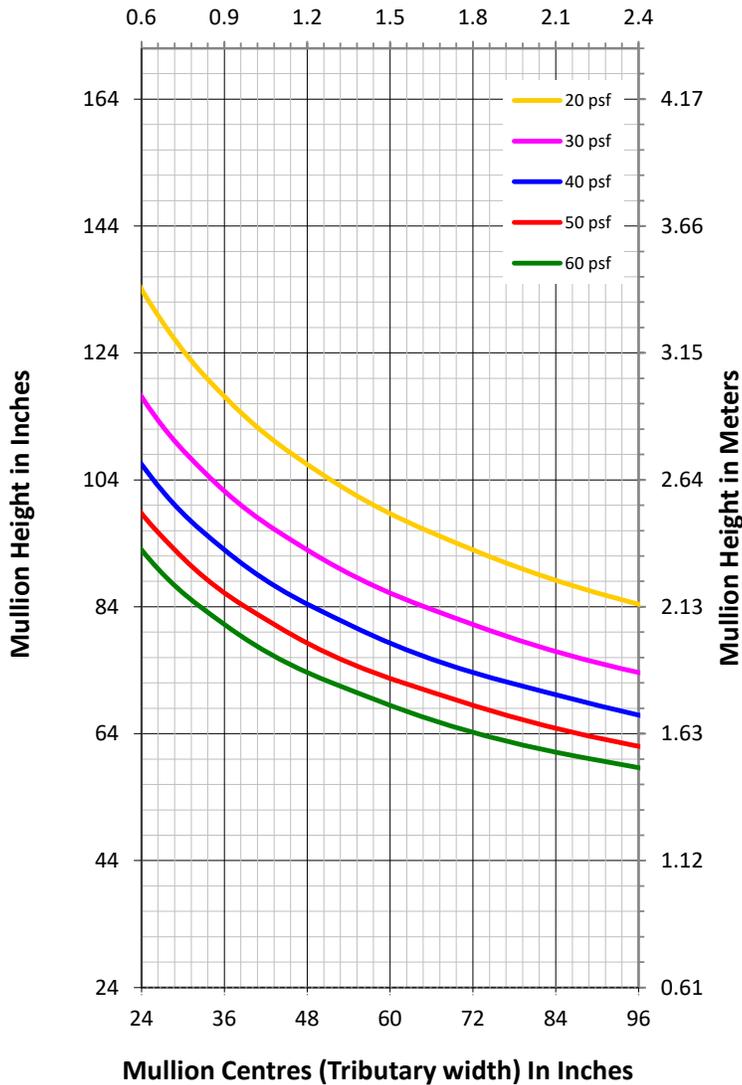


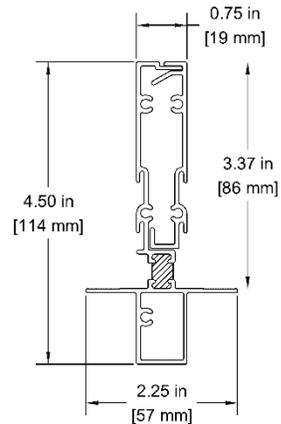
### SPAN CHART

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

**Mullion Centres (Tributary width) In Meters**



### MULLION SECTION



### SYSTEM PROPERTIES

#### Moment of Inertia, Section Modulus & Area

Moment of Inertia, $I_{xx}$	$I_{xx} = 1.83 \text{ in}^4$
Section Modulus, $S_{xx}$	$S_{xx} = 0.41 \text{ in}^3$
Total Area	$A = 2.22 \text{ in}^2$

#### 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  $p_{net} = 40 \text{ psf}$ , utilize 30 psf on this chart ( $0.75 \times 40 = 30$ ). (Based on NBCC 2020).

CLIENT:



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

SERIES:

**450T Series Strip Window**

DRAWING TITLE:

**WIND LOAD CHART FOR 452T/353 Mullion**

DRAWN BY:

**JK**

CHK'D BY:

**JS**

DATE:

**13-Nov-25**

ENGINEERING BY:



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

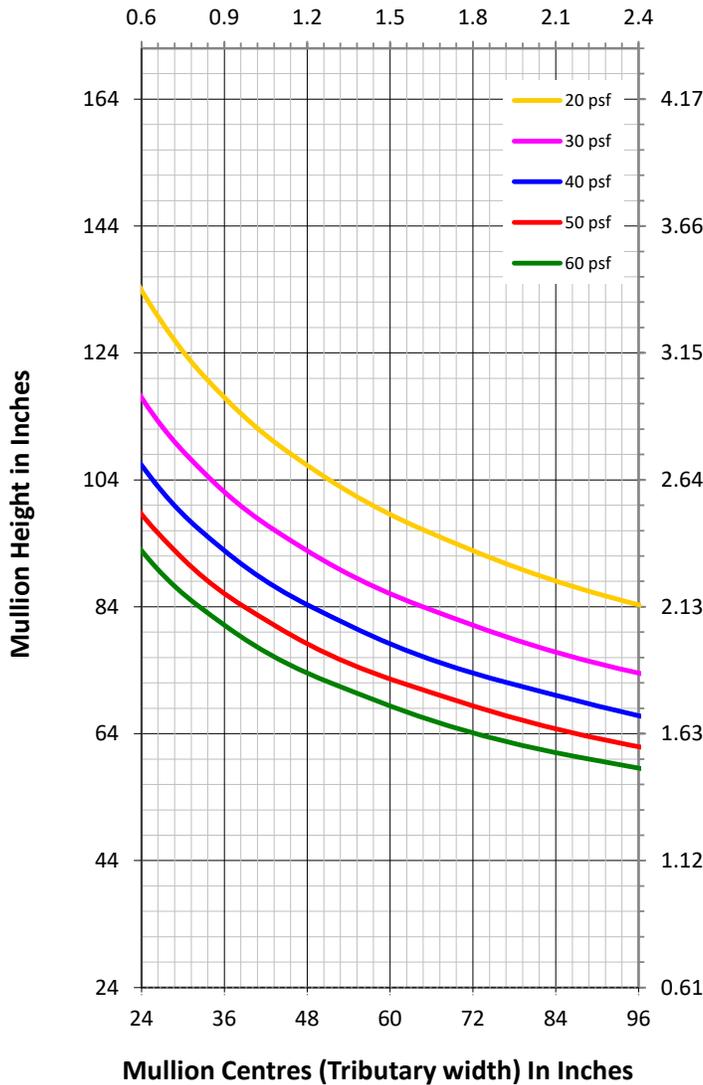
DWG. NO:

**452T/353**

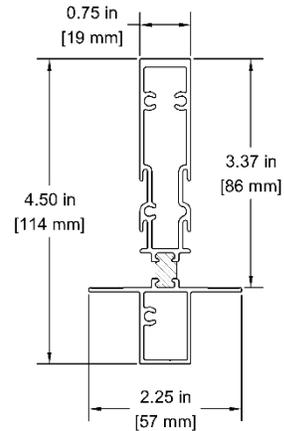
### SPAN CHART

**SPAN CHART IS FOR ESTIMATION ONLY.  
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CHART IS BASED ON DEFLECTION ANALYSIS  
ONLY**

**Mullion Centres (Tributary width) In Meters**



### MULLION SECTION



### SYSTEM PROPERTIES

#### Moment of Inertia, Section Modulus & Area

Moment of Inertia, $I_{xx}$	$I_{xx} = 1.82 \text{ in}^4$
Section Modulus, $S_{xx}$	$S_{xx} = 0.37 \text{ in}^3$
Total Area	$A = 0.95 \text{ in}^2$

#### 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  $p_{net} = 40 \text{ psf}$ , utilize 30 psf on this chart ( $0.75 \times 40 = 30$ ). (Based on NBCC 2020).

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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**

DRAWN BY:

**JK**

CHK'D BY:

**JS**

DATE:

**13-Nov-25**

ENGINEERING BY:



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

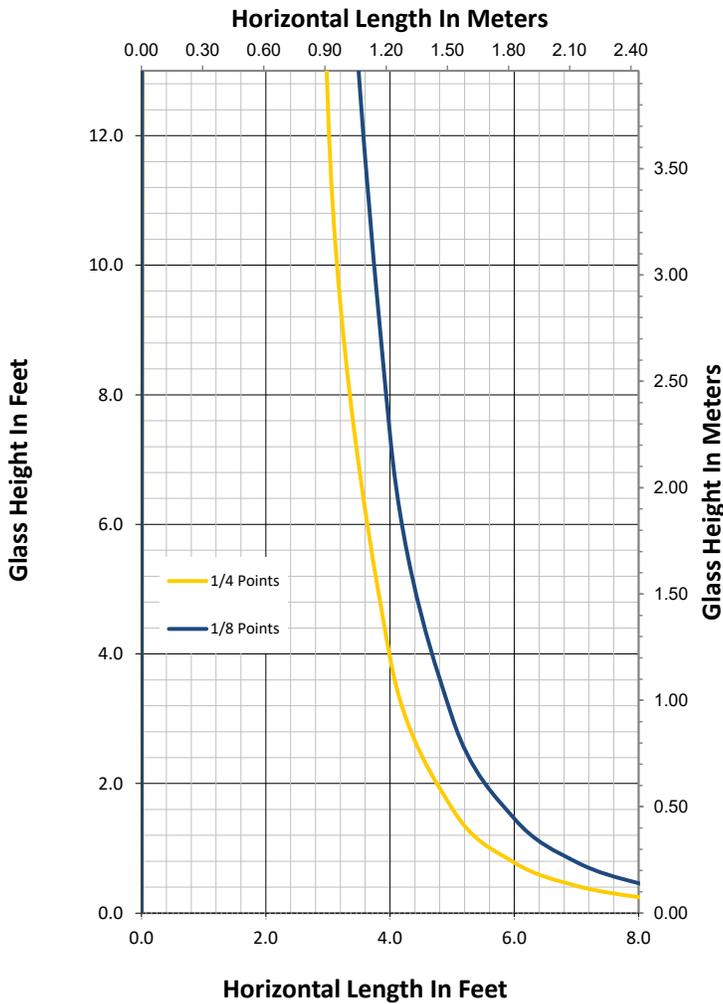
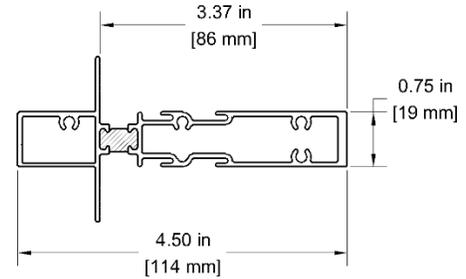
DWG. NO:

**451T**

**SPAN CHART**

**MULLION SECTION**

**SPAN CHART IS FOR ESTIMATION ONLY.  
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CHART IS BASED ON DEFLECTION ANALYSIS  
ONLY**



**SYSTEM PROPERTIES**

**Moment of Inertia, Section Modulus & Area**

Moment of Inertia, $I_{yy}$	$I_{yy} = 0.12 \text{ in}^4$
Section Modulus, $S_{yy}$	$S_{yy} = 0.13 \text{ in}^3$
Total Area	$A = 0.95 \text{ in}^2$

**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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www.metroaluminum.com

SERIES:

**450T Series Strip Window**

DRAWING TITLE:

**DEAD LOAD CHART FOR 451T Mullion**

DRAWN BY:

**JK**

CHK'D BY:

**JS**

DATE:

**13-Nov-25**

ENGINEERING BY:



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

DWG. NO:

**451T**