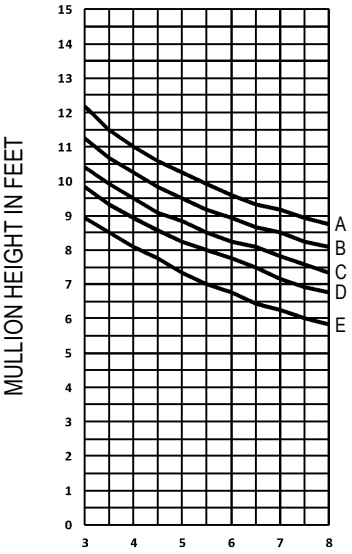
Windload Charts | AR450 Series

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)

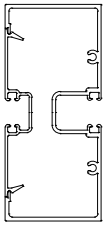
Description: 2" X 4 1/2" Center Glazed for 1/4" Glass
Function: Storefront
Detail: Design Criteria
Scale: N.T.S.

$I = 2.813\ IN^4$

$S_1 = 1.110\ IN^3$ $S_2 = 0.177\ IN^3$

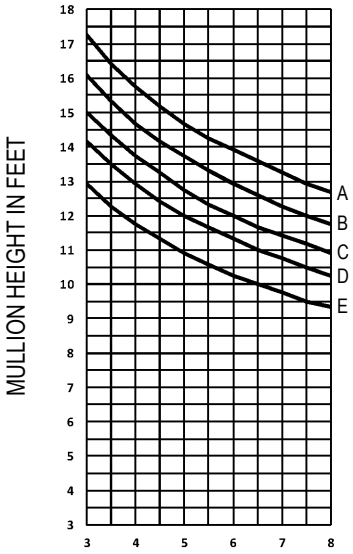


MULLION SPACING IN FEET

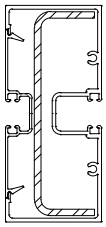


M252 / GF100

$I = 8.524\ IN^4$



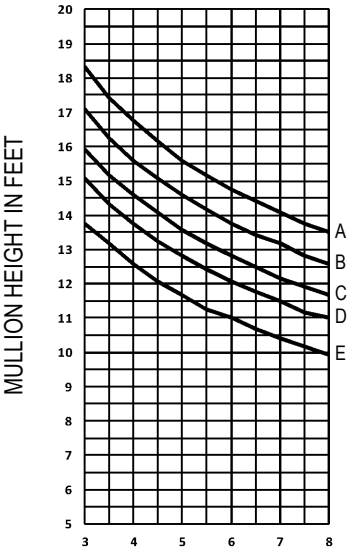
MULLION SPACING IN FEET



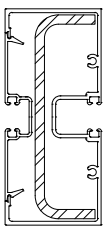
M252 / GF100 WITH STEEL REINFORCEMENT 1 1/4" X 4 1/4" X 10 GA.

- 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.

$I = 10.390\ IN^4$



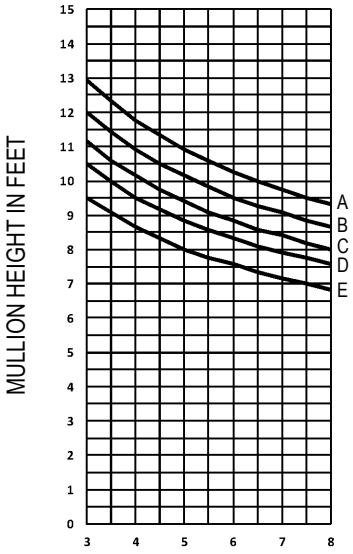
MULLION SPACING IN FEET



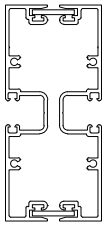
M252 / GF100 WITH STEEL REINFORCEMENT 1 1/4" X 4 1/4" X 6 GA.

$I = 3.414\ IN^4$

$S_1 = 0.759\ IN^3$ $S_2 = 0.759\ IN^3$



MULLION SPACING IN FEET



M159 / M159

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

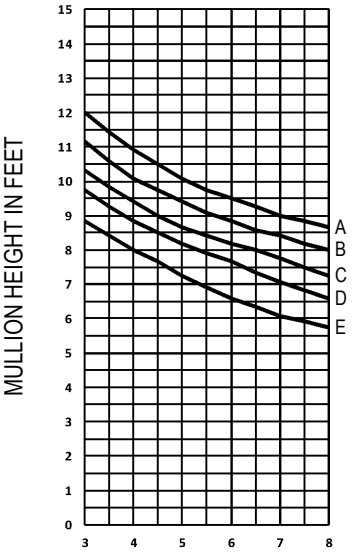
Windload Charts | AR450 Series

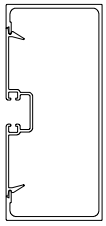
A = 16 P.S.F. (766 Pa)
B = 20 P.S.F. (958 Pa)
C = 25 P.S.F. (1197 Pa)
D = 30 P.S.F. (1436 Pa)
E = 40 P.S.F. (1915 Pa)

Description: 2" X 4 1/2" Center Glazed for 1/4" Glass
Function: Storefront
Detail: Design Criteria
Scale: N.T.S.

$I = 2.716\ IN^4$

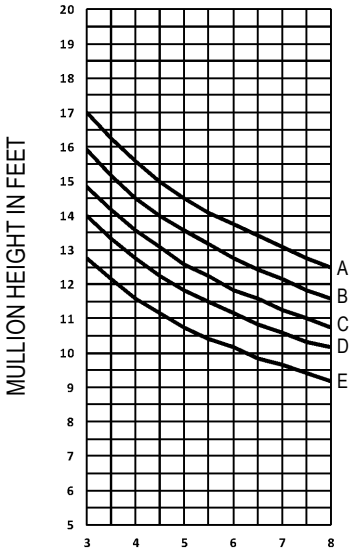
$S_1 = 1.070\ IN^3$ $S_2 = 0.177\ IN^3$

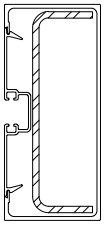




DJ201 / GF100

$I = 8.226\ IN^4$



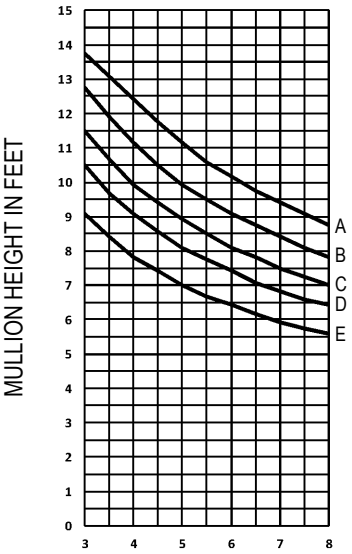


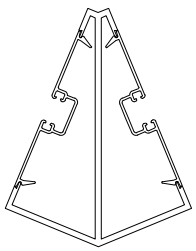
DJ201 / GF100 WITH STEEL REINFORCEMENT 1 1/4" X 4 3/16" X 10 GA.

- 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.
- 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.

$I = 4.109\ IN^4$

$S_1 = 1.147\ IN^3$ $S_2 = 0.316\ IN^3$

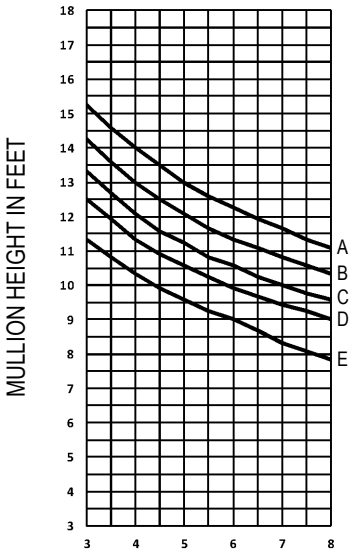


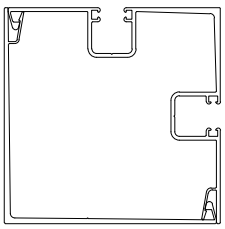


C145 / GF100

$I_x = 4.141\ IN^4$

$I_y = 4.048\ IN^4$





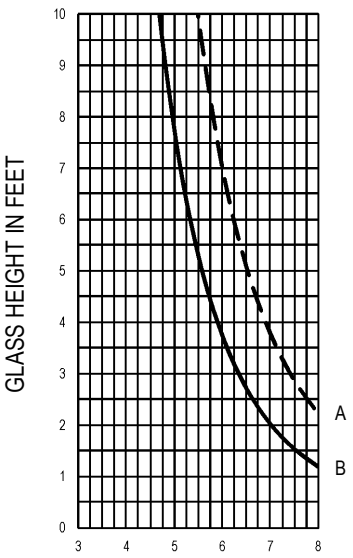
CT151 / CT209

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

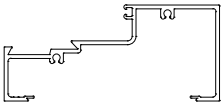
Deadload Charts | AR450 Series

Description: 2" X 4 1/2" Center Glazed for 1/4" Glass
Function: Storefront
Detail: Design Criteria
Deadload Charts for 1/4" Glass (3.25 PSF) | Scale: N.T.S.

I = 0.333 IN^4
S = 0.294 IN^3

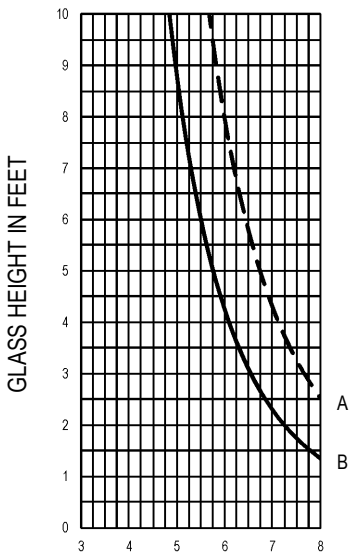


MULLION WIDTH IN FEET

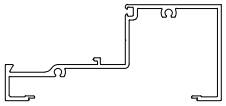


HM253 - 1/4" GLASS

I = 0.378 IN^4
S = 0.374 IN^3



MULLION WIDTH IN FEET



HM326 - 1/4" GLASS

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