

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, BUCKING & BUCKING 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 BEYOND WALL FINISH OR STUCCO.
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).
5. THIS PRODUCT IS NON-IMPACT RATED & MUST BE SHUTTERED WITH A FLORIDA CODE APPROVED SHUTTER WHERE REQUIRED BY CODE.
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 REFERENCING 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. UNLESS OTHERWISE SPECIFIED HERE-IN, 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.
10. WATER PROOFING OF THE INSTALLED PRODUCT IS NOT PART OF THIS CERTIFICATION. THAT RESPONSIBILITY SHALL BE THAT OF THE MANUFACTURER &/OR INSTALLER.
11. 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 ASSEMBLY SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S QUALITY ASSURANCE SPECIFICATIONS & TESTING REPORTS.
12. 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.
13. ALL ALUMINUM PARTS WITHIN THESE WINDOWS SHALL BE MINIMUM 6063-T6 ALUMINUM.

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

SINGLE WINDOW ALLOWABLE SIZE TABLE

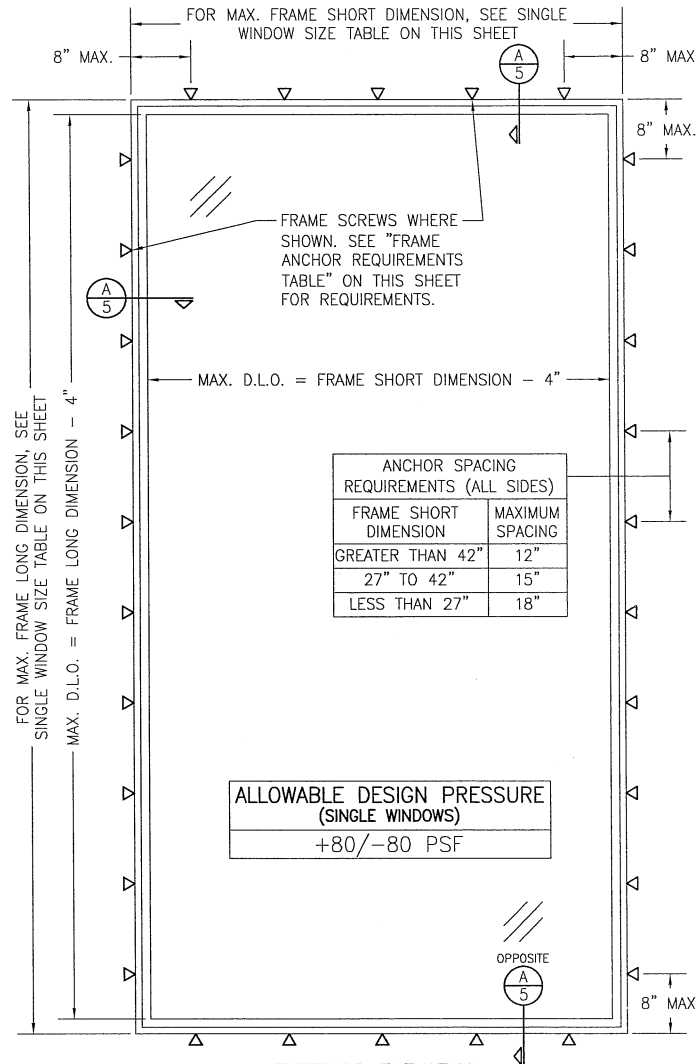
MAXIMUM FRAME LONG DIMENSION (IN.)	MAXIMUM FRAME SHORT DIMENSION (IN.)		
	GLASS OPTION 1A & 1B	GLASS OPTION 2A & 2B	GLASS OPTION 3A, 3B, 4 & 5
144	12.8	21.9	57.7
138	13.4	22.9	60.2
132	14.0	23.9	63.0
125	14.8	25.2	66.5
120	15.4	26.3	69.3
114	16.2	27.7	72.9
108	17.1	29.2	77.0
102	18.1	31.0	81.5
99	18.7	31.8	84.0
96	19.2	32.9	-
90	20.5	35.1	-
84	22.0	37.6	-
78	23.7	40.5	-
72	25.6	43.9	-
66	28.0	47.9	-
60	30.8	52.6	-
56	33.0	56.0	-
54	34.2	-	-
48	38.5	-	-
43.0	43.0	-	-

1. ALL SIZES IN TABLE ARE BASED ON TESTED SIZES & DO NOT EXCEED THE WINDOW AREA TESTED.
2. LONG DIMENSION MAY BE HORIZONTAL OR VERTICAL.
3. SIZES SMALLER THAN THOSE STATED APPLY.
4. FOR GLASS OPTIONS, SEE GLAZING DETAILS ON SHEET 5.

FRAME ANCHOR REQUIREMENTS TABLE

OPENING TYPE (SUBSTRATE)	FRAME/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. 12 PH OR HH SMS OR WOOD SCREW	1 1/4"	7/8"
MIN. 18 GA. 33 KSI METAL STUD	NO. 12 GR. 5 PH OR HH SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK A36 STEEL	NO. 12 GR. 5 PH OR HH SELF TAP/DRILL SCREW	FULL	1/2"
MIN. 1/8" THK 6063-T5 ALUM.	NO. 12 GR. 5 PH OR HH SELF TAP/DRILL SCREW	FULL	1/2"
(2) MIN. C-90 CMU	(1) 1/4" HH CONCRETE SCREW	1 1/4"	2"
MIN. 2500 PSI CONCRETE	(1) 1/4" HH CONCRETE SCREW	1 1/2"	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) CMU APPLIES TO SIDES OF OPENINGS ONLY.



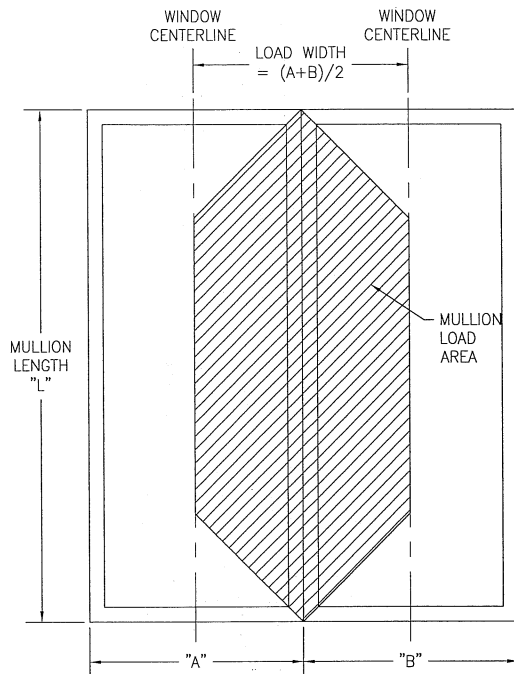
ALLOWABLE DESIGN PRESSURE
(SINGLE WINDOWS)
+80/-80 PSF

EXTERIOR ELEVATION:
SINGLE DIRECT GLAZE WINDOW

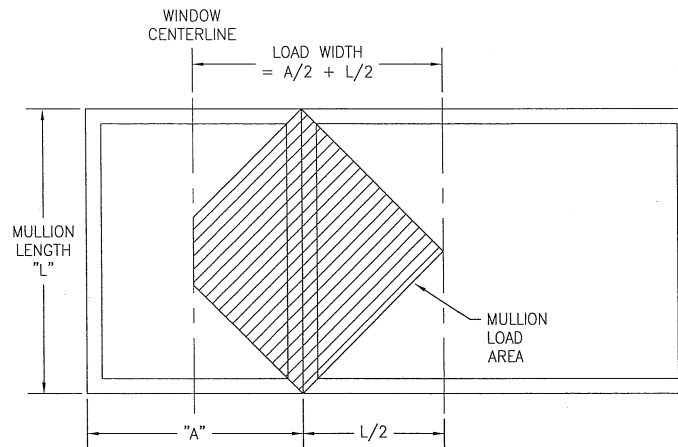
SCALE: 3/4" = 1'-0"
(LONG DIMENSION MAY BE HORIZONTAL OR VERTICAL)

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.

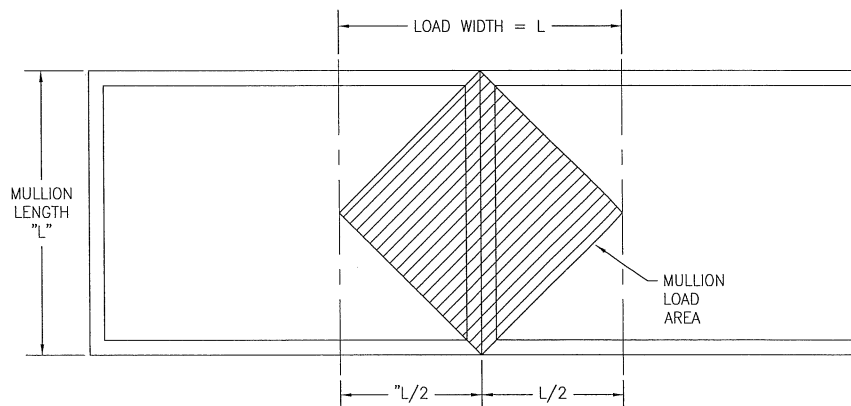
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PLOT: 1-16		DATE: 07/08/19	
DATE	BY	REVISION	DESCRIPTION
NO.	NO.	NO.	NO.
DRAWING TITLE: PELLA NON-IMPACT ALUMINUM DIRECT GLAZE FIXED WINDOWS CONSULTANTS: PELLA CORPORATION 8291 FORSHEE DRIVE, UNIT 4 JACKSONVILLE, FL 32219 904-632-7400 MANUFACTURER: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 8809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE 561-714-3424 CERTIFICATION: JUL 08 2019 W. W. SCHAEFER, P.E. P.E. NO. 44135			
DRAWING NO. 1951A		REV. 1	
SHEET NO. 1		OF 5	



LOAD WIDTH WHEN BOTH WINDOW WIDTHS
ARE LESS THAN THE MULLION SPAN



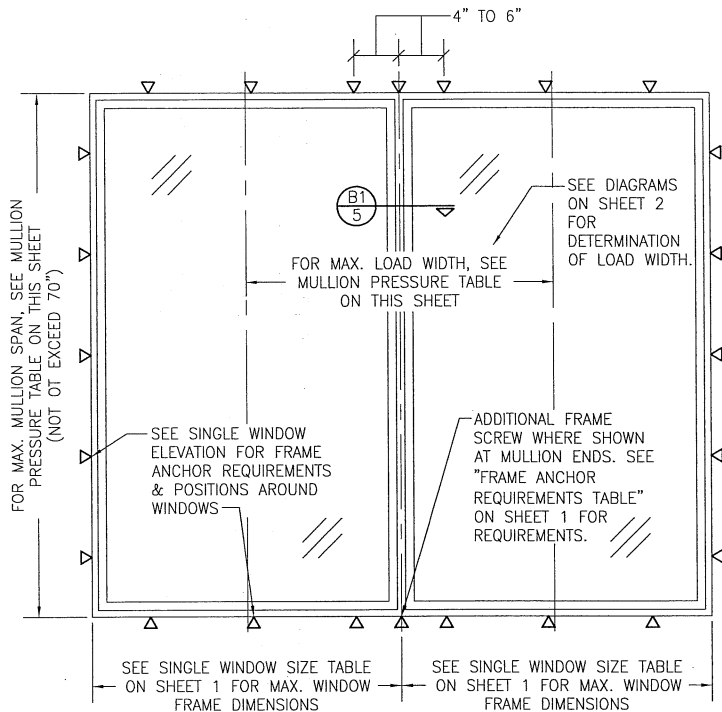
LOAD WIDTH WHEN ONE WINDOW WIDTH IS GREATER
THAN OR EQUAL TO THE MULLION SPAN



LOAD WIDTH WHEN BOTH WINDOW WIDTHS ARE
GREATER THAN OR EQUAL TO THE MULLION SPAN

MULLION LOAD WIDTH DETERMINATION

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 07/08/19	
DATE	BY	REVISION	DESCRIPTION
DRAWING TITLE PELLA NON-IMPACT ALUMINUM DIRECT GLAZE FIXED WINDOWS			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE 561-744-5424		MANUFACTURER PELLA CORPORATION 8291 FORSHEE DRIVE, UNIT 4 JACKSONVILLE, FL 32219 904-632-7400	
CERTIFICATION W. W. SCHAEFER LICENSE NO. 44105 JUL 08 2019		WARRICK W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1951A		REV.	
SHEET NO. 2		OF 5	



EXTERIOR ELEVATION:
MULTIPLE FIXED WINDOW UNIT WITH INTEGRAL MULLIONS

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

MULTIPLE UNIT 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. WINDOWS MAY BE STACKED HORIZONTAL OR VERTICAL. 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. 2-WINDOW UNIT IS SHOWN, HOWEVER THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED IN ONE DIRECTION INTO ONE UNIT 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 ELEVATION.

**INTEGRAL MULLION ALLOWABLE
DESIGN PRESSURE**

MAXIMUM ASTRAGAL SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (+/-PSF)
70	70	32.9
	66	33.1
	60	33.9
	54	35.2
	48	37.5
	42	40.8
	36	45.8
	33	48.5
	30	53.0
	27	57.3
	24	64.5
	21	72.6
66	18	80.0
	66	41.7
	54	43.5
	48	45.9
	42	49.7
	36	55.3
	33	58.5
	30	63.9
	27	69.7
	24	76.3
	22	80.0
60	60	61.0
	54	61.9
	48	64.2
	42	68.7
	39	71.2
	36	75.0
	33	79.0
	32	80.0
57	57	74.9
	54	75.3
	48	77.3
	43	80.0
56	56	80.0

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.

DRAWN BY: N.W.S.
CHECKED BY: N.W.S.
PLOT: 1=16
DATE: 07/08/19

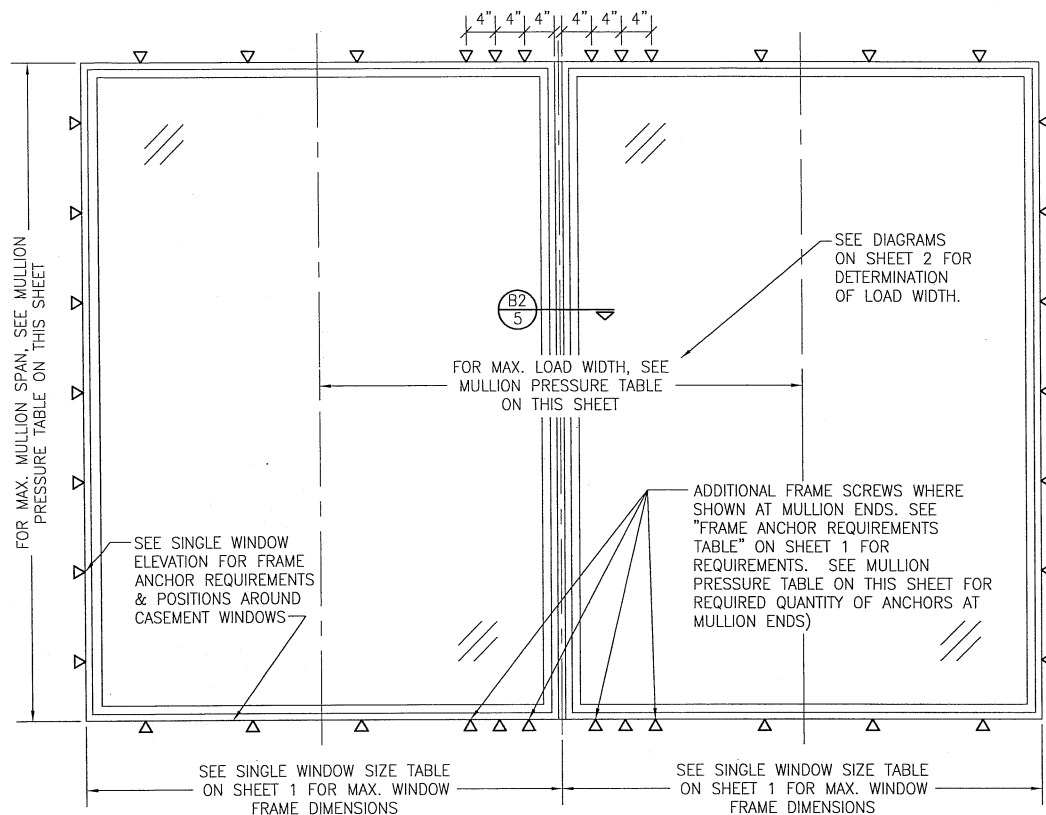
DATE	BY	REVISION DESCRIPTION	NO.

DRAWING TITLE
PELLA NON-IMPACT ALUMINUM DIRECT GLAZE FIXED WINDOWS

CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
P.O. BOX 1000, FORT MYERS, FL 33918
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

MANUFACTURER
PELLA CORPORATION
8291 FORSHEE DRIVE, UNIT 4
JACKSONVILLE, FL 32219
904-632-7400

CERTIFICATION
FLORIDA
WARREN W. SCHAEFER
ENGINEER
No. 44135
JUL 08 2019
WARREN W. SCHAEFER, P.E.
P.E. NO. 44135



**EXTERIOR ELEVATION;
MULTIPLE FIXED WINDOWS WITH TUBE REINFORCED MULLIONS**
SCALE: 3/4" = 1'-0"

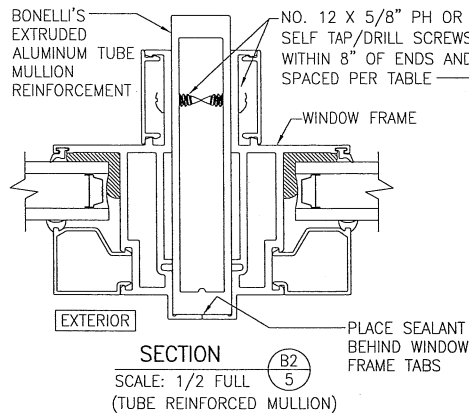
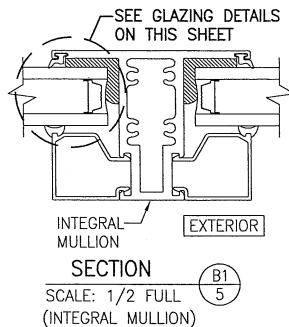
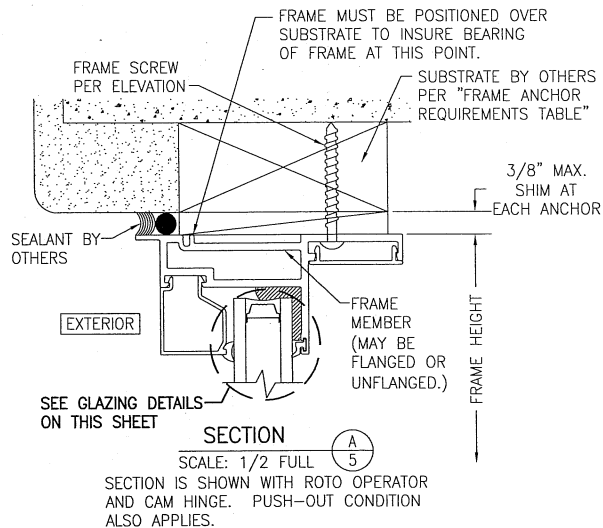
MULTIPLE UNIT NOTES:

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. WINDOWS MAY BE STACKED HORIZONTAL OR VERTICAL. 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. "OO" UNIT IS SHOWN, HOWEVER 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 ELEVATION.

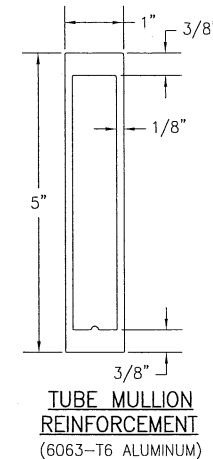
TUBE REINFORCED MULLION ALLOWABLE DESIGN PRESSURE							
MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)		MAXIMUM MULLION SPAN (IN.)	MAXIMUM LOAD WIDTH (IN.)	ALLOWABLE PRESSURE (PSF)	
		4 END ANCHORS	6 END ANCHORS			4 END ANCHORS	6 END ANCHORS
144	84.5	17.0	25.5	102	84.5	44.3	66.5
	72.5	19.1	28.6		72.5	47.0	70.4
	66.5	20.5	30.7		66.5	49.0	73.4
	60.5	22.1	33.2		60.5	51.6	77.3
	54.5	24.2	36.3		56.5	53.7	80.0
	48.5	26.9	40.4		54.5	54.9	80.0
	42.5	30.4	45.6		48.5	59.4	80.0
	36.5	35.0	52.6		42.5	65.2	80.0
	30.5	41.5	62.3		36.5	73.2	80.0
	24.5	51.4	77.2		32.5	80.0	80.0
	23.5	53.6	80.0	96	84.5	49.3	73.9
	21.5	58.5	80.0		72.5	51.7	77.5
	18.5	67.9	80.0		66.5	53.6	80.0
	84.5	22.7	34.1		60.5	56.3	80.0
132	72.5	25.3	37.9		54.5	59.7	80.0
	66.5	27.0	40.6		48.5	64.3	80.0
	60.5	29.2	43.7		42.5	70.5	80.0
	54.5	31.8	47.7		36.5	78.9	80.0
	48.5	35.2	52.8		35.5	80.0	80.0
	42.5	39.7	59.6	90	84.5	55.5	80.0
	36.5	45.8	68.6		72.5	57.4	80.0
	30.5	54.1	80.0		66.5	59.3	80.0
	24.5	66.9	80.0		60.5	61.9	80.0
	21.5	76.1	80.0		54.5	65.5	80.0
	19.5	80.0	80.0		48.5	70.2	80.0
	84.5	30.7	46.0		42.5	76.6	80.0
	72.5	33.9	50.8		39.5	80.0	80.0
	66.5	36.3	54.4	84	84.5	63.4	80.0
	60.5	39.2	58.8		72.5	64.7	80.0
	54.5	42.7	64.1		66.5	66.3	80.0
	48.5	47.3	70.9		60.5	68.8	80.0
	42.5	53.3	80.0		54.5	72.4	80.0
	36.5	60.3	80.0		48.5	77.2	80.0
	30.5	70.1	80.0		45.5	80.0	80.0
	25.5	80.0	80.0		78.5	73.6	80.0
120	84.5	39.6	59.4		72.5	73.9	80.0
	72.5	43.0	64.5	78	66.5	75.2	80.0
	66.5	45.0	67.5		60.5	77.5	80.0
	60.5	47.6	71.4		55.5	80.0	80.0
	54.5	50.9	76.3		74	74.5	80.0
	50.5	53.6	80.0	108	84.5	39.6	59.4
	48.5	55.1	80.0		72.5	43.0	64.5
	42.5	60.7	80.0		66.5	45.0	67.5
	36.5	68.3	80.0		60.5	47.6	71.4
	30.5	79.1	80.0		54.5	50.9	76.3
	29.5	80.0	80.0		50.5	53.6	80.0

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.

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1=16		DATE: 07/08/19	
DATE	BY	NO.	REVISION DESCRIPTION
DRAWING TITLE: PELLA NON-IMPACT ALUMINUM DIRECT GLAZE FIXED WINDOWS CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424 MANUFACTURER: PELLA CORPORATION 8291 FORSHEE DRIVE, UNIT 4 JACKSONVILLE, FL 32219 904-632-7400			
CERTIFICATION: JUL 08 2019 W. W. SCHAEFER, P.E. NO. 448135		SHEET NO. 4 OF 5	

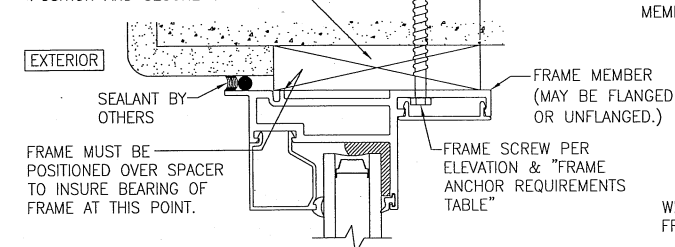


ANCHOR SPACING REQUIREMENTS (ALL SIDES)	
WINDOW FRAME SHORT DIMENSION	MAXIMUM SPACING
GREATER THAN 42"	12"
27" TO 42"	15"
LESS THAN 27"	18"



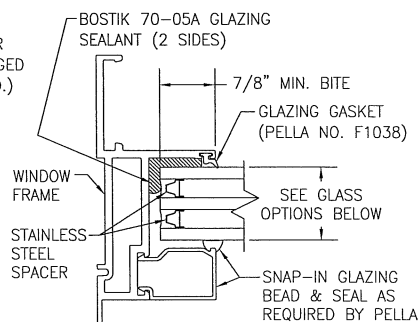
CONTINUOUS WOOD MEMBER LESS IN THICKNESS THAN A 2X BUCK TO BE MIN. 3 1/2" DEEP (NOT REQUIRED WHEN SHIM SPACE IS WITHIN ALLOWABLE DIMENSIONS SHOWN IN SECTIONS). NAIL OR SCREW TO SUBSTRATE AS REQUIRED TO POSITION AND SECURE IN PLACE.

- OPTIONAL FLANGED FRAME**
- INSTALLATION SECTIONS/DETAILS HERE-IN ARE SHOWN WITH A FLANGE-LESS FRAME MEMBER. A FLANGED FRAME ALSO APPLIES EXCEPT SEALANT IS TYPICALLY PLACED BEHIND THE FLANGE BETWEEN IT AND THE SUBSTRATE OR FINISH.
 - FLANGE-LESS FRAME MEMBER IS THE FLANGED MEMBER WITHOUT THE FLANGE.



OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

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



TYPICAL GLAZING DETAIL (TRIPLE PANE I.G. CONDITION)

TRIPLE PANE I.G. GLASS OPTIONS:

- OPTION 4: 1 1/4" THICK I.G. GLASS (5 mm ANNEALED OR H.S./8 mm SPACER/5 mm ANNEALED OR H.S./8 mm SPACER/5 mm ANNEALED OR H.S.)
- OPTION 5: 1 1/4" THICK I.G. GLASS (5 mm TEMPERED/8 mm SPACER/5 mm TEMPERED/8 mm SPACER/5 mm TEMPERED)

GLASS EDGE SHIM REQUIREMENTS:
MIN. 1/8" THICK X 2" LONG FLEXIBLE PVC SHIMS APPROXIMATELY 3" OFF CORNERS AND 16" MAX. O.C. AT ALL SIDES. WIDTH OF SHIM SHALL BE AS REQUIRED TO MEET THE OVERALL GLASS THICKNESS.

TYPICAL GLAZING DETAIL (DOUBLE PANE I.G. CONDITION)

DOUBLE PANE I.G. GLASS OPTIONS:

- OPTION 1A 1" THICK I.G. GLASS (5 mm ANNEALED/14.5 mm SPACER/5 mm ANNEALED)
- OPTION 1B 1" THICK I.G. GLASS (6 mm ANNEALED/13 mm SPACER/6 mm ANNEALED)
- OPTION 2A 1" THICK I.G. GLASS (5 mm H.S./14.5 mm SPACER/5 mm H.S.)
- OPTION 2B 1" THICK I.G. GLASS (6 mm H.S./13 mm SPACER/6 mm H.S.)
- OPTION 3A 1" THICK I.G. GLASS (5 mm TEMPERED/13 mm SPACER/5 mm TEMPERED)
- OPTION 3B 1" THICK I.G. GLASS (6 mm TEMPERED/13 mm SPACER/6 mm TEMPERED)

DRAWN BY: WWS		CHECKED BY: WWS	
PLOT: 1-15		DATE: 07/08/19	
NO.	REVISION	DATE	DESCRIPTION
1			
PELLA NON-IMPACT ALUMINUM DIRECT GLAZE FIXED WINDOWS			
PELLA CORPORATION 8291 FORSHEE DRIVE, UNIT 4 JACKSONVILLE, FL 32219 904-632-7400			
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE 561-744-3424			
DRAWING TITLE PELLA NON-IMPACT ALUMINUM DIRECT GLAZE FIXED WINDOWS			
CERTIFICATION JUL 08 2019 W. W. SCHAEFER P.E. NO. 44135			
DRAWING NO. 1951A			
SHEET NO. 5 OF 5			