Windload Charts | AR750 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)
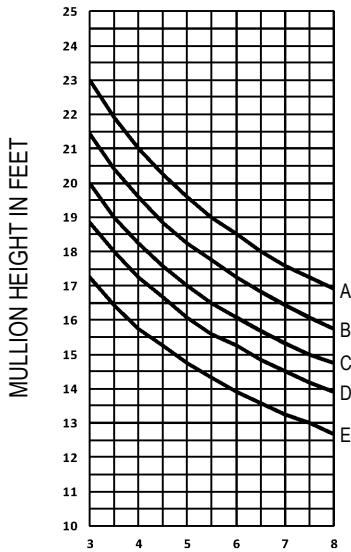
arcadia

Description: 2 3/4" X 7 1/2" Center Glazed for 1/4" Glass
Function: Window Wall
Detail: Design Criteria
Scale: N.T.S.   SHEET 1 OF 1
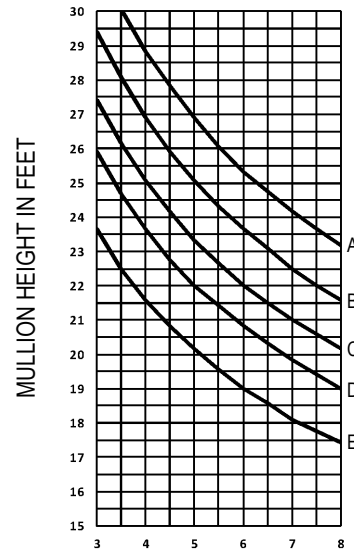
$I = 21.426 \text{ IN}^4$

$S_1 = 5.412 \text{ IN}^3$ $S_2 = 0.533 \text{ IN}^3$

$I = 58.652 \text{ IN}^4$

MULLION HEIGHT IN FEET

MULLION SPACING IN FEET   22700 / HCF121(MOD)

MULLION SPACING IN FEET   22700 / HCF121(MOD) WITH STEEL REINFORCEMENT (2) 1" X 7 1/8" 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.
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Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.

FRAMING-ARCADIA-AR750-WINDLOAD.pdf   As of: 08/11/16