

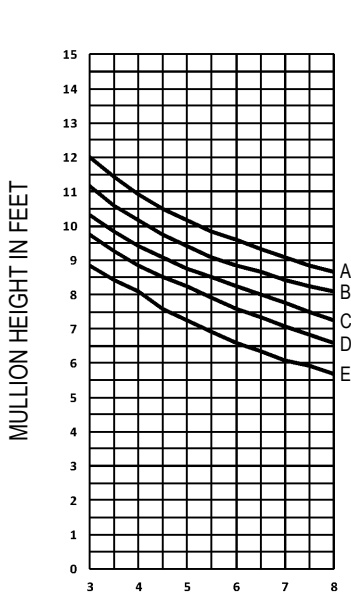


# Windload Charts | AR450+ Series

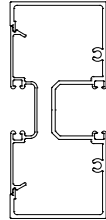
A = 16 P.S.F. (766 Pa)  
 B = 20 P.S.F. (958 Pa)  
 C = 25 P.S.F. (1197 Pa)  
 D = 30 P.S.F. (1436 Pa)  
 E = 40 P.S.F. (1915 Pa)

Description: 2" X 4 1/2" Center Glazed for 3/8", 1/2", 9/16"  
 Function: Storefront  
 Detail: Design Criteria  
 Scale: N.T.S.

SHEET 1 OF 2

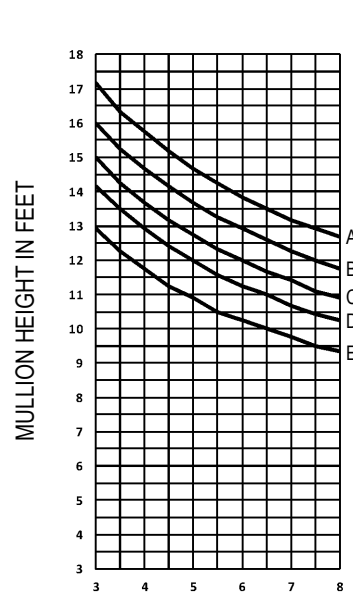


$I = 2.750 \text{ IN}^4$   
 $S_1 = 1.087 \text{ IN}^3$      $S_2 = 0.171 \text{ IN}^3$

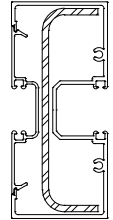


MULLION SPACING IN FEET

M282 / GF280



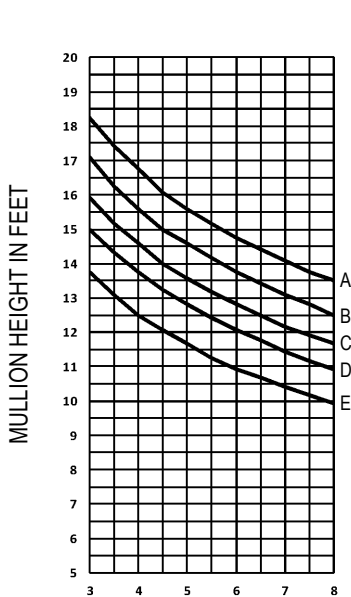
$I = 8.461 \text{ IN}^4$



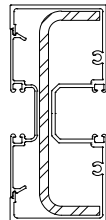
MULLION SPACING IN FEET

M282 / GF280 WITH  
 STEEL REINFORCEMENT  
 1 1/4" X 4 1/4" X 10 GA.

- Mullions are assumed to be single span, simple beam elements, uniformly loaded and adequately braced to prevent lateral-torsional buckling. All other complex design conditions shall be reviewed by Arcadia or a design professional.
- Aluminum extrusions shall be 6063-T6 alloy. Allowable stresses to be derived per Aluminum Design Manual. Deflection limitation of mullions shall be in accordance with AAMA TIR-A11 of L/175 for spans up to 13'-6" and L/240 + 1/4" for all others where L is equal to the span of mullion.
- A design professional shall be consulted to confirm that no lite of glass deflects more than H/175 or 3/4", whichever is less, where H indicates the height of glass.
- For mullions containing steel reinforcement, the reinforcement is assumed to be installed for the full length of the mullion. A design professional shall be consulted for instances where steel reinforcement is installed for a partial length of the mullion span.
- Windload pressure determinations shall be per ASCE 7 and according to local governing codes. A professional engineer shall be consulted for the most current laws and local building codes.
- Selection of perimeter fasteners and attachment of glazing system to building structure are project specific and therefore shall be reviewed and determined by a design professional.
- Arcadia assumes no responsibility for selecting the appropriate systems for specific projects.

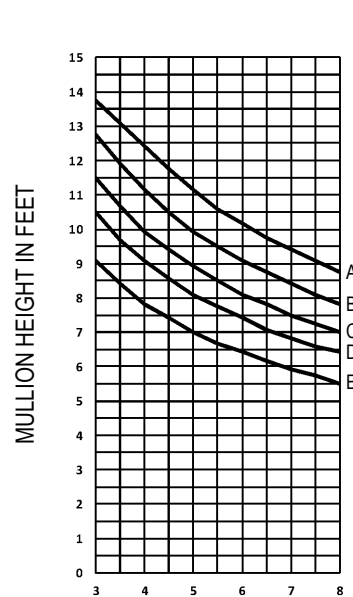


$I = 10.327 \text{ IN}^4$

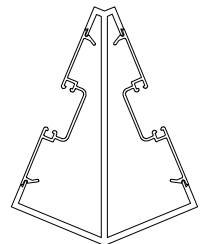


MULLION SPACING IN FEET

M282 / GF280 WITH  
 STEEL REINFORCEMENT  
 1 1/4" X 4 1/4" X 6 GA.



$I = 4.109 \text{ IN}^4$   
 $S_1 = 1.147 \text{ IN}^3$      $S_2 = 0.304 \text{ IN}^3$



MULLION SPACING IN FEET

C145 / GF280

Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.

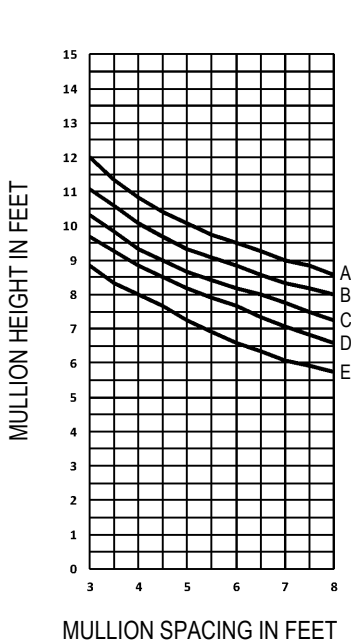


# Windload Charts | AR450+ Series

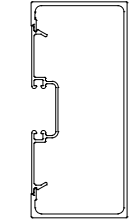
A = 16 P.S.F. (766 Pa)  
 B = 20 P.S.F. (958 Pa)  
 C = 25 P.S.F. (1197 Pa)  
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 E = 40 P.S.F. (1915 Pa)

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 Function: Storefront  
 Detail: Design Criteria  
 Scale: N.T.S.

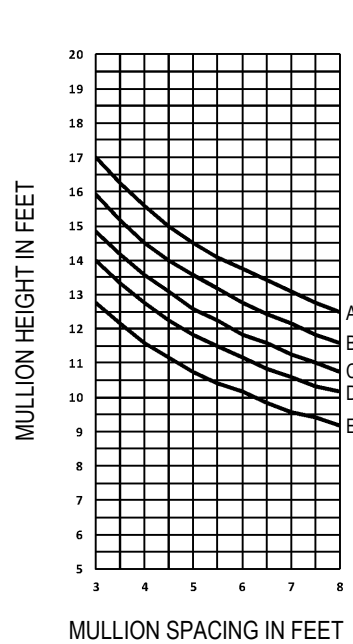
SHEET 2 OF 2



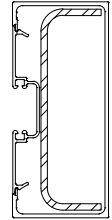
$I = 2.705 \text{ IN}^4$   
 $S_1 = 1.070 \text{ IN}^3$      $S_2 = 0.171 \text{ IN}^3$



DJ201 / GF280



$I = 8.215 \text{ IN}^4$



DJ201 / GF280 WITH  
 STEEL REINFORCEMENT  
 1 1/4" X 4 3/16" X 10 GA.

- Mullions are assumed to be single span, simple beam elements, uniformly loaded and adequately braced to prevent lateral-torsional buckling. All other complex design conditions shall be reviewed by Arcadia or a design professional.
- Aluminum extrusions shall be 6063-T6 alloy. Allowable stresses to be derived per Aluminum Design Manual. Deflection limitation of mullions shall be in accordance with AAMA TIR-A11 of L/175 for spans up to 13'-6" and L/240 + 1/4" for all others where L is equal to the span of mullion.
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- Windload pressure determinations shall be per ASCE 7 and according to local governing codes. A professional engineer shall be consulted for the most current laws and local building codes.
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Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.

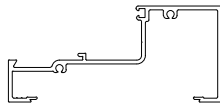
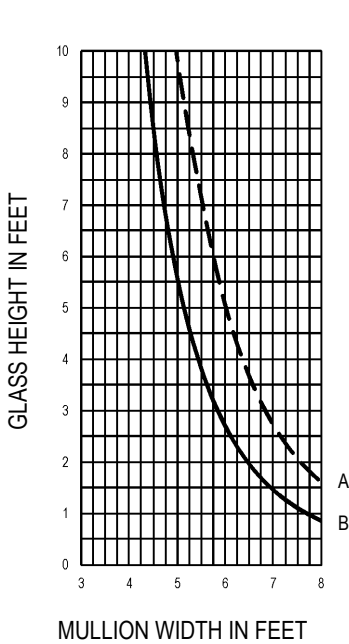


# Deadload Charts | AR450+ Series

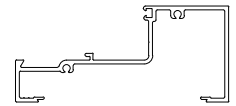
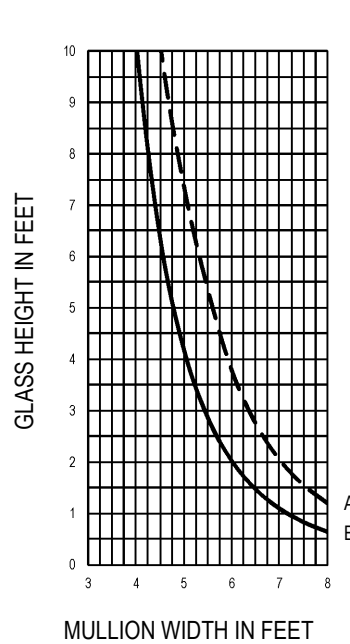
Deadload Charts for 3/8" Glass (4.88 PSF)  
 1/2" Glass (6.50 PSF)  
 9/16" Glass (6.83 PSF)

Description: 2" X 4 1/2" Center Glazed for 3/8", 1/2", 9/16"  
 Function: Storefront  
 Detail: Design Criteria  
 Scale: N.T.S.

SHEET 1 OF 2



HM283 - 3/8" GLASS

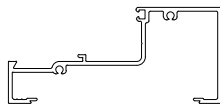
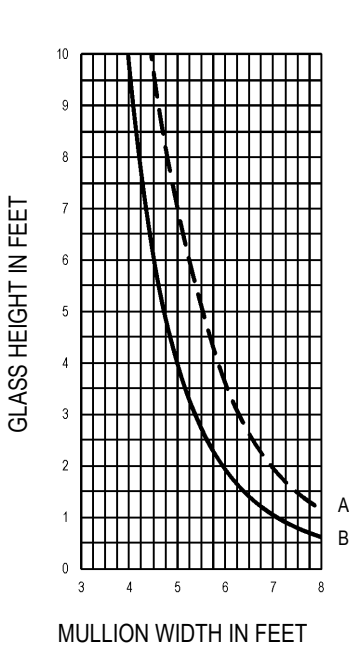


HM283 - 1/2" GLASS

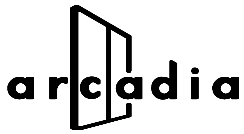
CURVE REPRESENTATION

A (----) = 1/8" PTS.

B (—) = 1/4" PTS.



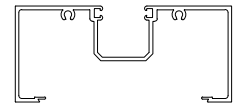
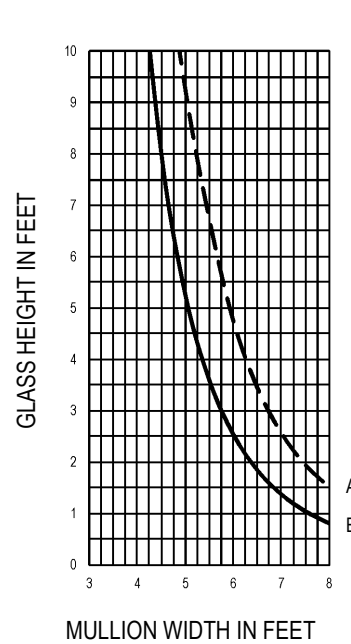
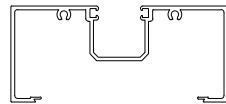
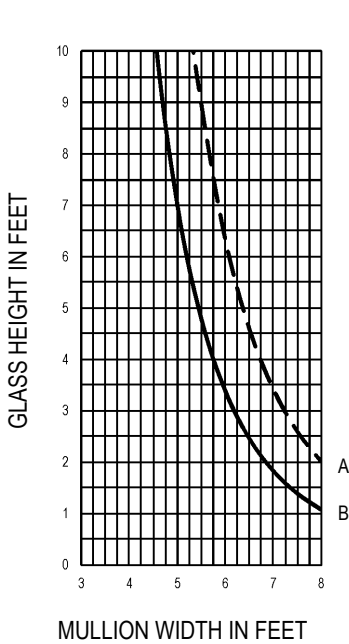
HM283 - 9/16" GLASS



# Deadload Charts | AR450+ Series

Deadload Charts for 3/8" Glass (4.88 PSF)  
 1/2" Glass (6.50 PSF)  
 9/16" Glass (6.83 PSF)

Description: 2" X 4 1/2" Center Glazed for 3/8", 1/2", 9/16"  
 Function: Storefront  
 Detail: Design Criteria  
 Scale: N.T.S.



**CURVE REPRESENTATION**  
 A (----) = 1/8" PTS.  
 B (—) = 1/4" PTS.

