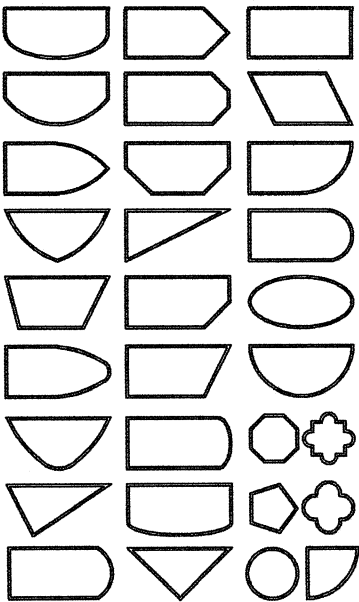


GENERAL NOTES:

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 REFERENCEING 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/QA ENTRY & 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.

APPROVED SHAPES



NOTES:

1. OTHER SHAPES MAY APPLY PROVIDING THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION PER CORNER DETAILS.
2. ALL UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE LOAD TABLE DIMENSIONS (SEE SHEET 2) & BE GOVERNED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE UNIT SIZE IN THE LOAD TABLE.
3. 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

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"
C-90 CMU/2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/4"	2"
(2) INSTALLATION CLIP SCREWS (STANDARD BENT CONDITION)			
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 (ALTERNATE STRAIGHT CONDITION)			
MIN. 2X6 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"

- (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) STANDARD BENT CLIP INSTALLATION SCREWS SHALL BE POSITIONED WITHIN 1/4" OF THE BUCK/SUBSTRATE EDGE AND, IF INTO WOOD, ANGLED 20 TO 30 DEGREES INTO THE BUCK.

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. DATE: 12/20/03

W.M.S.

CHECKED BY: DATE: 12/20/03

NO.	REVISION DESCRIPTION	BY	DATE
D1	UPDATE TO CURENT STANDARDS	WRM	12/08/11
E1	UPDATE PER NEW TESTING	WRM	02/14/12
F1	UPDATE GLAZING DETAIL	WRM	09/16/13
G1	CHANGE PROFILES & TO A STATE	WWS	04/12/16
APPROVAL			
H1	UPDATED GLAZING DETAILS & OMIT MONOLITHIC GLASS OPTIONS	WWS	07/18/22



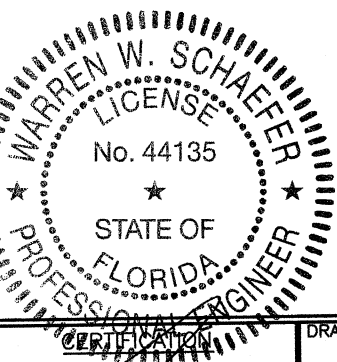
PELLA CORPORATION
102 MAIN STREET
PELLA, IA 50219
641-621-1000

MANUFACTURER

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-346-5638

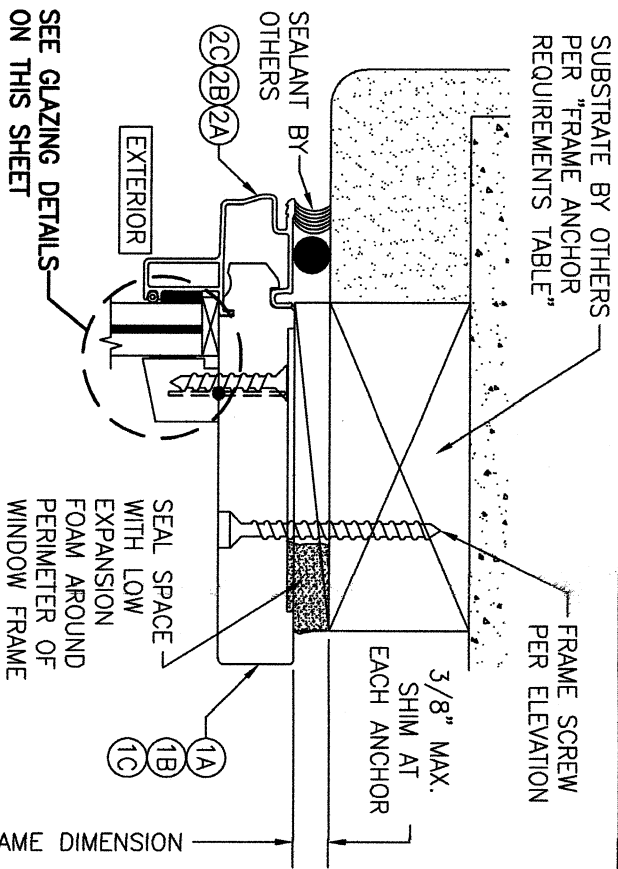
DRAWING TITLE

ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS



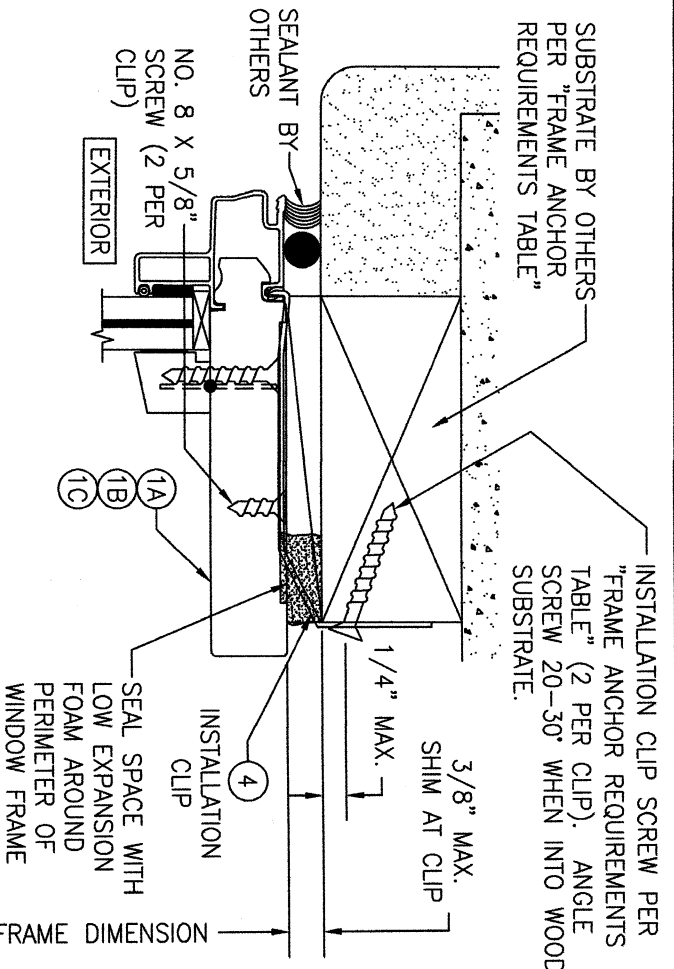
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING NO.	1287	REV.	H
SHEET NO.	1	OF	4

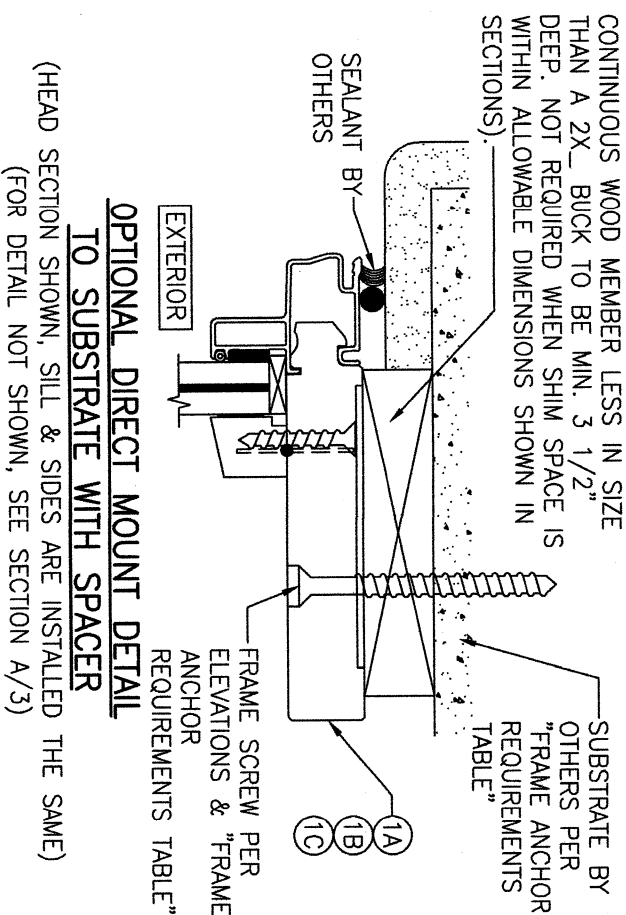


SECTION A-3
SCALE: 1/2 FULL

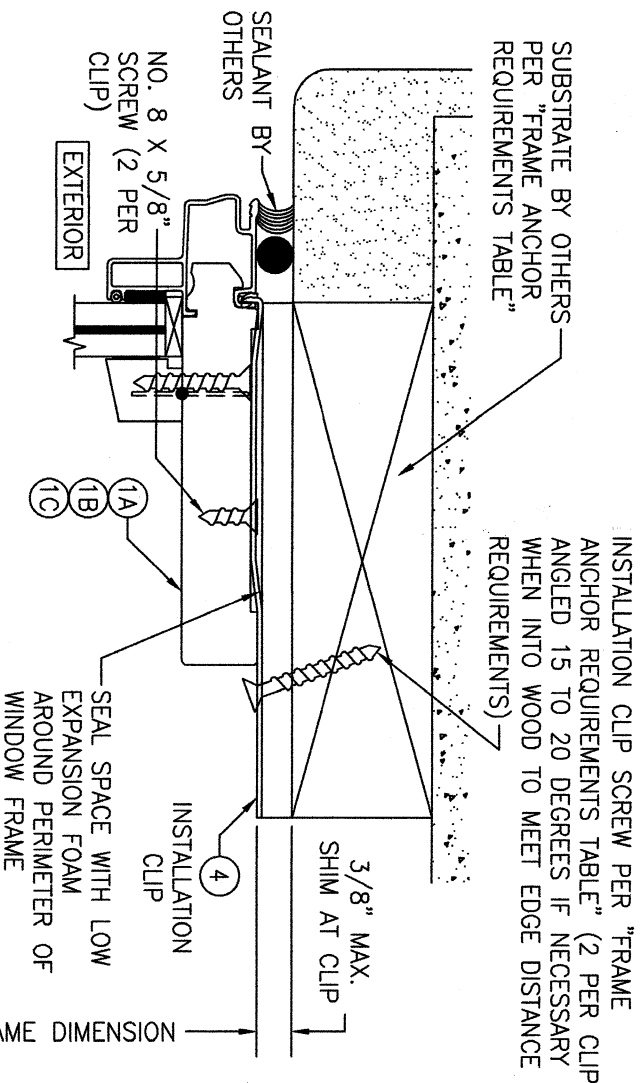
FRAME SCREW MOUNT SHOWN. SEE DETAILS ON THIS SHEET FOR DIRECT MOUNT & CLIP MOUNT DETAILS.



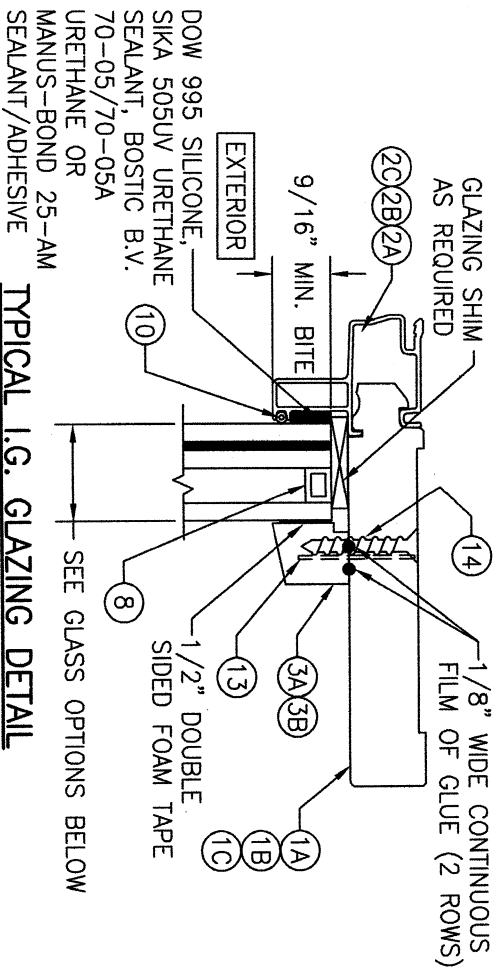
STANDARD INSTALLATION CLIP DETAIL
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE SECTION A/3)



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER
(HEAD SECTION SHOWN, SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE SECTION A/3)



ALTERNATE INSTALLATION CLIP DETAIL
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE SECTION A/3)



TYPICAL I.G. GLAZING DETAIL

GLASS OPTIONS:

- GLASS OPTION 1: 1" THICK I.G. GLASS (3/16" AN./0.09 KURARAY SG/3/16" HT. ST. EXTERIOR, 3/8" SPACER; 3/16" TEMP. INTERIOR)
- GLASS OPTION 2: 1" THICK I.G. GLASS (3/16" AN./0.09 KURARAY BUTACITE PVB/3/16" AN. EXTERIOR; 3/8" SPACER; 3/16" TEMP. INTERIOR)
- GLASS OPTION 3: 1" THICK I.G. GLASS (3/16" HT. ST./0.09 KURARAY SG/3/16" HT. ST. EXTERIOR, 3/8" SPACER; 3/16" TEMP. INTERIOR)
- GLASS OPTION 4: 1 1/4" THICK I.G. GLASS (1/4" AN./0.09 KURARAY SG/1/4" AN. EXTERIOR, 3/8" SPACER; 1/4" TEMP. INTERIOR)
- GLASS OPTION 5: 1 1/4" THICK I.G. GLASS (1/4" HT. ST./0.09 KURARAY SG/1/4" HT. ST. EXTERIOR, 3/8" SPACER; 1/4" TEMP. INTERIOR)

NOTE: KURARAY WAS PREVIOUSLY DUPONT.

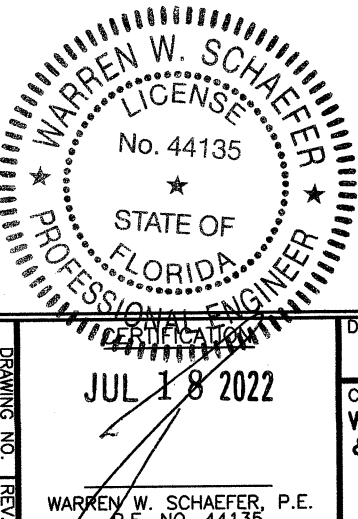
SETTING BLOCK REQUIREMENTS: 0.1" TO 0.175" THICK FLEXIBLE PVC SETTING BLOCKS REQUIRED AT SILL 1" TO 5" FROM GLASS CORNERS AND MAX. 20" O.C.

NO.	REVISION DESCRIPTION	BY	DATE
1-2			



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102 MAIN STREET
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641-621-1000

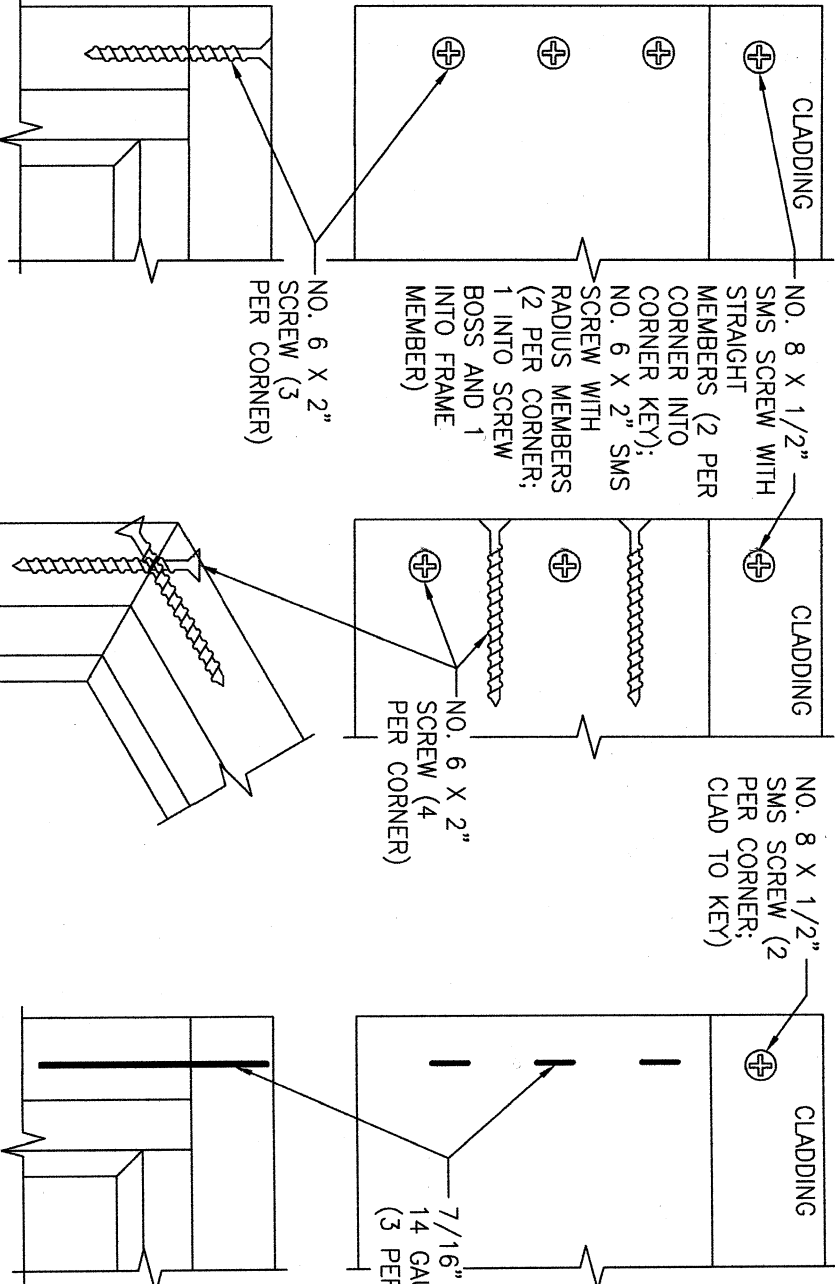
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
26376 NADIR ROAD; UNIT 309
PUNTA GORDA, FL 33983
PHONE: 561-346-5638



DRAWING NO. 1287
SHEET NO. 3 OF 4

ITEM #	ITEM DESCRIPTION	MANUFACTURER/NOTES
PARTS		
1A	RECTANGULAR & ANGLED WINDOW FRAME	WOOD
1B	RADIUS FRAME	WOOD
1C	RADIUS WINDOW SILL	WOOD
2A	FRAME CLADDING FOR RECTANGULAR & ANGLED WINDOW	6063-T6 ALUMINUM
2B	FRAME CLADDING FOR RADIUS FRAME	6063-F ALUMINUM
2C	FRAME CLADDING FOR RADIUS WINDOW SILL	6063-T6 ALUMINUM
3A	GLAZING BEAD (RECTANGULAR OR ANGLED)	WOOD
3B	GLAZING BEAD (RADIUS)	WOOD
4	INSTALLATION CLIP	50 KSI STEEL
5	CORNER REINFORCEMENT BRACKET	MIN. 33 KSI GALV. METAL
6	RECTANGULAR WINDOW CORNER KEY	NYLON
7	ANGLED FRAME CORNER KEY	NYLON
8	3/8" SPACER WITH 0.0045" WALL THICKNESS	STAINLESS STEEL
SEALS & SEALANTS		
10	BULB GASKET	PVC
FASTENERS		
13	1/4" X 1 1/8" 18 GA. STAPLE	WITHIN 2"-4" OF CORNERS & MAX. 6" O.C.
14	NO. 8 X 1 1/4" SMS OR WOOD SCREW	POSITIONED 3", 6", 9" & 12" FROM EACH CORNER

NOTE: WOOD USED IN TESTING WAS PONDEROSA 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 PELLA CORP. TO SELECT.



SCREW METHOD CORNER
DETAIL FOR 90° CORNERS
(INTERIOR VIEW)

NOT TO SCALE

CORNER DETAIL FOR
MITERED CORNERS
(INTERIOR VIEW)

NOT TO SCALE

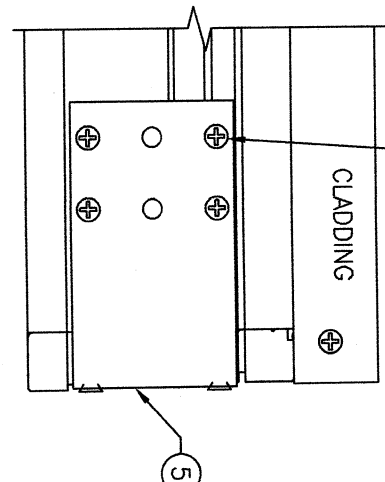
STAPLE METHOD CORNER
DETAIL FOR 90° CORNERS
(INTERIOR VIEW)

NOT TO SCALE

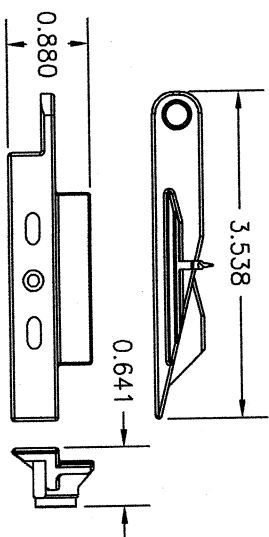
CORNER BRACKET DETAIL

NOT TO SCALE

(ONLY REQUIRED WITH WINDOWS OF
SIZE 36 SQUARE FEET & LARGER)

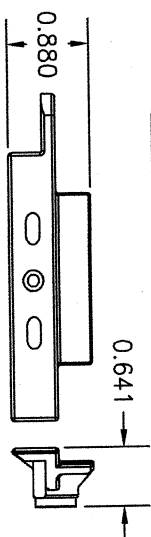


6 RECTANGULAR WINDOW CORNER KEY



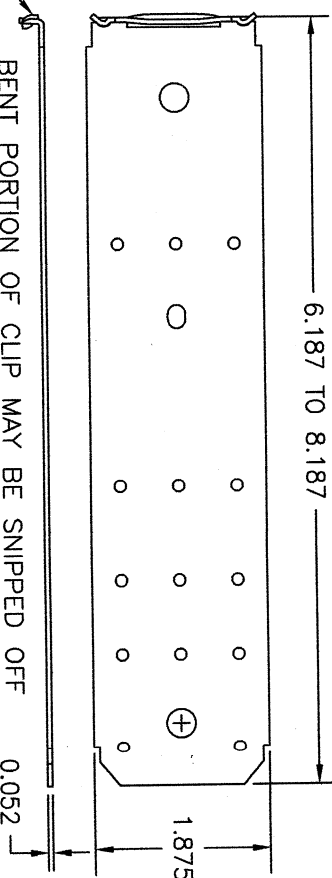
7 ANGLED FRAME CORNER KEY

(ONLY APPLICABLE WITH STRAIGHT FRAME
MEMBERS. THERE IS NO CORNER KEY WITH
RADIUS WINDOWS.)

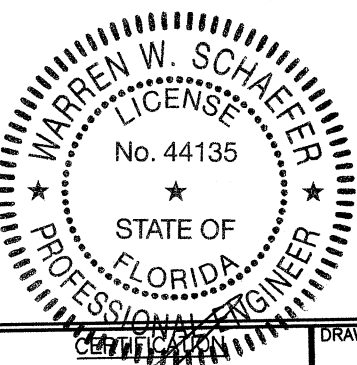
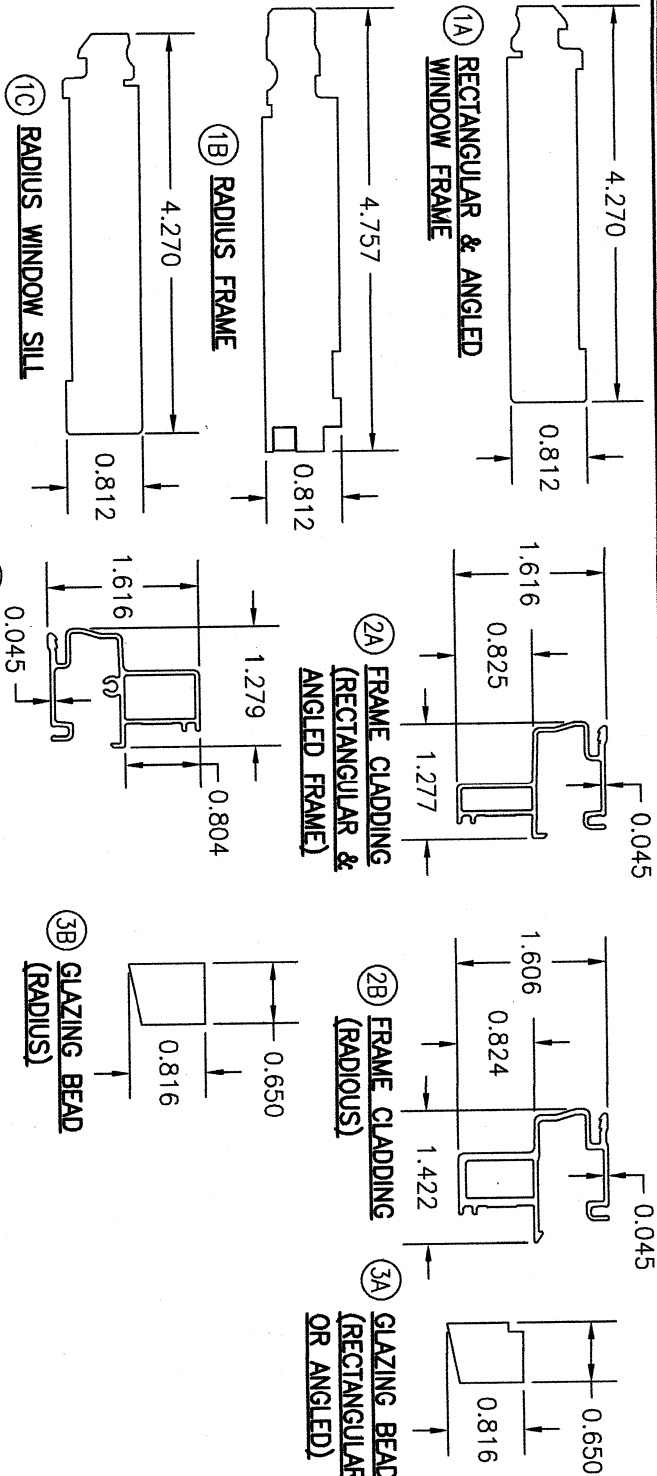
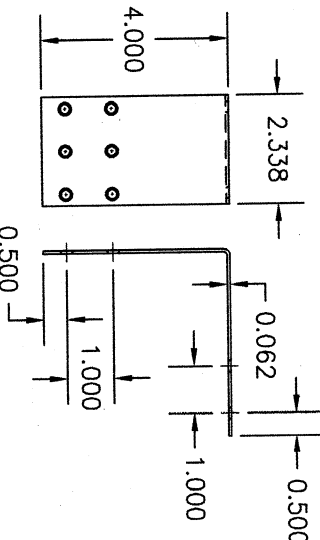


BENT PORTION OF CLIP MAY BE SNIPPED OFF
IF REQ'D FOR PLACEMENT TO WINDOW FRAME.

4 INSTALLATION CLIP



5 CORNER REINFORCEMENT BRACKET



WARREN W. SCHAEFER, P.E.
P.E. NO. 44135

DRAWING TITLE
ALUMINUM CLAD WOOD DIRECT SET IMPACT WINDOWS

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MANUFACTURER



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PELLA, IA 50219
641-621-1000

NO.	REVISION	DESCRIPTION	BY	DATE
1	2			

DRAWN BY:	CHECKED BY:
K.P.S.	W.M.S.
DATE:	DATE:
12/20/03	

DRAWING NO. 1287
SHEET NO. 4 OF 4