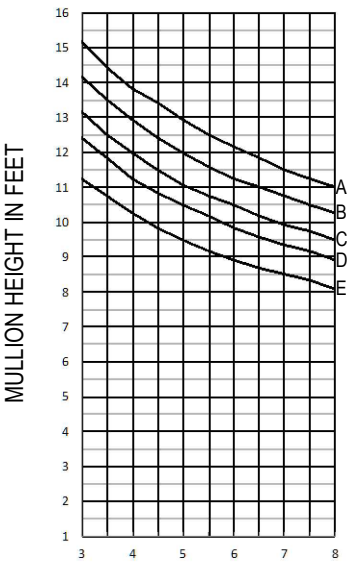
Windload Charts | T500 (OPG6000) Series

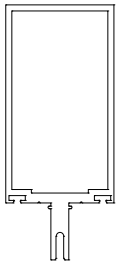
A = 16 P.S.F. (766 Pa)
B = 20 P.S.F. (958 Pa)
C = 25 P.S.F. (1197 Pa)
D = 30 P.S.F. (1436 Pa)
E = 40 P.S.F. (1915 Pa)

Description: 2 1/4" X 6" With 1/4" - 1 1/8" Glass
Function: Curtain Wall
Detail: Design Criteria
Scale: N.T.S.

I = 5.653 IN^4
S = 2.117 IN^3

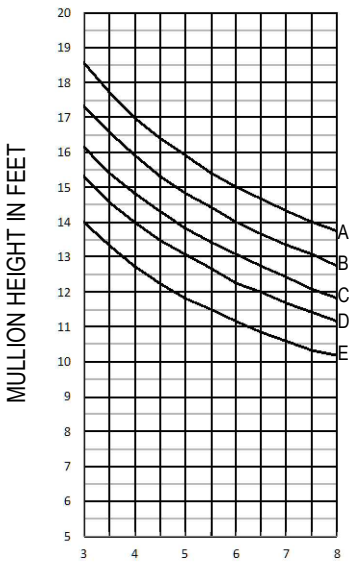


MULLION SPACING IN FEET

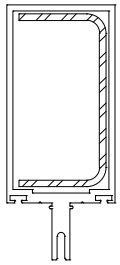


OPG6010

I = 10.963 IN^4



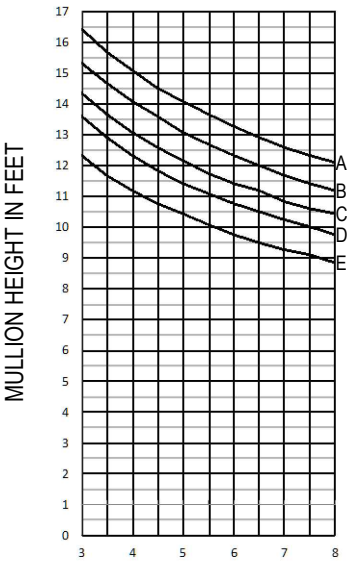
MULLION SPACING IN FEET



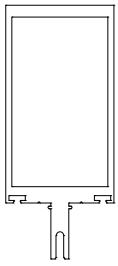
OPG6010 WITH
STEEL REINFORCEMENT
1 7/8" X 3 5/8" X 10 GA.

- 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 = 7.360 IN^4
S = 2.627 IN^3

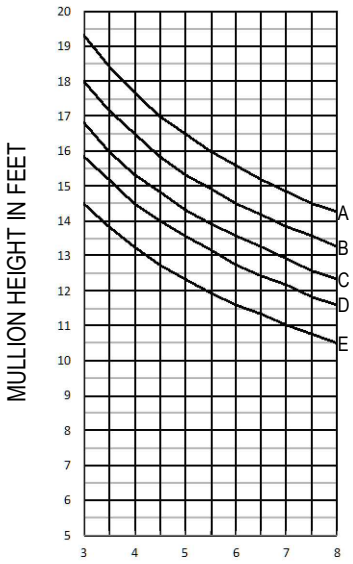


MULLION SPACING IN FEET

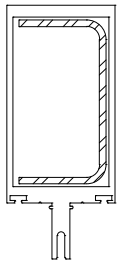


OPG6011

I = 12.067 IN^4



MULLION SPACING IN FEET



OPG6011 WITH
STEEL REINFORCEMENT
1 7/8" X 3 7/16" X 10 GA.

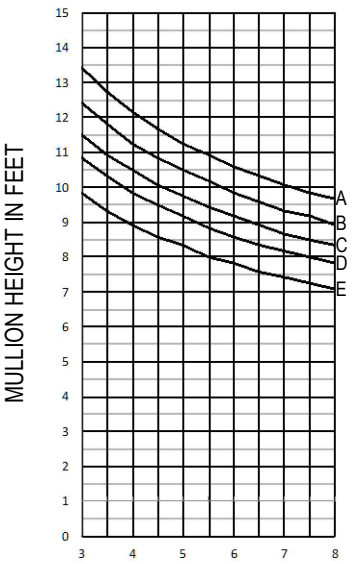
Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.

Windload Charts | T500 (OPG6000) Series

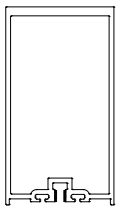
A = 16 P.S.F. (766 Pa)
B = 20 P.S.F. (958 Pa)
C = 25 P.S.F. (1197 Pa)
D = 30 P.S.F. (1436 Pa)
E = 40 P.S.F. (1915 Pa)

Description: 2 1/4" X 6" With 1/4" - 1 1/8" Glass
Function: Curtain Wall
Detail: Design Criteria
Scale: N.T.S.

I = 3.772 IN ^{4}
S = 1.751 IN ^{3}

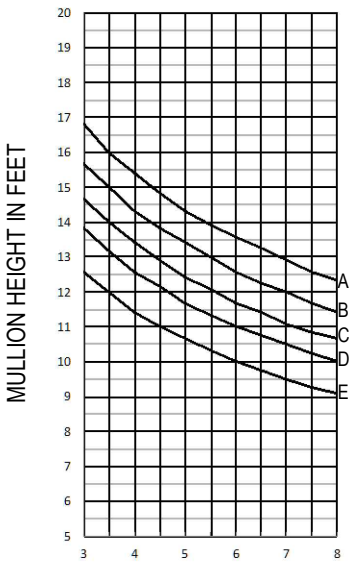


MULLION SPACING IN FEET

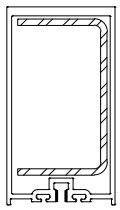


OPG6020

I = 7.905 IN ^{4}



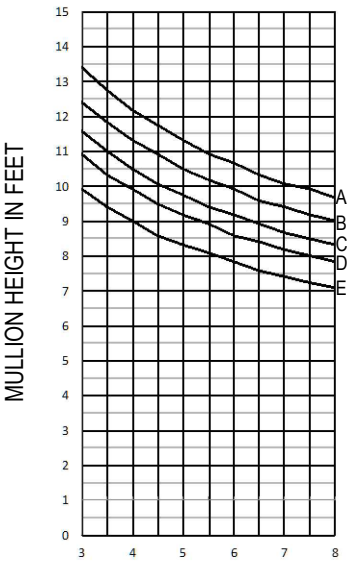
MULLION SPACING IN FEET



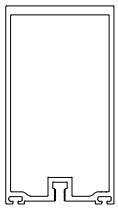
OPG6020 WITH
STEEL REINFORCEMENT
1 7/8" X 3 1/4" X 10 GA.

- 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.

I = 3.804 IN ^{4}
S = 1.768 IN ^{3}

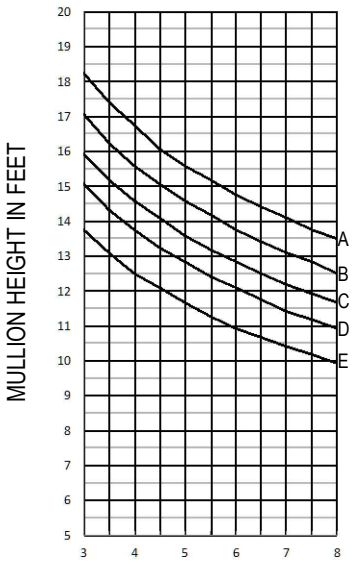


MULLION SPACING IN FEET

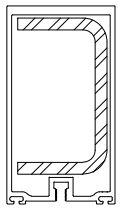


OPG6029

I = 10.348 IN ^{4}



MULLION SPACING IN FEET



OPG6029 WITH
STEEL REINFORCEMENT
1 7/8" X 3 1/4" X 1/4".

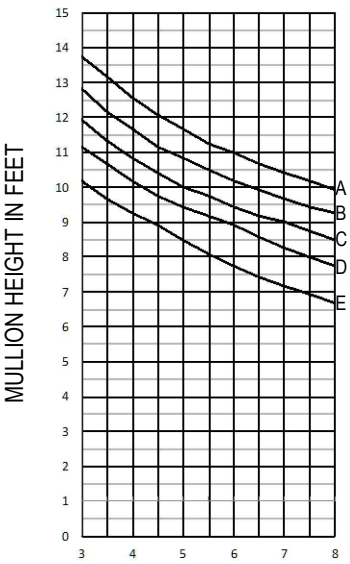
Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.

Windload Charts | T500 (OPG6000) Series

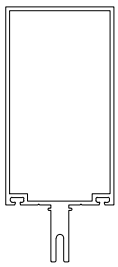
A = 16 P.S.F. (766 Pa)
B = 20 P.S.F. (958 Pa)
C = 25 P.S.F. (1197 Pa)
D = 30 P.S.F. (1436 Pa)
E = 40 P.S.F. (1915 Pa)

Description: 2 1/4" X 6" With 1/4" - 1 1/8" Glass
Function: Curtain Wall
Detail: Design Criteria
Scale: N.T.S.

I = 4.153 IN^4
S = 1.490 IN^3

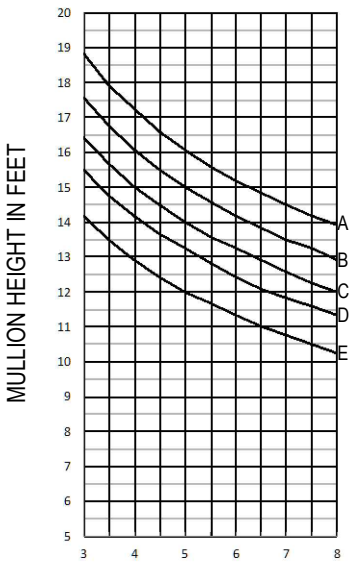


MULLION SPACING IN FEET

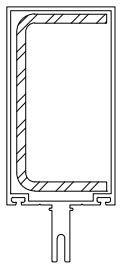


OPG6051

I = 11.385 IN^4



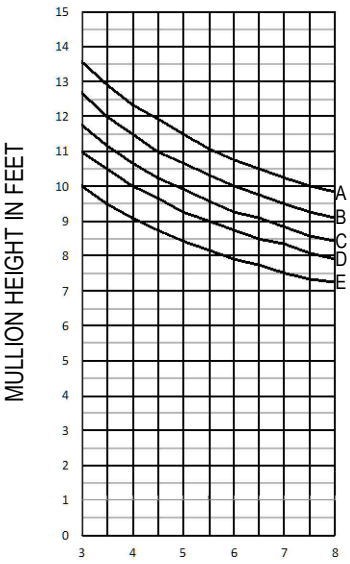
MULLION SPACING IN FEET



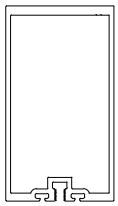
OPG6051 WITH
STEEL REINFORCEMENT
1 7/8" X 3 11/16" X 3/16"

- 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 = 3.962 IN^4
S = 1.950 IN^3

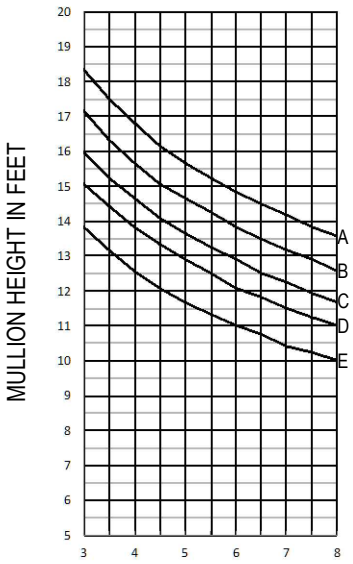


MULLION SPACING IN FEET

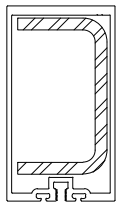


OPG602075

I = 10.506 IN^4



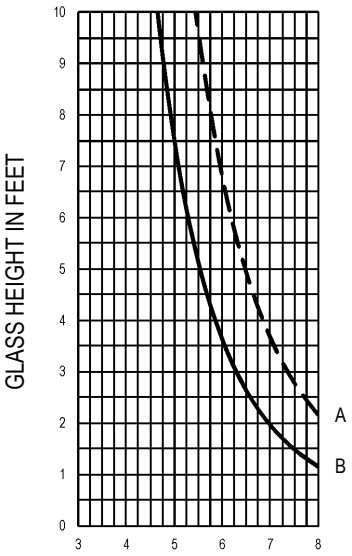
MULLION SPACING IN FEET

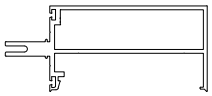


OPG602075 WITH
STEEL REINFORCEMENT
1 7/8" X 3 1/4" X 1/4".

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

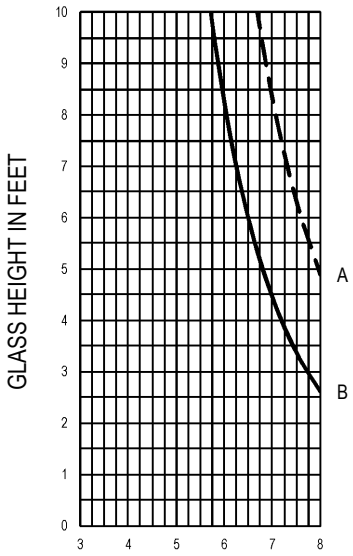
I = 0.599 IN^4
S = 0.446 IN^3

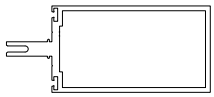




OPG6000 - 1/2" GLASS

I = 1.362 IN^4
S = 1.211 IN^3

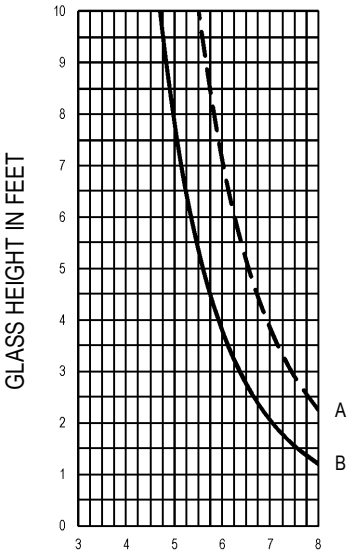


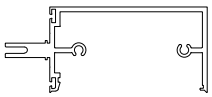


OPG6010 - 1/2" GLASS

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

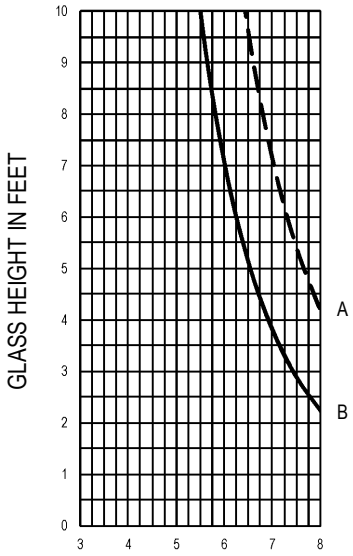
I = 0.626 IN^4
S = 0.440 IN^3

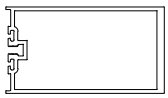




OPG6049 - 1/2" GLASS

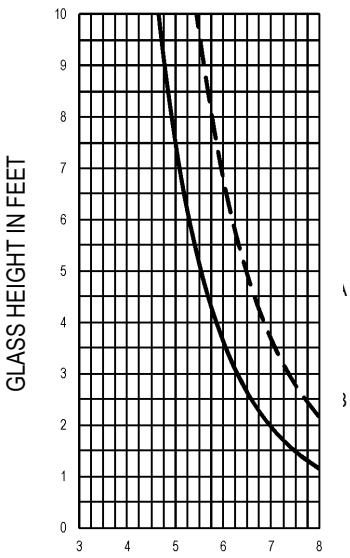
I = 1.167 IN^4
S = 1.037 IN^3



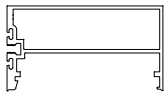


OPG6020 - 1/2" GLASS

I = 0.594 IN^4
S = 0.446 IN^3

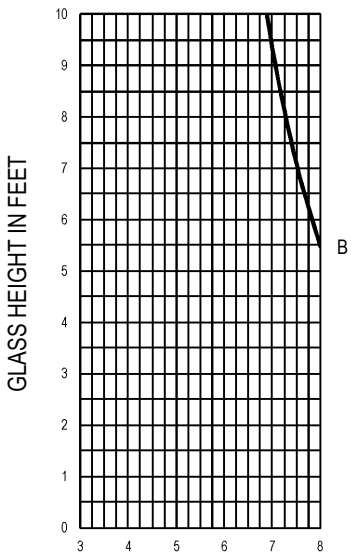


MULLION WIDTH IN FEET

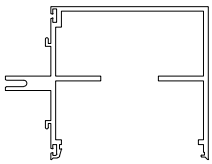


OPG6027 - 1/2" GLASS

I = 2.858 IN^4
S = 1.189 IN^3



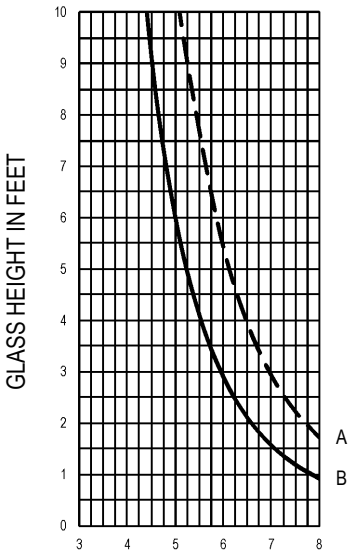
MULLION WIDTH IN FEET

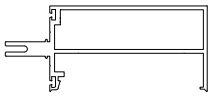


OPG6400 - 1/2" GLASS

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

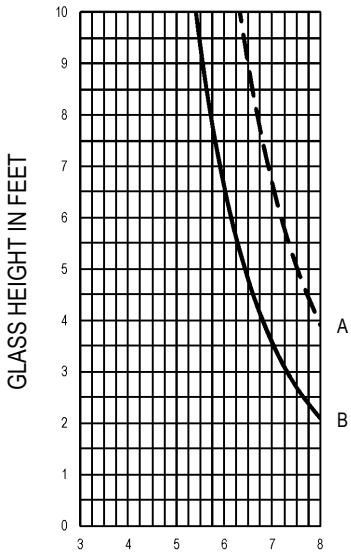
I = 0.599 IN^4
S = 0.446 IN^3

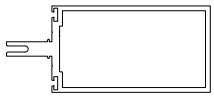




OPG6000 - 5/8" GLASS

I = 1.362 IN^4
S = 1.211 IN^3

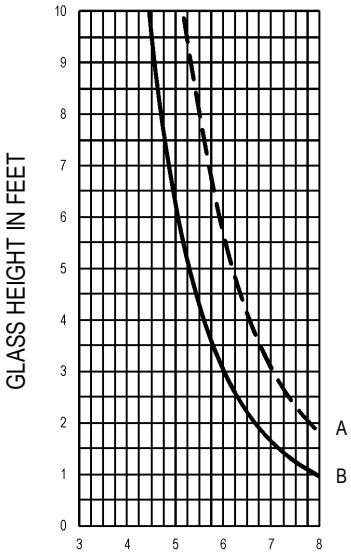


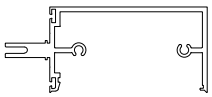


OPG6010 - 5/8" GLASS

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

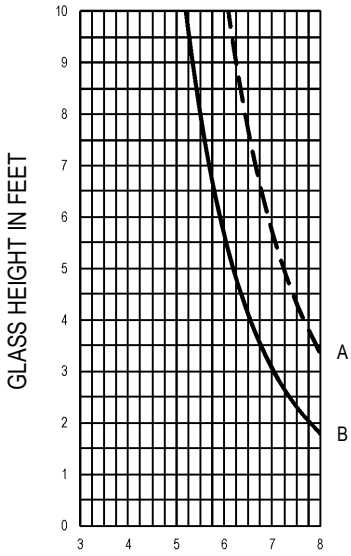
I = 0.626 IN^4
S = 0.440 IN^3

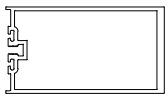




OPG6049 - 5/8" GLASS

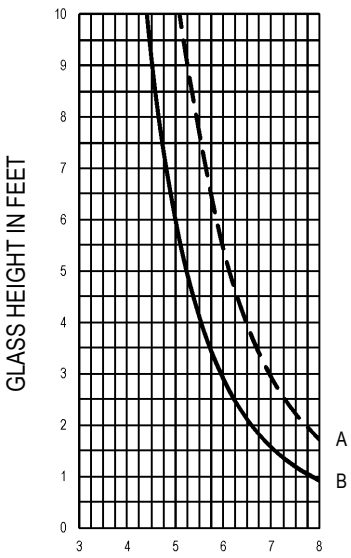
I = 1.167 IN^4
S = 1.037 IN^3

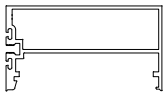




OPG6020 - 5/8" GLASS

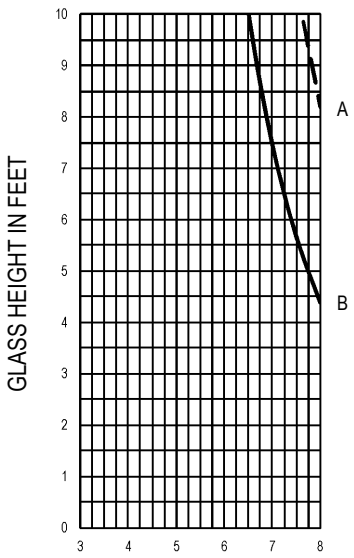
I = 0.594 IN^4
S = 0.446 IN^3

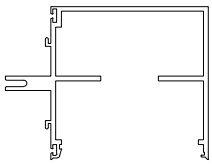




OPG6027 - 5/8" GLASS

I = 2.858 IN^4
S = 1.189 IN^3

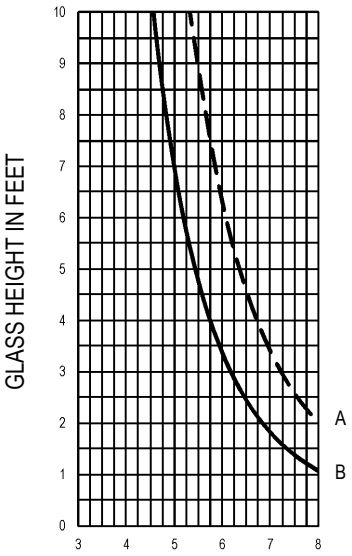


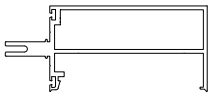


OPG6400 - 5/8" GLASS

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

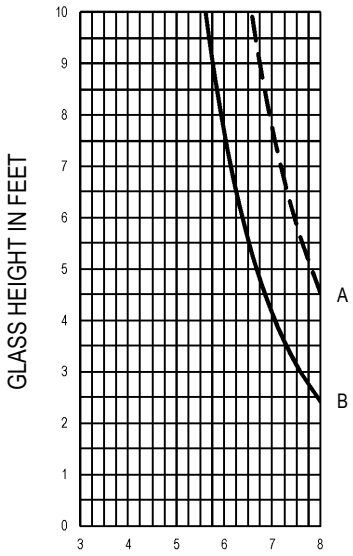
I = 0.599 IN^4
S = 0.446 IN^3

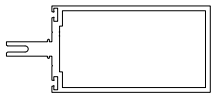




OPG6000 - 1" GLASS

I = 1.362 IN^4
S = 1.211 IN^3

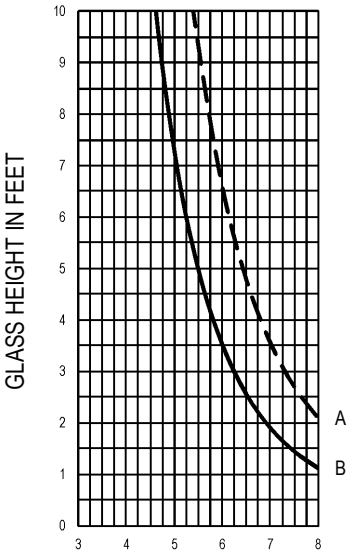


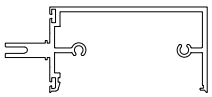


OPG6010 - 1" GLASS

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

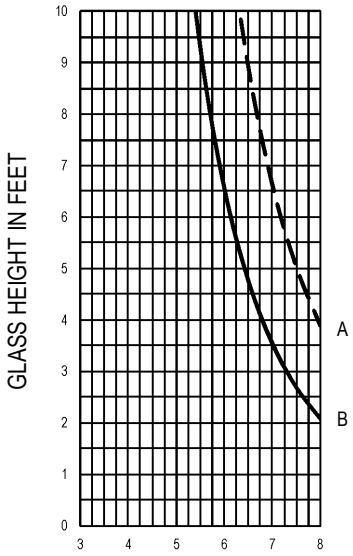
I = 0.626 IN^4
S = 0.440 IN^3

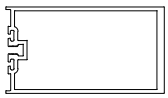




OPG6049 - 1" GLASS

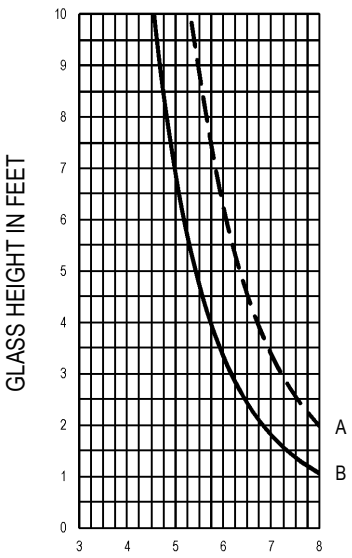
I = 1.167 IN^4
S = 1.037 IN^3

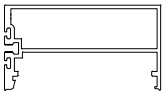




OPG6020 - 1" GLASS

I = 0.594 IN^4
S = 0.446 IN^3

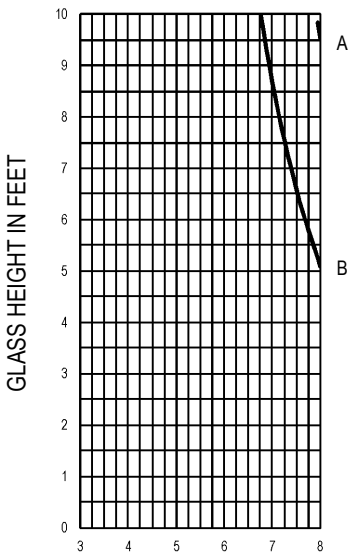


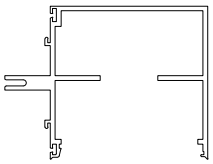


MULLION WIDTH IN FEET

OPG6027 - 1" GLASS

I = 2.858 IN^4
S = 1.189 IN^3





MULLION WIDTH IN FEET

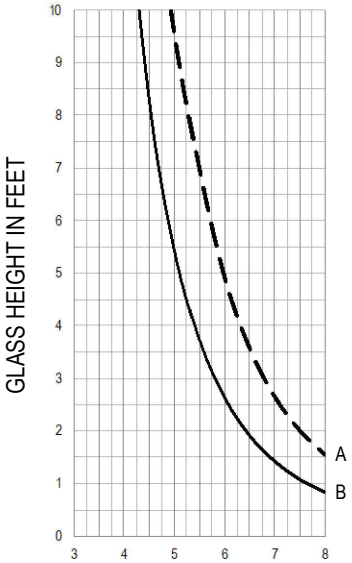
OPG6400 - 1" GLASS

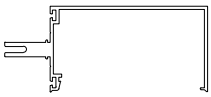
CURVE REPRESENTATION

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

B (▬) = 1/4 PTS.

I = 0.466 IN^4
S = 0.330 IN^3

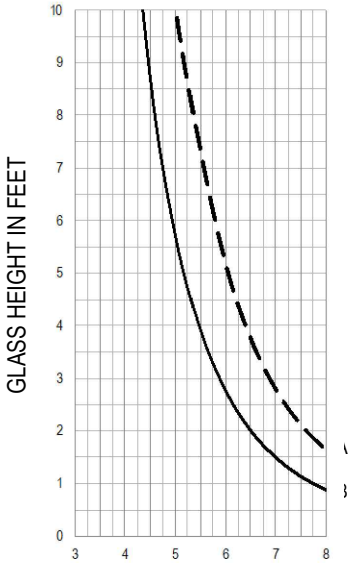


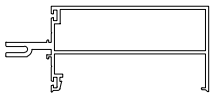


MULLION WIDTH IN FEET

OPG6052 - 1" GLASS

I = 0.490 IN^4
S = 0.364 IN^3

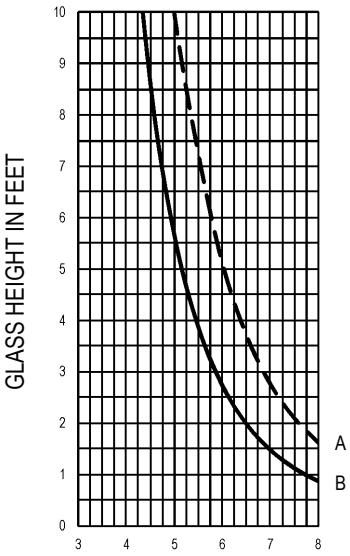


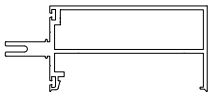


MULLION WIDTH IN FEET

OPG6053 - 1" GLASS

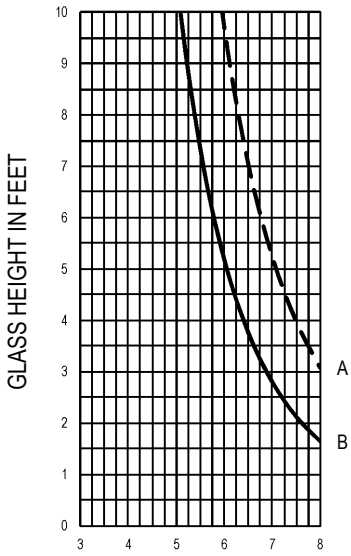
I = 0.599 IN^4
S = 0.446 IN^3

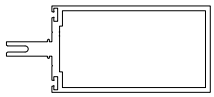




OPG6000 - 1 1/8" GLASS

I = 1.362 IN^4
S = 1.211 IN^3

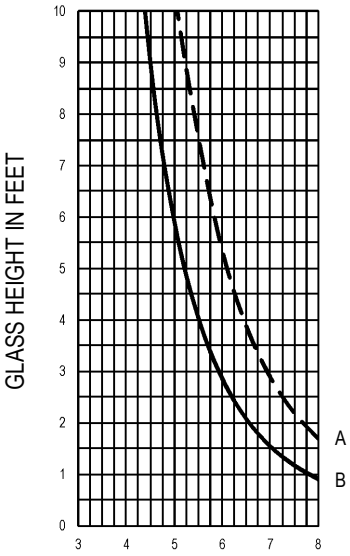


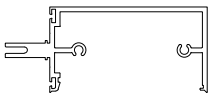


OPG6010 - 1 1/8" GLASS

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

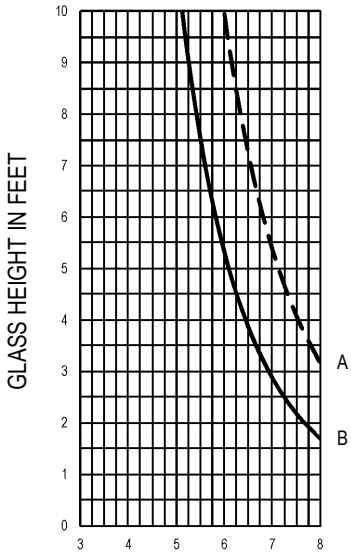
I = 0.626 IN^4
S = 0.440 IN^3

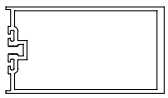




OPG6049 - 1 1/8" GLASS

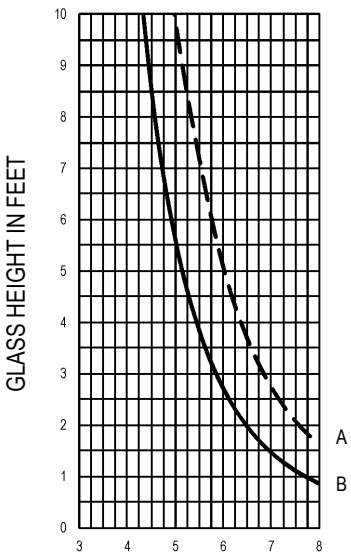
I = 1.167 IN^4
S = 1.037 IN^3

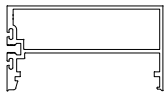




OPG6020 - 1 1/8" GLASS

I = 0.594 IN^4
S = 0.446 IN^3

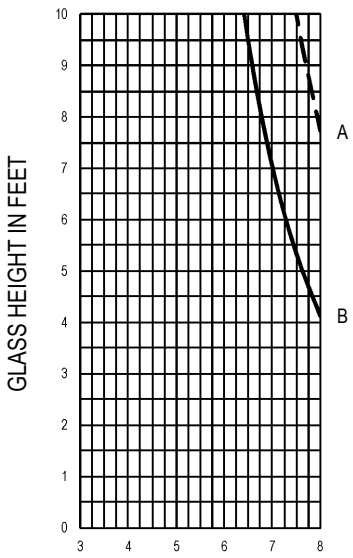


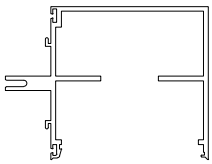


MULLION WIDTH IN FEET

OPG6027 - 1 1/8" GLASS

I = 2.858 IN^4
S = 1.189 IN^3





MULLION WIDTH IN FEET

OPG6400 - 1 1/8" GLASS

CURVE REPRESENTATION

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

B (▬) = 1/4" PTS.