

GENERAL NOTES



HERD ALUMINUM INC.
SERVICE AS RELIABLE AS ALUMINUM

1770 ALSTEP DRIVE,
MISSISSAUGA, ONTARIO
L5S 1W1

WINDLOAD CHARTS

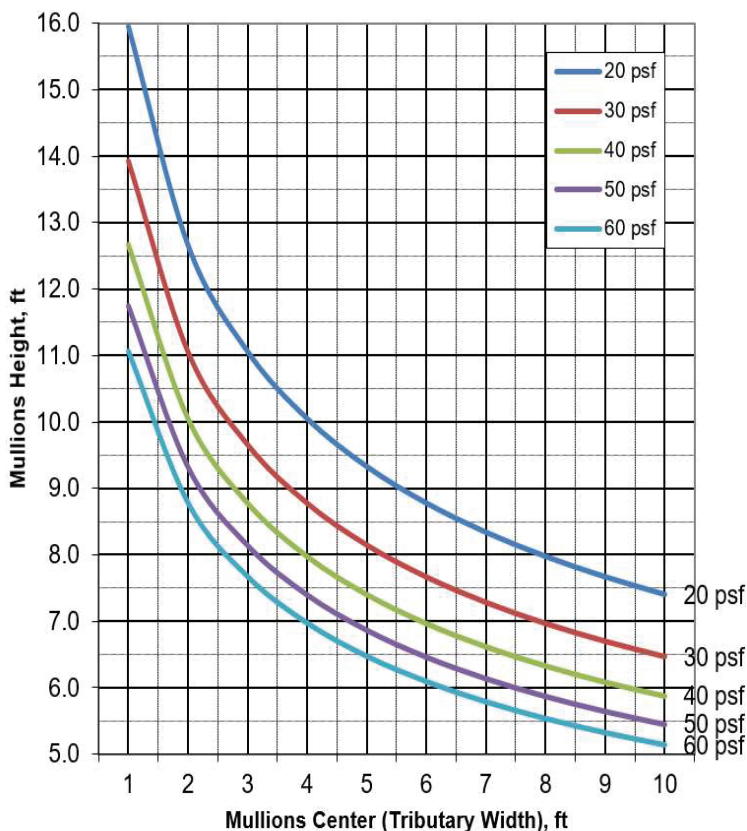
1. Deflection requirements comply with S157 -05/S157.1-05 and AAMA TIR-A11-2015. Deflection Limit - $L/175$.
(Note: to convert to $L/240 + 1/4$ " deflection limit when $H > 13.5$ ft., multiply mullion spacing by $k = 0.73 + 3.65/H$, where H – mullion height in ft.)
2. Mullion freely supported at ends.

**Charts are based on deflection analysis only and considered for estimation purposes only. Designer has to take necessary steps to make appropriate engineering calculations as per applicable Building Codes and regulations for complete design, i.e. stress, slenderness, local buckling.*

DEADLOAD CHARTS

1. Deflection requirements comply with S157 - 05/S157.1-05 and AAMA TIR-A11-2015. Deflection Limit - $1/8$ ".
2. Transom freely supported at ends with setting blocks at $1/4$ or $1/8$ of transom length.
3. Value of transom includes back section, thermal break and nosing.
4. All reinforcing shown in these charts considered that it is mechanically fastened to the aluminum extrusion. Fastening requirements to be reviewed and approved by Engineer.

WINDLOAD CHART



MULLION SECTION

WINDLOAD CHART 1 450010

SECTION PROPERTIES

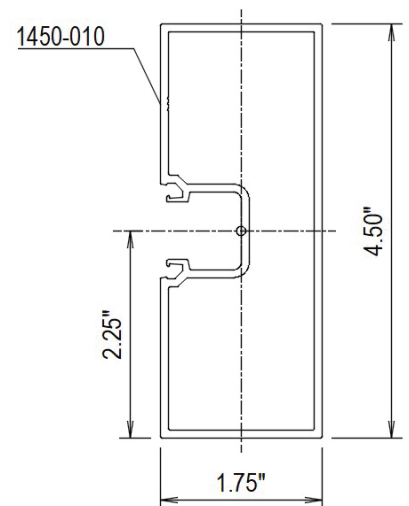
Mullion $I_x = 2.635 \text{ in}^4$
 $S_x = 1.171 \text{ in}^3$

MATERIAL PROPERTIES

Aluminum Modulus $E_a = 10,100,000 \text{ psi}$

Steel Modulus $E_s = 29,000,000 \text{ psi}$

6063-T6 Yield Strength $F_y = 21,000 \text{ psi}$



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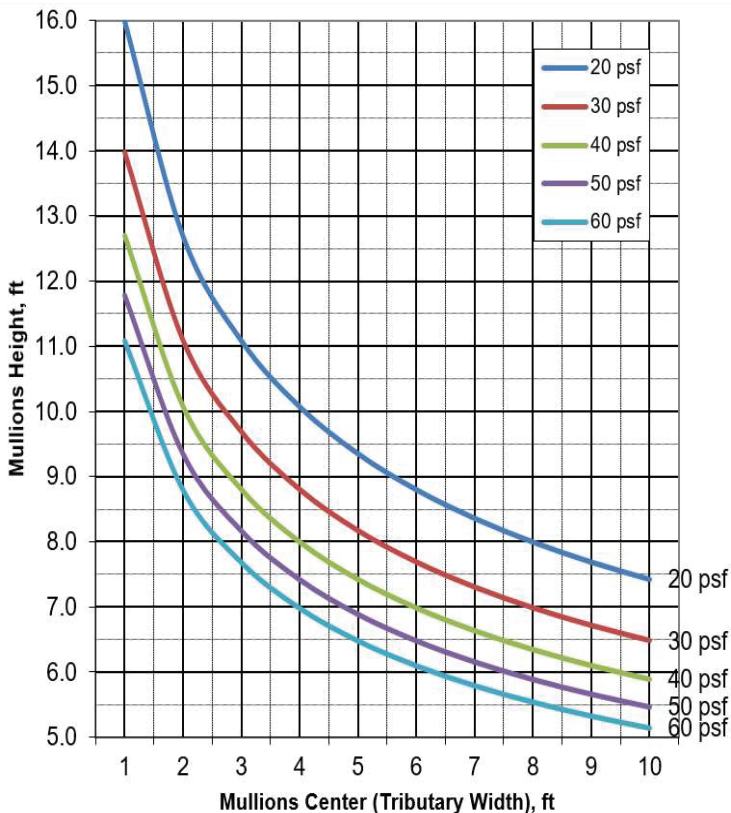
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WINDLOAD CHART



MULLION SECTION

WINDLOAD CHART 1

450010

SECTION PROPERTIES

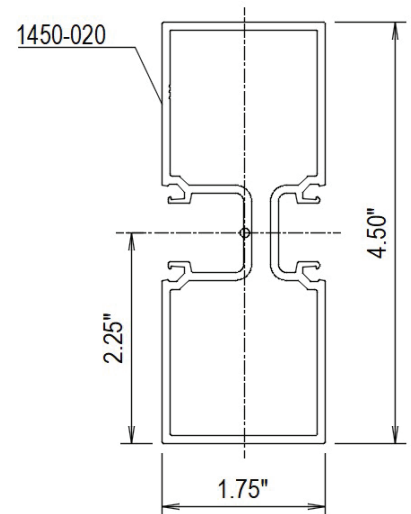
Mullion $I_x = 2.656 \text{ in}^4$
 $S_x = 1.180 \text{ in}^3$

MATERIAL PROPERTIES

Aluminum Modulus
 $E_a = 10,100,000 \text{ psi}$

Steel Modulus
 $E_s = 29,000,000 \text{ psi}$

6063-T6 Yield Strength
 $F_y = 21,000 \text{ psi}$



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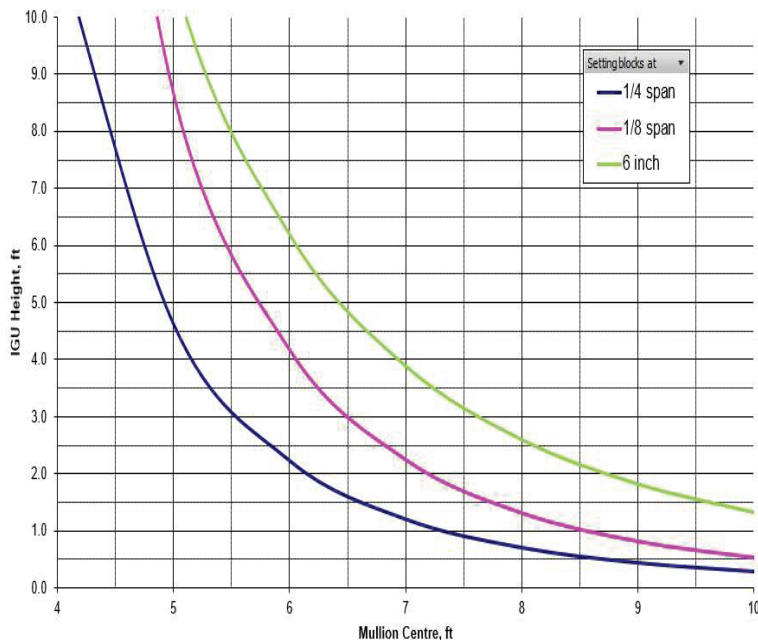
1. Deflection Limit: $L/175$ (Note: to convert to $L/240 + 1/4"$ deflection limit, multiply mullion spacings by 0.70. For example, if mullion can be spaced at 4 ft o.c., multiply by 0.7 = 2.80 ft spacing ok at $L/240 + 1/4"$)
2. Assume horizontal members (if any) provide lateral support for seismic loads
3. Value of mullion includes back section, thermal breaks and nosing
4. Steel reinforcing inertia value expressed in aluminum for total inertia value (i.e. steel value is factored up by ratio of steel / aluminum modulus values)

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WINDLOAD CHART



MULLION SECTION

WINDLOAD CHART 1 450010

PROFILE QUALITIES

MULLION:

$I_{xx} = 2.9990 \text{ in}^4$

ALUMINUM ALLOY:

$I_{xx} = \text{in}^4$

SECTION NUMBER:

6063-T6

MATERIAL PROPERTIES

ALUMINUM MODULES:

$E = 10,100,000 \text{ psi}$

STEEL MODULES:

$E = 29,000,000 \text{ psi}$

6063-T6 YIELD STRENGTH:

$F_y = 21,000 \text{ psi}$

