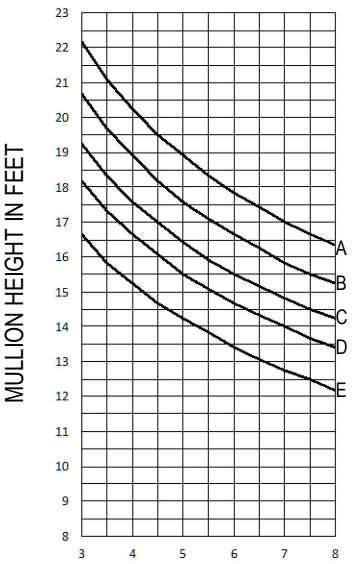
Windload Charts | Ti Beam (3)-T500

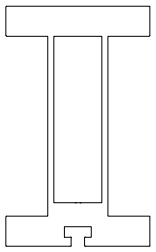
A = 16 P.S.F. (766 Pa)
B = 20 P.S.F. (958 Pa)
C = 25 P.S.F. (1197 Pa)
D = 30 P.S.F. (1436 Pa)
E = 40 P.S.F. (1915 Pa)

Description: 3" X 9 1/4" With 1" Glass
Function:Structural Silicone Glazed (SSG)
Detail: Design Criteria
Scale: N.T.S.

I = 19.106 IN^4
S = 7.585 IN^3

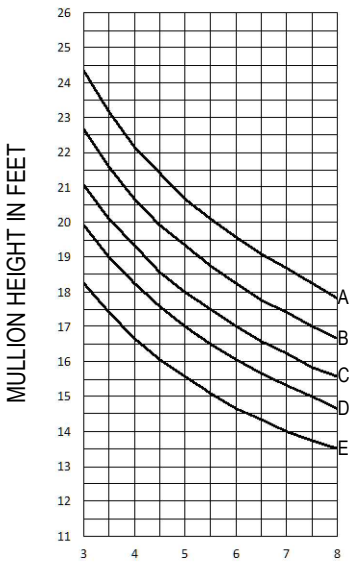


MULLION SPACING IN FEET

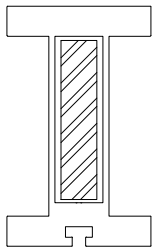


TSAX4

I = 25.621 IN^4
S = 14.329 IN^3



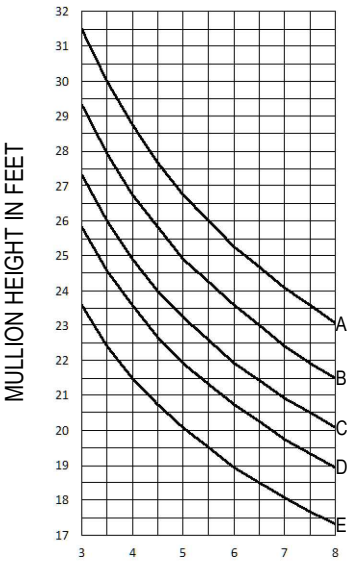
MULLION SPACING IN FEET



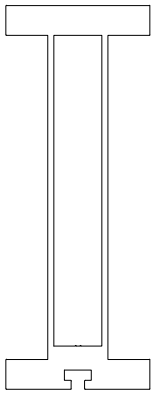
TSAX4 WITH
STEEL REINFORCEMENT
3/4" X 3 5/16" BAR

- 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 = 57.960 IN^4
S = 14.329 IN^3

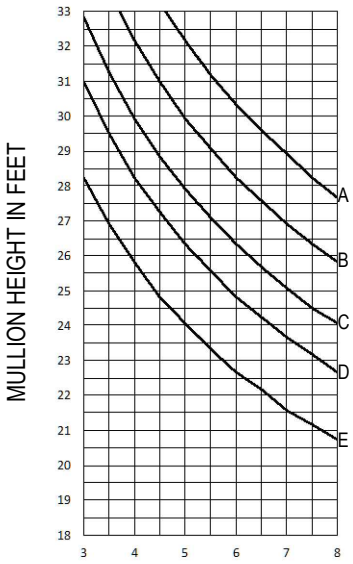


MULLION SPACING IN FEET

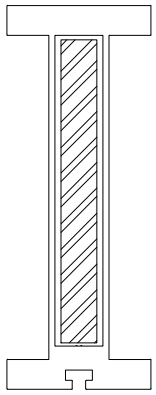


TSAX3

I = 103.08 IN^4



MULLION SPACING IN FEET



TSAX3 WITH
STEEL REINFORCEMENT
3/4" X 6 5/16" BAR

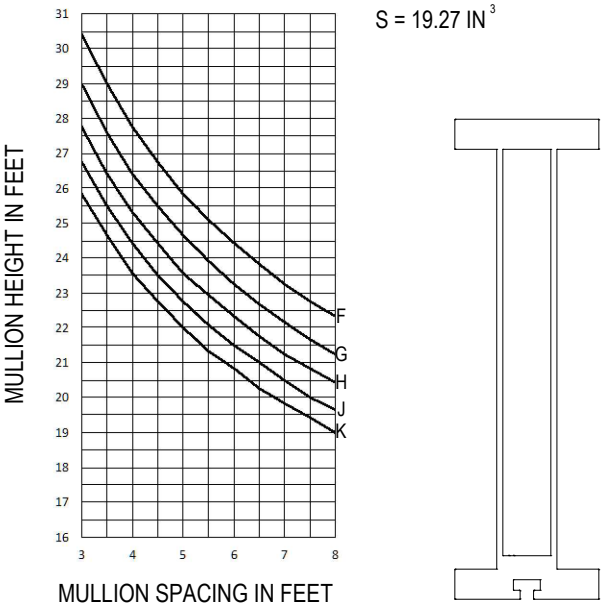
Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.

Windload Charts | Ti Beam (3)-T500

F = 30 P.S.F. (1436 Pa)
G = 35 P.S.F. (1676 Pa)
H = 40 P.S.F. (1915 Pa)
J = 45 P.S.F. (2155 Pa)
K = 50 P.S.F. (1394 Pa)

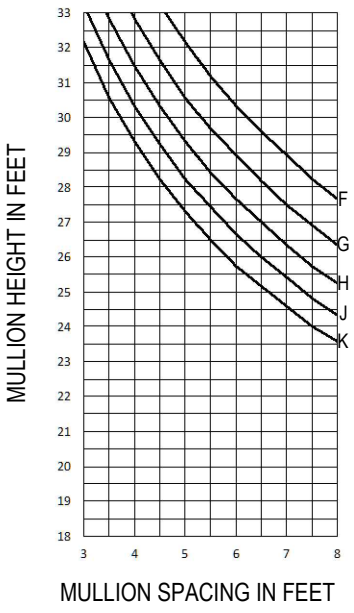
Description: 3" X 9 1/4" With 1" Glass
Function:Structural Silicone Glazed (SSG)
Detail: Design Criteria
Scale: N.T.S.

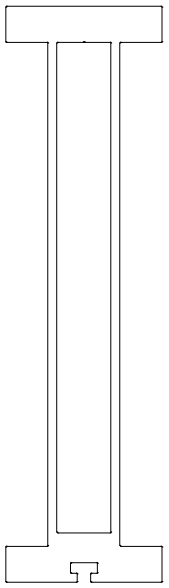
$I = 97.510\ IN^4$
$S = 19.27\ IN^3$



TSAX8

$I = 193.02\ IN^4$
$S = 31.815\ IN^3$





TSAX9

- 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.

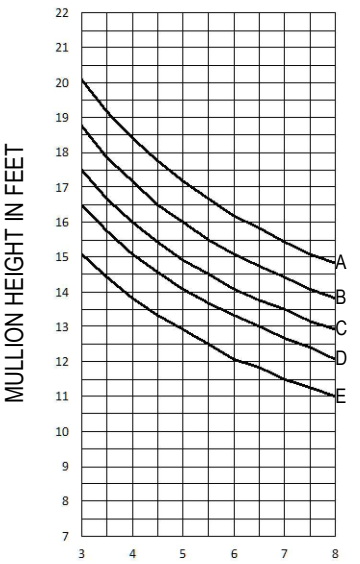
Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.

Windload Charts | Ti Beam (3)-T500

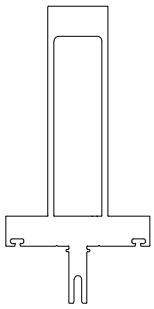
A = 16 P.S.F. (766 Pa)
B = 20 P.S.F. (958 Pa)
C = 25 P.S.F. (1197 Pa)
D = 30 P.S.F. (1436 Pa)
E = 40 P.S.F. (1915 Pa)

Description: 3" X 9 1/4" With 1" Glass
Function:Structural Silicone Glazed (SSG)
Detail: Design Criteria
Scale: N.T.S.

I = 14.010 IN^4
S = 4.182 IN^3

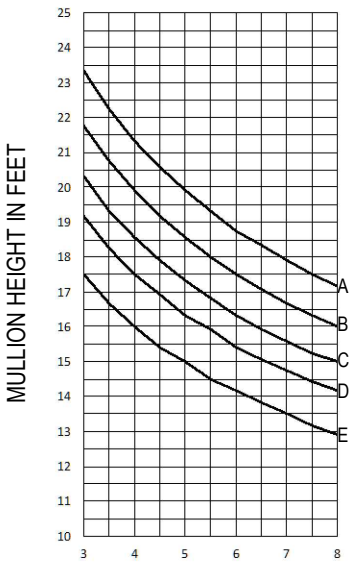


MULLION SPACING IN FEET

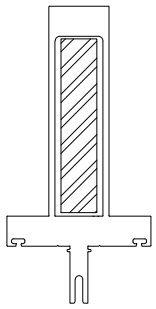


TSAX10

I = 22.567 IN^4



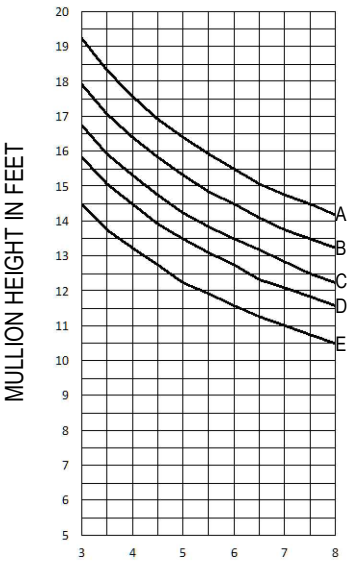
MULLION SPACING IN FEET



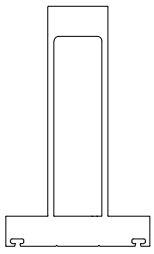
TSAX10 WITH
STEEL REINFORCEMENT
3/4" X 3 5/8" BAR

- 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 = 12.122 IN^4
S = 3.873 IN^3

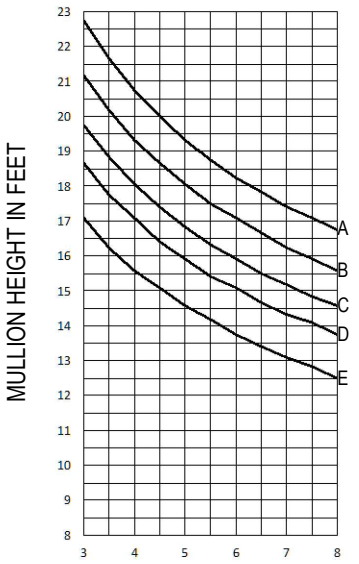


MULLION SPACING IN FEET

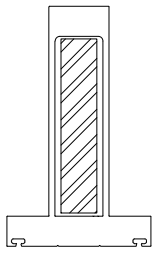


TSAX10 MOD.

I = 20.675 IN^4



MULLION SPACING IN FEET



TSAX10 MOD. WITH
STEEL REINFORCEMENT
3/4" X 3 5/8" BAR

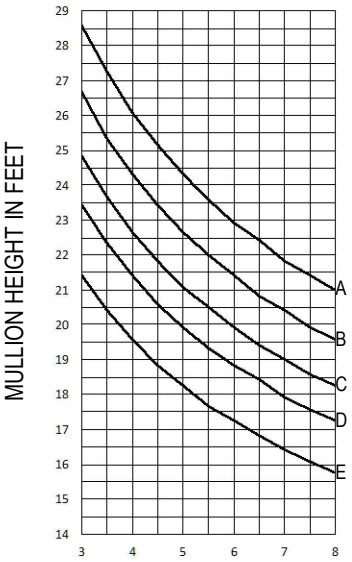
Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.

Windload Charts | Ti Beam (3)-T500

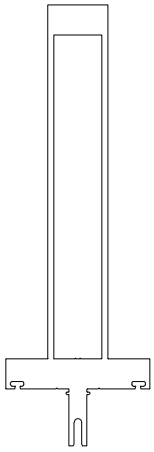
A = 16 P.S.F. (766 Pa)
B = 20 P.S.F. (958 Pa)
C = 25 P.S.F. (1197 Pa)
D = 30 P.S.F. (1436 Pa)
E = 40 P.S.F. (1915 Pa)

Description: 3" X 9 1/4" With 1" Glass
Function:Structural Silicone Glazed (SSG)
Detail: Design Criteria
Scale: N.T.S.

$I = 42.689\ IN^4$
$S = 8.265\ IN^3$

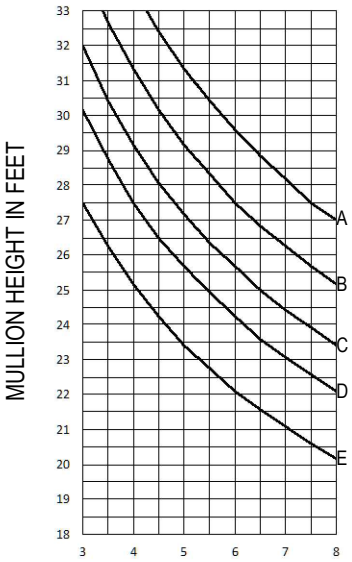


MULLION SPACING IN FEET

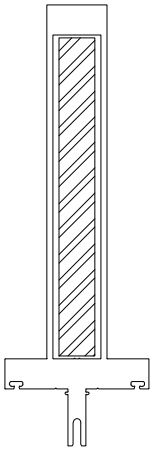


TSAX7

$I = 94.837\ IN^4$



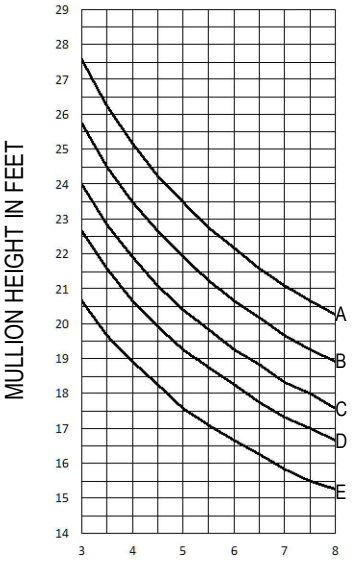
MULLION SPACING IN FEET



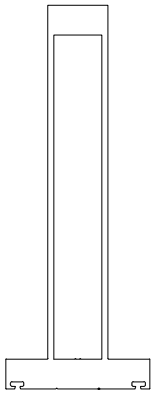
TSAX7 WITH
STEEL REINFORCEMENT
3/4" X 6 5/8" BAR

- 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.

$I = 38.270\ IN^4$
$S = 7.839\ IN^3$

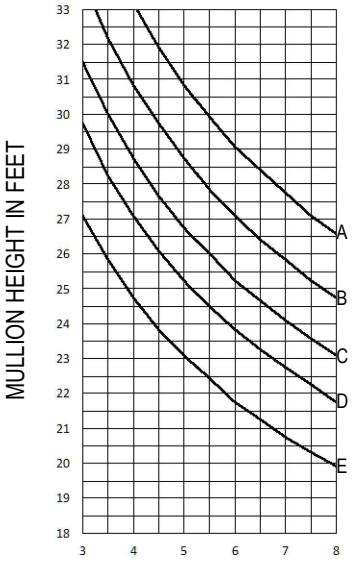


MULLION SPACING IN FEET

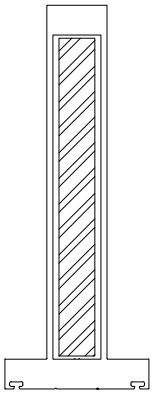


TSAX7 MOD.

$I = 90.418\ IN^4$



MULLION SPACING IN FEET



TSAX7 MOD. WITH
STEEL REINFORCEMENT
3/4" X 6 5/8" BAR

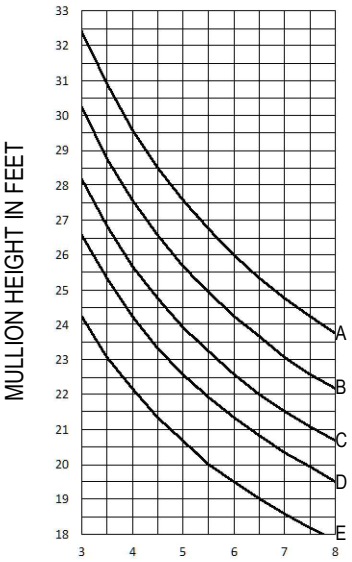
Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.

Windload Charts | Ti Beam (3)-T500

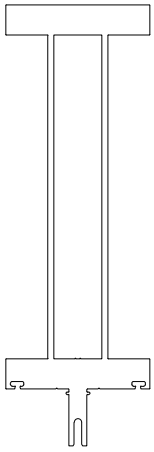
A = 16 P.S.F. (766 Pa)
B = 20 P.S.F. (958 Pa)
C = 25 P.S.F. (1197 Pa)
D = 30 P.S.F. (1436 Pa)
E = 40 P.S.F. (1915 Pa)

Description: 3" X 9 1/4" With 1" Glass
Function:Structural Silicone Glazed (SSG)
Detail: Design Criteria
Scale: N.T.S.

I = 63.564 IN^4
S = 12.849 IN^3

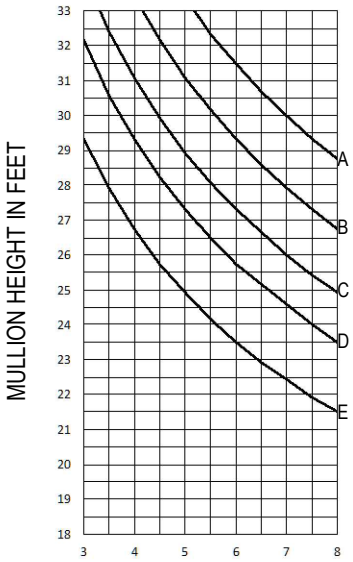


MULLION SPACING IN FEET

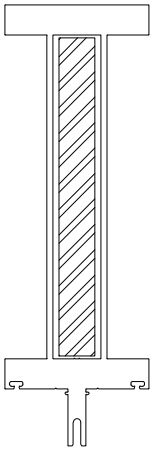


TSAX6

I = 115.71 IN^4



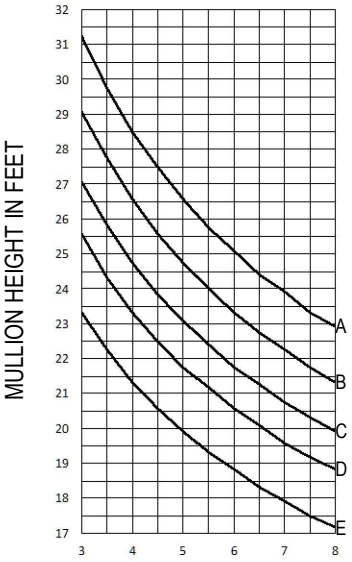
MULLION SPACING IN FEET



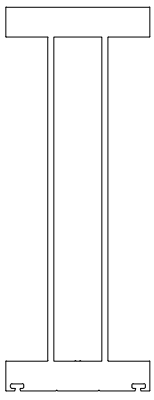
TSAX6 WITH
STEEL REINFORCEMENT
3/4" X 6 5/8" BAR

- 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 = 56.495 IN^4
S = 13.956 IN^3

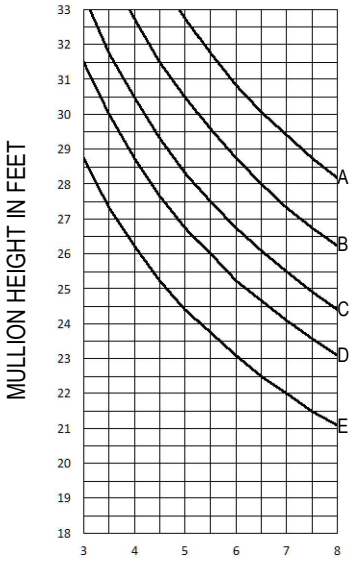


MULLION SPACING IN FEET

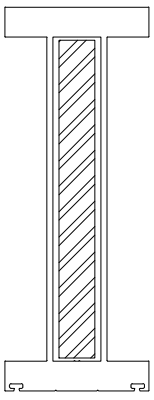


TSAX6 MOD.

I = 108.64 IN^4



MULLION SPACING IN FEET



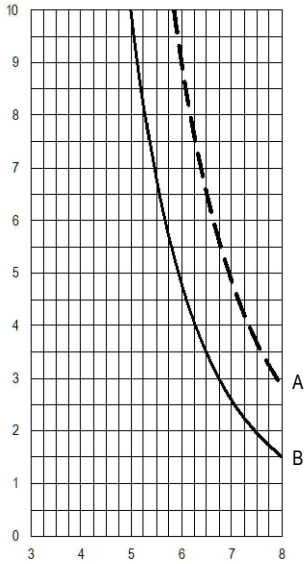
TSAX6 MOD. WITH
STEEL REINFORCEMENT
3/4" X 6 5/8" BAR

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

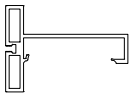
Deadload Charts | Ti Beam (3)-T500

Description: 3" X 9 1/4" With 1" Glass
Function: Structural Silicone Glazed (SSG)
Detail: Design Criteria
Deadload Charts for 1" Glass | Scale: N.T.S. | SHEET 1 OF 1

I = 0.850 IN^4
S = 0.531 IN^3

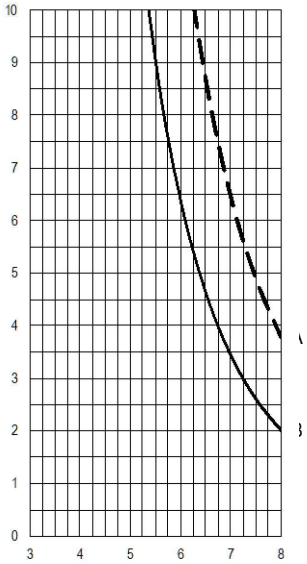


MULLION WIDTH IN FEET



TSAX11 - 1" GLASS

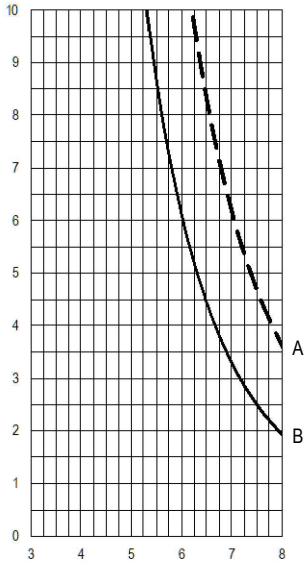
I = 1.131 IN^4
S = 0.683 IN^3

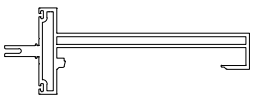


TSAX12 - 1" GLASS

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

I = 1.084 IN^4
S = 0.654 IN^3





TSAX5 - 1" GLASS