Windload Charts | T500 (OPG1900) Series A = 16 P.S.F. (766 Pa)

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Description: 2 1/4" X 7" With 1/4" - 1 1/8" 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)

E = 40 P.S.F. (1915 Pa) Scale: N.T.S.

SHEET 1 OF 9



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.



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STEEL REINFORCEMENT 1 7/8" X 4 5/8" X 10 GA.

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)

E = 40 P.S.F. (1915 Pa) Scale: N.T.S.

SHEET 2 OF 9



- 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.
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- 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
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STEEL REINFORCEMENT 1 7/8" X 4 7/16" X 10 GA.



Description: 2 1/4" X 7" With 1/4" - 1 1/8" 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)

E = 40 P.S.F. (1915 Pa) Scale: N.T.S.

SHEET 3 OF 9

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

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

codes



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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

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.

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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)

E = 40 P.S.F. (1915 Pa) Scale: N.T.S.

SHEET 4 OF 9



- 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.
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- 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.

STEEL REINFORCEMENT 2 1/2" X 5" X 10 GA.



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

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)

E = 40 P.S.F. (1915 Pa) Scale: N.T.S.

SHEET 5 OF 9



- 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
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- Arcadia assumes no responsibility for selecting the appropriate systems for specific projects.

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OPG1929/OPGTONGUE WITH STEEL REINFORCEMENT 1 7/8" X 4 1/4" X 3/16'

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

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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) E = 40 P.S.F. (1915 Pa) Scale: N.T.S.

SHEET 6 OF 9



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

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

STEEL REINFORCEMENT 1 3/4" X 3 3/4" X 3/16"



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Description: 2 1/4" X 7" With 1/4" - 1 1/8" 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)

E = 40 P.S.F. (1915 Pa) Scale: N.T.S.

SHEET 7 OF 9



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

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OPG-1951 WITH STEEL REINFORCEMENT 1 7/8" X 4 11/16" X 3/16"

 $I = 20.203 IN^4$



OPG1911HVY WITH STEEL REINFORCEMENT 1 5/8" X 4 3/8" X 10 GA

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

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adia a r C

Description: 2 1/4" X 7" With 1/4" - 1 1/8" 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) E = 40 P.S.F. (1915 Pa) Scale: N.T.S.

SHEET 8 OF 9



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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 $I = 20.618 IN^4$



OPG1910/OPG313 WITH STEEL REINFORCEMENT 1 7/8" X 4 5/8" X 10 GA.

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

OPG1910 WITH OPG313

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MULLION SPACING IN FEET

MULLION SPACING IN FEET

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11 10 Windload Charts | T500 (OPG1900) Series 16 P.S.F. (766 Pa)

Description: 2 1/4" X 7" With 1/4" - 1 1/8" 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)

E = 40 P.S.F. (1915 Pa) Scale: N.T.S.

SHEET 9 OF 9



- 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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WITH STEEL REINFORCEMENT 1 7/8" X 5 3/4" X 10 GA

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

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OPG2922210 WITH STEEL REINFORCEMENT 1 7/8" X 4 3/8" X 10 GA.

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SHEET 2 OF 4





