

GENERAL NOTES:

1. THIS PRODUCT HAS BEEN TESTED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE ALLOWABLE DESIGN PRESSURE TABLE(S).
 2. OPENINGS, BLOCKING & BLOCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
 3. ALL FRAME ANCHORS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE 12" MINIMUM.
 4. THIS PRODUCT HAS BEEN TESTED 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 BLOCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE-TREATING CHEMICALS IN THE WOOD.
 7. DETERMINE THE POSITIVE & NEGATIVE WIND LOADS TO USE WHEN RETRICKERING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE. A DIRECTIONAL FACTOR OF $V_d = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
 8. UNLESS OTHERWISE SPECIFIED HEREIN, PRODUCT ASSEMBLY AND ALL ASSEMBLY REQUIREMENTS/OPTIONS SHALL BE AS TESTED. ARE THE RESPONSIBILITY OF EACH THE MANUFACTURER AND THEIR APPLICABLE QUALITY ASSURANCE & ARE NOT THE RESPONSIBILITY OF THESE DOCUMENTS NOR THE CERTIFICATION OF THESE DOCUMENTS.
 9. WATER PROOFING OF THE INSTALLED PRODUCT IS NOT PART OF THIS CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER &/OR INSTALLER.
 10. TO THE BEST OF OUR KNOWLEDGE, THE PRODUCT SHOWN HEREIN IS QUALITY ASSURED BY A FLORIDA STATE APPROVED CERTIFICATION/QA 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 CERTIFICATION SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
 11. THE PRODUCT SHOWN HEREIN IS INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT OR IF THIS IS INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR.
 12. 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.
- EVALUATION OF THIS PRODUCT IS BASED ON APPLICABLE STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE FLORIDA BUILDING CODE, AS CONSIDERED WITH THIS EVALUATION, WAS THAT IN FORCE AT THE TIME OF THE EVALUATION. THE RESULTS OF THE EVALUATION ARE NOT A GUARANTEE OF THE EVENT THAT NEW OR ADDITIONAL TESTING IS COMPLETED BY THIS PRODUCT PRIOR TO STATING CODE COMPLIANCE WITH THE STATE. THE MANUFACTURER SHALL CONFIRM WITH THE EVALUATION ENGINEER OF RECORD THAT EVERYTHING SPECIFIED HEREIN IS CURRENT WITH ALL CURRENT TESTING, CODES AND APPLICABLE STANDARDS.

FRAME ANCHOR REQUIREMENTS TABLE

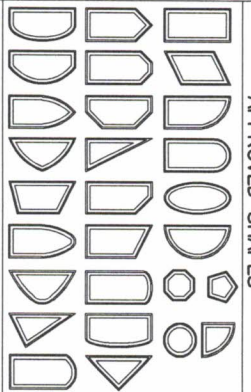
OPENING TYPE (SUBSTRATE)	FRAME/CLIP/NAIL FIN TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
FRAME SCREWS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 10 SMS OR WOOD SCREW	1 1/4"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 10 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL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

INSTALLATION CLIP SCREWS

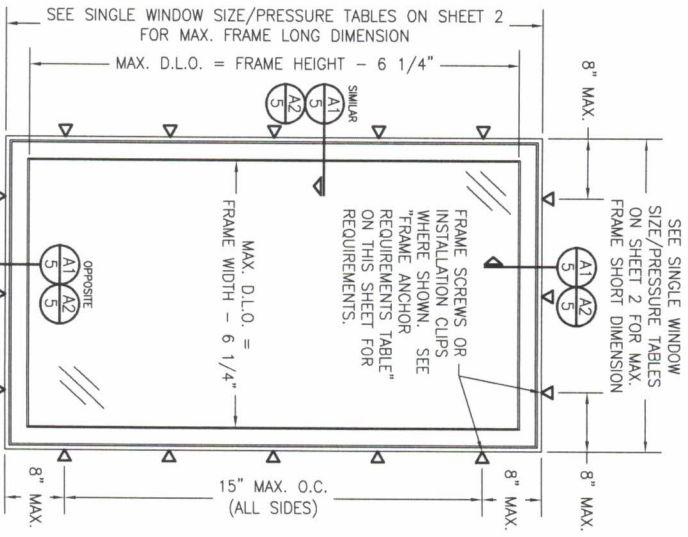
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 1/8"	3/4"
MIN. 18 GA. 33 KSI METAL STUD	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"
(2) NAILING FIN FASTENERS			
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 8 SMS SCREW	1 1/8"	1/2"
MIN. 1/8" THK A36 STEEL	NO. 8 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"

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

APPROVED SHAPES



- NOTES:
1. OTHER SHAPES MAY APPLY PROVIDED THEY ARE SIMILAR TO THOSE SHOWN & HAVE CORNER CONSTRUCTION AS DESCRIBED IN THIS DRAWING.
 2. ALL SHAPED UNITS MUST FIT INSCRIBED INTO THE ALLOWABLE RECTANGULAR UNITS & BE COVERED BY THE ALLOWABLE PRESSURE OF THE RESPECTIVE RECTANGULAR UNIT.



EXTERIOR ELEVATION:
SINGLE FIXED WINDOW

SCALE: 3/4" = 1'-0"

(FRAME SCREW OR CLIP MOUNT CONDITION)

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.

INSTALLATION NOTE:
WHEN NECESSARY, INSTALLATION METHODS MAY BE MIXED WITH ANY ONE WINDOW SUCH THAT INDIVIDUAL SIDES OF THE WINDOW MAY USE ONE OR THE OTHER ANCHOR METHOD (EXAMPLE: SILL MAY USE FRAME SCREWS METHOD WHILE OTHER SIDES USE FIN).

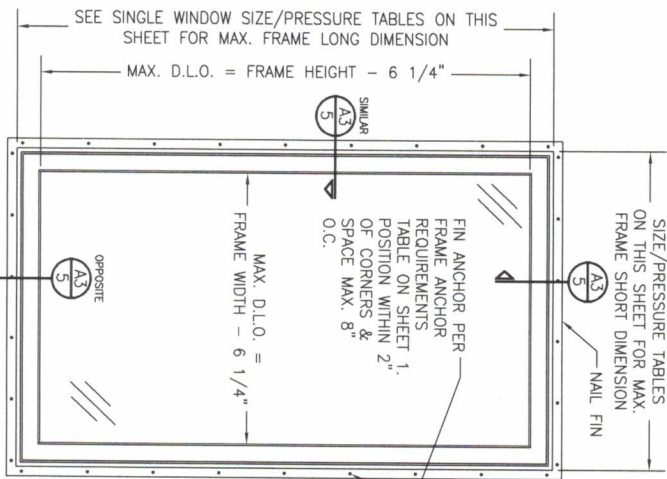
ANCHOR/SUBSTRATE EVALUATION NOTE:
ALL ANCHORS IN THEIR SPECIFIED SUBSTRATES HAVE BEEN ANALYZED IN ACCORDANCE WITH THEIR APPLICABLE STANDARD(S) AND ARE FOUND TO BE CAPABLE OF SUPPORTING ALL LOADS IMPOSED ON THEM UNDER THE GUIDELINES OF THIS DOCUMENT. ANY CHANGES TO THE DESIGN OR MATERIALS IS SUBJECT TO REVIEW HEREIN SHALL BE SUBJECT TO JOB SPECIFIC ENGINEER'S REVIEW & CERTIFICATION.

THESE DRAWINGS ARE THE PROPERTY OF W. SCHAEFER ENGINEERING, INC. AND/OR INSTALLATION OF ANY PRODUCT SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. NO PART OF THESE DRAWINGS MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, WITHOUT PERMISSION IN WRITING FROM W. SCHAEFER ENGINEERING, INC.

W. SCHAEFER ENGINEERING, INC.
No. 44135
STATE OF FLORIDA
Professional Engineer
2020

CERTIFICATION
DRAWING TITLE: FEEL SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW
DATE: 10/26/20
BY: W. SCHAEFER
P.E. NO. 44135

MANUFACTURER
SIERRA PACIFIC WINDOWS
575 S. WHELEN AVE.
MEDFORD, WI 54451
800-433-4873



SEE SINGLE WINDOW
SIZE/PRESSURE TABLES
ON THIS SHEET FOR MAX.
FRAME SHORT DIMENSION

MAX. D.L.O. =
FRAME WIDTH - 6 1/4"

FIN ANCHOR PER
FRAME ANCHOR
REQUIREMENTS
TABLE ON SHEET 1.
POSITION WITHIN 2"
OF CORNERS &
SPACE MAX. 8"
O.C.

MAX. D.L.O. =
FRAME WIDTH - 6 1/4"

OPPOSITE

EXTERIOR ELEVATION:
SINGLE FIXED WINDOW

SCALE: 3/4" = 1'-0"

(NAIL FIN MOUNT CONDITION)

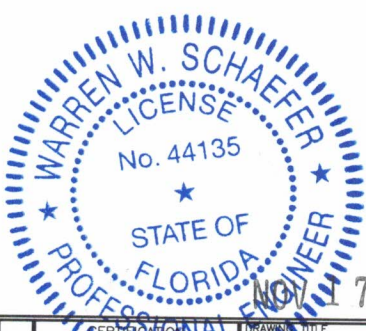
ALLOWABLE SINGLE WINDOW SIZE/DESIGN PRESSURE (GLASS OPTION 1A)			
MAXIMUM FRAME LONG DIMENSION (IN.)	MAXIMUM FRAME SHORT DIMENSION (IN.)	ALLOWABLE PRESSURE (PSF)	POS. NEG.
144 3/16	12 1/16	65.0	70.0
132 3/16	13 3/16	65.0	70.0
120 3/16	14 1/2	65.0	70.0
108 3/16	16 1/8	65.0	70.0
96 3/16	18 1/8	65.0	70.0
84 3/16	20 11/16	65.0	70.0
72 3/16	22 1/4	65.0	70.0
60 3/16	24 1/8	65.0	70.0
48 3/16	26 5/16	65.0	70.0
36 3/16	29	65.0	70.0
24 3/16	32 3/16	65.0	70.0
12 3/16	36 3/16	65.0	70.0
6 3/16	41 5/16	65.0	70.0

ALLOWABLE SINGLE WINDOW SIZE/DESIGN PRESSURE (GLASS OPTION 1C & 2C)			
MAXIMUM FRAME LONG DIMENSION (IN.)	MAXIMUM FRAME SHORT DIMENSION (IN.)	ALLOWABLE PRESSURE (PSF)	POS. NEG.
144 3/16	43	65.0	70.0
132 3/16	42 3/16	65.0	71.4
120 3/16	39 3/16	65.0	76.9
108 3/16	36 3/16	65.0	83.2
96 3/16	35 3/16	65.0	85.0
84 3/16	35 3/16	65.0	85.0
72 3/16	42 3/16	65.0	77.9
60 3/16	39 3/16	65.0	83.9
48 3/16	36 3/16	65.0	85.0
36 3/16	33 3/16	65.0	83.8
24 3/16	30 3/16	65.0	85.0
12 3/16	27 3/16	65.0	85.0
6 3/16	24 3/16	65.0	85.0

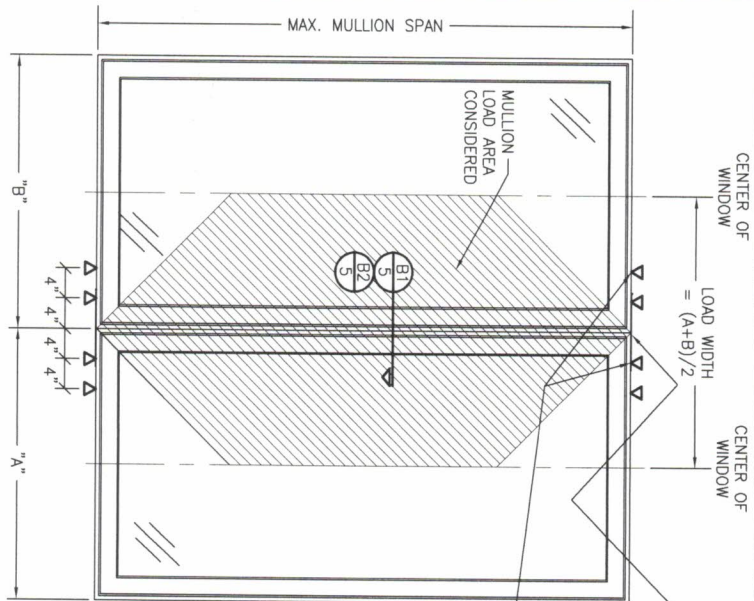
ALLOWABLE SINGLE WINDOW SIZE/DESIGN PRESSURE (GLASS OPTION 1D & 2D)			
MAXIMUM FRAME LONG DIMENSION (IN.)	MAXIMUM FRAME SHORT DIMENSION (IN.)	ALLOWABLE PRESSURE (PSF)	POS. NEG.
144 3/16	30 1/8	65.0	70.0
132 3/16	27 3/16	65.0	77.6
120 3/16	24 3/16	65.0	85.0
108 3/16	32 7/8	65.0	70.0
96 3/16	30 3/16	65.0	76.2
84 3/16	27 3/16	65.0	84.6
72 3/16	26 3/16	65.0	85.0
60 3/16	36 1/8	65.0	76.3
48 3/16	33 3/16	65.0	76.3
36 3/16	30 3/16	65.0	83.8
24 3/16	29 3/16	65.0	85.0
12 3/16	40 1/8	65.0	70.0
6 3/16	42 3/16	65.0	77.7
108 3/16	33 3/16	65.0	84.7
96 3/16	45 3/16	65.0	70.0
84 3/16	42 3/16	65.0	75.0
72 3/16	39 3/16	65.0	79.2
60 3/16	36 3/16	65.0	84.1
48 3/16	35 3/16	65.0	85.0
36 3/16	51 5/8	64.1	69.1
24 3/16	48 3/16	65.0	71.9
12 3/16	45 3/16	65.0	74.8
6 3/16	42 3/16	65.0	78.2
108 3/16	39 3/16	65.0	82.2
96 3/16	37 3/16	65.0	85.0
84 3/16	55 9/16	64.1	69.0
72 3/16	48 3/16	65.0	74.1
60 3/16	45 3/16	65.0	76.9
48 3/16	42 3/16	65.0	80.2
36 3/16	39 3/16	65.0	84.2
24 3/16	38 3/16	65.0	85.0
12 3/16	60 3/16	65.0	70.0
6 3/16	54 3/16	65.0	73.0
108 3/16	48 3/16	65.0	77.0
96 3/16	45 3/16	65.0	79.6
84 3/16	42 3/16	65.0	82.8
72 3/16	40 3/16	65.0	85.0
60 3/16	65 9/16	65.0	70.0
48 3/16	60 3/16	65.0	75.3
36 3/16	54 3/16	65.0	77.2
24 3/16	48 3/16	65.0	80.7
12 3/16	43 3/16	65.0	85.0
6 3/16	60 3/16	65.0	82.1
108 3/16	54 3/16	65.0	83.0
96 3/16	48 3/16	65.0	85.0
84 3/16	57 3/16	65.0	85.0

ALLOWABLE SINGLE WINDOW SIZE/DESIGN PRESSURE (GLASS OPTION 2E)			
MAXIMUM FRAME LONG DIMENSION (IN.)	MAXIMUM FRAME SHORT DIMENSION (IN.)	ALLOWABLE PRESSURE (PSF)	POS. NEG.
144 3/16	36 1/8	50.0	50.0
132 3/16	27 3/16	39 3/8	50.0
120 3/16	43 5/16	50.0	50.0
108 3/16	48 1/8	50.0	50.0
96 3/16	54 1/8	50.0	50.0
84 3/16	61 7/8	50.0	50.0
72 3/16	66 5/8	50.0	50.0
60 3/16	72 3/16	50.0	50.0

SIZE/PRESSURE TABLE NOTES:
1. SEE GLAZING DETAILS FOR GLASS OPTIONS.
2. WINDOW SIZES SHOWN ARE MAXIMUM SIZES.
UNLESS OTHERWISE REVIEWED AND CERTIFIED
BY A FLORIDA P.E., SMALLER SIZES SHALL
APPLY TO LOADS EQUAL TO THE NEAREST
LARGER SIZE SHOWN IN TABLE.
4. LONG DIMENSION MAY BE HORIZONTAL OR
VERTICAL.



DRAWING TITLE FEEL SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW		CHECKED BY: DATE: 10/28/20	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER SIERRA PACIFIC WINDOWS 575 S. WHELEN AVE. MEDFORD, OR 97504 800-433-4873	NO. REVISION DESCRIPTION BY DATE	
DRAWING NO. 1985 SHEET NO. 2 OF 6		DRAWING BY: [] DATE: [] CHECKED BY: [] DATE: []	



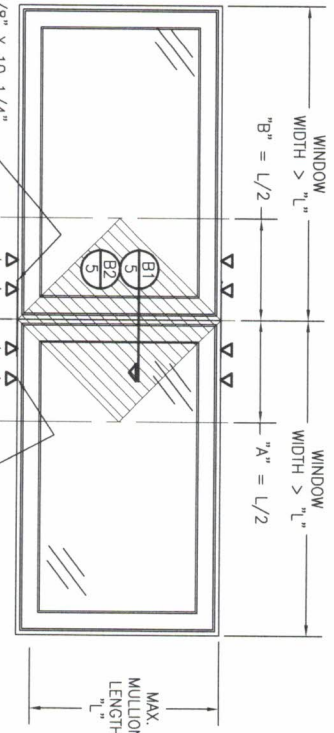
25 GA. X 2 3/8" X 10 1/4" GALVANIZED MULLION END REINFORCEMENT PLATE STAPLED TO EACH JAMB WITH TEN(10) 16 GA. X 7/16" X 9/16" LONG STAPLES. (TYP. EACH END OF EACH MULLION)

NO. 10 SCREWS PER FRAME ANCHOR REQUIREMENTS TABLE. FOUR (4) TOTAL PER MULLION END WHETHER WINDOW IS SCREW MOUNTED OR FIN MOUNTED.

NOTE: MULLION CONDITIONS OUTSIDE OF THAT SPECIFIED HERE-IN SHALL BE JOB SPECIFIC REVIEWED AND CERTIFIED BY A FLORIDA P.E.

ALLOWABLE DESIGN PRESSURE (SIDE-BY-SIDE MULLED UNITS)
SEE PRESSURE TABLES ON SHEET 4

25 GA. X 2 3/8" X 10 1/4" GALVANIZED MULLION END REINFORCEMENT PLATE STAPLED TO EACH JAMB WITH TEN(10) 16 GA. X 7/16" X 9/16" LONG STAPLES. (TYP. EACH END OF EACH MULLION)



NO. 10 SCREWS PER FRAME ANCHOR REQUIREMENTS TABLE. FOUR (4) TOTAL PER MULLION END WHETHER WINDOW IS SCREW MOUNTED OR FIN MOUNTED.

MULTIPLE SIDE-BY-SIDE FIXED WINDOWS WHEN WINDOW WIDTHS ARE GREATER THAN OR EQUAL TO THE MULLION SPAN

EXTERIOR ELEVATION:

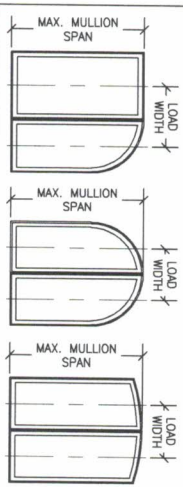
MULTIPLE SIDE-BY-SIDE FIXED WINDOWS WHEN WINDOW WIDTHS ARE LESS THAN OR EQUAL TO THE MULLION SPAN

SCALE: 3/4"=1'-0"

ELEVATION NOTES:

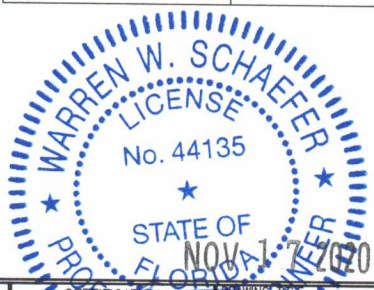
1. FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATIONS.
2. MULLION MAY BE HORIZONTAL OR VERTICAL PROVIDING UNIT SIZES ARE RESTRICTED AS SHOWN IN THIS ELEVATION.
3. IF VERTICALLY STACKED, THE MANUFACTURER &/OR INSTALLER SHALL INSURE THAT THE DEAD LOAD WEIGHT OF THE ABOVE WINDOWS CAN NOT CAUSE UNDO FAILURE TO THE BELOW WINDOWS.
4. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLIONS.
5. INDIVIDUAL WINDOW SIZES SHALL BE RESTRICTED AS SPECIFIED IN THE SINGLE WINDOW ELEVATIONS.
6. RECTANGULAR WINDOWS SHOWN, SHAPED WINDOWS ALSO APPLY UNDER THE SAME CONDITIONS SHOWN FOR RECTANGULAR. SEE "SHAPED MULLED CONDITIONS" TABLE ON THIS SHEET.
7. 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 MULLION PRESSURE.

EXAMPLES OF SIDE-BY-SIDE SHAPED MULLED CONDITIONS



NOTES:

1. INDIVIDUAL WINDOW SHAPES OTHER THAN THOSE SHOWN MAY APPLY PROVIDING THEY ARE APPLICABLE TO THOSE SHOWN ON SHEET 2 & THEIR MULLION CONDITIONS ARE CONSISTENT WITH THOSE SHOWN IN THE ELEVATIONS ON THIS SHEET.
2. SHAPED FIXED WINDOWS MAY ALSO BE MULLED TO RECTANGULAR WINDOWS AS TRANSOMS UNDER THE SAME RESTRICTIONS AS SIDE BY SIDE CONDITION SHOWN IN ELEVATION.



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DRAWING NO. 1985	CHECKED BY: [Signature]
SHEET NO. 3 OF 6	DATE: 10/28/20

FEED SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW CONSULTANTS: WARREN W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	MANUFACTURER: SIERRA PACIFIC WINDOWS 575 S. WHELAN AVE. MEDFORD, WI 54451 800-433-4873
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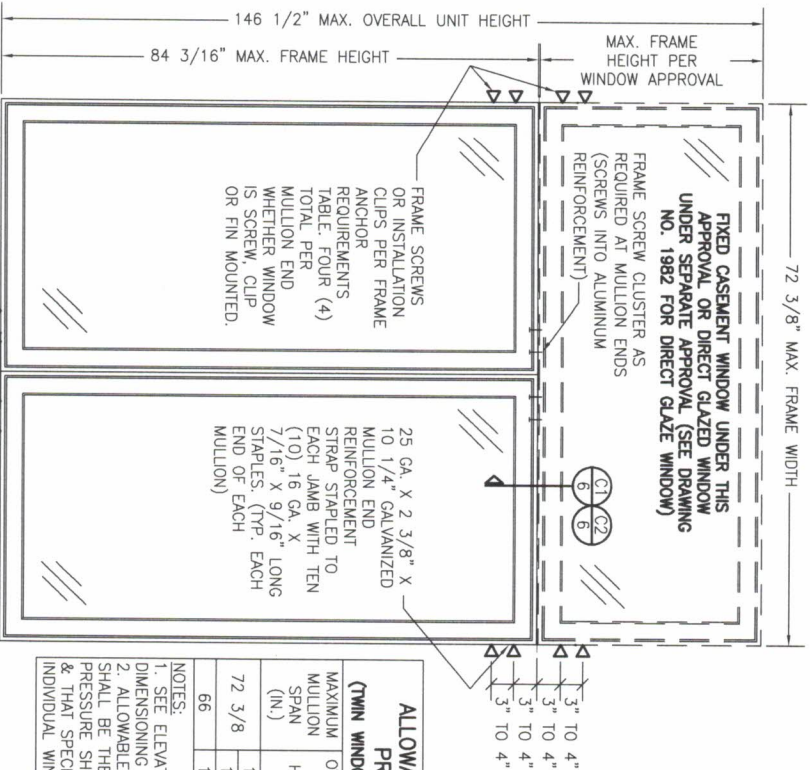
ALLOWABLE MULLION PRESSURE (SIDE-BY-SIDE UNITS WITH NON-REINFORCED MULLION)

ALLOWABLE MULLION PRESSURE (SIDE-BY-SIDE UNITS WITH REINFORCED MULLION)

MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)	POSITIVE	NEGATIVE
72 3/16	40.3	43.4		
66 3/16	41.7	45.0		
60 3/16	44.1	47.5		
54 3/16	47.0	50.7		
48 3/16	51.2	55.2		
42 3/16	57.1	61.5		
36 3/16	65.0	70.0		
30 3/16	65.0	80.3		
27 3/16	65.0	85.0		
22 3/16	49.4	53.2		
66 3/16	50.5	54.4		
60 3/16	52.7	56.7		
54 3/16	56.1	60.4		
48 3/16	59.6	64.2		
42 3/16	64.5	69.5		
36 3/16	65.0	77.0		
31 3/16	65.0	85.0		
72 3/16	59.7	64.3		
66 3/16	60.1	64.7		
60 3/16	61.4	66.1		
54 3/16	63.6	68.5		
48 3/16	65.0	72.2		
42 3/16	65.0	77.7		
36 3/16	65.0	85.0		
66 3/16	65.0	76.4		
60 3/16	65.0	77.1		
54 3/16	65.0	79.0		
48 3/16	65.0	82.5		
42 3/16	65.0	85.0		
62 3/16	65.0	85.0		

MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)	POSITIVE	NEGATIVE
72 7/16	49.8	53.6		
66 7/16	52.2	56.2		
60 7/16	55.3	59.5		
54 7/16	59.3	63.8		
48 7/16	65.0	70.0		
42 7/16	65.0	76.4		
36 7/16	65.0	85.0		
72 7/16	59.7	64.3		
66 7/16	61.3	66.1		
60 7/16	63.7	68.6		
54 7/16	65.0	72.1		
48 7/16	65.0	77.0		
42 7/16	65.0	83.7		
41 7/16	65.0	85.0		
72 7/16	56.1	73.6		
66 7/16	57.1	74.9		
60 7/16	58.8	77.2		
54 7/16	61.4	80.6		
48 7/16	65.0	85.0		
72 3/16	72 7/16	65.0		85.0

MULLION PRESSURE TABLE NOTES:
1. LESSER OF THE PRESSURE SHOWN IN THESE TABLES & THAT ALLOWED FOR THE INDIVIDUAL WINDOWS SHALL CONTROL AS ALLOWABLE FOR THE OVERALL UNIT.
2. SIZES SHOWN ARE MAXIMUM SIZES. UNLESS OTHERWISE REVIEWED AND CERTIFIED BY A FLORIDA P.E., SMALLER SIZES SHALL APPLY TO LOADS EQUAL TO THE NEAREST LARGER SIZE SHOWN IN TABLE.



EXTERIOR ELEVATION TWIN WINDOW WITH TRANSOM

SCALE: 3/4"=1'-0"

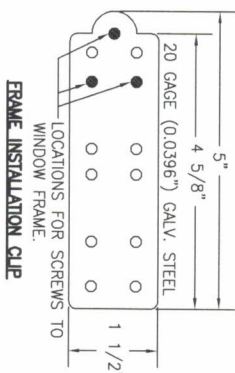
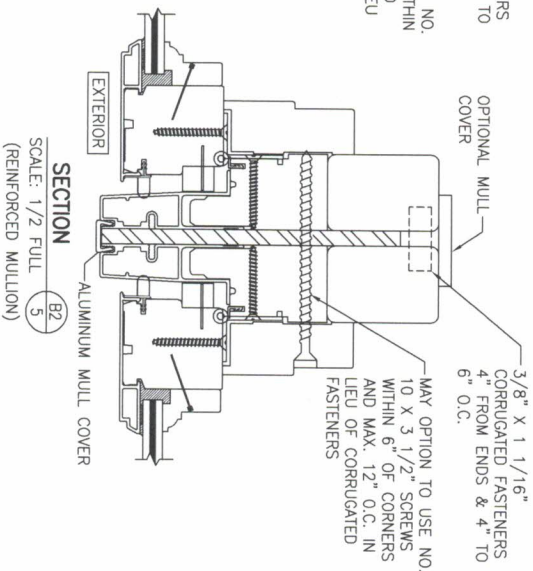
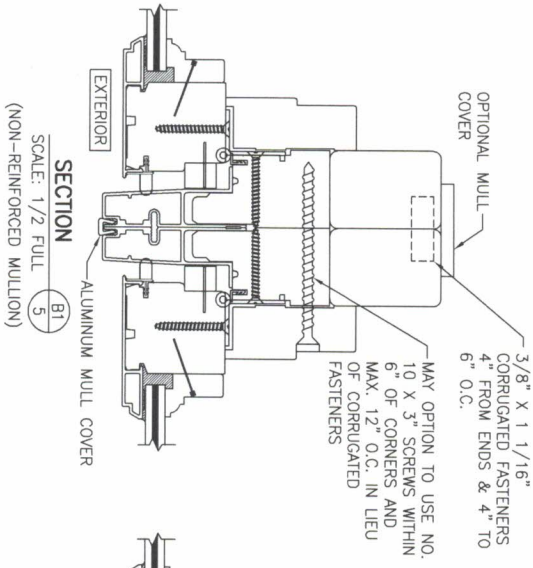
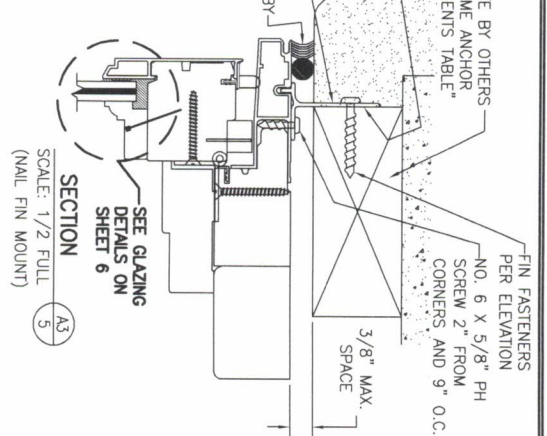
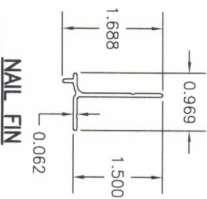
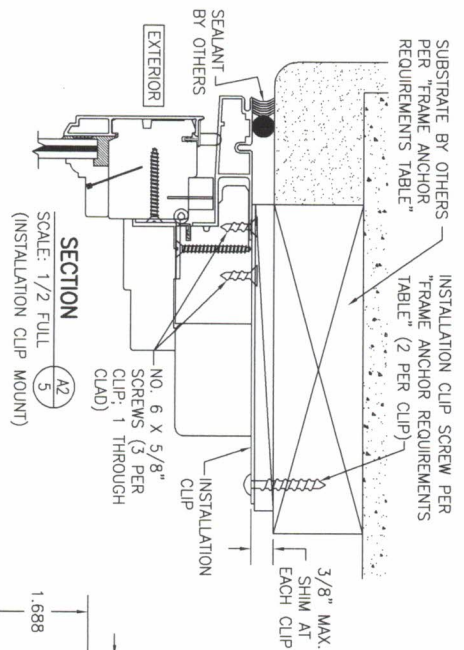
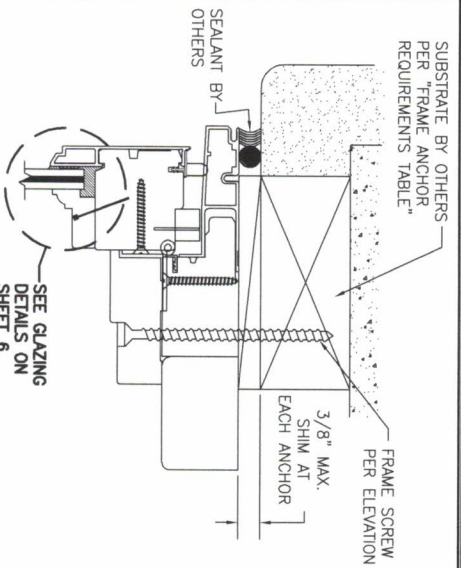
ELEVATION NOTES:
1. FOR INDIVIDUAL WINDOW INSTALLATION & DETAILS, SEE INDIVIDUAL WINDOW ELEVATIONS.
2. TWIN WINDOW VERTICAL MULLION CONDITIONS SHALL BE AS REQUIRED ON SHEET 3 EXCEPT THERE IS NO 25 GAGE STRAP REQUIRED AT THE HEAD.

MAXIMUM MULLION SPAN (IN.)	OVERALL UNIT HEIGHT (IN.)	ALLOWABLE PRESSURE (PSF)	POS.	NEG.
72 3/8	146.5	65.0	70.0	
66	120.5	65.0	85.0	
66	132.5	65.0	85.0	

NOTES:
1. SEE ELEVATION FOR DIMENSIONING OF LOAD WIDTH.
2. ALLOWABLE UNIT PRESSURE SHALL BE THE LESSER OF THE PRESSURE SHOWN IN THIS TABLE & THAT SPECIFIED FOR THE INDIVIDUAL WINDOWS.



DRAWING NO. 1985		SHEET NO. 4 OF 6	
DRAWING TITLE FEEL SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW		MANUFACTURER SIERRA PACIFIC WINDOWS 575 S. WHELAN AVE. MEDFORD, WI 54451 800-433-4873	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		CHECKED BY: [] DATE: 10/28/20 DESIGNED BY: [] DATE: []	



DRAWING TITLE
FEEL SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW

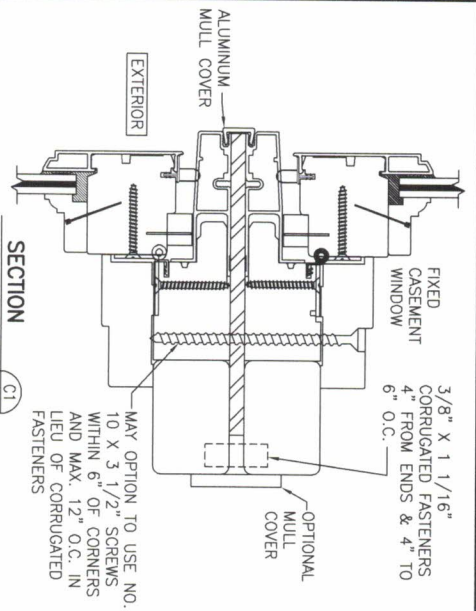
CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

MANUFACTURER
SIERRA PACIFIC WINDOWS
575 S. WHELEN AVE.
MEDFORD, WI 54451
800-433-4873

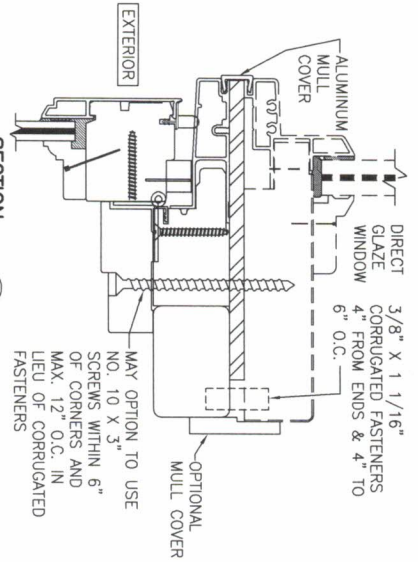
NO.	REVISION	DESCRIPTION	BY	DATE
1	1	ISSUED		10/28/20
2				
3				
4				
5				

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

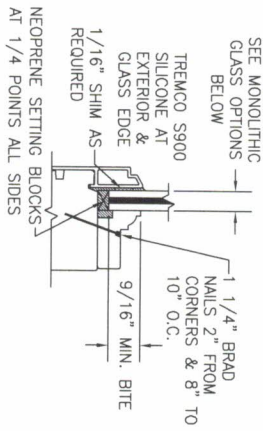
DRAWING NO. 1985
SHEET NO. 5 OF 6



SECTION C1
SCALE: 1/2 FULL
(REINFORCED MULL WITH FIXED CASEMENT TRANSOM)

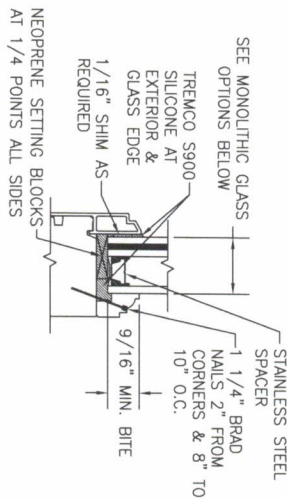


SECTION C2
SCALE: 1/2 FULL
(REINFORCED MULL WITH DIRECT GLAZE TRANSOM)



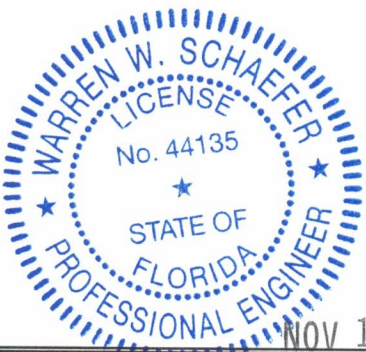
MONOLITHIC GLAZING DETAIL WITH 1-PIECE GLAZING BEAD

MONOLITHIC GLASS OPTIONS:
 OPTION 1A: 5/32" THICK LAMINATED GLASS (1/8" AN/0.09 EASTMAN CHEM. CO. SAFLEX/1/8 AN)
 OPTION 1B: 13/32" THICK LAMINATED GLASS (5/32" AN/0.09 EASTMAN CHEM. CO. SAFLEX/5/32 AN)
 OPTION 1C: 7/16" THICK LAMINATED GLASS (3/16" H.S./0.09 KURARAY SG/3/16" H.S.)
 OPTION 1D: 13/32" THICK LAMINATED GLASS (5/32" AN/0.09 KURARAY SG/5/32" AN)



TYPICAL I.G. GLAZING DETAIL

I.G. GLASS OPTIONS:
 OPTION 2A: 29/32" THICK I.G. GLASS (1/8" AN/0.09 EASTMAN CHEM. CO. SAFLEX/1/8" AN. EXTERIOR; 7/16" SPACER; 1/8" TEMP. INTERIOR)
 OPTION 2B: 1" THICK I.G. GLASS (5/32" AN/0.09 EASTMAN CHEM. CO. SAFLEX/5/32" AN EXTERIOR; 7/16" SPACER; 5/32" TEMP. INTERIOR)
 OPTION 2C: 1 1/32" THICK I.G. GLASS (3/16" H.S./0.09 KURARAY SG/3/16" H.S. EXTERIOR; 3/8" SPACER; 3/16" TEMP. INTERIOR)
 OPTION 2D: 1" THICK I.G. GLASS (5/32" AN/0.09 KURARAY SG/5/32" AN EXTERIOR; 7/16" SPACER; 5/32" TEMP. INTERIOR)
 OPTION 2E: 1 1/32" THICK I.G. GLASS (1/8" AN/0.09 KURARAY SG/1/8" AN EXTERIOR; 7/16" SPACER; 1/4" TEMP. INTERIOR)



NOV 17 2020

NO.	REVISION	DESCRIPTION	BY	DATE
1	1	ISSUED FOR PERMIT	WWS	10/29/20
2	2	REVISION		
3	3	REVISION		
4	4	REVISION		
5	5	REVISION		
6	6	REVISION		

DRAWING TITLE	MANUFACTURER
FEEL SAFE ALUMINUM CLAD WOOD IMPACT FIXED CASEMENT WINDOW	SIERRA PACIFIC WINDOWS
CONSULTANTS	575 S. WHELEN AVE.
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)	MEDFORD, WI 54451
7480 150TH COURT NORTH	800-433-4873
PALM BEACH GARDENS, FL 33418	
PHONE: 561-744-3424	

CERTIFICATION	DRAWING NO.	SHEET NO.
WARREN W. SCHAEFER, P.E.	1985	6 OF 6
P.E. NO. 44135		