

18

12

11

MULLION HEIGHT IN FEET

Windload Charts | AFG601T 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)

Function: Window Wall Detail: Design Criteria

Description: 2" X 6" Offset Glazed For 1" Glass

I = 11.303 IN

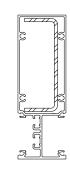
E = 40 P.S.F. (1915 Pa) Scale: N.T.S.

SHEET 1 OF 4





20 IN FEET 14 MULLION HEIGHT 13 12 10 MULLION SPACING IN FEET

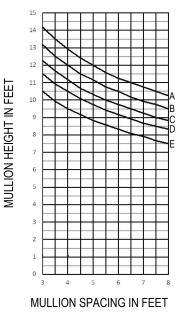


MULLION SPACING IN FEET

TBD651

TBD651 WITH STEEL REINFORCEMENT 1 3/8" X 3 7/8" X 10 GA.

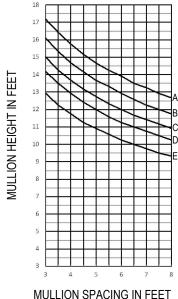
- Mullions are assumed to be single span, simple beam elements, uniformly loaded and adequately braced to prevent lateral-torsional buckling. All other complex design conditions shall be reviewed by Arcadia or a design professional.
- Aluminum extrusions shall be 6063-T6 alloy. Allowable stresses to 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
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I = 4.527 IN 4 $S = 2.042 IN^3$



TB655



I = 8.488 IN 4

TB655 WITH STEEL REINFORCEMENT 1 1/4" X 3 5/16" X 3/16"



16

MULLION HEIGHT IN FEET

Windload Charts | AFG601T Series

A = 16 P.S.F. (766 Pa) B = 20 P.S.F. (958 Pa) C = 25 P.S.F. (1197 Pa)

Function: Window Wall D = 30 P.S.F. (1436 Pa)

Detail: Design Criteria

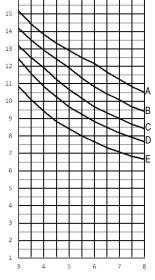
E = 40 P.S.F. (1915 Pa) Scale: N.T.S.

SHEET 2 OF 4

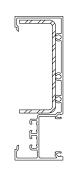
I = 10.849 IN⁴

Description: 2" X 6" Offset Glazed For 1" Glass

I = 5.626 IN 4 $S = 1.674 \text{ IN}^3$



20 IN FEET 14 MULLION HEIGHT 13



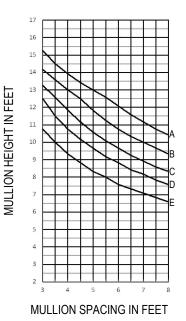
MULLION SPACING IN FEET

TBD665

MULLION SPACING IN FEET

TBD665 WITH STEEL REINFORCEMENT 1 1/2" X 3 7/8" X 10 GA.

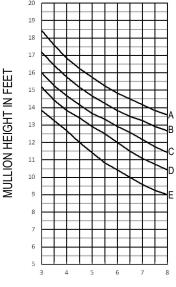
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I = 5.714 IN 4 $S_1 = 1.433 \text{ IN}^3$ $S_2 = 0.273 \text{ IN}^3$



TBD657 / TB605



JIC

I = 10.593 IN⁴

MULLION SPACING IN FEET

TBD657 / TB605 WITH STEEL REINFORCEMENT 1 3/8" X 3 7/8" X 10 GA.



Windload Charts | AFG601T Series

A = 16 P.S.F. (766 Pa) B = 20 P.S.F. (958 Pa)

22

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.

Function: Window Wall

Description: 2" X 6" Offset Glazed For 1" Glass

I = 16.914 IN⁴

SHEET 3 OF 4

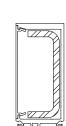
20 19 16 MULLION HEIGHT IN FEET 14

12

I = 10.686 IN⁴ $S = 3.146 IN^3$ S₂= 0.273 IN³



21 IN FEET 16 MULLION HEIGHT 15 12



MULLION SPACING IN FEET

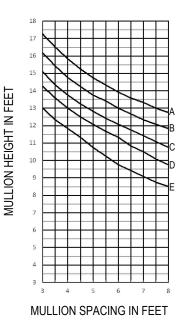
TBD658 / TB605

MULLION SPACING IN FEET

TBD658 / TB605 WITH STEEL REINFORCEMENT 1 5/16" X 3 5/8" X 1/4"

I = 14.036 IN⁴

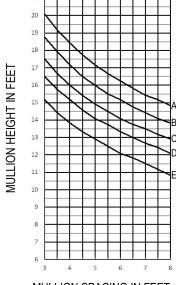
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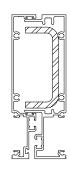
I = 8.640 IN 4 S,= 1.083 IN³ S₂= 1.644 IN³



TBD652 / TB653



MULLION SPACING IN FEET



TBD652 / TB653 WITH STEEL REINFORCEMENT 1 3/8" X 3 3/8" X 1/4"



15

12 11

MULLION HEIGHT IN FEET

Windload Charts | AFG601T Series

A = 16 P.S.F. (766 Pa) B = 20 P.S.F. (958 Pa)

IN FEET

MULLION HEIGHT

C = 25 P.S.F. (1197 Pa) D = 30 P.S.F. (1436 Pa)

Function: Window Wall Detail: Design Criteria

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

SHEET 4 OF 4

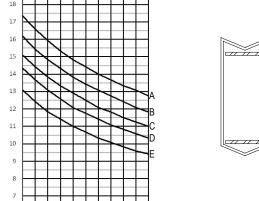
I = 8.764 IN 4

Description: 2" X 6" Offset Glazed For 1" Glass

I = 3.426 IN 4 $S = 1.326 IN^3$



20



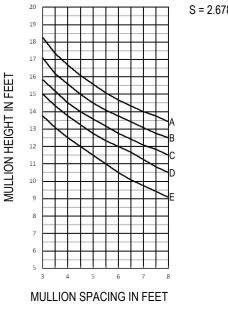
MULLION SPACING IN FEET

ICOC735

MULLION SPACING IN FEET

ICOC735 WITH STEEL REINFORCEMENT 1 5/8" X 3 13/16" X 10 GA.

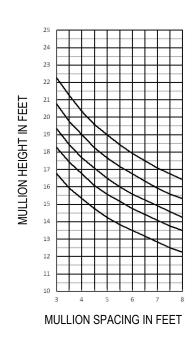
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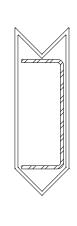


I = 10.229 IN⁴ $S = 2.678 IN^3$



ICOC755





I = 18.925 IN⁴

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



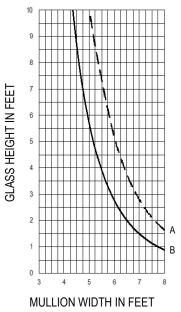


Description: 2" X 6" Offset Glazed For 1" Glass

Function: Window Wall Detail: Design Criteria

Deadload Charts for 1" Glass (7.00 PSF) Scale: N.T.S.

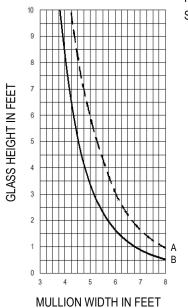
SHEET 1 OF 1



 $I = 0.489 IN^4$ $S = 0.393 \text{ IN}^3$



TBD628PD - 1" GLASS



 $I = 0.290 \text{ IN}^4$ $S = 0.187 \text{ IN}^3$



TBD636PD - 1" GLASS

CURVE REPRESENTATION

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

B (——) = 1/4 PTS.