

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) & IS LARGE MISSILE IMPACT RATED.
5. IMPACT SHUTTERS ARE NOT REQUIRED WITH THIS PRODUCT.
6. ALL ANCHORS SECURING PRODUCT FRAMES TO PRESSURE TREAT 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 NOTED 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.
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.

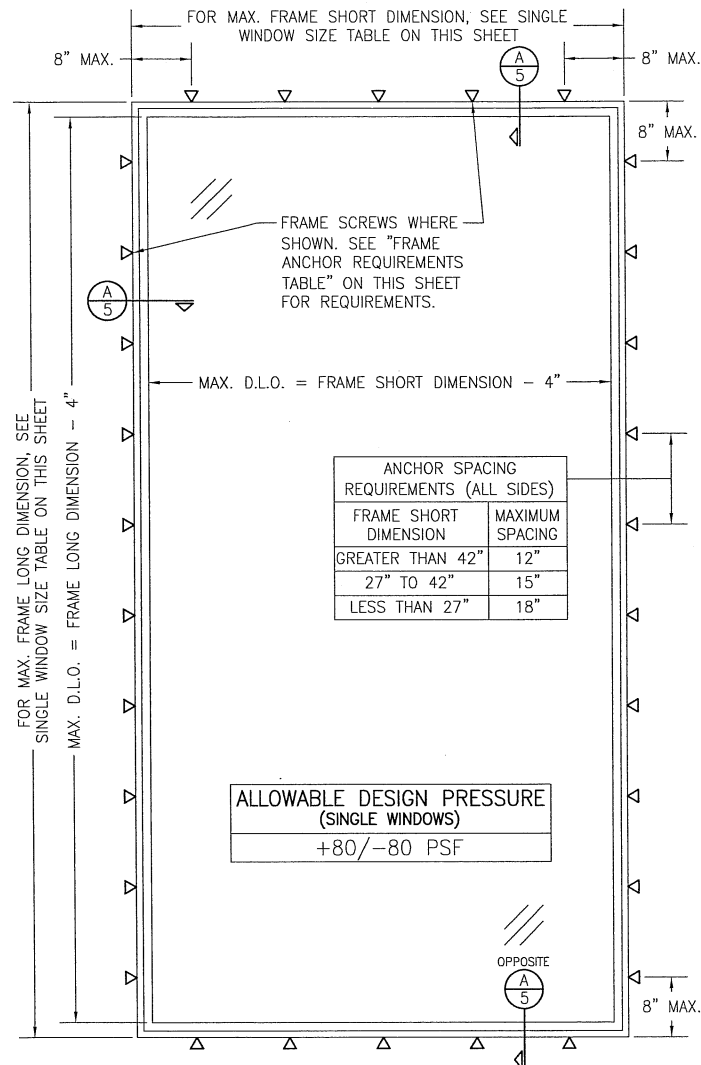
SINGLE WINDOW ALLOWABLE SIZE TABLE

MAXIMUM FRAME LONG DIMENSION (IN.)	MAXIMUM FRAME SHORT DIMENSION (IN.)		
	GLASS OPTION 1A & 1B	GLASS OPTION 2A & 2B	GLASS OPTION 3A & 3B
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.

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 & C=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.

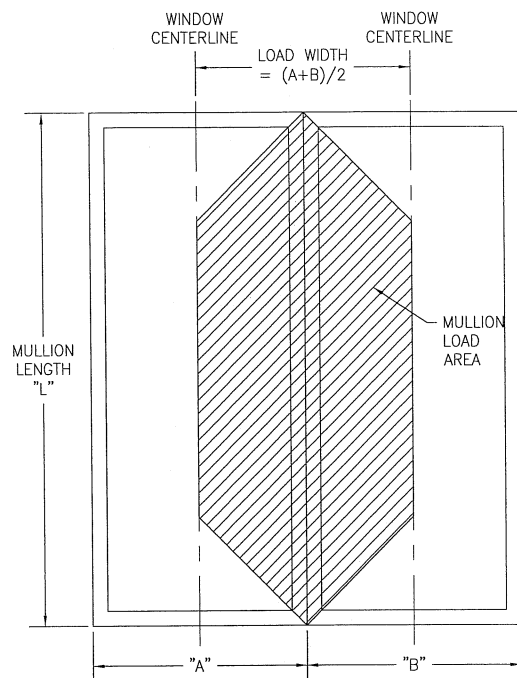


EXTERIOR ELEVATION:
SINGLE DIRECT GLAZE WINDOW

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

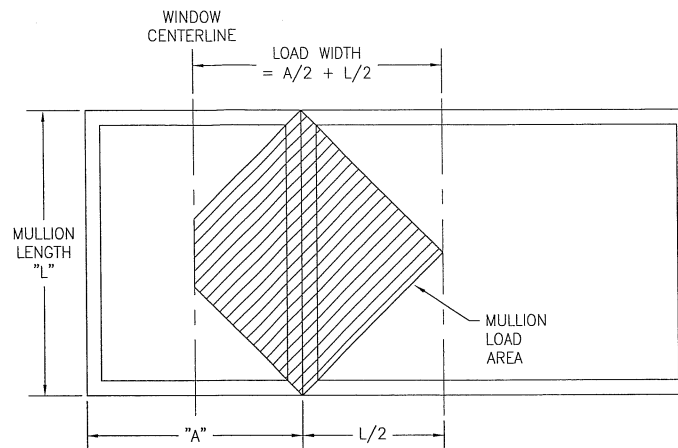
THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

DRAWING NO. 1951	SHEET NO. OF 5	CERTIFICATION JUL 10 8 2019 STATE OF MISSISSIPPI W. SCHAEFFER, P.E. 7480 150TH COURT NORTH PALM BEACH, FL 33418 PHONE: 561-7434-3424	CONSULTANTS W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (CA 6809)	MANUFACTURER 	DRAWING TITLE PELLA IMPACT ALUMINUM DIRECT GLAZE FIXED WINDOWS	DRAWN BY: W.W.S. CHECKED BY: W.W.S. PLOT: 1=16 DATE: 08/20/19			
						NO. REVISION DESCRIPTION BY DATE			

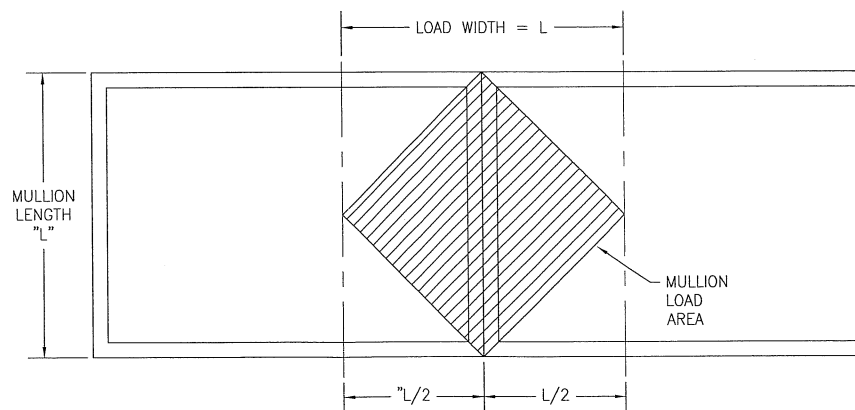


LOAD WIDTH WHEN BOTH WINDOW WIDTHS ARE LESS THAN THE MULLION SPAN

MULLION LOAD WIDTH DETERMINATION

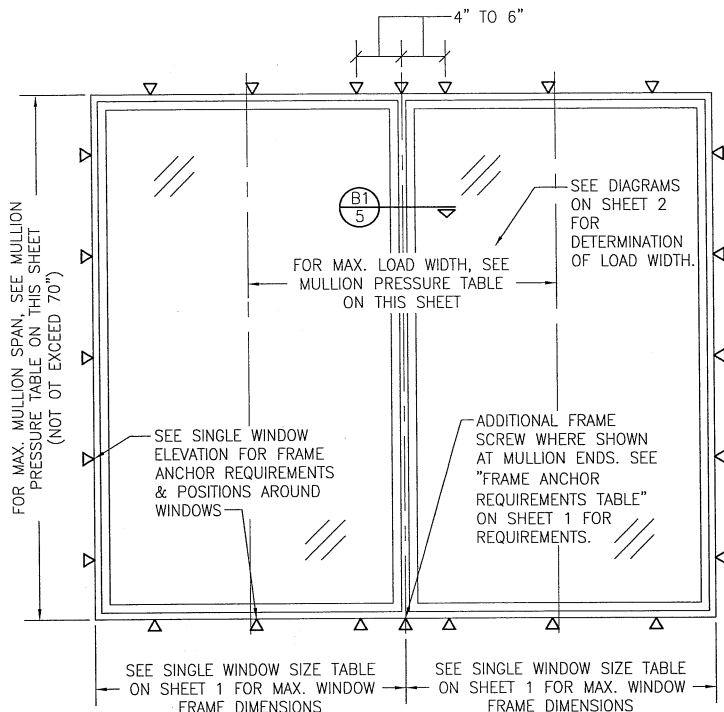


LOAD WIDTH WHEN ONE WINDOW WIDTH IS GREATER THAN OR EQUAL TO THE MULLION SPAN



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

DRAWN BY: W.W.S.		CHECKED BY: W.W.S.	
PLOT: 1-16		DATE: 05/20/19	
DATE	BY	REVISION	DESCRIPTION
DRAWING TITLE PELLA 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: 301-744-3424		MANUFACTURER PELLA CORPORATION 8291 FORSHEE DRIVE; UNIT 4 JACKSONVILLE, FL 32219 904-632-7400	
CERTIFICATION W. W. SCHAEFER ENGINEER No. 44135 05-08-2019			
DRAWING NO. 1951		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
66	24	64.5
	21	72.6
	18	80.0
	66	41.7
	54	43.5
	48	45.9
	42	49.7
	36	55.3
	33	58.5
	30	63.9
60	27	69.7
	24	76.3
	22	80.0
	60	61.0
	54	61.9
	48	64.2
	42	68.7
	39	71.2
	36	75.0
	33	79.0
57	32	80.0
	57	74.9
	54	75.3
56	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: W.W.S.
PLOT: 1-16
CHECKED BY: W.W.S.
DATE: 06/20/19

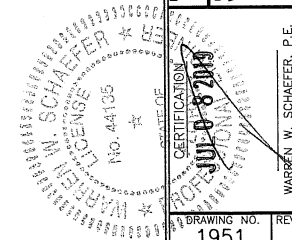
DATE	BY	REVISION DESCRIPTION	NO.

DRAWING TITLE: PELLA IMPACT ALUMINUM DIRECT GLAZE FIXED WINDOWS

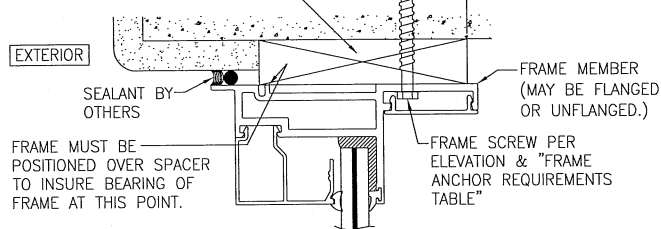
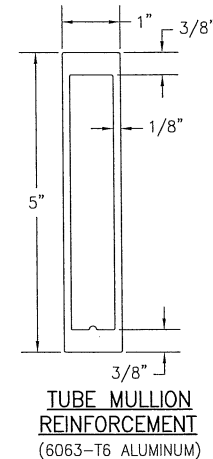
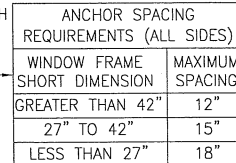
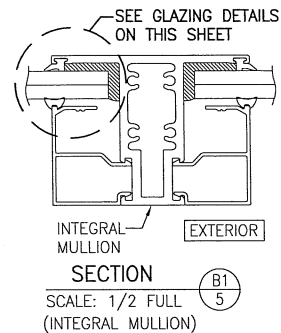
PELLA CORPORATION
8291 FORSHEE DRIVE, UNIT 4
JACKSONVILLE, FL 32219
904-632-7400



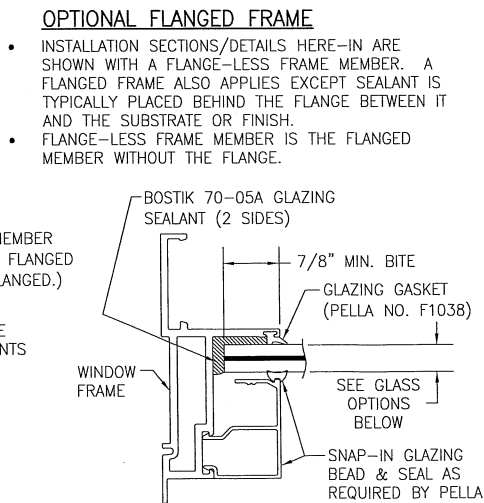
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DRAWING NO. 1951
SHEET NO. 3 OF 5



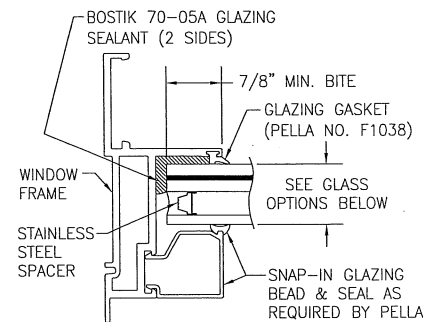
(HEAD SECTION SHOWN; SILL & SIDES ARE INSTALLED THE SAME)
(FOR DETAIL NOT SHOWN, SEE OTHER SECTIONS)



OPTION 1A: 5/16" LAMINATED GLASS (1/8 AN/0.09 KURARAY PVB/1/8 AN)

OPTION 2A: 7/16" LAMINATED GLASS (3/16 AN/0.09 KURARAY PVB/3/16 AN)

OPTION 3A: 9/16" LAMINATED GLASS (1/4 HS/0.09 KURARAY SG/1/4 HS)



OPTION 1B: 1" THICK I.G. GLASS (1/8" AN/0.09 KURARAY PVB/1/8 AN INTERIOR; 1/2" SPACER; MIN. 1/8" ANNEALED OR TEMPERED EXTERIOR)

OPTION 2B: 1" THICK I.G. GLASS (3/16" AN/0.09 KURARAY PVB/3/16 AN INTERIOR; 3/8" SPACER; MIN. 3/16" ANNEALED OR TEMPERED EXTERIOR)

OPTION 1B: 1 1/4" THICK I.G. GLASS (1/4" HS/0.09 KURARAY SG/1/4 HS INTERIOR; 1/2" SPACER; MIN. 3/16" HS OR TEMPERED EXTERIOR)

NOTE: WHEN SILL HEIGHT OF WINDOW EXCEEDS 30 FT. ABOVE GRADE, THE EXTERIOR PANE OF I.G. GLASS MUST BE TEMPERED.

GLASS EDGE SHIM REQUIREMENTS (NON-I.G. & I.G.):
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.

[illegible]