Windload Charts | AFG451T 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)

Scale: N.T.S. SHEET 1 OF 5

I = 2.951 IN $^4$
S = 1.275 IN $^3$
I = 5.161 IN $^4$

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

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Deadload Charts | AFG451T Series

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

Deadload Charts for 1" Glass (7.00 PSF)

AFG451T Series
2" X 4 1/2" Offset Glazed For 1" Glass
Storefront

Design Criteria

N.T.S. 1 2Deadload Charts for 1" Glass (7.00 PSF)

I = 0.320 IN^4
S = 0.233 IN^3

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

I = 0.232 IN^4
S = 0.164 IN^3

I = 0.408 IN^4
S = 0.357 IN^3

I = 0.255 IN^4
S = 0.173 IN^3

FRAMING-ARCADIA-AFG451T-DEADLOAD.pdf As of: 10/23/19
Deadload Charts | AFG451T Series

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

Deadload Charts for 1" Glass (7.00 PSF)

**Curve Representation**

- A (- - -) = 1/8 PTS.
- B (------) = 1/4 PTS.

**TB557 - 1" Glass**

- \( I = 0.421 \text{ in}^4 \)
- \( S = 0.373 \text{ in}^3 \)

**TB558 - 1" Glass**

- \( I = 0.596 \text{ in}^4 \)
- \( S = 0.515 \text{ in}^3 \)

**TB436 - 1" Glass**

- \( I = 0.229 \text{ in}^4 \)
- \( S = 0.161 \text{ in}^3 \)