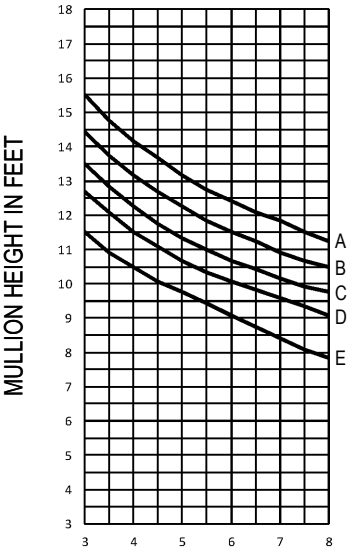
Windload Charts | IP2551 Series

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)

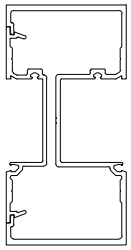
Description: 2 1/2" X 5" Center Glazed For 1 5/16" Glass
Function: Window Wall Impact System (Dry Glazed)
Detail: Design Criteria
Scale: N.T.S.

$I = 6.038\ IN^4$

$S_1 = 2.406\ IN^3$ $S_2 = 0.409\ IN^3$

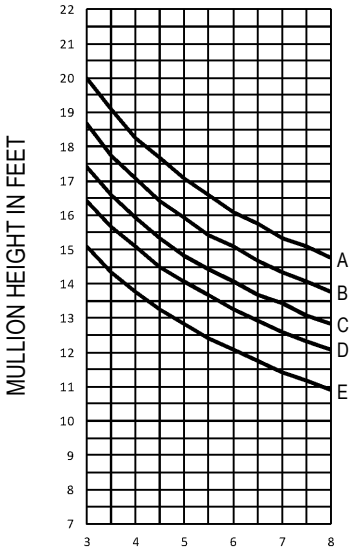


MULLION SPACING IN FEET

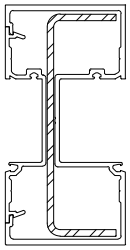


IP5102 / IP5110

$I = 13.787\ IN^4$



MULLION SPACING IN FEET

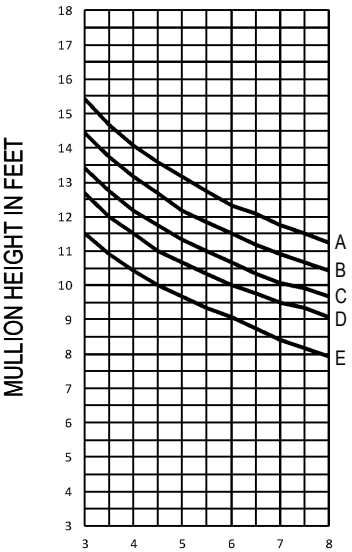


IP5102 / IP5110 WITH STEEL REINFORCEMENT 1 7/16" X 4 5/8" X 10 GA.

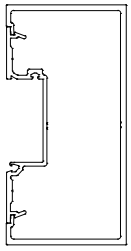
- Mullions are assumed to be single span, simple beam elements, uniformly loaded and adequately braced to prevent lateral-torsional buckling. All other complex design conditions shall be reviewed by Arcadia or a design professional.
- Aluminum extrusions shall be 6063-T6 alloy. Allowable stresses to 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.

$I = 5.965\ IN^4$

$S_1 = 2.042\ IN^3$ $S_2 = 0.409\ IN^3$



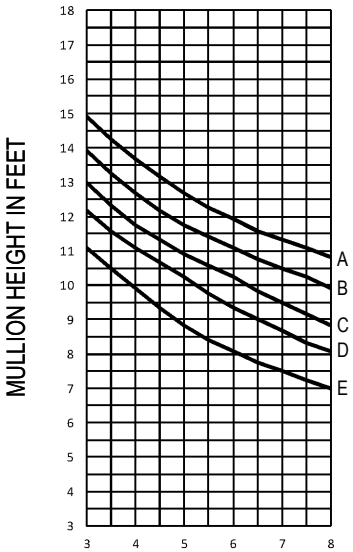
MULLION SPACING IN FEET



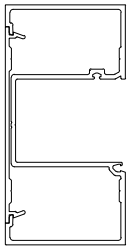
IP525 / IP5110

$I = 5.358\ IN^4$

$S_1 = 1.827\ IN^3$ $S_2 = 0.350\ IN^3$



MULLION SPACING IN FEET

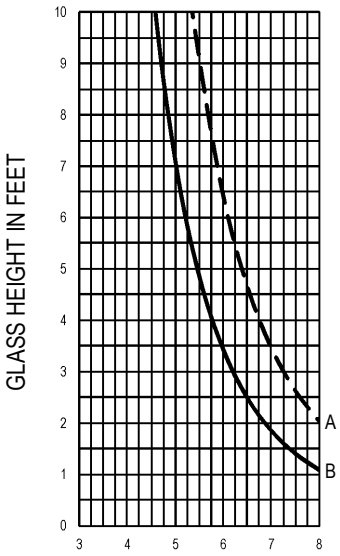


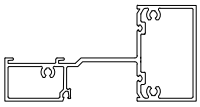
IP5122 / IP500

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

$I = 0.922\ IN^4$

$S = 0.614\ IN^3$





IP-5113 - 1 5/16" GLASS

CURVE REPRESENTATION

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

B (▬) = 1/4" PTS.