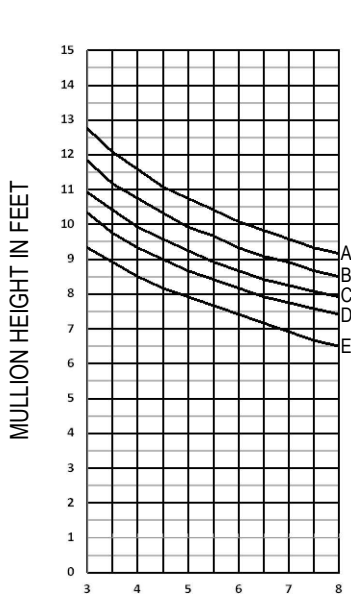


Windload Charts | AG451 Series

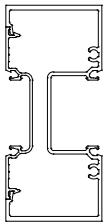
A = 16 P.S.F. (766 Pa) Description: 2" X 4 1/2" Center Glazed for 1" Glass
 B = 20 P.S.F. (958 Pa) Function: Storefront
 C = 25 P.S.F. (1197 Pa) Detail: Design Criteria
 D = 30 P.S.F. (1436 Pa) Scale: N.T.S.
 E = 40 P.S.F. (1915 Pa)

SHEET 1 OF 5



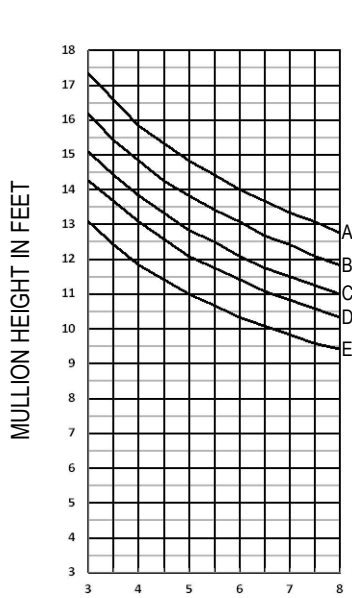
$$I = 3.236 \text{ IN}^4$$

$$S_1 = 1.290 \text{ IN}^3 \quad S_2 = 0.185 \text{ IN}^3$$

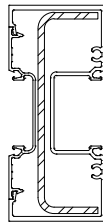


MULLION SPACING IN FEET

TL202 / TL210



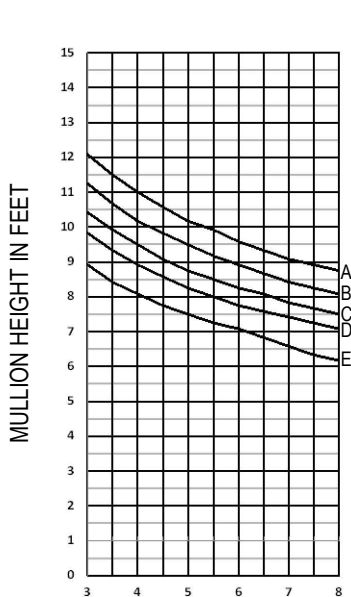
$$I = 8.746 \text{ IN}^4$$



MULLION SPACING IN FEET

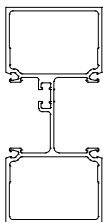
TL202 / TL210 WITH
STEEL REINFORCEMENT
1 1/4" X 4 3/16" X 10 GA.

- 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.



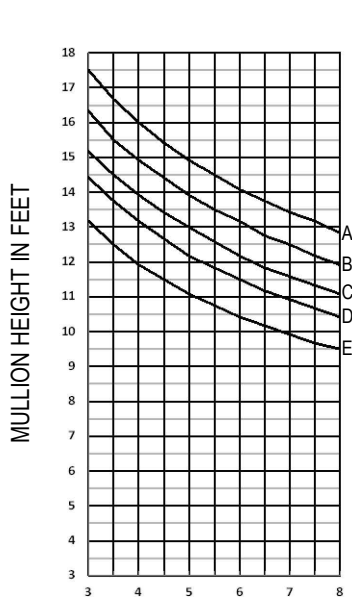
$$I = 2.792 \text{ IN}^4$$

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



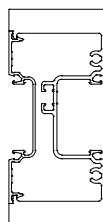
MULLION SPACING IN FEET

TG215



$$I = 8.923 \text{ IN}^4$$

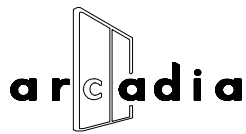
$$S_1 = 3.806 \text{ IN}^3 \quad S_2 = 0.185 \text{ IN}^3$$



MULLION SPACING IN FEET

TG212 / TL210

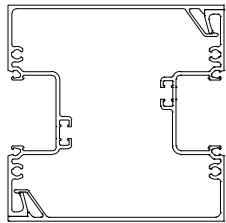
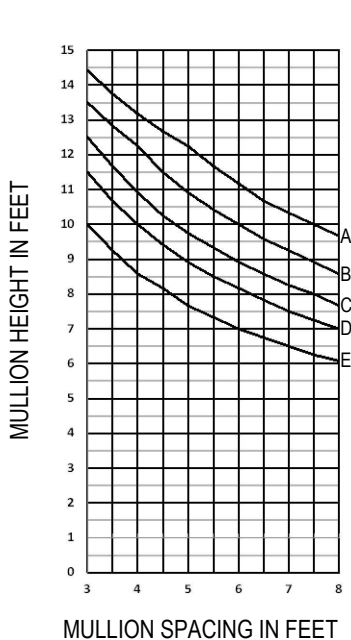
Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.



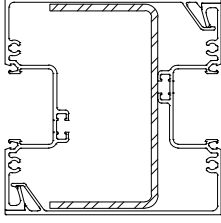
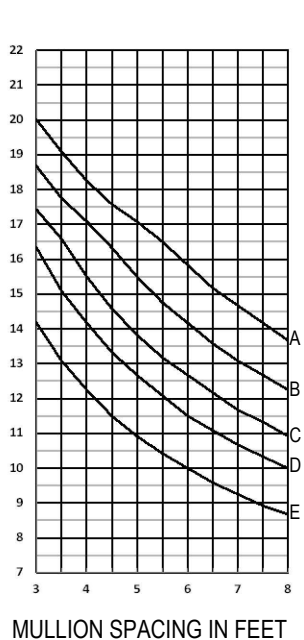
Windload Charts | AG451 Series

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 5

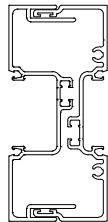
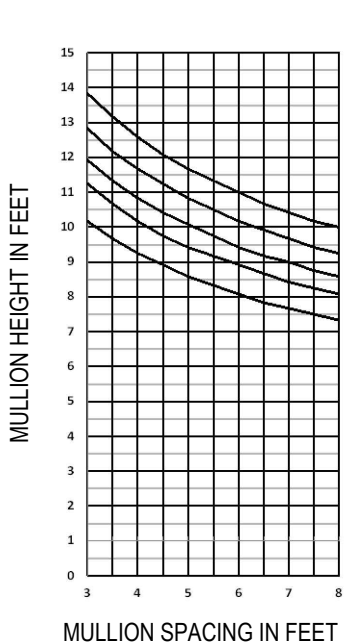


TG207 / TG207

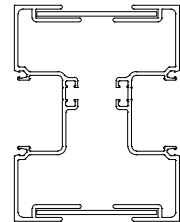
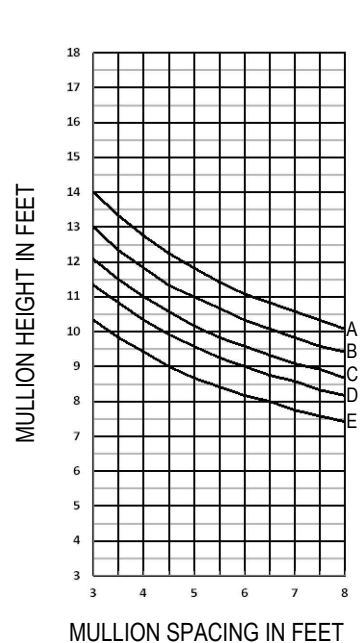


TG207 / TG207 WITH
 STEEL REINFORCEMENT
 2 1/4" X 4 1/4" X 10 GA.

- 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.

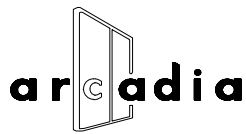


TG204 / TG205



TG204 / TG204

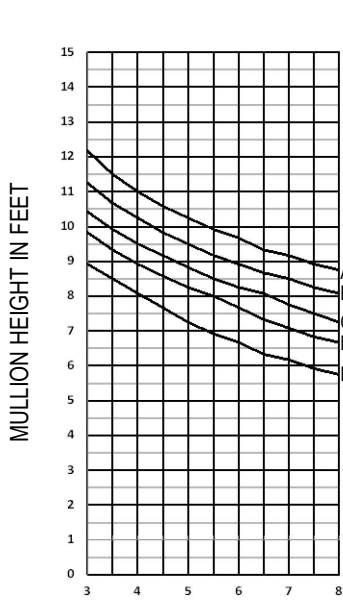
Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.



Windload Charts | AG451 Series

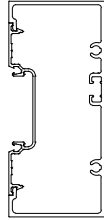
A = 16 P.S.F. (766 Pa) Description: 2" X 4 1/2" Center Glazed for 1" Glass
 B = 20 P.S.F. (958 Pa) Function: Storefront
 C = 25 P.S.F. (1197 Pa) Detail: Design Criteria
 D = 30 P.S.F. (1436 Pa) Scale: N.T.S.
 E = 40 P.S.F. (1915 Pa)

SHEET 3 OF 5



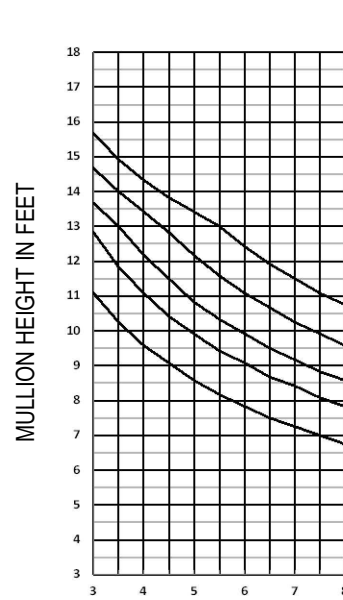
$$I = 2.819 \text{ IN}^4$$

$$S_1 = 1.094 \text{ IN}^3 \quad S_2 = 0.185 \text{ IN}^3$$



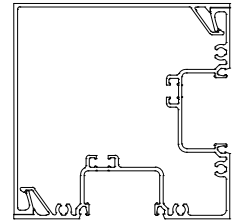
MULLION SPACING IN FEET

TGDJ / TL210



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

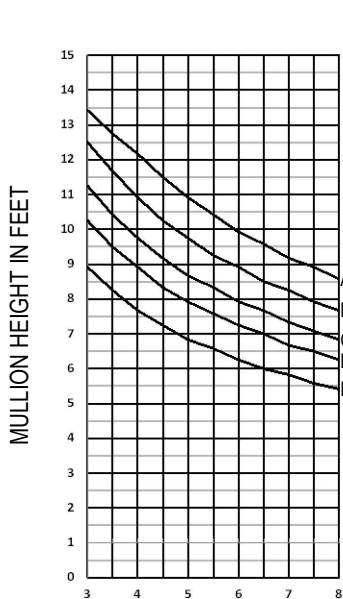
$$I_y = 4.484 \text{ IN}^4$$



MULLION SPACING IN FEET

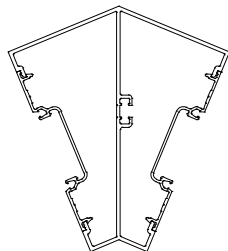
TG209 / TG206

- 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.
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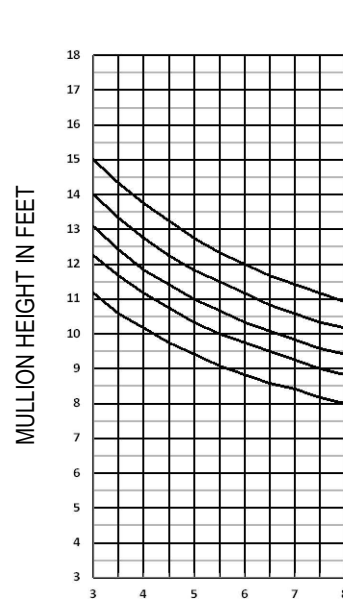
$$I = 3.820 \text{ IN}^4$$

$$S_1 = 1.073 \text{ IN}^3 \quad S_2 = 0.327 \text{ IN}^3$$



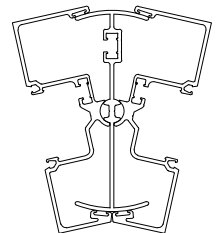
MULLION SPACING IN FEET

TG145 / TL210



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

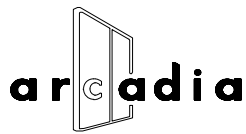
$$S_1 = 0.702 \text{ IN}^3 \quad S_2 = 1.634 \text{ IN}^3$$



MULLION SPACING IN FEET

TF220 / TG224

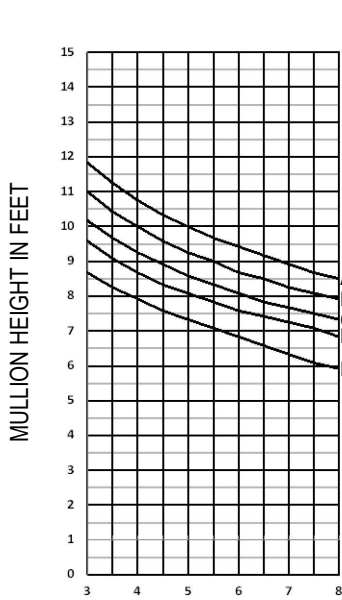
Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.



Windload Charts | AG451 Series

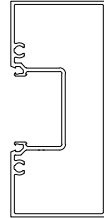
A = 16 P.S.F. (766 Pa) Description: 2" X 4 1/2" Center Glazed for 1" Glass
 B = 20 P.S.F. (958 Pa) Function: Storefront
 C = 25 P.S.F. (1197 Pa) Detail: Design Criteria
 D = 30 P.S.F. (1436 Pa) Scale: N.T.S.
 E = 40 P.S.F. (1915 Pa)

SHEET 4 OF 5

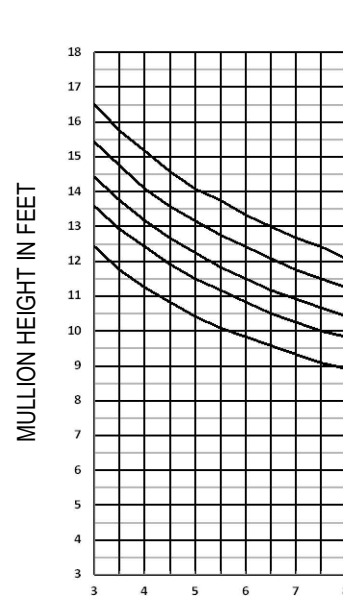


$$I = 2.610 \text{ IN}^4$$

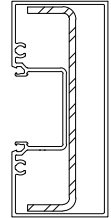
$$S = 1.160 \text{ IN}^3$$



TL251

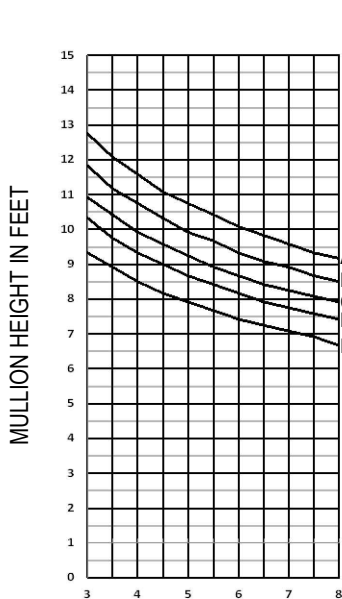


$$I = 7.489 \text{ IN}^4$$



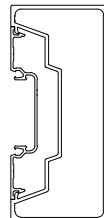
TL251 WITH
STEEL REINFORCEMENT
1" X 4 1/4" X 10 GA.

- 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.
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- 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.

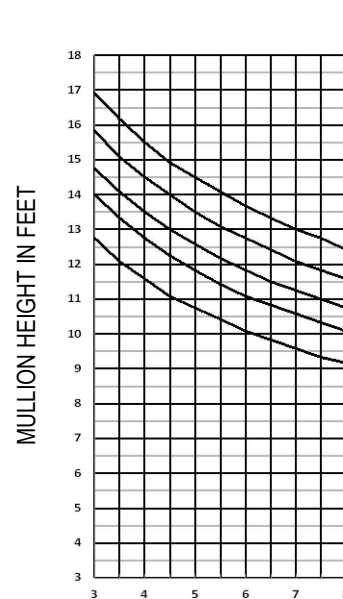


$$I = 3.237 \text{ IN}^4$$

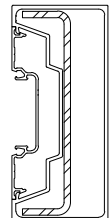
$$S_1 = 1.290 \text{ IN}^3 \quad S_2 = 0.185 \text{ IN}^3$$



TL259 / TL210

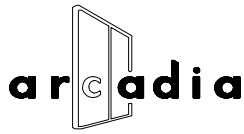


$$I = 8.116 \text{ IN}^4$$



TL259 / TL210 WITH
STEEL REINFORCEMENT
1" X 4 1/4" X 10 GA.

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

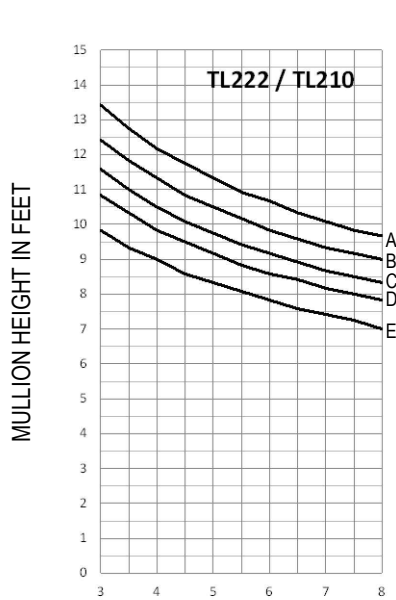


Windload Charts | AG451 Series

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)

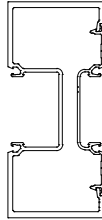
Description: 2" X 4 1/2" Center Glazed for 1" Glass
Function: Storefront
Detail: Design Criteria
Scale: N.T.S.

SHEET 5 OF 5

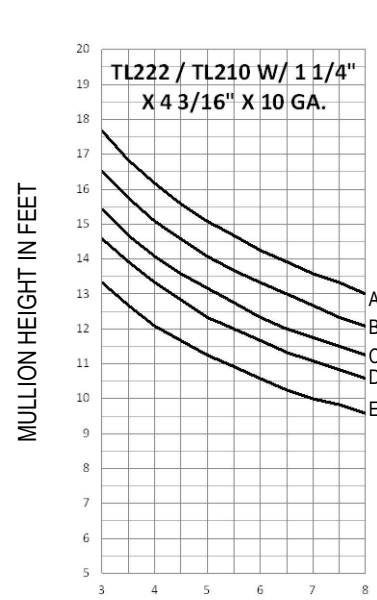


$$I = 3.795 \text{ IN}^4$$

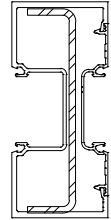
$$S = 1.538 \text{ IN}^3 \quad S_2 = 0.185 \text{ IN}^3$$



TL222 / TL210



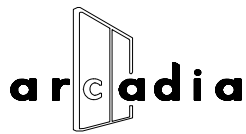
$$I = 9.305 \text{ IN}^4$$



TL222 / TL210 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.
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- 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.

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

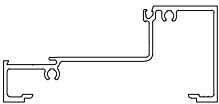
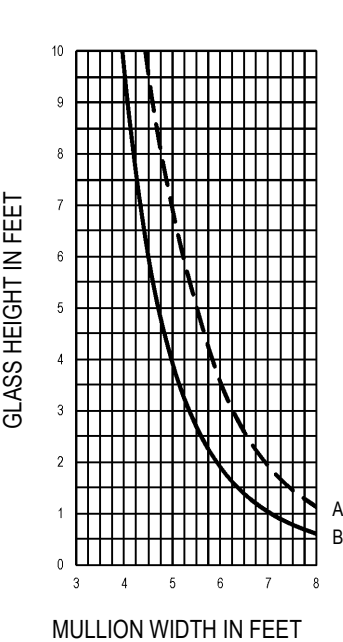


Deadload Charts | AG451 Series

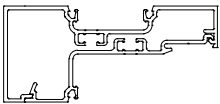
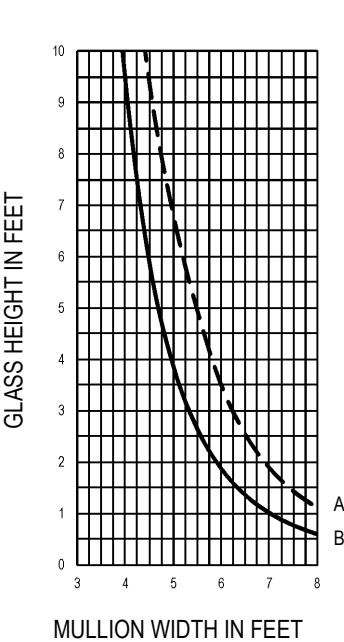
Description: 2" X 4 1/2" Center Glazed for 1" Glass
Function: Storefront
Detail: Design Criteria
Scale: N.T.S.

Deadload Charts for 1" Glass (7.00 PSF)

SHEET 1 OF 1

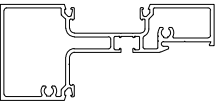
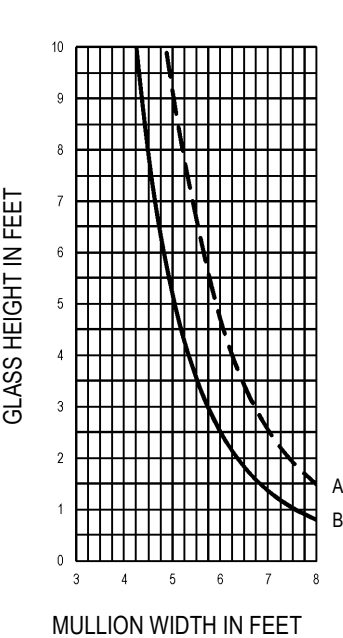


TL203 - 1" GLASS

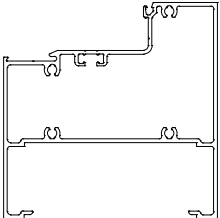
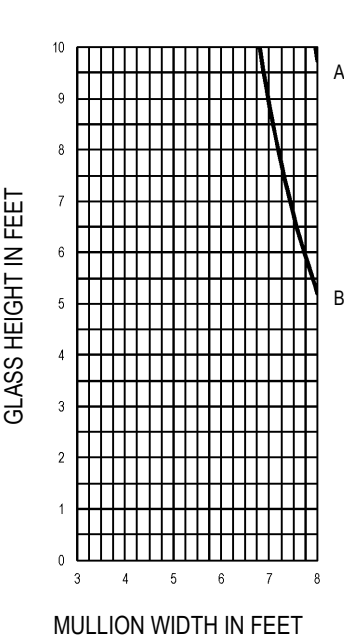


TG233 / TG223 - 1" GLASS

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



TG213 - 1" GLASS



TG413 - 1" GLASS