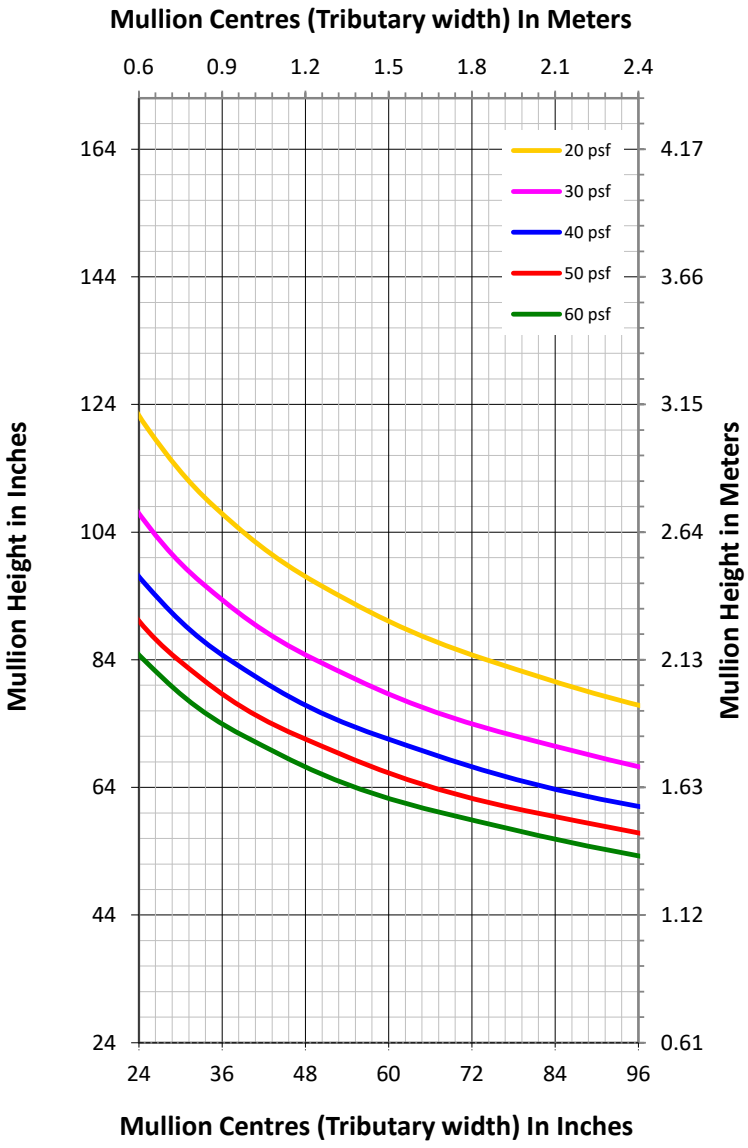
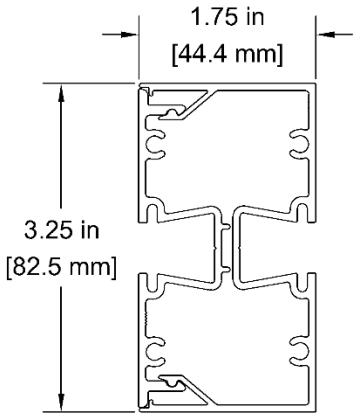
SPAN CHART

**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} = **1.39** in^4
Section Modulus, S_{xx}	S_{xx} = **0.81** in^3
Total Area	A = 1.22 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:

STOREFRONT 1300 SERIES

DRAWING TITLE:

WIND LOAD CHART FOR 1300/1301

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	1300/1301

SPAN CHART

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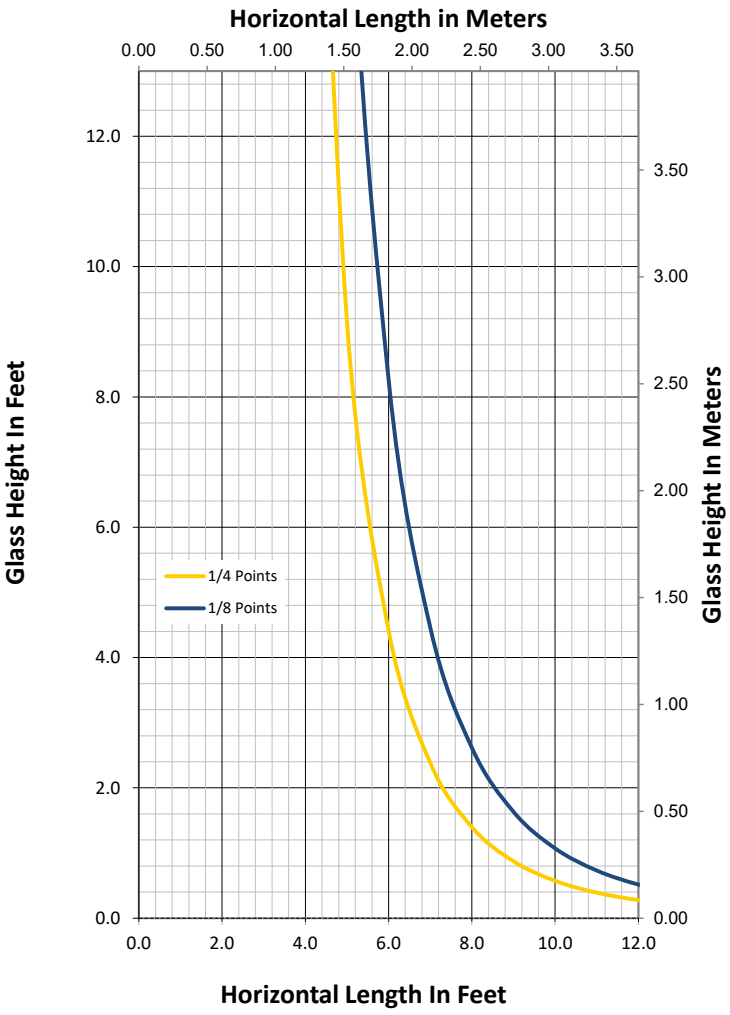
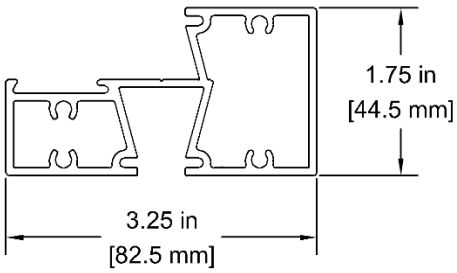


MULLION SECTION



SYSTEM PROPERTIES

Moment of Inertia, Section Modulus & Area	
Moment of Inertia, I_{yy}	I_{yy} = **0.34** in^4
Section Modulus, S_{yy}	S_{yy} = **0.33** in^3
Total Area	A = 1.05 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 6mm single pane glass.
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:
1300 SERIES STOREFRONT

DRAWING TITLE:
DEAD LOAD CHART FOR 1316 PROFILE

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	1316