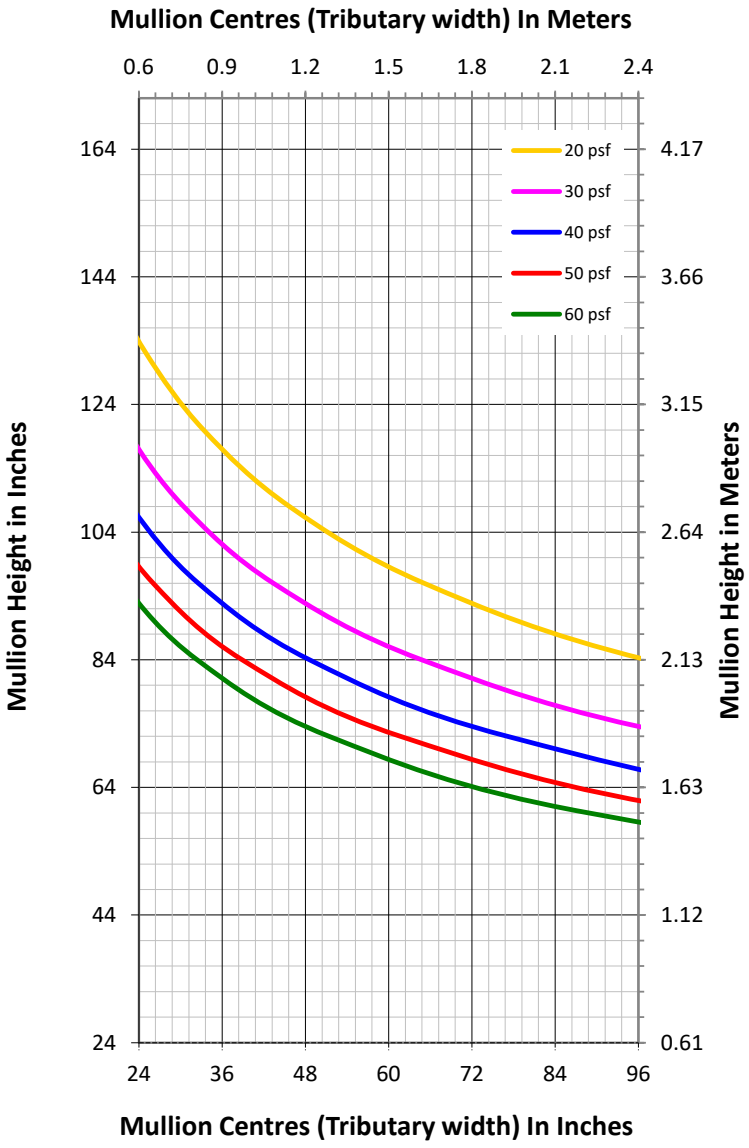
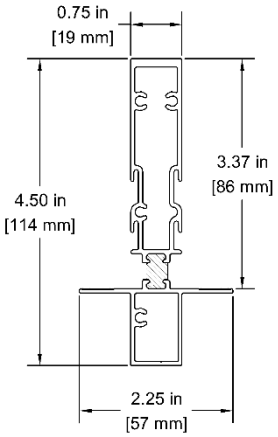
## SPAN CHART

**SPAN CHART IS FOR ESTIMATION ONLY.
DO NOT UTILIZE FOR DETAILED DESIGN.
CHART IS BASED ON DEFLECTION ANALYSIS ONLY**




## MULLION SECTION




## SYSTEM PROPERTIES

| Moment of Inertia, Section Modulus & Area | |
|---|---|
| Moment of Inertia, $I_{xx}$ | $I_{xx}$ = **1.82** in$^4$ |
| Section Modulus, $S_{xx}$ | $S_{xx}$ = **0.37** in$^3$ |
| Total Area | A = 0.95 in$^2$ |
| **Modulus of Elasticity** | |
| Aluminum | 10,000,000 PSI |
| Steel | 29,000,000 PSI |

## GENERAL NOTES

1. Deflection Limit: L/175 up to 13.5ft, L/240 + 0.25” over 13.5ft
2. Assume horizontal members provide lateral support
3. Steel moment of inertia converted to polyester, vinyl or aluminum equivalent
4. CANADIAN PROJECTS: Use SLS wind loads or modify the specified wind load by 0.75 before utilizing this chart. i.e. if project specifications require $p_{net}$ = 40 psf, utilize 30 psf on this chart (0.75 x 40 = 30). (Based on NBCC 2020).

**CLIENT:**

METRO ALUMINUM Products Ltd.

Head Office:
19045 - 24th Avenue
Surrey, B.C. V3Z 3S9
Tel. (604) 535-5316
www.metroaluminum.com

**SERIES:** 460T Series Strip Window

**DRAWING TITLE:** WIND LOAD CHART FOR 451T Mullion

**ENGINEERING BY:**

LAYTON CONSULTING LTD

Unit 233-18525 53rd Avenue, Surrey, BC, Canada, V3S 7A4
Tel: 604-530-6611 | Fax: 604-530-6101 www.laytonconsulting.com

| DRAWN BY: | CHK’D BY: | DATE: | DWG. NO: |
|---|---|---|---|
| JK | JS | 13-Nov-25 | 451T |

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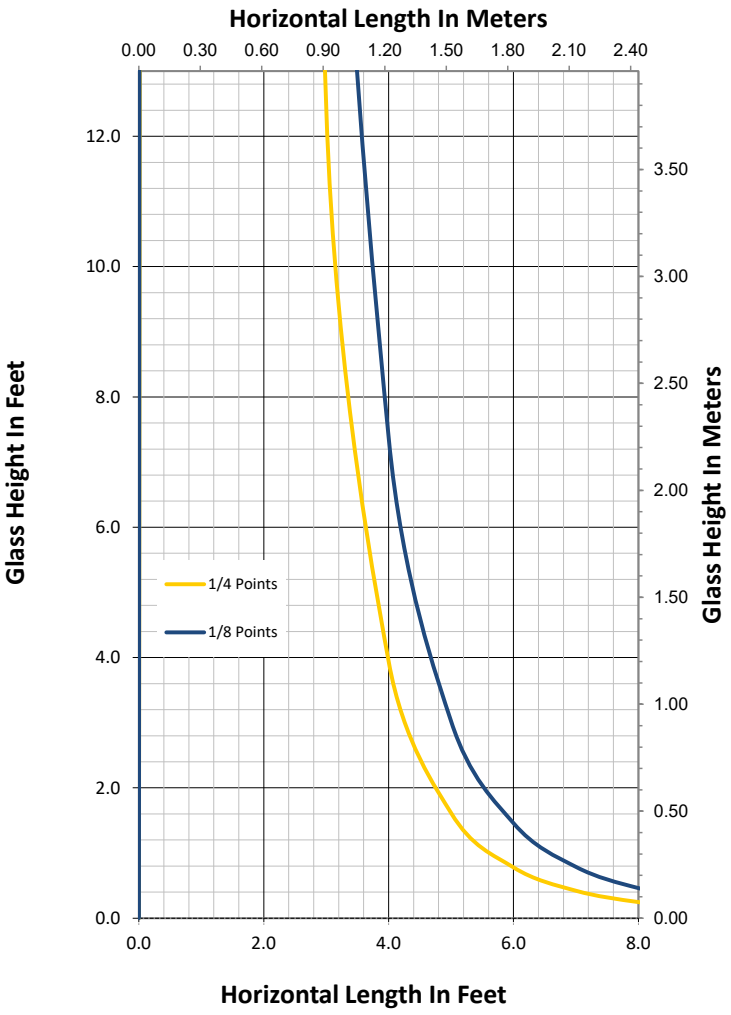


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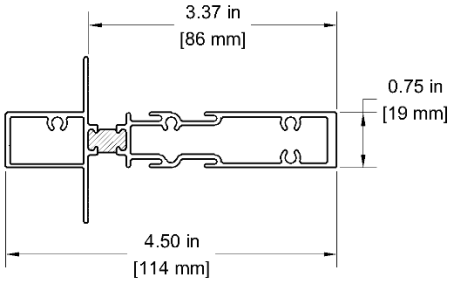


## SYSTEM PROPERTIES

| Moment of Inertia, Section Modulus & Area | |
|---|---|
| Moment of Inertia, $I_{yy}$ | $I_{yy}$ = **0.12** in$^4$ |
| Section Modulus, $S_{yy}$ | $S_{yy}$ = **0.13** in$^3$ |
| Total Area | A = 0.95 in$^2$ |
| **Modulus of Elasticity** | |
| Aluminum | 10,000,000 PSI |
| Steel | 29,000,000 PSI |

## GENERAL NOTES

1. Deflection Limit: 0.125” (3.2mm).
2. Charts are calculated assuming a 1” overall sealed unit (6mm/13mm spacer/6mm)
3. Calculations are based on the position of the setting blocks being placed at 1/4 or 1/8 points.

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**SERIES:**
460T Series Strip Window

**DRAWING TITLE:**
DEAD LOAD CHART FOR 451T Mullion

**ENGINEERING BY:**

LAYTON CONSULTING LTD

Unit 233-18525 53rd Avenue, Surrey, BC, Canada, V3S 7A4
Tel: 604-530-6611 | Fax: 604-530-6101 www.laytonconsulting.com

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