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 + ¼" deflection limit when H > 13.5 ft., multiply mullion spacing by k = 0.73 + 3.65/H, where H – mullion height in ft.)

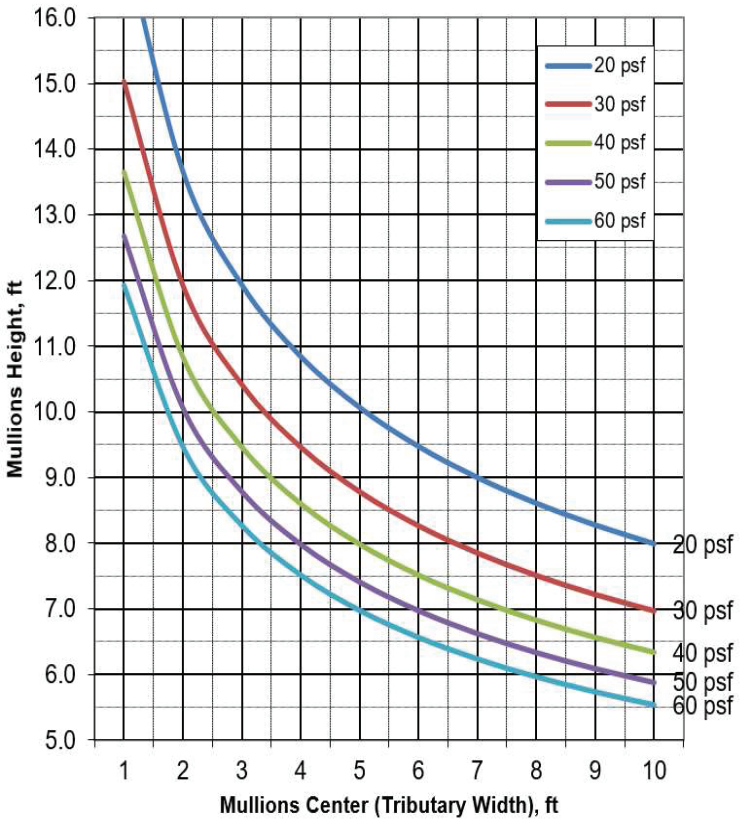
2. Mullion freely supported at ends.

**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 compelte 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
1451-010A Single Span

SECTION PROPERTIES

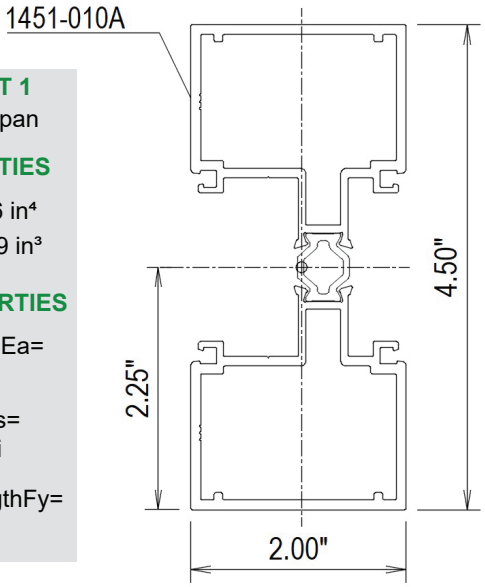
Mullion Ix = 3.306 in⁴
Sx = 1.469 in³

MATERIAL PROPERTIES

Aluminum ModulusEa= 10,100,000 psi

Steel ModulusEs= 29,000,000 psi

6063-T6 Yield StrengthFy= 21,000 psi



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1770 ALSTEP DRIVE,
MISSISSAUGA, ONTARIO
L5S 1W1

WINDLOAD CHARTS

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2. Transom freely supported at ends with setting blocks at 1/4 or 1/8 of transom length.
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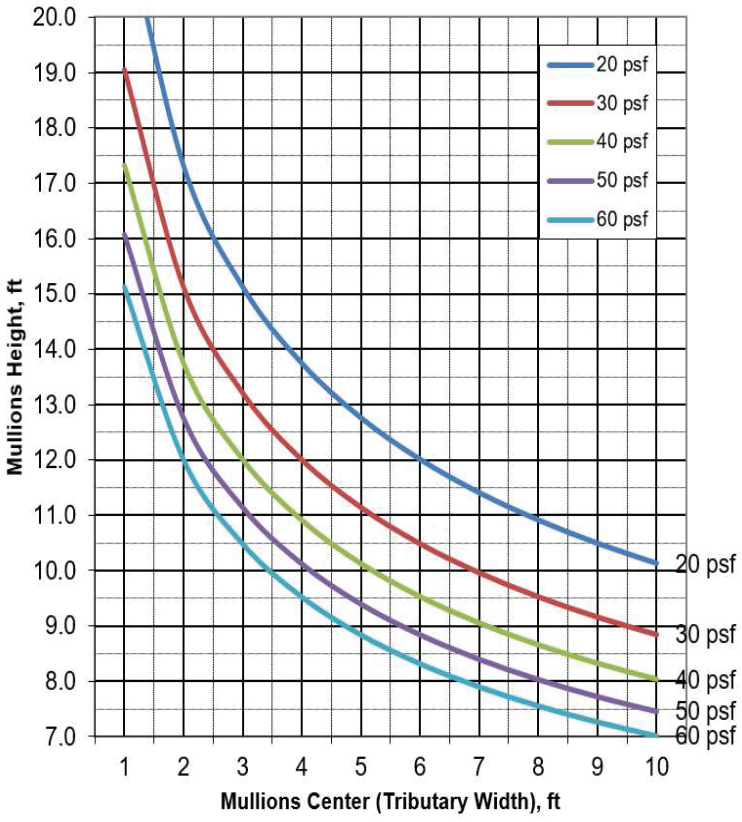
WINDLOAD CHART



MULLION SECTION

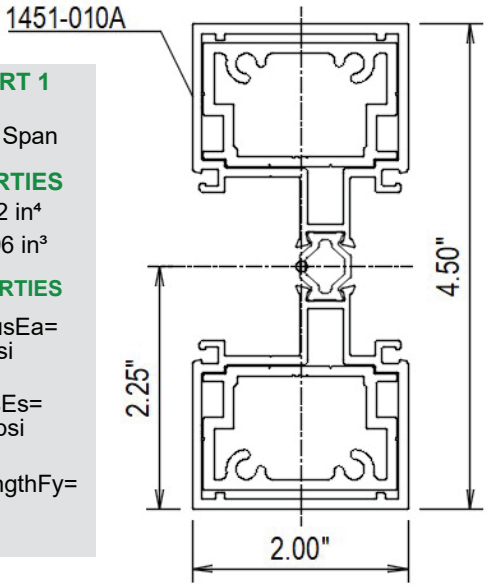
WINDLOAD CHART 1
1451-010A
Reinforced Single Span

SECTION PROPERTIES
Mullion Ix = 6.742 in⁴
Sx = 2.996 in³

MATERIAL PROPERTIES
Aluminum ModulusEa= 10,100,000 psi

Steel ModulusEs= 29,000,000 psi

6063-T6 Yield StrengthFy= 21,000 psi



GENERAL NOTES

HERD ALUMINUM INC.
SERVICE AS RELIABLE AS ALUMINUM

1770 ALSTEP DRIVE,
MISSISSAUGA, ONTARIO
L5S 1W1

WINDLOAD CHARTS

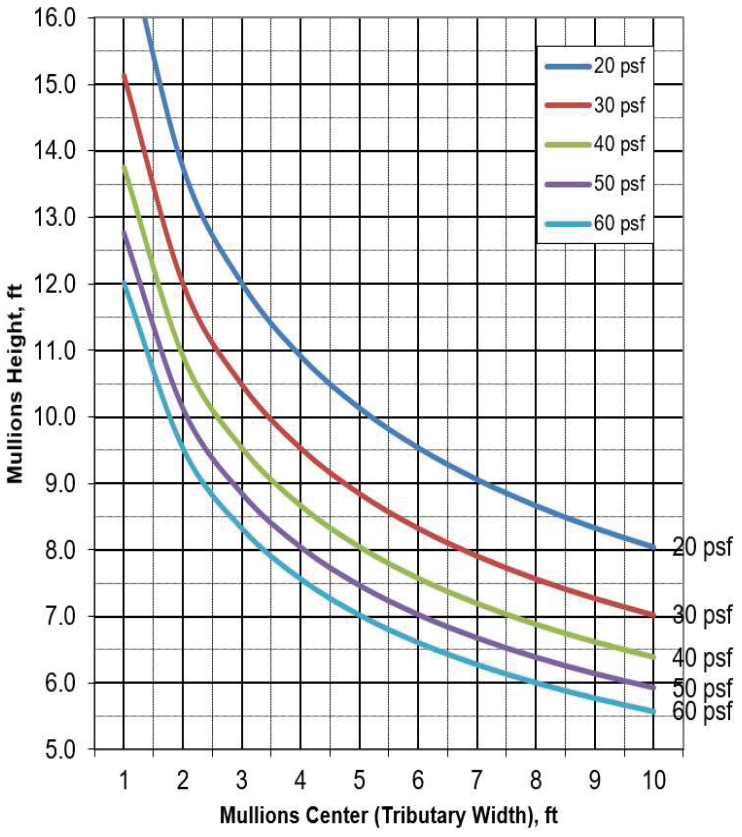
1. Deflection requirements comply with S157 -05/S157.1-05 and AAMA TIR-A11-2015. Deflection Limit - L/175. (Note: to convert to L/240 + ¼" deflection limit when H > 13.5 ft., multiply mullion spacing by k = 0.73 + 3.65/H,where H – mullion height in ft.)
2. Mullion freely supported at ends.

**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 compelte 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

1451-020A Single Span

SECTION PROPERTIES

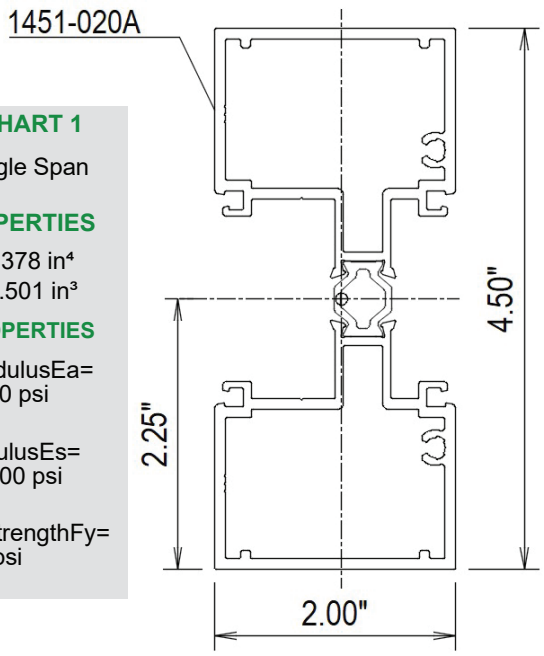
Mullion Ix = 3.378 in⁴
Sx = 1.501 in³

MATERIAL PROPERTIES

Aluminum ModulusEa= 10,100,000 psi

Steel ModulusEs= 29,000,000 psi

6063-T6 Yield StrengthFy= 21,000 psi



GENERAL NOTES

HERD ALUMINUM INC.
SERVICE AS RELIABLE AS ALUMINUM

1770 ALSTEP DRIVE,
MISSISSAUGA, ONTARIO
L5S 1W1

WINDLOAD CHARTS

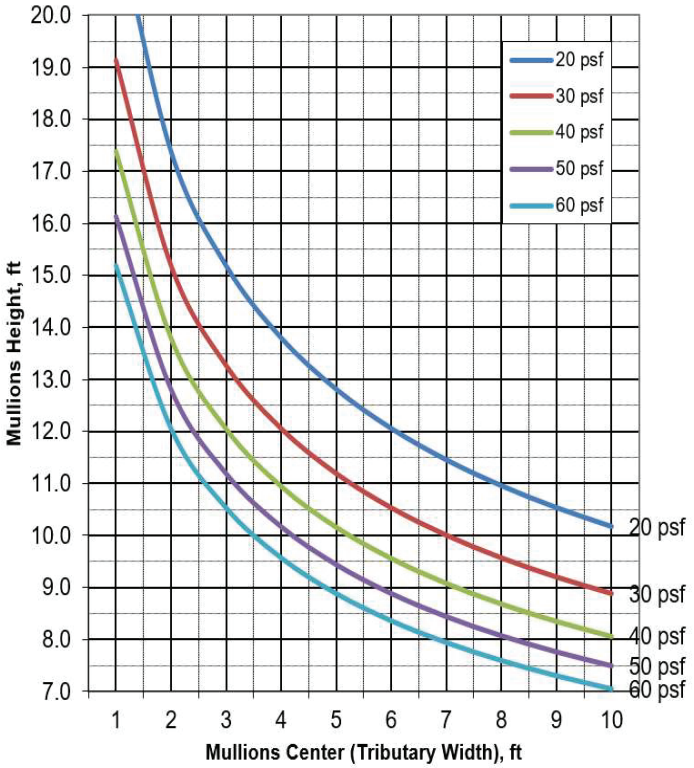
1. Deflection requirements comply with S157 -05/S157.1-05 and AAMA TIR-A11-2015. Deflection Limit - L/175. (Note: to convert to L/240 + ¼" deflection limit when H > 13.5 ft., multiply mullion spacing by k = 0.73 + 3.65/H, where H – mullion height in ft.)
2. Mullion freely supported at ends.
3. Reinforcing bars are to be mechanically fastened to the aluminum extrusion.

**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 compelte 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

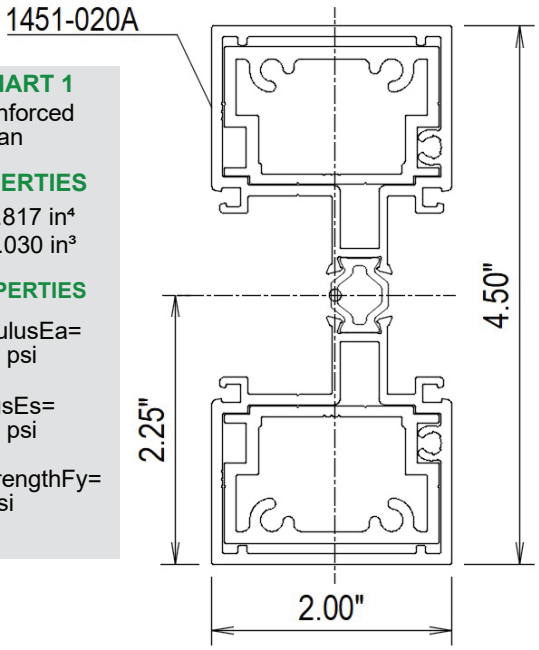
WINDLOAD CHART 1
1451-020A Reinforced
Single Span

SECTION PROPERTIES
Mullion Ix = 6.817 in⁴
Sx = 3.030 in³

MATERIAL PROPERTIES
Aluminum ModulusEa=
10,100,000 psi

Steel ModulusEs=
29,000,000 psi

6063-T6 Yield StrengthFy=
21,000 psi



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 - 1/8".
2. Transom freely supported at ends with setting blocks at 1/4 or 1/8 of transom length or 6".
3. Glass unit - 6 mm / 6 mm.

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DEADLOAD CHARTS

1. Deflection requirements comply with S157 - 05/S157.1-05 and AAMA TIR-A11-2015. Deflection Limit - 1/8".
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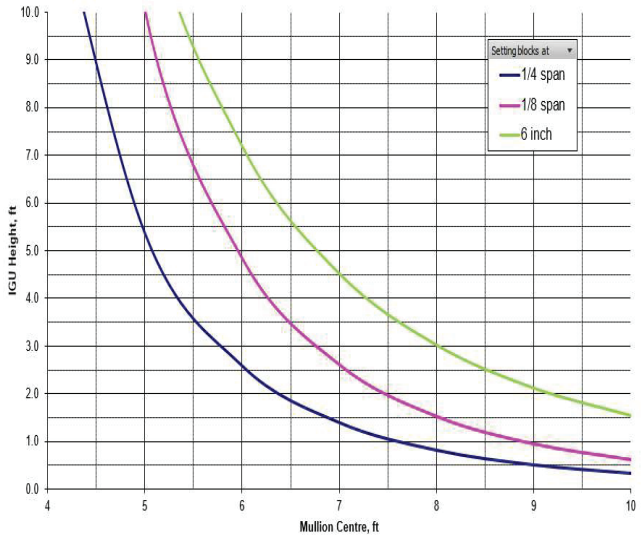

MULLION SECTION

WINDLOAD CHART 1
1451-030A Double Glazing

SECTION PROPERTIES
Mullion Ix = 0.410 in⁴
Sx = 0.336 in³

MATERIAL PROPERTIES
Aluminum ModulusEa= 10,100,000 psi

Steel ModulusEs= 29,000,000 psi

6063-T6 Yield StrengthFy= 21,000 psi