

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.

GLASS D.L.O. SIZE TABLE

GLASS OPTIONS	MAXIMUM ALLOWABLE GLASS D.L.O. AREA	
	(SQ.FT.)	(SQ.IN.)
1A & 1B	10.0	1446
2A & 2B	* 18.7	* 2690
3	* 18.7	* 2690
*18.7 SQ.FT. IS THE LARGEST WINDOW SIZE OF 42" X 84"		
NOTE: D.L.O. AREA SPECIFIED IS AS RESTRICTED BY THAT TESTED.		
FOR GLASS OPTIONS, SEE GLAZING DETAILS ON SHEET 8.		

GLASS OPTIONS 1A & 1B SHALL NOT BE USED IN WINDOWS RATED FOR DESIGN PRESSURES GREATER THAN +/-80 PSF.

WINDOW HARDWARE REQUIRED:

LOCKS: MULTI-POINT LOCKS AND KEEPERS AT LOCK SIDE OF THE WINDOW. SEE "LOCK QUANTITY REQUIREMENTS TABLE" FOR LOCK POINT QUANTITY REQUIRED.
SNUBBERS: PELLA NUMBER F1059 SNUBBERS TO BE LOCATED AT THE HINGE SIDE. SEE "SNUBBER QUANTITY REQUIREMENTS TABLE" FOR SNUBBER QUANTITY REQUIRED.
OPERATOR: OPTION 1 = ROTO OPERATOR LOCATED AT SILL. OPTION 2 = PUSH-OUT
HINGE: OPTION 1 = BARREL HINGES AT TOP & BOTTOM OF HINGE SIDE. OPTION 2 = CAM HINGES AT TOP & BOTTOM OF SASH

NOTE: ALL HARDWARE SHALL BE THOSE MODELS AND BRANDS USED IN THE TESTING APPLICABLE TO THIS APPROVAL EXCEPT THAT VARIATIONS IN BAR LENGTHS MAY APPLY TO THE OPERATOR, HINGES & LOCKS AS REQUIRED TO MEET EACH WINDOW SIZE.

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.

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

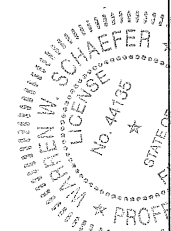
DATE	BY	REVISION DESCRIPTION	NO.

DRAWING TITLE: PELLA NON-IMPACT ALUMINUM VENT CASEMENT WINDOWS
PELLA CORPORATION
8291 FORSHEE DRIVE, UNIT 4
JACKSONVILLE, FL 32219
904-632-7400

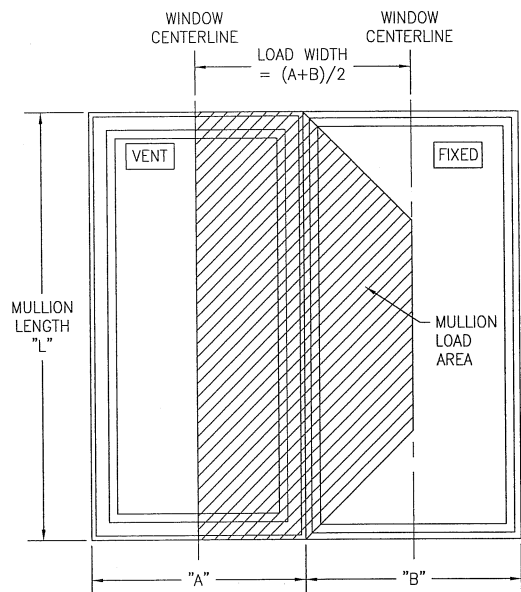


CONSULTANTS
W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)
7480 150TH COURT NORTH
PALM BEACH, FL 33418
PHONE: 561-744-3424

DRAWING NO. 1958A
SHEET NO. 1 OF 8
W. W. SCHAEFER, P.E.
P.E. NO. 44135

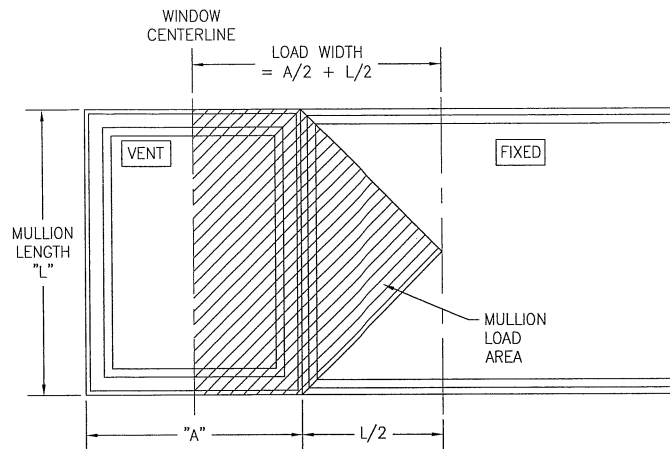


THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.



LOAD WIDTH OF A VENT-FIXED COMBINATION
WHEN THE FIXED WINDOW WIDTH IS LESS
THAN THE MULLION SPAN

NOTE: LOAD WIDTH FOR VENT-VENT COMBINATIONS IS ALSO $A+B/2$ EXCEPT LOAD AREA IS RECTANGULAR BOTH SIDES OF MULLION.



LOAD WIDTH OF A VENT-FIXED COMBINATION WHEN
THE FIXED WINDOW WIDTH IS 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

NO.	REVISION	DESCRIPTION	BY	DATE

PELLA NON-IMPACT ALUMINUM VENT CASEMENT WINDOWS

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



MANUFACTURER
PELLA
CONSULTANTS
W. W. SCHAEFER ENGINEERING
& CONSULTING, P.A. (CA 6809)
1405 E. COAST HWY. SUITE 33418
PALM BEACH GARDENS, FL 33418
PHONE: 561-744-3424

DRAWING TITLE

DRAWING NO. 1958A
SHEET NO. 3 OF 8



INTERFERENCE OCCURS.

4" 4" 4" 4"

4" 4" 4" 4"

84" MAX. FRAME HEIGHT

42" MAX. FRAME WIDTH

42" MAX. FRAME WIDTH

MAX. FRAME WIDTH PER FIXED WINDOW APPROVAL

WINDOW CENTERLINE

WINDOW CENTERLINE

FOR MAX. LOAD WIDTH, SEE "MULLION PRESSURE TABLE" ON THIS SHEET

FOR MAX. LOAD WIDTH, SEE "MULLION PRESSURE TABLE" ON THIS SHEET

SEE SINGLE WINDOW ELEVATION FOR FRAME ANCHOR REQUIREMENTS & POSITIONS AROUND CASEMENT WINDOWS

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

SEE FIXED WINDOW APPROVAL FOR FRAME ANCHOR REQUIREMENTS AND POSITIONS AROUND FIXED WINDOW

SEE DIAGRAMS ON SHEET 3 FOR DETERMINATION OF LOAD WIDTH.

FIXED WINDOW. SEE DRAWING NO. 1951A UNDER SEPARATE APPROVAL FOR DETAILS.

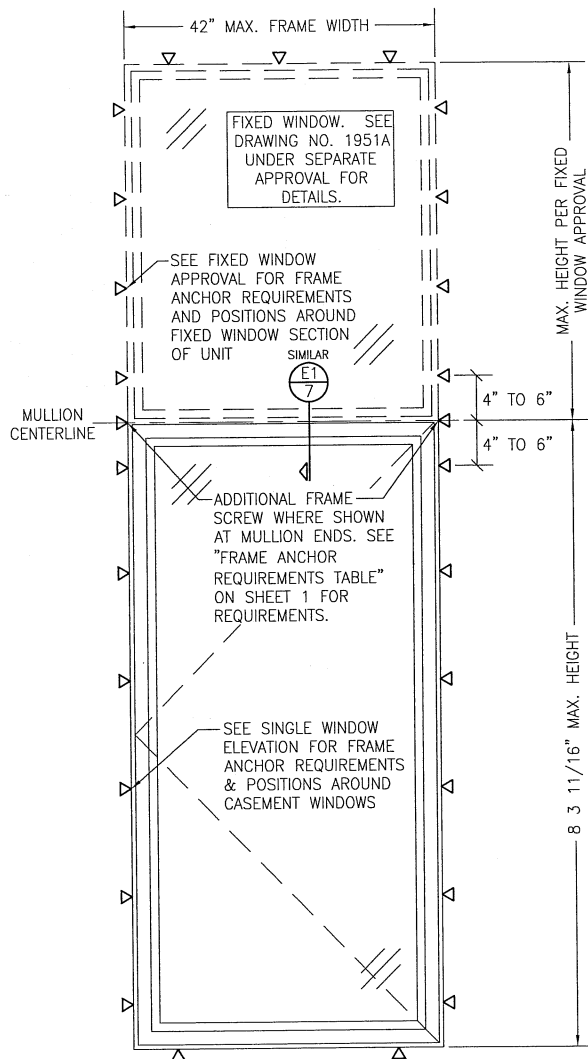
D2 7

E2 8

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

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.

DRAWING NO. 1958A	SHEET NO. OF 8	REV.	CERTIFICATION # SEP-08-706	PULLER'S SIGNATURE 	DATE OF PULLING SEP-08-2008	DRAWING TITLE PELLA NON-IMPACT ALUMINUM VENT CASEMENT WINDOWS	DRAWN BY: W.W.S. CHECKED BY: W.W.S.	PLLOT: 1=16 DATE: 07/08/19	NO.	REVISION DESCRIPTION	BY	DATE
			CONSULTANTS W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, SUITE 118 PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424						MANUFACTURER PELLA CORPORATION 8291 FORSHEE DRIVE, UNIT 4 JACKSONVILLE, FL 32219 904-632-7400			



EXTERIOR ELEVATION:
CASEMENT WITH TRANSOM &
INTEGRAL MULLIONS
SCALE: 3/4" = 1'-0"

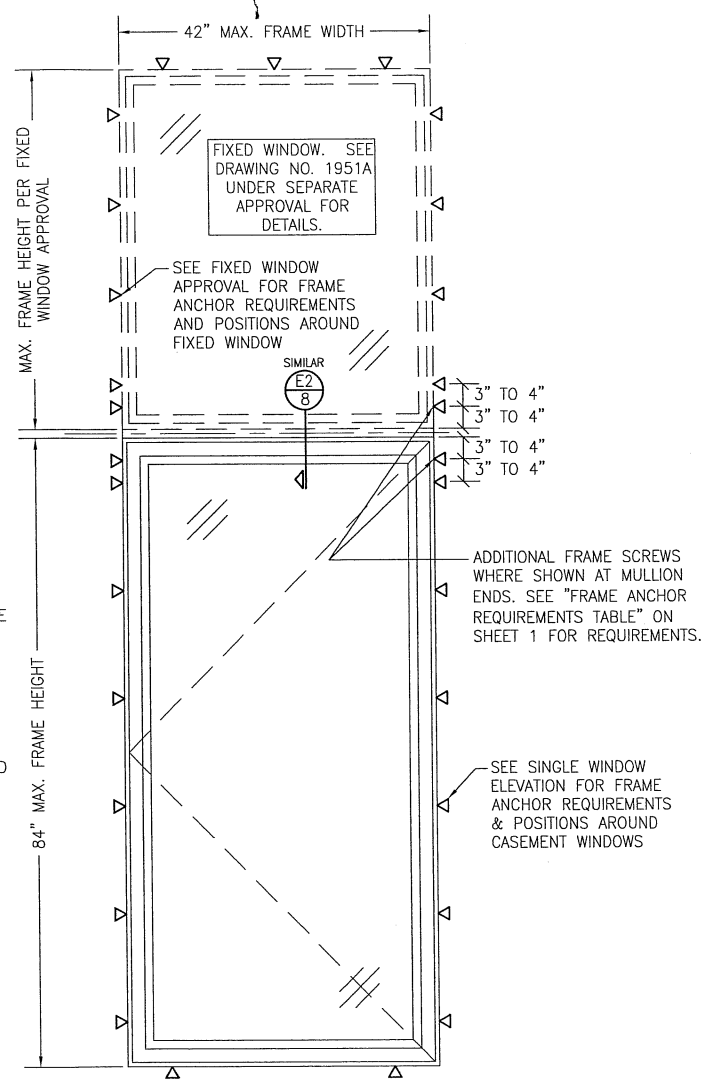
MULTIPLE UNIT NOTES:

1. FOR ALL DETAIL NOT SHOWN, SEE SINGLE WINDOW ELEVATION.
2. THERE IS NO LIMIT ON THE NUMBER OF WINDOWS THAT MAY BE COMBINED VERTICALLY INTO ONE OPENING PROVIDING THE OPENING IS DESIGNED TO SUPPORT ALL LOADS TRANSFERRED FROM THE WINDOWS & THEIR MULLIONS.
3. O/X UNITS ARE SHOWN. ALL QUANTITIES OF OPERABLE TO OPERABLE AND OPERABLE TO FIXED APPLY UNDER THE GUIDELINES OF NOTE 2 ABOVE.

MULLION ALLOWABLE DESIGN PRESSURE (HORIZONTAL MULLIONS)

+/-100 PSF

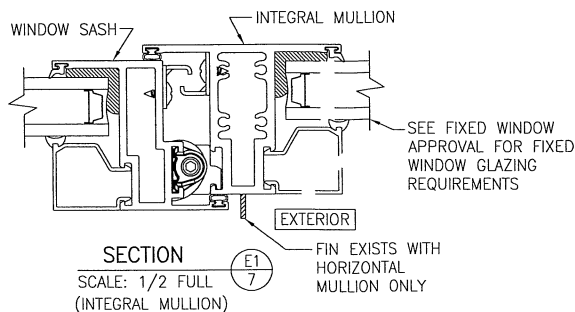
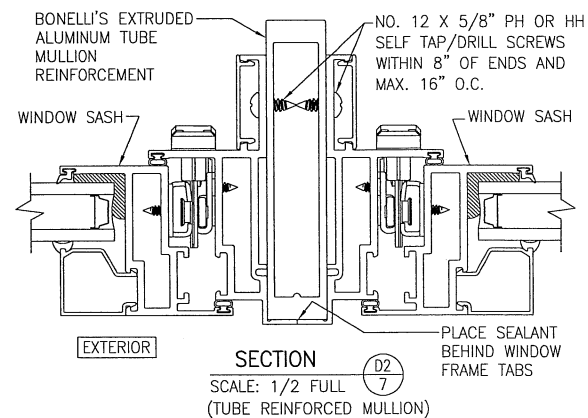
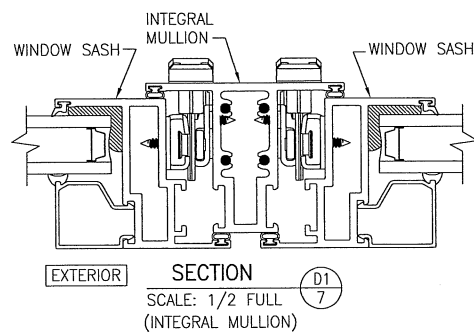
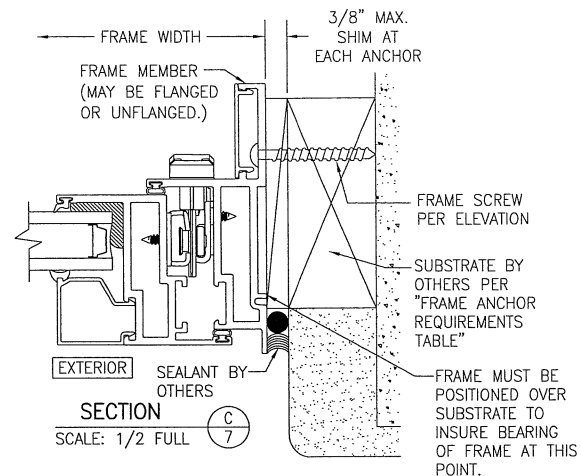
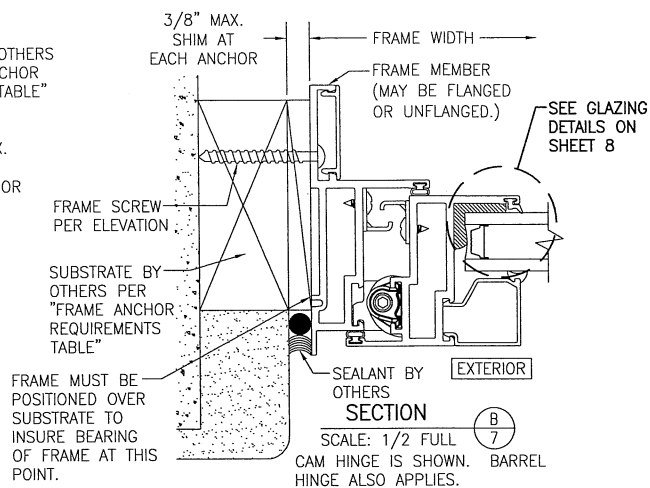
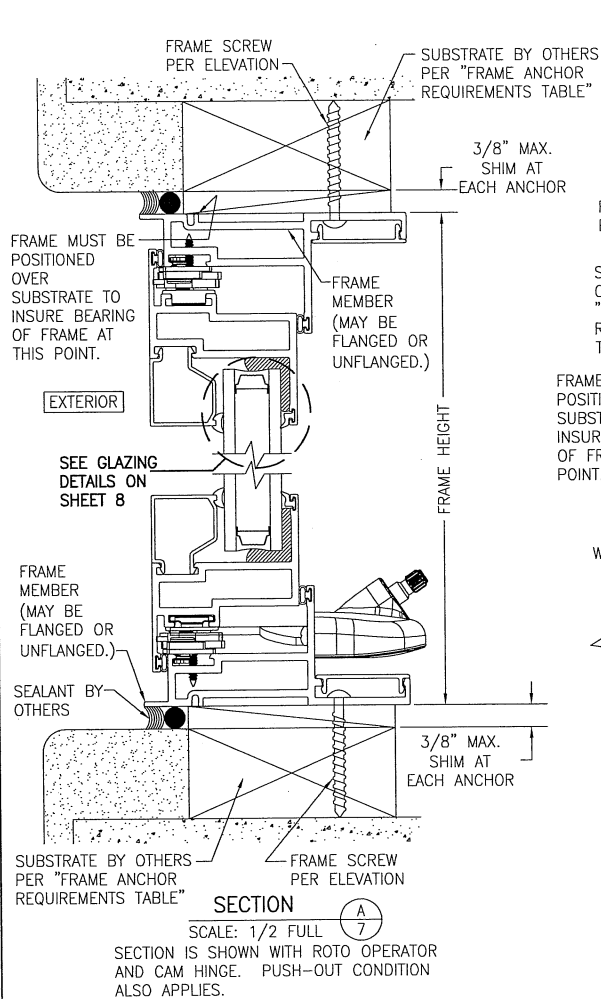
ALLOWABLE UNIT PRESSURE
SHALL BE THE LESSER OF THE
PRESSURE SHOWN IN THIS TABLE
& THAT SPECIFIED FOR THE
INDIVIDUAL WINDOWS.



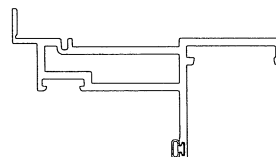
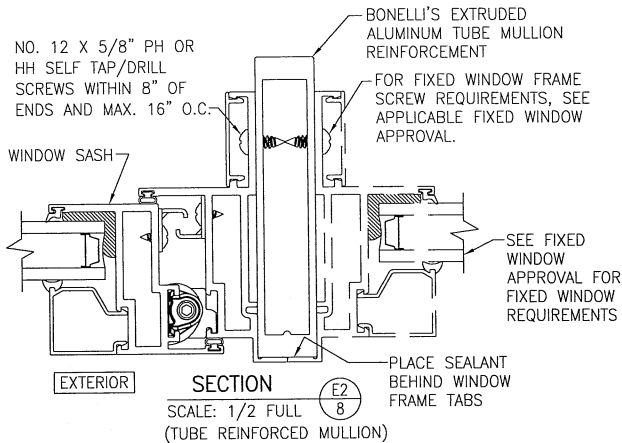
CASEMENT WITH TRANSOM & TUBE
REINFORCED MULLIONS
SCALE: 3/4" = 1'-0"



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PLOT: 1=16		DATE: 07/08/18	
NO.	REVISION DESCRIPTION	DATE	BY
DRAWING TITLE: PELLA NON-IMPACT ALUMINUM VENT CASEMENT WINDOWS			
CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)		PELLA CORPORATION	
7480 150TH COURT NORTH, SUITE 318 PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424		8291 FORSHEE DRIVE, UNIT 4 JACKSONVILLE, FL 32219 904-632-7400	
MANUFACTURER: Pella			
CERTIFICATION: No. 44135			
SEP 03 2019			
WARREN W. SCHAEFER, P.E.			
No. 44135			
DRAWING NO. 1958A		REV.	
SHEET NO. 6		OF 8	



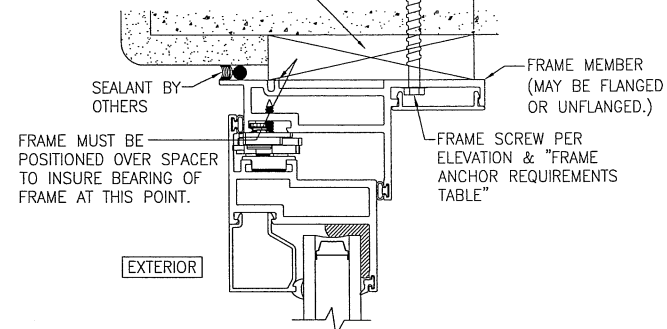
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PLOT: 1-15	DATE: 07/08/19
DATE	
BY	
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DRAWING TITLE PELLA NON-IMPACT ALUMINUM VENT CASEMENT WINDOWS	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809) 7480 150TH COURT NORTH, SUITE 118 PALM BEACH GARDENS, FL 33418 PHONE: 561-744-5424	
MANUFACTURER PELLA CORPORATION 8291 FORSHEE DRIVE, UNIT 4 JACKSONVILLE, FL 32219 904-632-7400	
STATE OF FLORIDA PROFESSIONAL ENGINEER W. W. SCHAEFER, P.E. No. 44135 SEP 13 2019 WARREN W. SCHAEFER, P.E. P.E. NO. 44135	
DRAWING NO. 1958A	REV.
SHEET NO. 7 OF 8	



OPTIONAL FLANGED FRAME

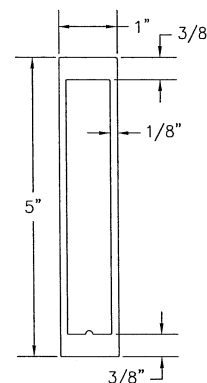
- INSTALLATION SECTIONS/DETAILS HERE-IN ARE SHOWN WITH A FLANGE-LESS FRAME MEMBER. A FLANGED FRAME ALSO APPLIES EXCEPT SEALANT IS TYPICALLY PLACED BEHIND THE FLANGE BETWEEN IT AND THE SUBSTRATE OR FINISH.
- FLANGE-LESS FRAME MEMBER IS THE FLANGED MEMBER WITHOUT THE FLANGE.

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.



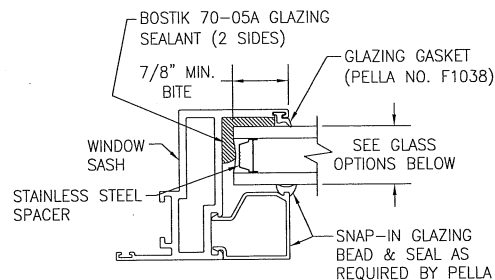
OPTIONAL DIRECT MOUNT DETAIL TO SUBSTRATE WITH SPACER

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



TUBE MULLION REINFORCEMENT

(6063-T6 ALUMINUM)



TYPICAL GLAZING DETAIL

(DOUBLE PANE I.G. CONDITION)

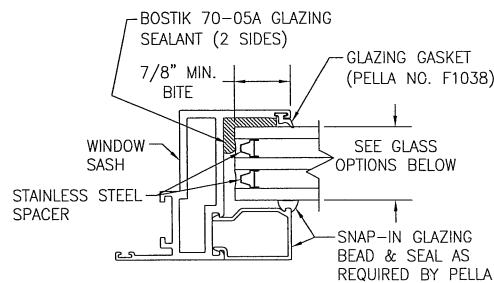
DOUBLE PANE I.G. GLASS OPTIONS:

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. OR TEMPERED/14.5 mm SPACER/5 mm H.S. OR TEMPERED)

OPTION 2B 1" THICK I.G. GLASS (6 mm H.S. OR TEMPERED/13 mm SPACER/6 mm H.S. OR TEMPERED)



TYPICAL GLAZING DETAIL

(TRIPLE PANE I.G. CONDITION)

TRIPLE PANE I.G. GLASS OPTIONS:

OPTION 3: 1 1/4" THICK I.G. GLASS (5 mm ANNEALED, H.S. OR TEMPERED/8 mm SPACER/5 mm ANNEALED, H.S. OR TEMPERED/8 mm SPACER/5 mm ANNEALED, H.S. OR 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.

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MANUFACTURER PELLA	
CONSULTANTS W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6609) 7480 130TH COURT NORTH PALM BEACH GARDENS, FL 33418 PHONE: 561-744-3424	
DRAWING TITLE PELLA NON-IMPACT ALUMINUM VENT CASEMENT WINDOWS	
STATE OF FLORIDA CERTIFICATION W. W. SCHAEFER No. 44135 P.E. NO. 44135	
DRAWING NO. 1958A	
SHEET NO. 8 OF 8	