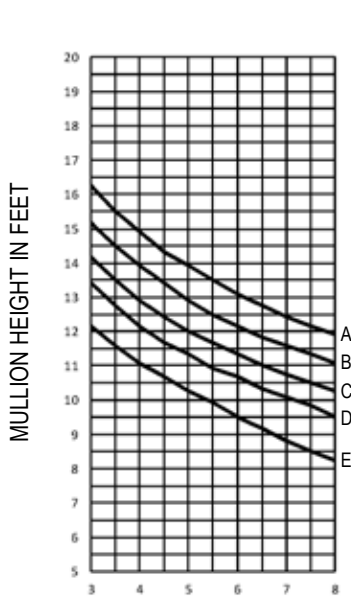# Windload Charts | AF600 Series

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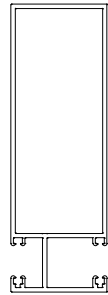
Description: 2" X 6" Offset Glazed For 1/4" Glass
Function: Window Wall
Detail: Design Criteria
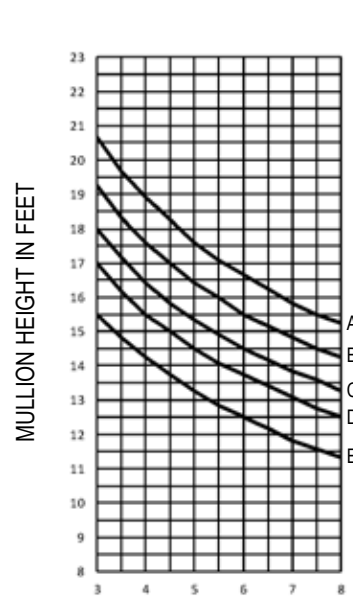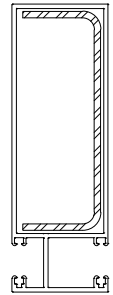Scale: N.T.S.   SHEET 1 OF 4

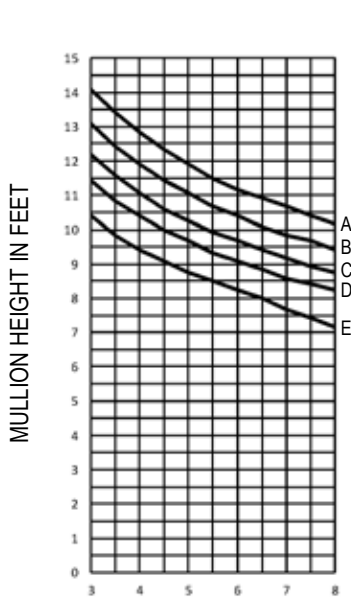**arcadia**

$I = 7.102 \text{ IN}^4$
$S = 2.192 \text{ IN}^3$

$I = 15.310 \text{ IN}^4$

MULLION HEIGHT IN FEET

MULLION SPACING IN FEET   MO600

MULLION SPACING IN FEET   MO600 WITH
STEEL REINFORCEMENT
1 5/8" X 4 9/16" 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.
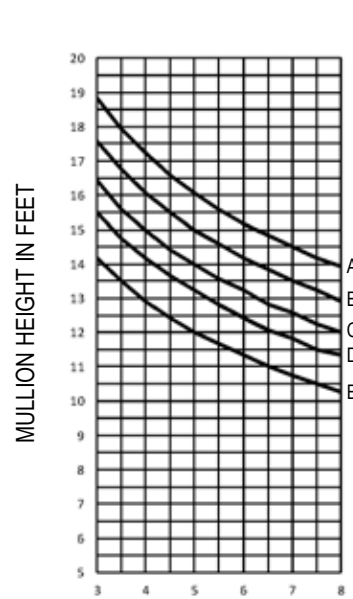- Arcadia assumes no responsibility for selecting the appropriate systems for specific projects.
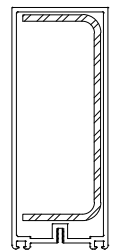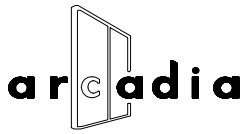
$I = 4.434 \text{ IN}^4$
$S = 1.667 \text{ IN}^3$

$I = 11.351 \text{ IN}^4$

MULLION HEIGHT IN FEET

MULLION SPACING IN FEET   SM655

MULLION SPACING IN FEET   SM655 WITH
STEEL REINFORCEMENT
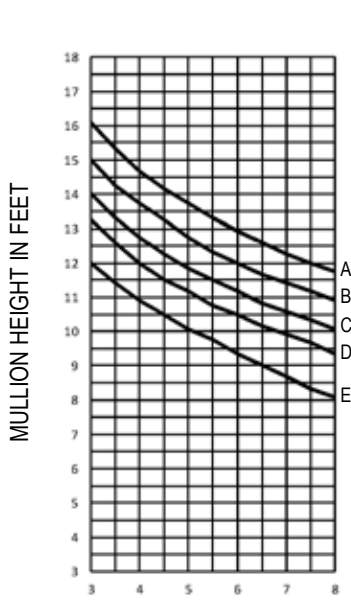1 5/8" X 4 5/16" X 10 GA.

Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.
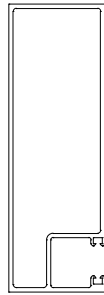
Windload Charts | AF600 Series

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 1/4" Glass
Function: Window Wall
Detail: Design Criteria
Scale: N.T.S.   SHEET 2 OF 4

arcadia

$I = 6.803 \text{ IN}^4$
$S = 2.115 \text{ IN}^3$

MULLION HEIGHT IN FEET

MULLION SPACING IN FEET   DJM660
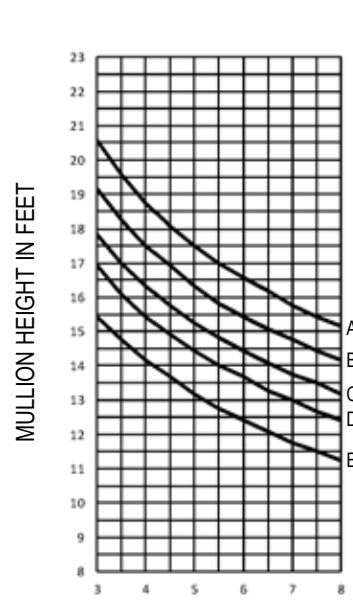
$I = 15.011 \text{ IN}^4$

MULLION HEIGHT IN FEET
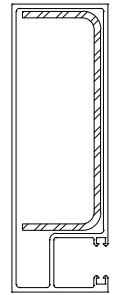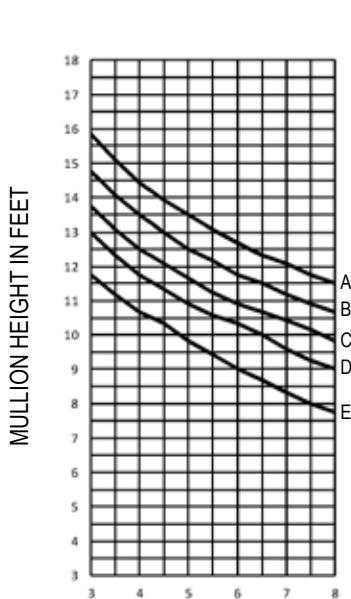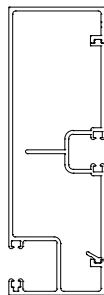
MULLION SPACING IN FEET   DJM660 WITH
STEEL REINFORCEMENT
1 5/8" X 4 9/16" X 10 GA.

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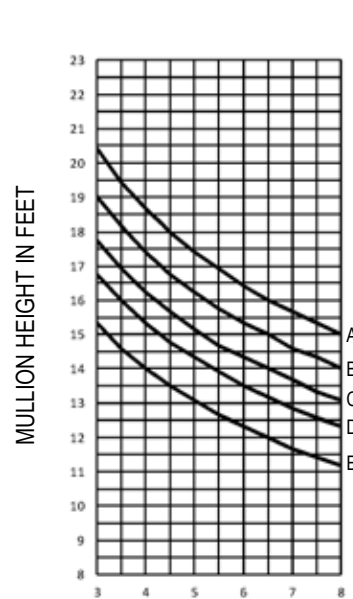- Arcadia assumes no responsibility for selecting the appropriate systems for specific projects.

$I = 5.683 \text{ IN}^4$
$S_1 = 1.745 \text{ IN}^3$ $S_2 = 0.320 \text{ IN}^3$

MULLION HEIGHT IN FEET

MULLION SPACING IN FEET   MO657 / HCF221

$I = 14.663 \text{ IN}^4$

MULLION HEIGHT IN FEET

MULLION SPACING IN FEET   MO657 / HCF221 WITH
STEEL REINFORCEMENT
1 5/8" X 4 9/16" X 10 GA.

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

Windload Charts | AF600 Series

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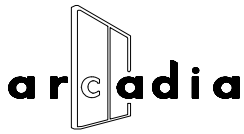
A = 16 P.S.F. (766 Pa)
B = 20 P.S.F. (958 Pa)
C = 25 P.S.F. (1197 Pa)
D = 30 P.S.F. (1436 Pa)
E = 40 P.S.F. (1915 Pa)

Description: 2" X 6" Offset Glazed For 1/4" Glass
Function: Window Wall
Detail: Design Criteria
Scale: N.T.S.   SHEET 3 OF 4

$I = 7.022 \text{ IN}^4$
$S = 2.136 \text{ IN}^3$

MULLION HEIGHT IN FEET

MULLION SPACING IN FEET   OC6165

$I = 14.972 \text{ IN}^4$

MULLION HEIGHT IN FEET
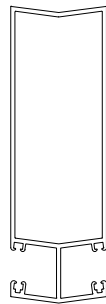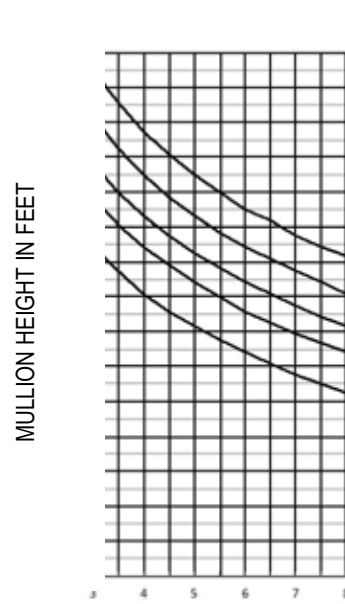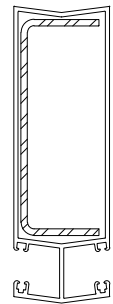
MULLION SPACING IN FEET   OC6165 WITH
STEEL REINFORCEMENT
1 5/8" X 4 1/2" X 10 GA.

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

$I = 6.886 \text{ IN}^4$
$S = 2.049 \text{ IN}^3$

MULLION HEIGHT IN FEET

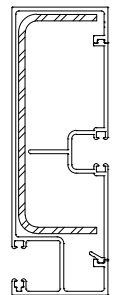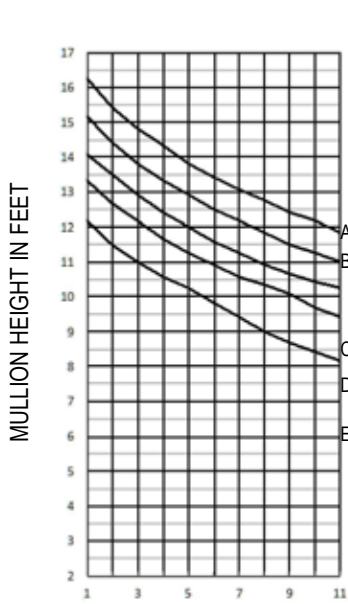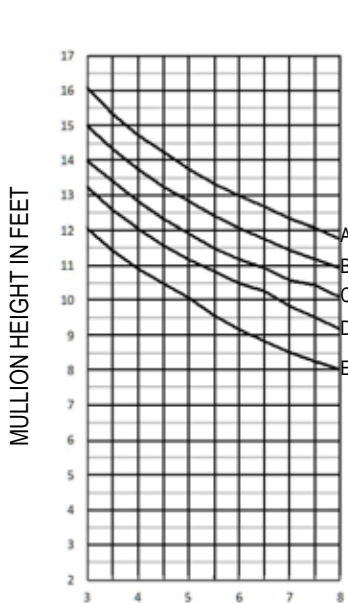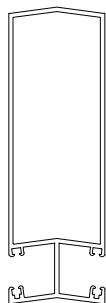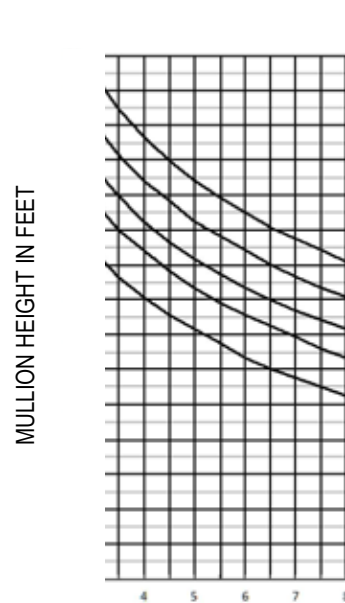MULLION SPACING IN FEET   IC6165

$I = 14.836 \text{ IN}^4$

MULLION HEIGHT IN FEET

MULLION SPACING IN FEET   IC6165 WITH
STEEL REINFORCEMENT
1 5/8" X 4 1/2" X 10 GA.

Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.
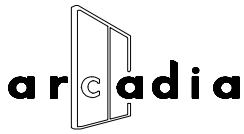
Windload Charts | AF600 Series

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 1/4" Glass
Function: Window Wall
Detail: Design Criteria
Scale: N.T.S.　　　　　SHEET 4 OF 4

$I = 11.230 \text{ IN}^4$

$S = 2.624 \text{ IN}^3$

MULLION HEIGHT IN FEET

MULLION SPACING IN FEET

ICOC600

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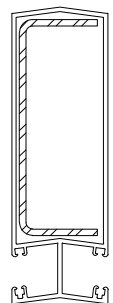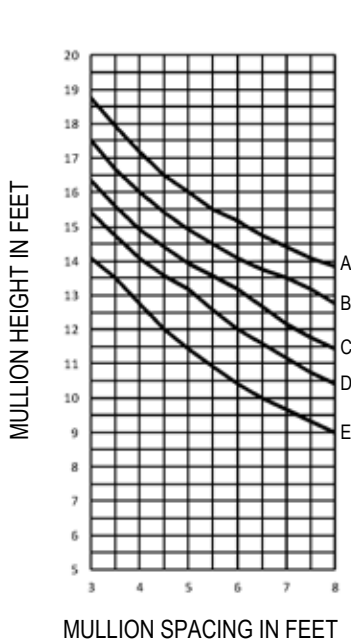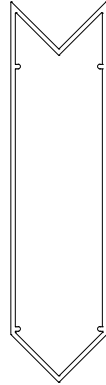
Consult Your Local Arcadia Representative For Special Applications Not Covered By These Curves.

FRAMING-ARCADIA-AF600-WINDLOAD.pdf　　As of: 05/01/20

Deadload Charts | AF600 Series

Description: 2" X 6" Offset Glazed For 1/4" Glass
Function: Window Wall
Detail: Design Criteria
Deadload Charts for 1/4" Glass (3.25 PSF) | Scale: N.T.S.   SHEET 1 OF 1

arcadia

$I = 0.281 \text{ IN}^4$
$S = 0.179 \text{ IN}^3$

GLASS HEIGHT IN FEET

MULLION WIDTH IN FEET   HM645 - 1/4" GLASS

$I = 0.419 \text{ IN}^4$
$S = 0.301 \text{ IN}^3$

GLASS HEIGHT IN FEET

MULLION WIDTH IN FEET   HM648 - 1/4" GLASS
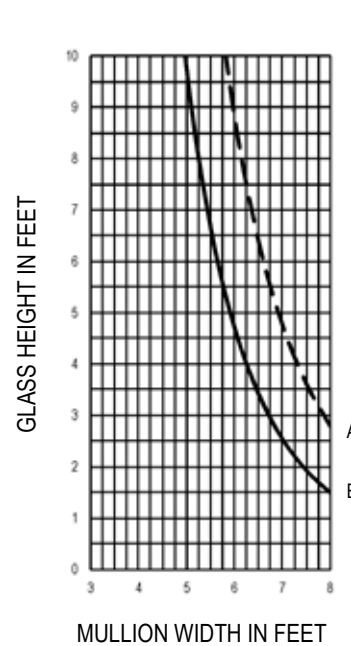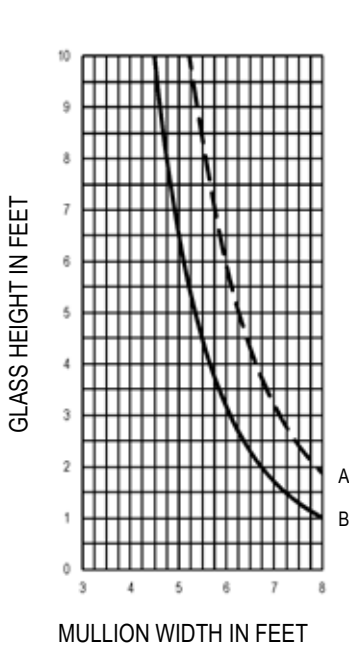
CURVE REPRESENTATION

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

B (———) = 1/4 PTS.

$I = 0.201 \text{ IN}^4$
$S = 0.124 \text{ IN}^3$

GLASS HEIGHT IN FEET

MULLION WIDTH IN FEET   HM647 - 1/4" GLASS