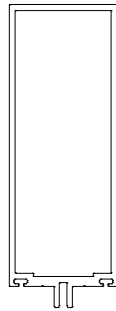
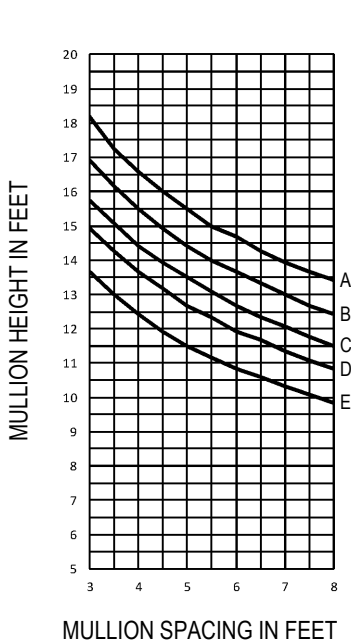




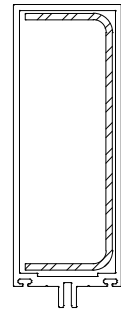
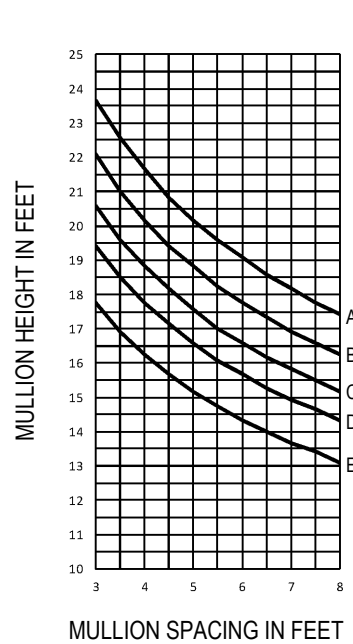
# Windload Charts | T500 (OPG17-1800) Series

A = 16 P.S.F. (766 Pa) Description: 2 1/4" X 7" With 1/4" & 3/8" Glass  
 B = 20 P.S.F. (958 Pa) Function: Curtain Wall  
 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

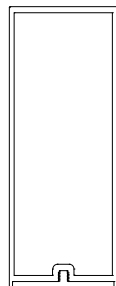
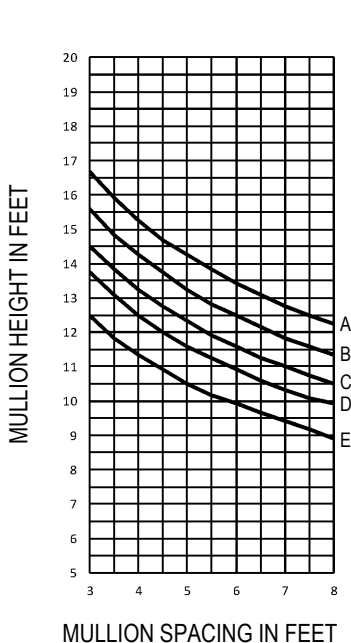


OPG1810

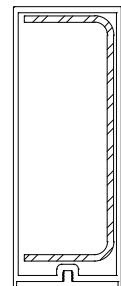
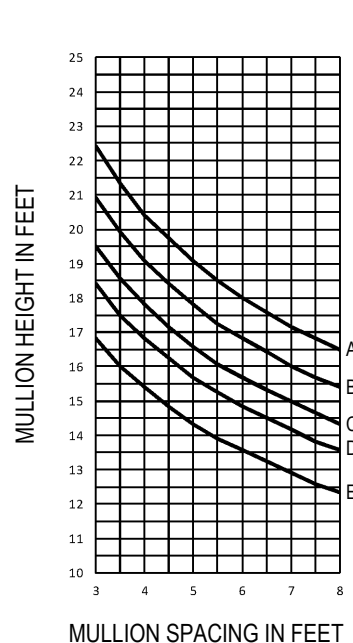


OPG1810 WITH STEEL REINFORCEMENT  
1 7/8" X 5 3/8" X 10 GA.

- 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.

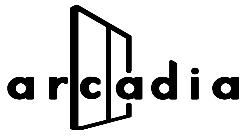


OPG1820



OPG1820 WITH STEEL REINFORCEMENT  
1 7/8" X 5 1/8" X 10 GA.

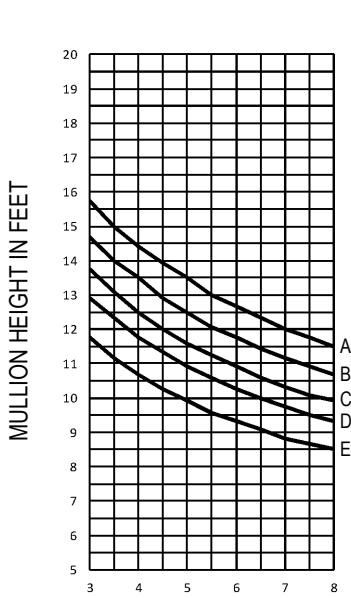
Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.



# Windload Charts | T500 (OPG17-1800) Series

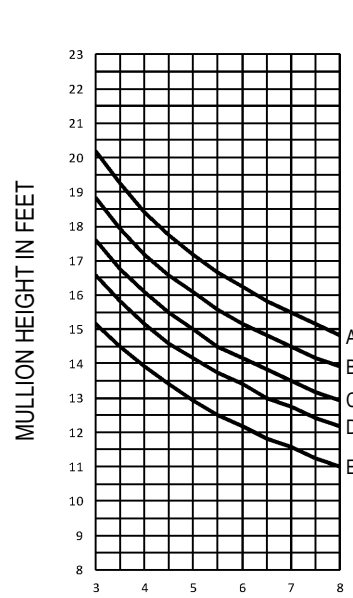
A = 16 P.S.F. (766 Pa) Description: 2 1/4" X 7" With 1/4" & 3/8" Glass  
 B = 20 P.S.F. (958 Pa) Function: Curtain Wall  
 C = 25 P.S.F. (1197 Pa) Detail: Design Criteria  
 D = 30 P.S.F. (1436 Pa) Scale: N.T.S.  
 E = 40 P.S.F. (1915 Pa)

SHEET 2 OF 3



$I = 6.400 \text{ IN}^4$   
 $S = 2.410 \text{ IN}^3$

OPG1920 / OPG1921

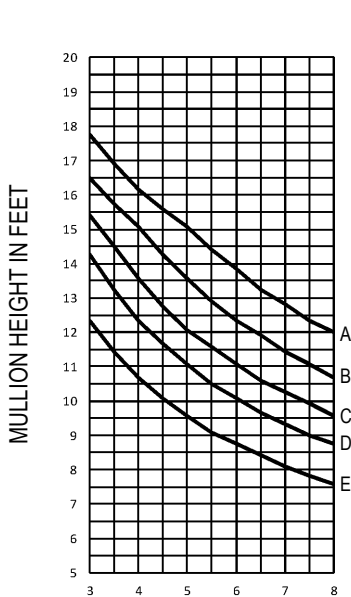


$I = 14.149 \text{ IN}^4$

OPG1920 / OPG1921 W/ STEEL REINFORCEMENT

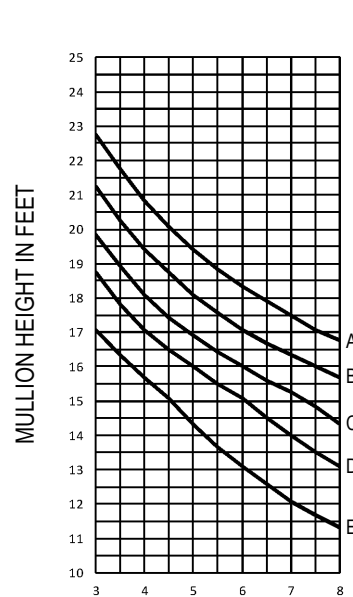
1 7/8" X 4 1/4" X 10 GA.

- 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.
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$I = 9.338 \text{ IN}^4$   
 $S_1 = 2.349 \text{ IN}^3$      $S_2 = 0.508 \text{ IN}^3$

OPG1878 / OPG1701



$I = 20.875 \text{ IN}^4$

OPG1878 / OPG1701 W/ STEEL REINFORCEMENT

1 5/8" X 5 1/4" X 10 GA.

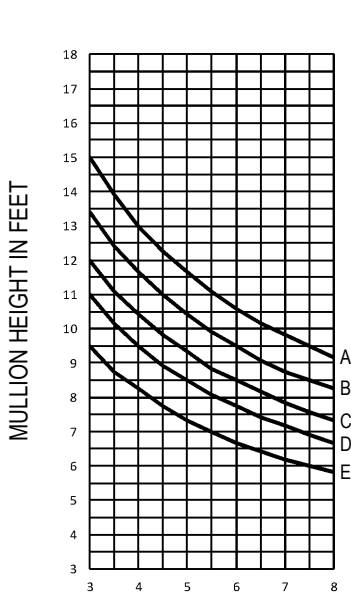
Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.



# Windload Charts | T500 (OPG17-1800) Series

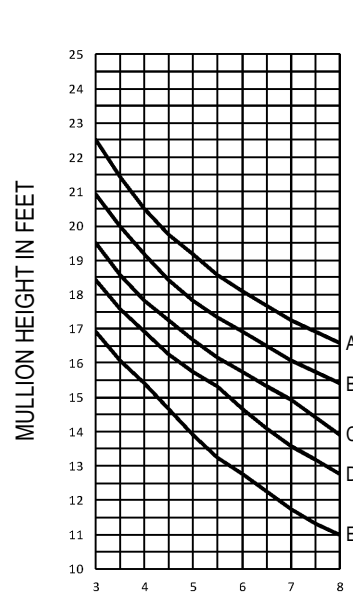
A = 16 P.S.F. (766 Pa) Description: 2 1/4" X 7" With 1/4" & 3/8" Glass  
 B = 20 P.S.F. (958 Pa) Function: Curtain Wall  
 C = 25 P.S.F. (1197 Pa) Detail: Design Criteria  
 D = 30 P.S.F. (1436 Pa) Scale: N.T.S.  
 E = 40 P.S.F. (1915 Pa)

SHEET 3 OF 3



$I = 7.761 \text{ IN}^4$   
 $S_1 = 1.855 \text{ IN}^3$      $S_2 = 0.508 \text{ IN}^3$

OPG1878L / OPG1701

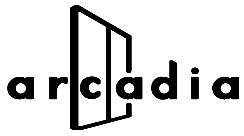


$I = 19.987 \text{ IN}^4$

OPG1878L / OPG1701  
W/ STEEL REINFORCEMENT  
1 5/8" X 5 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.
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Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.



# Deadload Charts | T500 (OPG 17-1800) Series

Description: 2 1/4" X 7" With 1/4" Glass

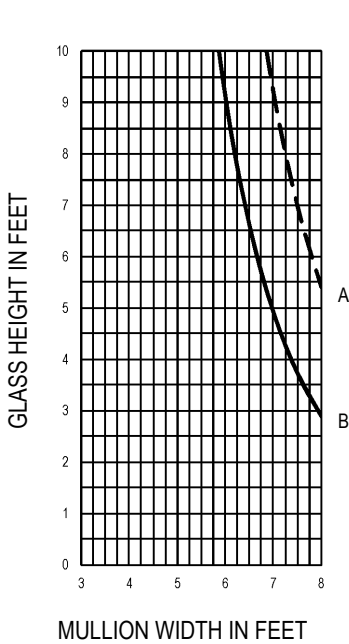
Function: Curtain Wall

Detail: Design Criteria

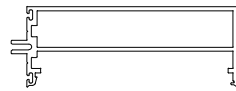
Scale: N.T.S.

Deadload Charts for 1/4" Glass

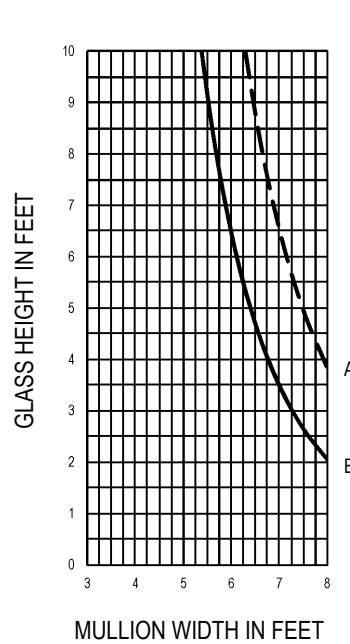
SHEET 1 OF 2



$I = 0.811 \text{ IN}^4$   
 $S = 0.560 \text{ IN}^3$



OPG1700 - 1/4" GLASS



$I = 0.575 \text{ IN}^4$   
 $S = 0.366 \text{ IN}^3$

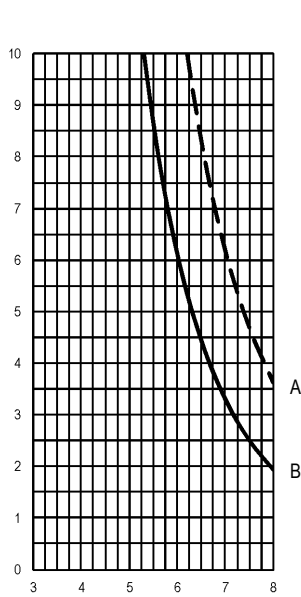


OPG1808 - 1/4" GLASS

### CURVE REPRESENTATION

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

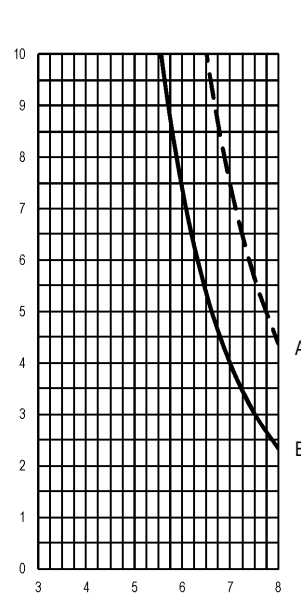
B (—) = 1/4" PTS.



$I = 0.544 \text{ IN}^4$   
 $S = 0.336 \text{ IN}^3$



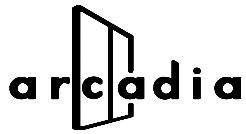
OPG1878L - 1/4" GLASS



$I = 0.656 \text{ IN}^4$   
 $S = 0.403 \text{ IN}^3$



OPG1878 - 1/4" GLASS



# Deadload Charts | T500 (OPG 17-1800) Series

Description: 2 1/4" X 7" With 1/4" Glass

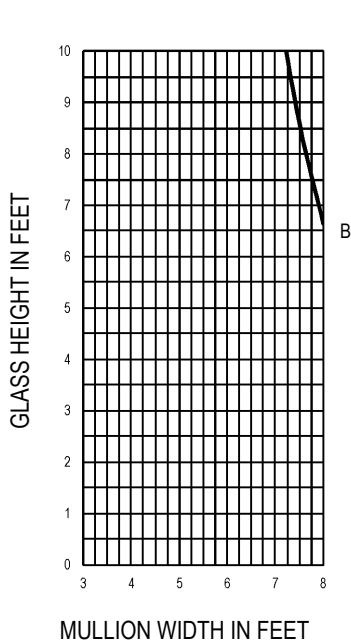
Function: Curtain Wall

Detail: Design Criteria

Scale: N.T.S.

Deadload Charts for 1/4" Glass

SHEET 2 OF 2



$I = 1.866 \text{ IN}^4$   
 $S = 1.659 \text{ IN}^3$



OPG1810 - 1/4" GLASS

### CURVE REPRESENTATION

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

B (—) = 1/4" PTS.