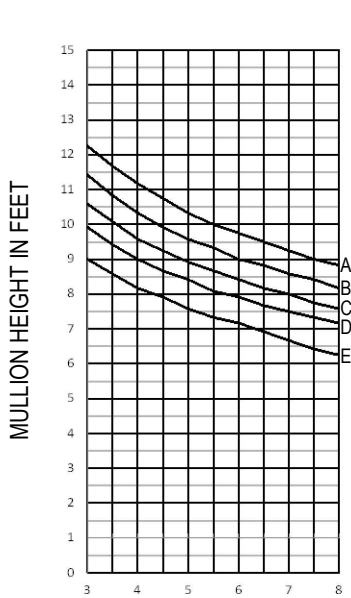


Windload Charts | AFG451DT Series

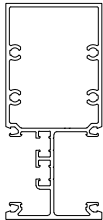
A = 16 P.S.F. (766 Pa) Description: 2" X 4 1/2" Offset Glazed For 1" Glass
 B = 20 P.S.F. (958 Pa) Function: Storefront
 C = 25 P.S.F. (1197 Pa) Detail: Design Criteria
 D = 30 P.S.F. (1436 Pa) Scale: N.T.S.
 E = 40 P.S.F. (1915 Pa)

SHEET 1 OF 3

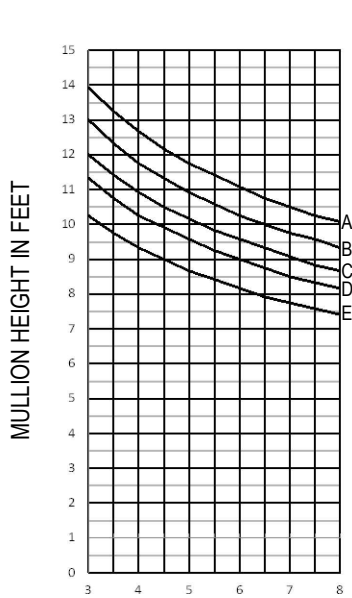


$$I = 2.915 \text{ IN}^4$$

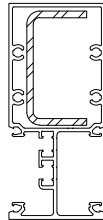
$$S = 1.264 \text{ IN}^3$$



TBD251

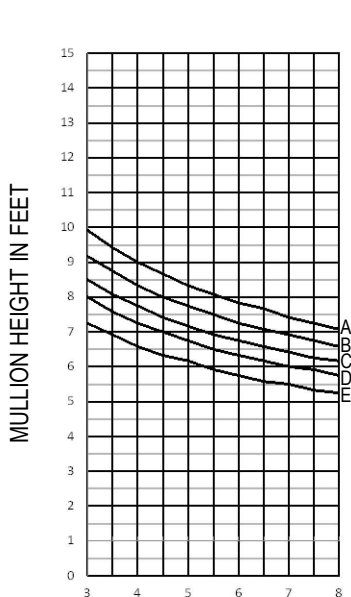


$$I = 4.293 \text{ IN}^4$$



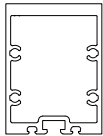
TBD251 WITH
STEEL REINFORCEMENT
1 1/4" X 2 3/8" X 10 GA.

- 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.

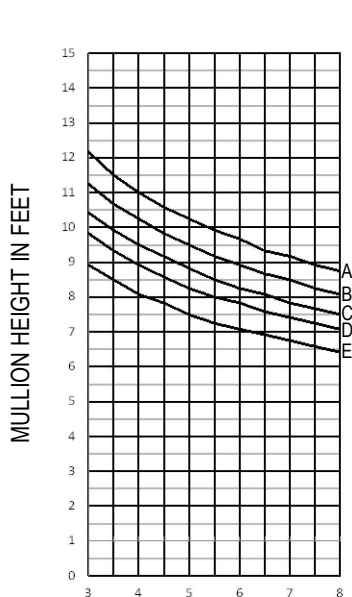


$$I = 1.526 \text{ IN}^4$$

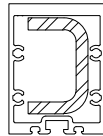
$$S = 1.055 \text{ IN}^3$$



TB555

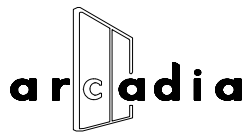


$$I = 2.818 \text{ IN}^4$$



TB555 WITH
STEEL REINFORCEMENT
1 1/4" X 2" X 1/4"

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



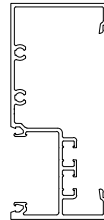
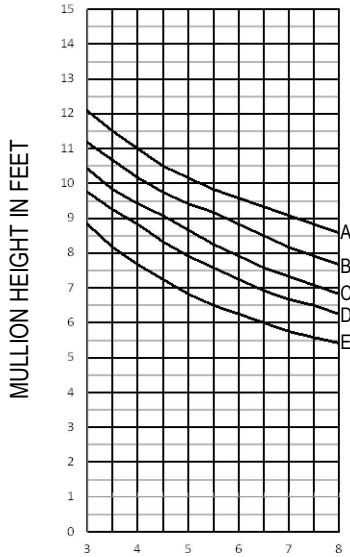
Windload Charts | AFG451DT Series

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" Offset Glazed For 1" Glass
Function: Storefront
Detail: Design Criteria
Scale: N.T.S.

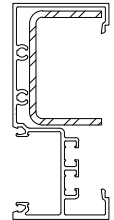
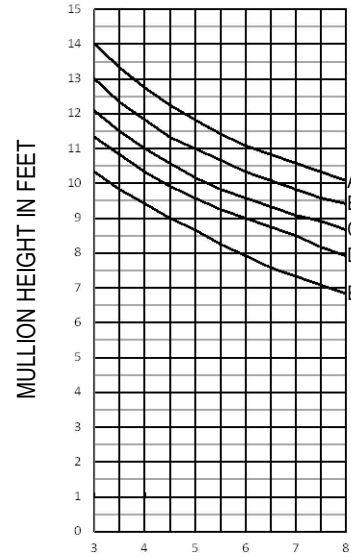
SHEET 2 OF 3

$$I = 2.771 \text{ IN}^4$$
$$S = 1.118 \text{ IN}^3$$



TBD265

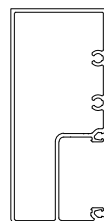
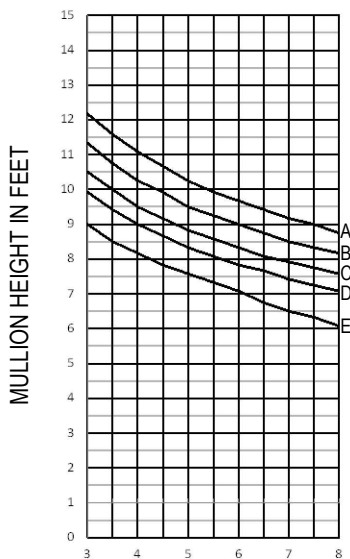
$$I = 4.407 \text{ IN}^4$$



TBD265 WITH
STEEL REINFORCEMENT
1 1/2" X 2 3/8" X 10 GA.

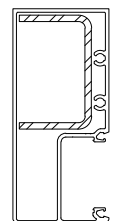
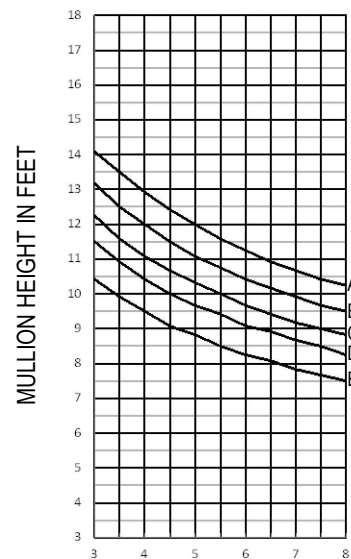
- Mullions are assumed to be single span, simple beam elements, uniformly loaded and adequately braced to prevent lateral-torsional buckling. All other complex design conditions shall be reviewed by Arcadia or a design professional.
- Aluminum extrusions shall be 6063-T6 alloy. Allowable stresses to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

$$I = 2.857 \text{ IN}^4$$
$$S = 1.215 \text{ IN}^3$$



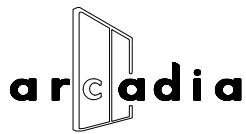
TB266

$$I = 4.493 \text{ IN}^4$$



TB266 WITH
STEEL REINFORCEMENT
1 1/2" X 2 3/8" X 10 GA.

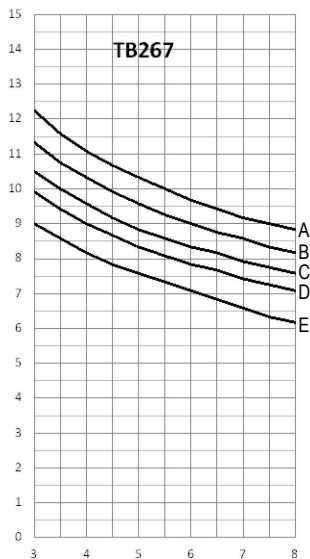
Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.



Windload Charts | AFG451DT Series

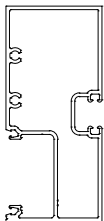
A = 16 P.S.F. (766 Pa) Description: 2" X 4 1/2" Offset Glazed For 1" Glass
 B = 20 P.S.F. (958 Pa) Function: Storefront
 C = 25 P.S.F. (1197 Pa) Detail: Design Criteria
 D = 30 P.S.F. (1436 Pa) Scale: N.T.S.
 E = 40 P.S.F. (1915 Pa)

SHEET 3 OF 3

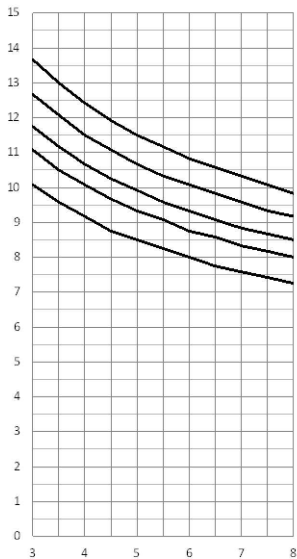


$$I = 2.877 \text{ IN}^4$$

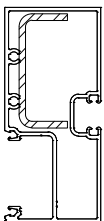
$$S = 1.228 \text{ IN}^3$$



TB267



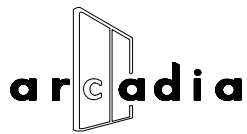
$$I = 4.025 \text{ IN}^4$$



TB267 WITH
 STEEL REINFORCEMENT
 1" X 2 3/8" 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.

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



Deadload Charts | AFG451DT Series

Description: 2" X 4 1/2" Offset Glazed For 1" Glass

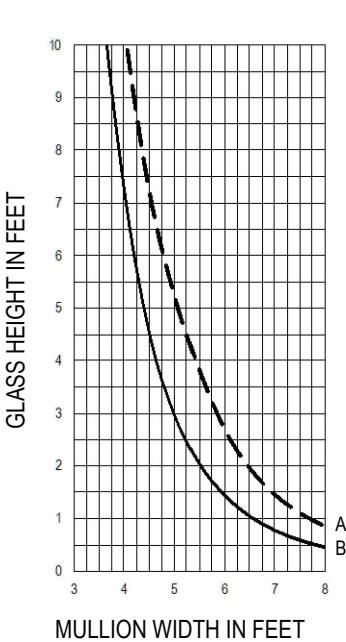
Function: Storefront

Detail: Design Criteria

Scale: N.T.S.

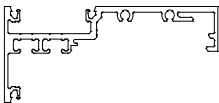
Deadload Charts for 1" Glass (7.00 PSF)

SHEET 1 OF 1



$$I = 0.255 \text{ IN}^4$$

$$S = 0.173 \text{ IN}^3$$



TBD436 - 1" GLASS

CURVE REPRESENTATION

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

B (—) = 1/4 PTS.