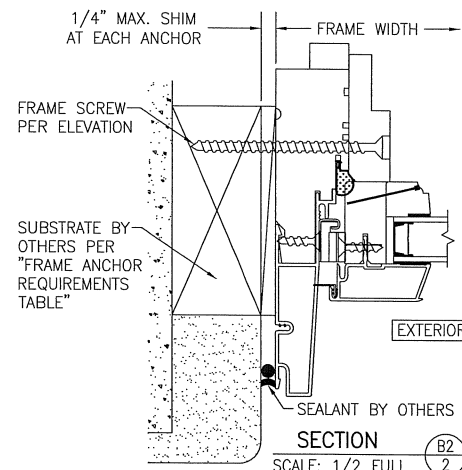
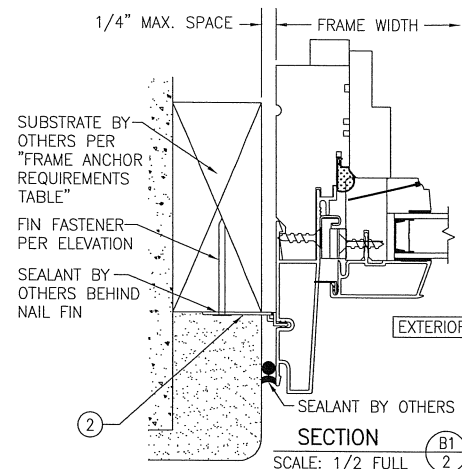
CONSULTANTS  
W. W. SCHAEFER ENGINEERING  
& CONSULTING, P.A. (CA 6809)  
7480 130TH COURT NORTH  
PALM BEACH GARDENS, FL 33418  
PHONE: 301-744-3424

DRAWING TITLE  
PINNACLE ALUMINUM CLAD WOOD NON-IMPACT AWNING WINDOW  
CERTIFICATION  
JUL 16 2012  
WARREN W. SCHAEFER, P.E.  
P.E. NO. 44135

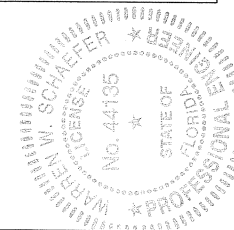
DRAWING NO. 1271  
REV. D  
SHEET NO. 1 OF 3



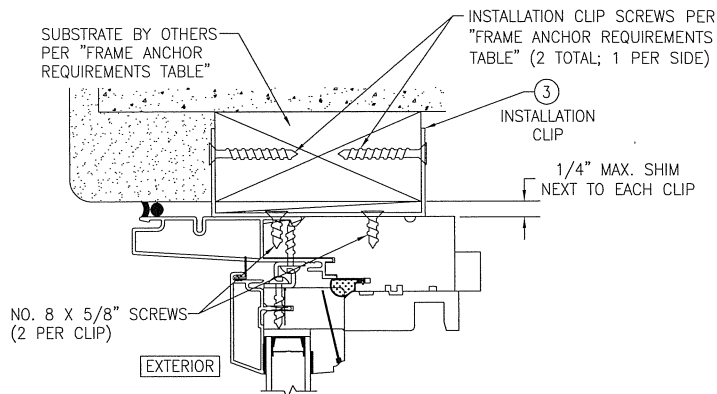
FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 3 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.



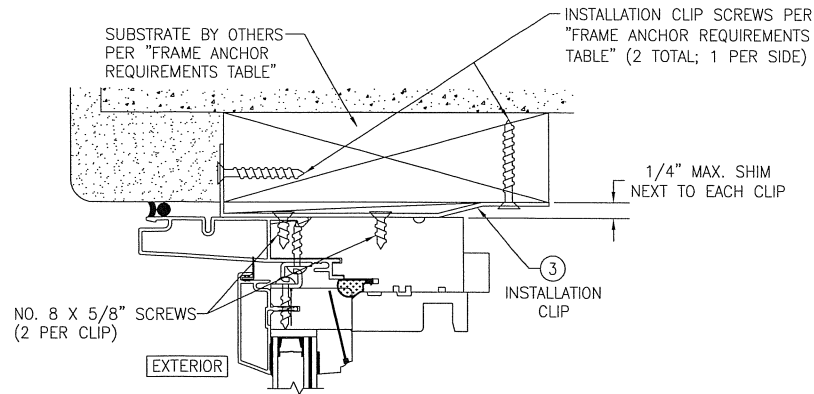
FRAME SCREW MOUNT SHOWN. SEE DETAILS ON SHEET 3 FOR DIRECT MOUNT & CLIP MOUNT DETAILS.



|   |          |                    |      |
|---|----------|--------------------|------|
| DRAWN BY: K.P.S.  |          | CHECKED BY: W.W.S. |      |
| PLOT: 1-2   |          | DATE: 02/10/04     |      |
| NO.   | REVISION | DESCRIPTION        | DATE |
| 1   |          |                    |      |
| 2   |          |                    |      |
| DRAWING TITLE: PINNACLE ALUMINUM CLAD WOOD NON-IMPACT AWNING WINDOW   |          |                    |      |
| CONSULTANTS: W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809) |          |                    |      |
| 7480 135TH COURT NORTH, PALM BEACH GARDENS, FL 33418                  |          |                    |      |
| PHONE: 561-744-3428   |          |                    |      |
| MANUFACTURER: WINDOW WINDOWS & DOORS                                  |          |                    |      |
| 900 S. 19TH STREET, WEST DES MOINES, IA 50265                         |          |                    |      |
| 800-218-6186  |          |                    |      |
| CERTIFICATION: JUL 10 2012  |          |                    |      |
| WARREN W. SCHAEFFER, P.E.   |          |                    |      |
| P/E NO. 44135   |          |                    |      |
| DRAWING NO. 1271  |          | REV. D             |      |
| SHEET NO. 2   |          | OF 3               |      |

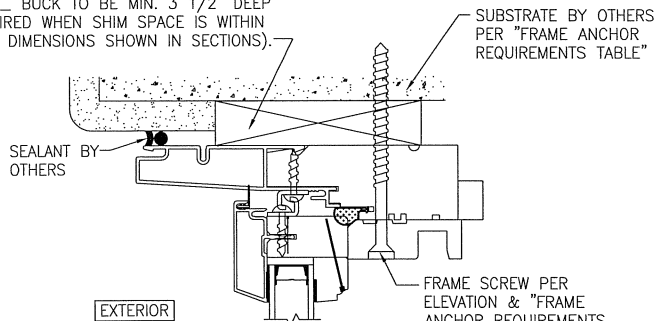


**OPTIONAL INSTALLATION CLIP DETAIL 1**  
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)

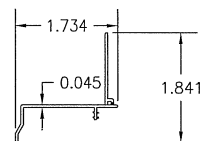


**OPTIONAL INSTALLATION CLIP DETAIL 2**  
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)

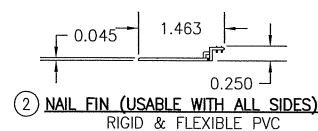
CONTINUOUS WOOD MEMBER LESS IN THICKNESS THAN A 2X BUCK TO BE MIN. 3 1/2" DEEP (NOT REQUIRED WHEN SHIM SPACE IS WITHIN ALLOWABLE DIMENSIONS SHOWN IN SECTIONS).



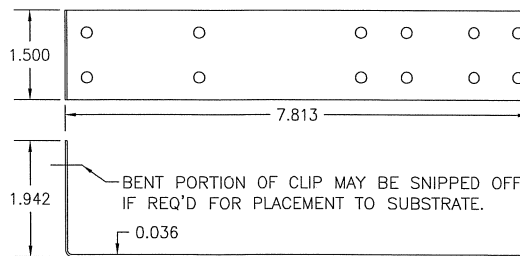
**OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER**  
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)



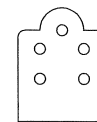
**① NAIL FIN (USABLE WITH HEAD ONLY)**  
RIGID & FLEXIBLE PVC



**② NAIL FIN (USABLE WITH ALL SIDES)**  
RIGID & FLEXIBLE PVC



**③ FRAME INSTALLATION CLIP**  
(33 KSI STEEL)



|  |  |
|--|--|
| DRAWN BY:<br>K.P.S.  | CHECKED BY:<br>W.W.S.  |
| PLOT:<br>1=2   | DATE:<br>02/10/04  |
| DATE   |  |
| BY   |  |
| REVISION DESCRIPTION   |  |
| NO.  |  |
| DRAWING TITLE<br>PINNACLE ALUMINUM CLAD WOOD NON-IMPACT AWNING WINDOW  | MANUFACTURER<br>WINDSOR WINDOWS & DOORS<br>900 S. 19TH STREET<br>WEST DES MOINES, IA 50265<br>800-218-6186 |
| CONSULTANTS<br>W. W. SCHAEFER ENGINEERING<br>& CONSULTING, P.A. (CA 6809)<br>7480 1550TH COURT NORTH<br>PALM BEACH, FL 33418<br>PALM PHONE: 561-744-3424 |  |
| CERTIFICATION<br>JUL 10 2012<br>WARREN W. SCHAEFER, P.E.<br>P.E. NO. 44135   |  |
| DRAWING NO.<br>1271  | REV.<br>D  |
| SHEET NO.<br>3 OF 3  |  |