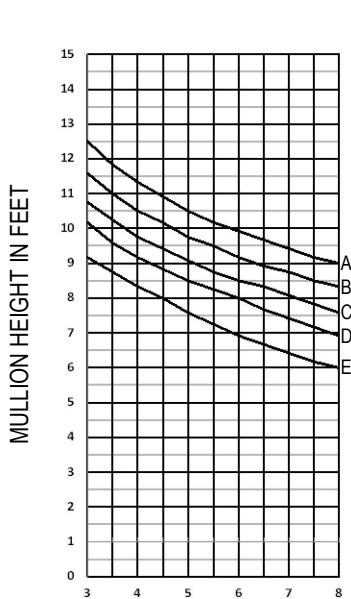


Windload Charts | AG451T Series

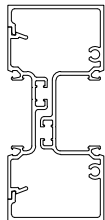
A = 16 P.S.F. (766 Pa) Description: 2" X 4 1/2" Center Glazed for 1" Glass
 B = 20 P.S.F. (958 Pa) Function: Storefront
 C = 25 P.S.F. (1197 Pa) Detail: Design Criteria
 D = 30 P.S.F. (1436 Pa) Scale: N.T.S.
 E = 40 P.S.F. (1915 Pa)

SHEET 1 OF 3



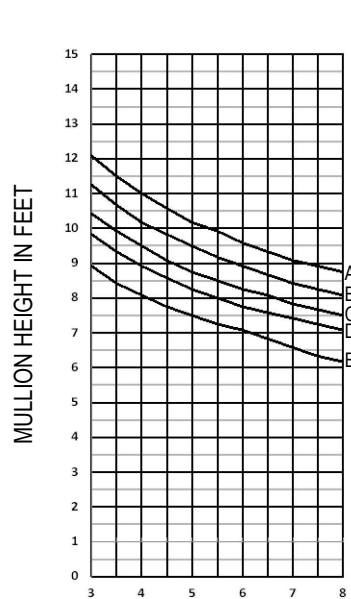
$$I = 3.052 \text{ IN}^4$$

$$S_1 = 1.135 \text{ IN}^3 \quad S_2 = 0.256 \text{ IN}^3$$



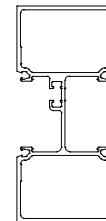
MULLION SPACING IN FEET

TG202 / TG210



$$I = 2.792 \text{ IN}^4$$

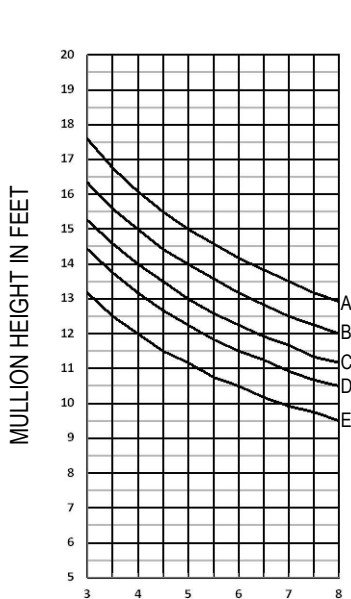
$$S = 1.229 \text{ IN}^3$$



MULLION SPACING IN FEET

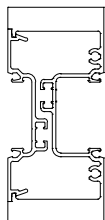
TG215

- 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.



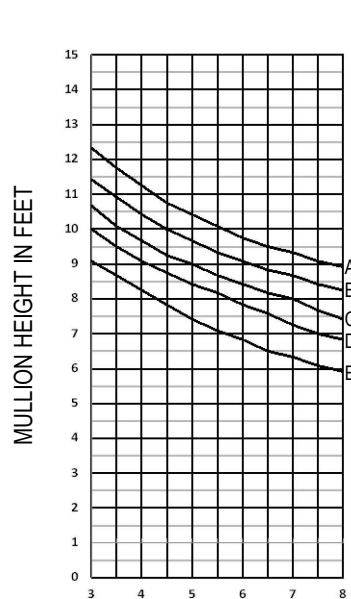
$$I = 9.061 \text{ IN}^4$$

$$S_1 = 3.806 \text{ IN}^3 \quad S_2 = 0.256 \text{ IN}^3$$



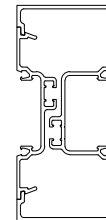
MULLION SPACING IN FEET

TG212 / TG210



$$I = 2.962 \text{ IN}^4$$

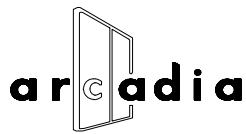
$$S_1 = 1.098 \text{ IN}^3 \quad S_2 = 0.256 \text{ IN}^3$$



MULLION SPACING IN FEET

TG222 / TG210

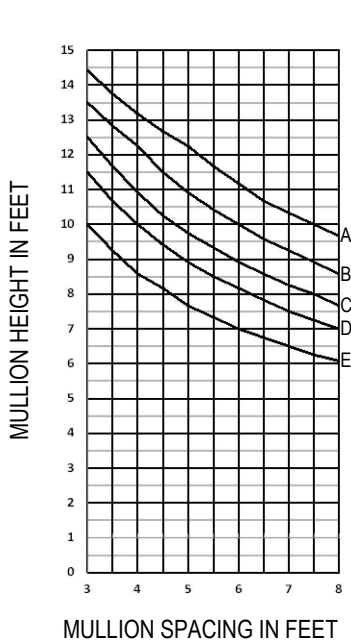
Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.



Windload Charts | AG451T Series

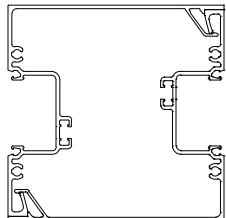
A = 16 P.S.F. (766 Pa) Description: 2" X 4 1/2" Center Glazed for 1" Glass
 B = 20 P.S.F. (958 Pa) Function: Storefront
 C = 25 P.S.F. (1197 Pa) Detail: Design Criteria
 D = 30 P.S.F. (1436 Pa) Scale: N.T.S.
 E = 40 P.S.F. (1915 Pa)

SHEET 2 OF 3

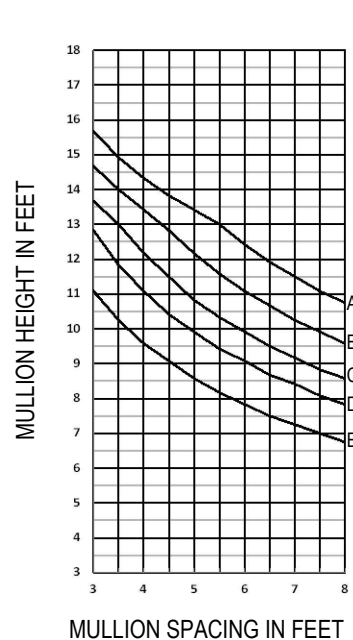


$$I = 4.828 \text{ IN}^4$$

$$S_1 = 0.851 \text{ IN}^3 \quad S_2 = 0.851 \text{ IN}^3$$

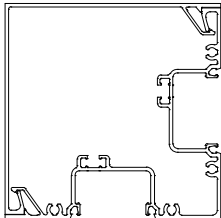


TG207 / TG207



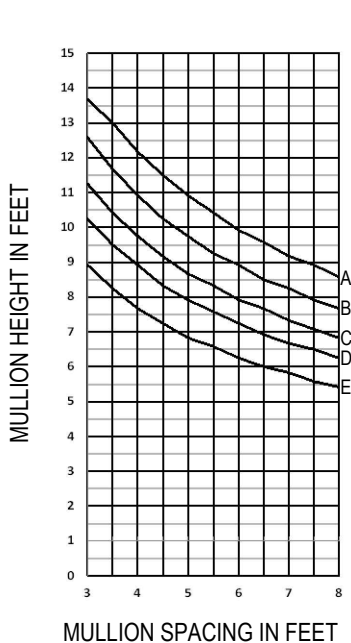
$$I_x = 4.435 \text{ IN}^4$$

$$I_y = 4.484 \text{ IN}^4$$



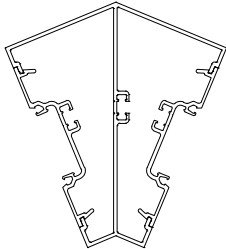
TG209 / TG206

- 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.
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- Arcadia assumes no responsibility for selecting the appropriate systems for specific projects.

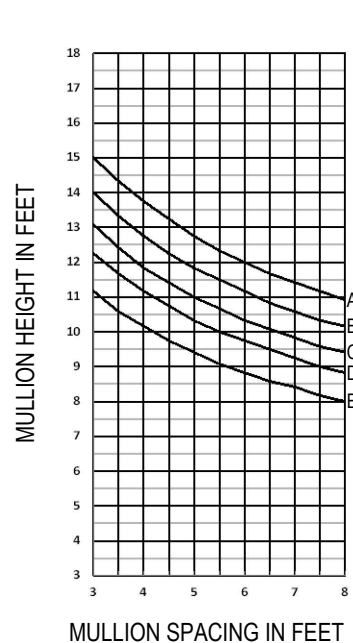


$$I = 4.070 \text{ IN}^4$$

$$S_1 = 1.073 \text{ IN}^3 \quad S_2 = 0.452 \text{ IN}^3$$

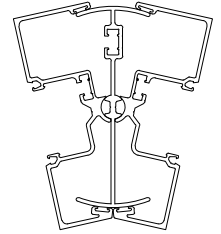


TG145 / TG210



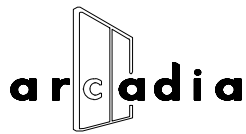
$$I = 5.472 \text{ IN}^4$$

$$S_1 = 0.702 \text{ IN}^3 \quad S_2 = 1.634 \text{ IN}^3$$



TF220 / TG224

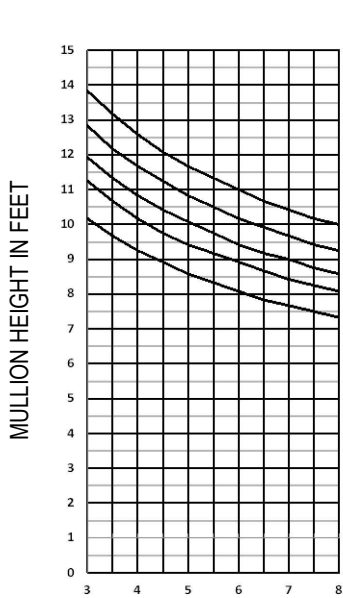
Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.



Windload Charts | AG451T Series

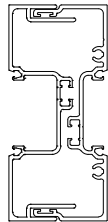
A = 16 P.S.F. (766 Pa) Description: 2" X 4 1/2" Center Glazed for 1" Glass
 B = 20 P.S.F. (958 Pa) Function: Storefront
 C = 25 P.S.F. (1197 Pa) Detail: Design Criteria
 D = 30 P.S.F. (1436 Pa) Scale: N.T.S.
 E = 40 P.S.F. (1915 Pa)

SHEET 3 OF 3

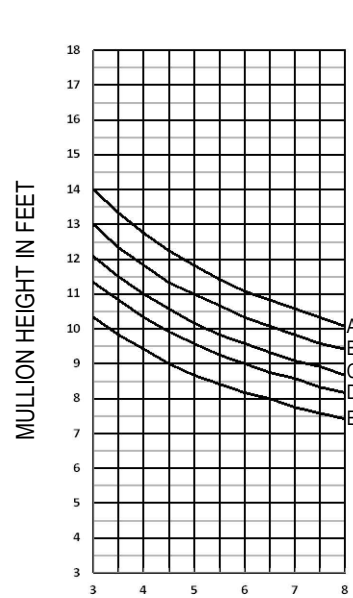


$$I = 4.168 \text{ IN}^4$$

$$S_1 = 0.956 \text{ IN}^3 \quad S_2 = 0.878 \text{ IN}^3$$

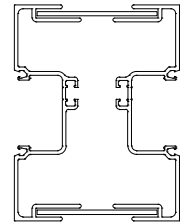


TG204 / TG205



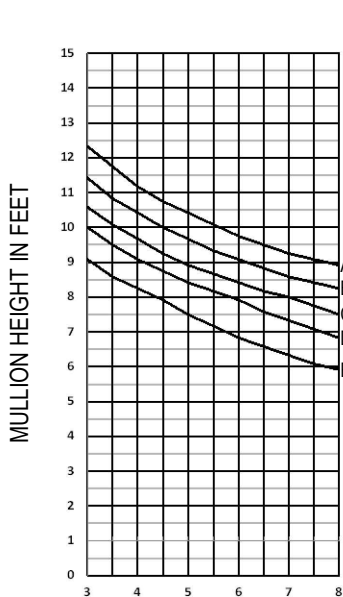
$$I = 4.342 \text{ IN}^4$$

$$S_1 = 0.956 \text{ IN}^3 \quad S_2 = 0.956 \text{ IN}^3$$



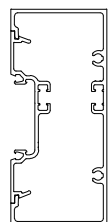
TG204 / TG204

- 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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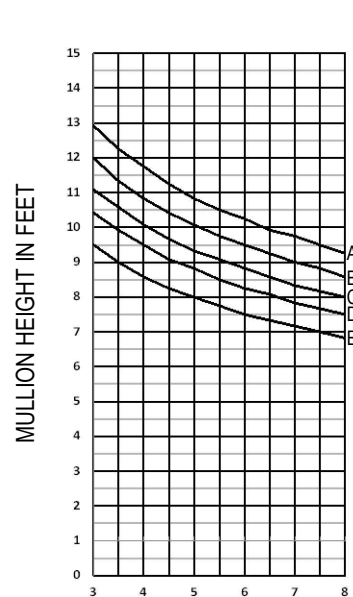


$$I = 2.957 \text{ IN}^4$$

$$S_1 = 1.094 \text{ IN}^3 \quad S_2 = 0.256 \text{ IN}^3$$

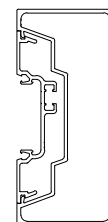


TGDJ / TG210



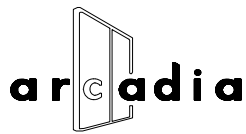
$$I = 3.375 \text{ IN}^4$$

$$S_1 = 1.290 \text{ IN}^3 \quad S_2 = 0.256 \text{ IN}^3$$



TL259 / TG210

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

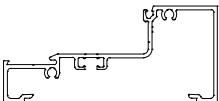
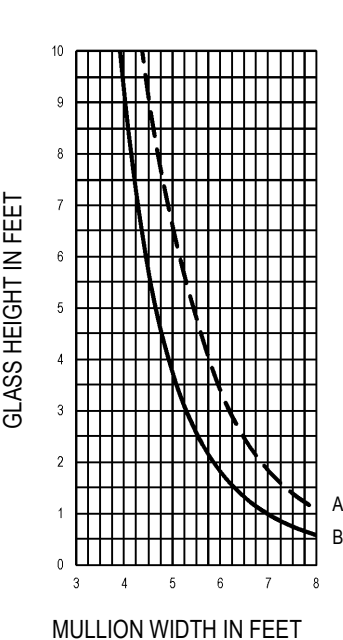


Deadload Charts | AG451T Series

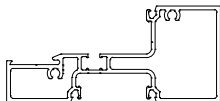
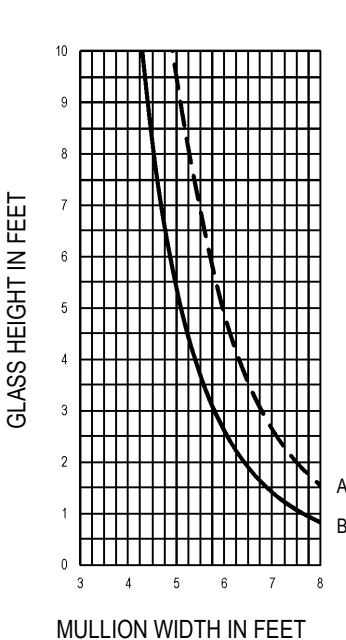
Description: 2" X 4 1/2" Center Glazed for 1" Glass
 Function: Storefront
 Detail: Design Criteria
 Scale: N.T.S.

Deadload Charts for 1" Glass (7.00 PSF)

SHEET 1 OF 1

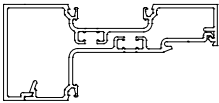
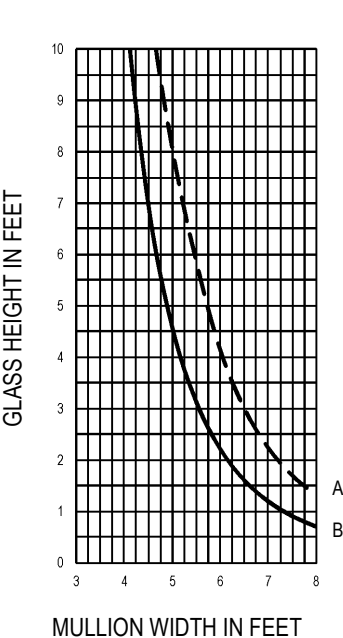


TG203 - 1" GLASS

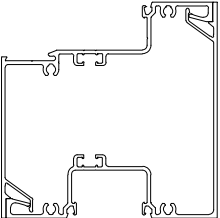
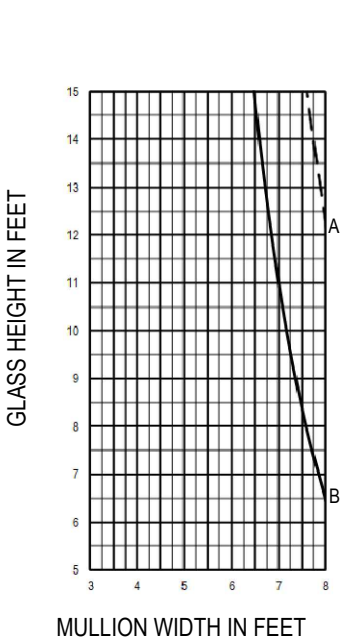


TG213 - 1" GLASS

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



TG233 / TG223 - 1" GLASS



TG20345/TG207 - 1" GLASS