Windload Charts | AFG601 Series

a r c a d i a

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 6" Offset Glazed For 1" Glass
Function: Window Wall
Detail: Design Criteria
Scale: N.T.S.   SHEET 1 OF 5

$I = 6.277 \text{ IN}^4$
$S = 2.032 \text{ IN}^3$

MULLION HEIGHT IN FEET

MULLION SPACING IN FEET   MO601

$I = 11.615 \text{ IN}^4$
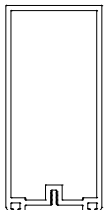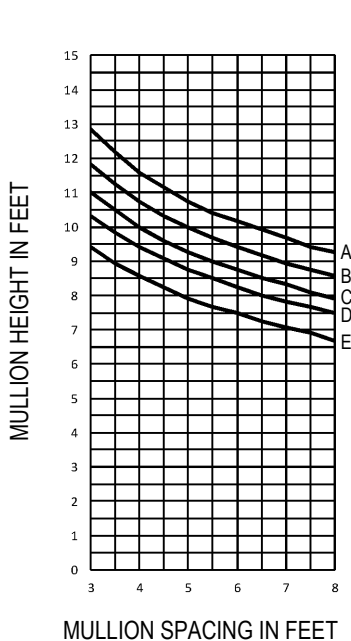

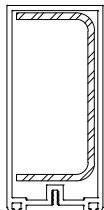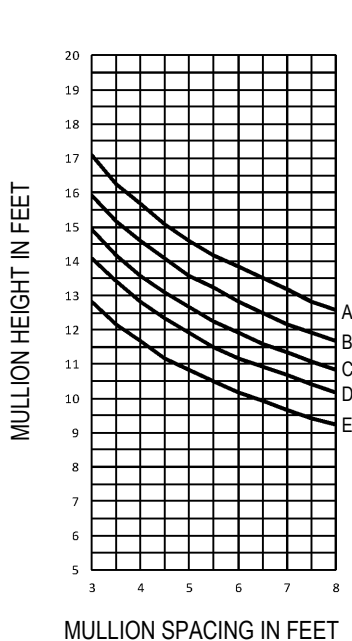MULLION HEIGHT IN FEET

MULLION SPACING IN FEET   MO601 WITH
STEEL REINFORCEMENT
1 5/8" X 3 13/16" 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.
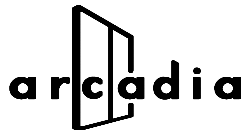
$I = 3.298 \text{ IN}^4$
$S = 1.452 \text{ IN}^3$

MULLION HEIGHT IN FEET

MULLION SPACING IN FEET   SM755

$I = 7.660 \text{ IN}^4$

MULLION HEIGHT IN FEET

MULLION SPACING IN FEET   SM755 WITH
STEEL REINFORCEMENT
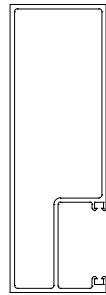1 5/8" X 3 1/2" X 10 GA.

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

Windload Charts | AFG601 Series

arcadia

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

Description: 2" X 6" Offset Glazed For 1" Glass
Function: Window Wall
Detail: Design Criteria
Scale: N.T.S.   SHEET 2 OF 4

$I = 6.565\ \text{IN}^4$
$S = 2.081\ \text{IN}^3$

$I = 11.903\ \text{IN}^4$

MULLION HEIGHT IN FEET

MULLION SPACING IN FEET   DJM661

MULLION SPACING IN FEET   DJM661 WITH
STEEL REINFORCEMENT
1 5/8" X 3 13/16" 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.
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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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$I = 6.130\ \text{IN}^4$
$S = 1.907\ \text{IN}^3$

$I = 14.772\ \text{IN}^4$

MULLION HEIGHT IN FEET

MULLION SPACING IN FEET   MO658

MULLION SPACING IN FEET   MO601 WITH
STEEL REINFORCEMENT
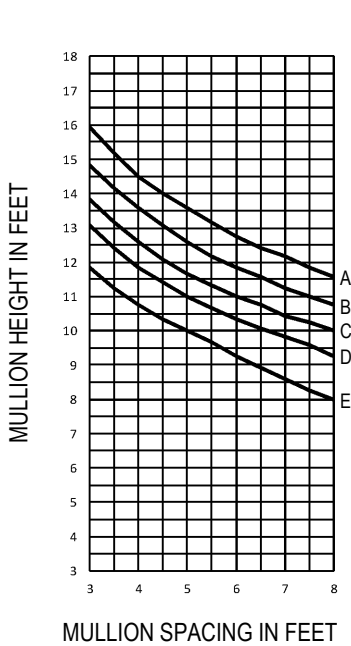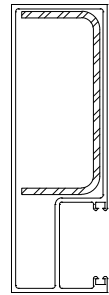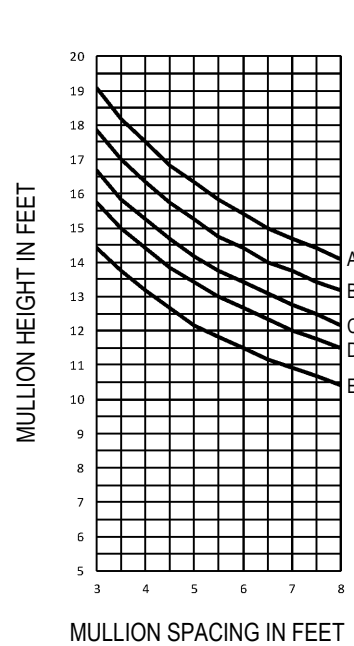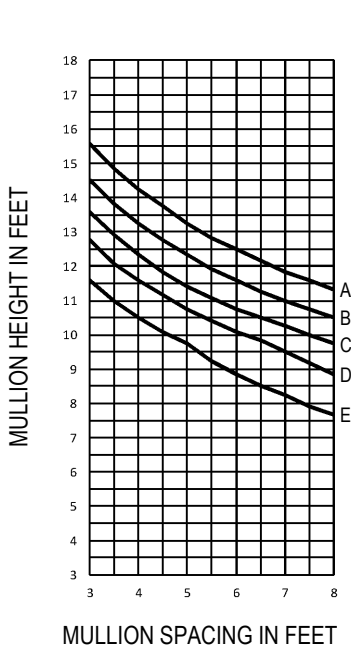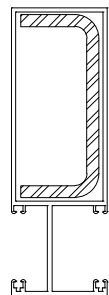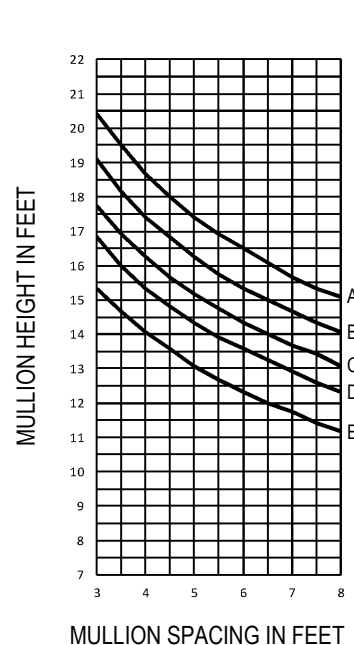1 5/8" X 3 13/16" X 1/4"
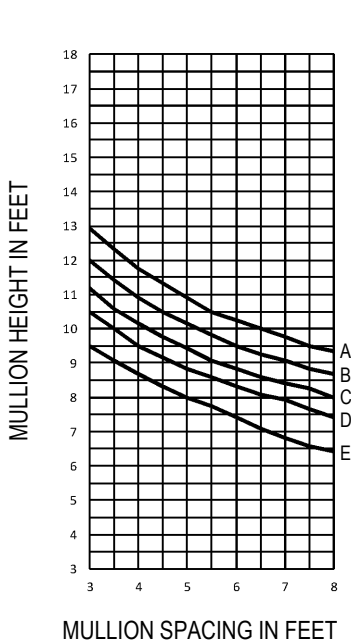
Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.
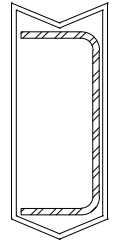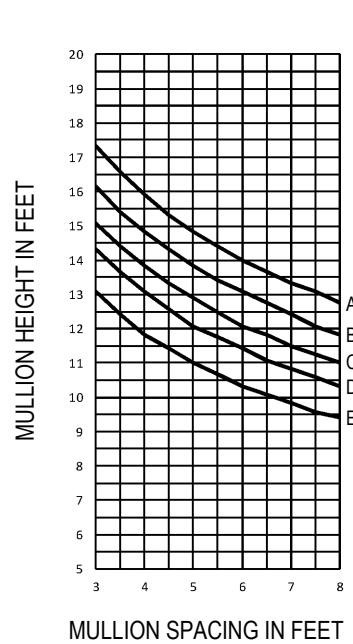
Windload Charts | AFG601 Series

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 6" Offset Glazed For 1" Glass
Function: Window Wall
Detail: Design Criteria
Scale: N.T.S.   SHEET 3 OF 4

a r c a d i a

$I = 3.426 \text{ IN}^4$
$S = 1.326 \text{ IN}^3$

MULLION HEIGHT IN FEET
MULLION SPACING IN FEET   ICOC735

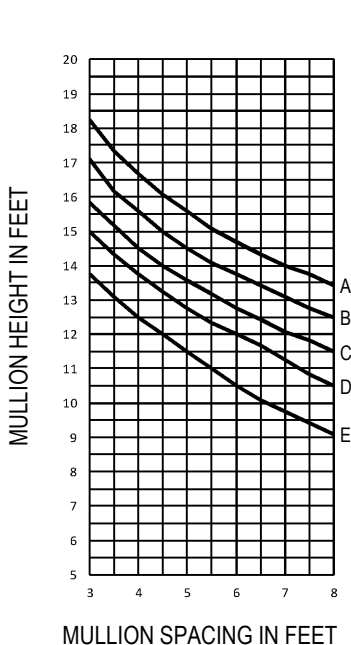$I = 8.764 \text{ IN}^4$

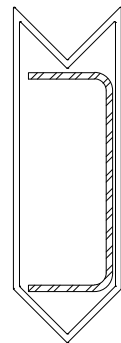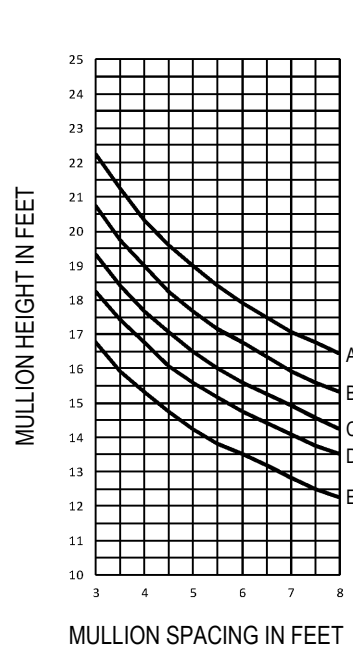MULLION HEIGHT IN FEET
MULLION SPACING IN FEET

ICOC735 WITH
STEEL REINFORCEMENT
1 5/8" X 3 13/16" 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.
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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.
- Arcadia assumes no responsibility for selecting the appropriate systems for specific projects.
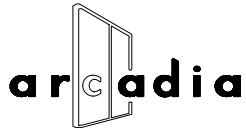
$I = 10.229 \text{ IN}^4$
$S = 2.678 \text{ IN}^3$

MULLION HEIGHT IN FEET
MULLION SPACING IN FEET   ICOC755

$I = 18.925 \text{ IN}^4$
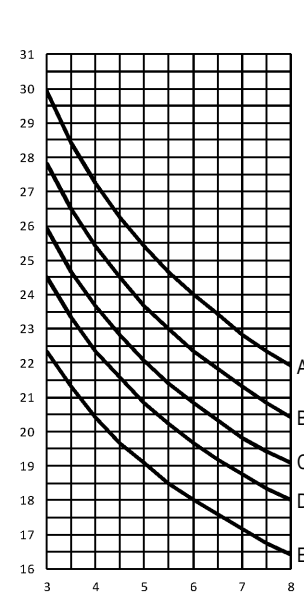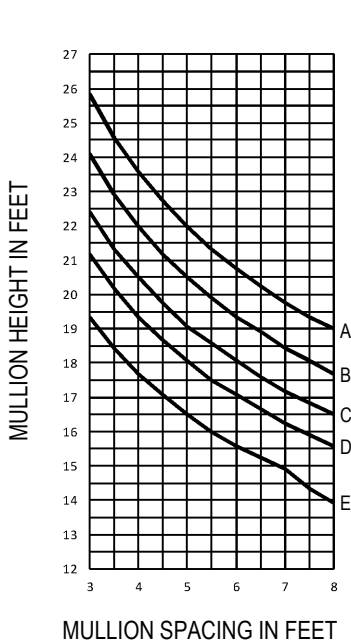

MULLION HEIGHT IN FEET
MULLION SPACING IN FEET

ICOC755 WITH
STEEL REINFORCEMENT
1 3/4" X 4 9/16" X 10 GA.

Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.
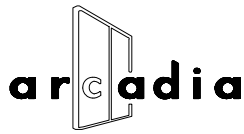
Windload Charts | AFG601 Series

arcadia

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 6" Offset Glazed For 1" Glass
Function: Window Wall
Detail: Design Criteria
Scale: N.T.S.   SHEET 4 OF 5

$I = 31.024 \ IN^4$

$S_1 = 6.036 \ IN^3$ $S_2 = 0.387 \ IN^3$

$I = 49.105 \ IN^4$

MULLION HEIGHT IN FEET

MULLION SPACING IN FEET

MO691 / OPG1701

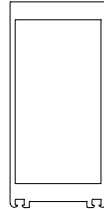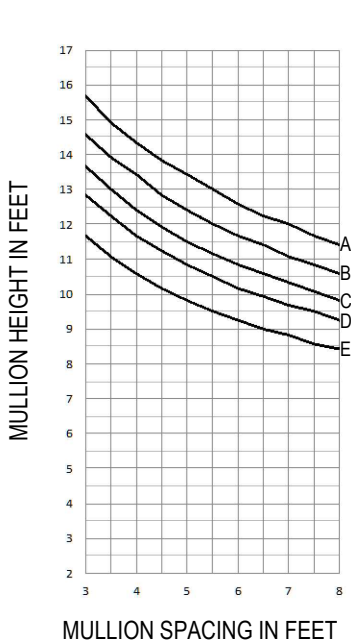MO691 / OPG1701 WITH STEEL REINFORCEMENT 1 1/2" X 6 7/16" X 10 GA.

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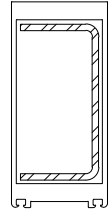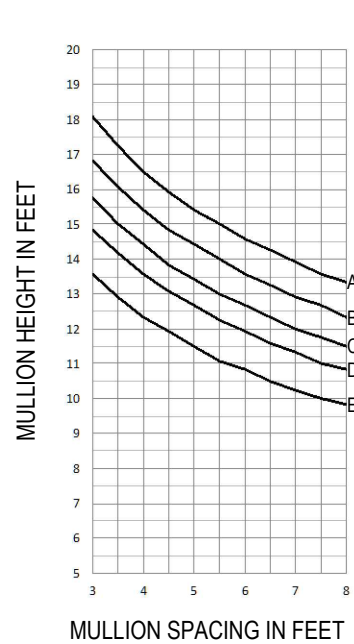
Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.

Windload Charts | AFG601 Series

arcadia

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 6" Offset Glazed For 1" Glass
Function: Window Wall
Detail: Design Criteria
Scale: N.T.S.   SHEET 5 OF 5

$I = 6.289\ \text{IN}^4$
$S = 2.897\ \text{IN}^3$

MULLION HEIGHT IN FEET

MULLION SPACING IN FEET

SM758

$I = 9.934\ \text{IN}^4$
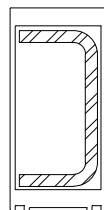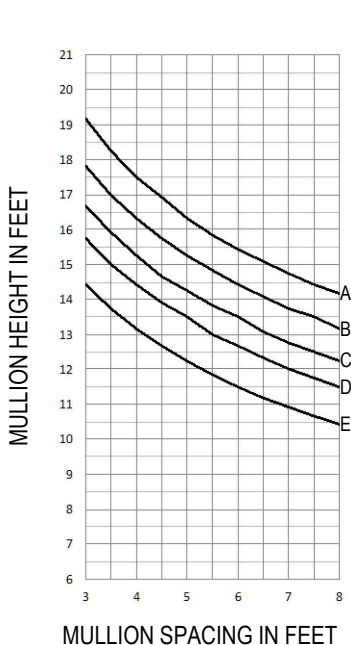

MULLION HEIGHT IN FEET

MULLION SPACING IN FEET

SM758 WITH
STEEL REINFORCEMENT
1 5/8" 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.
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$I = 12.000\ \text{IN}^4$

MULLION HEIGHT IN FEET

MULLION SPACING IN FEET

SM758 WITH
STEEL REINFORCEMENT
1 5/8" X 3 1/4" X 1/4"

Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.
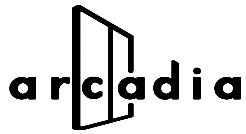
Deadload Charts | AFG601 Series

arcadia

Description: 2" X 6" Offset Glazed For 1" Glass
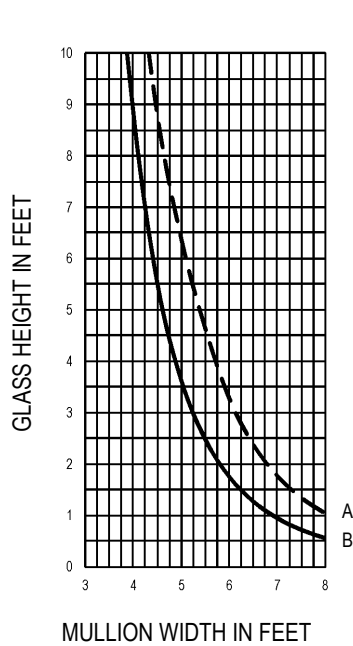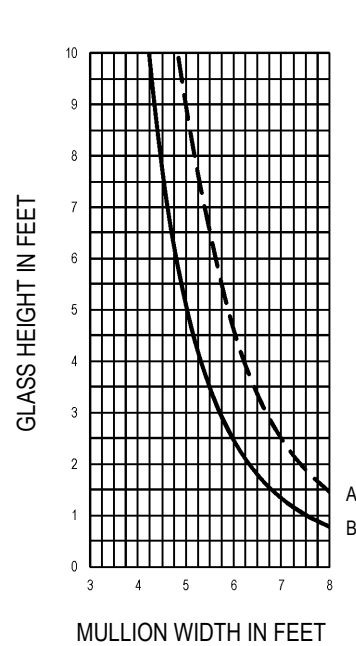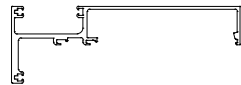Function: Window Wall
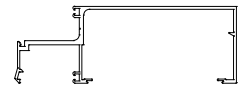Detail: Design Criteria
Deadload Charts for 1" Glass (7.00 PSF) | Scale: N.T.S. | SHEET 1 OF 1

$I = 0.311\ IN^4$
$S = 0.221\ IN^3$

MULLION WIDTH IN FEET

HM630 - 1" GLASS

$I = 0.438\ IN^4$
$S = 0.350\ IN^3$

MULLION WIDTH IN FEET

HM635 - 1" GLASS

CURVE REPRESENTATION

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

B (———) = 1/4" PTS.

$I = 2.285\ IN^4$
$S = 0.921\ IN^3$

HM6324 - 1" GLASS