

Specific Wind Load Graphs for a Single-Span SSG Mullion Under Trapezoidal Loading

The curves are based on the following criteria:

CANADA (Ontario Building Code 2012)

1. Units With Horizontals, please see maximum horizontal spacing adjacent to wind load

| | |
|-----|-------|
| lxx | 1.121 |
| Sxx | 0.737 |
| c | 1.521 |
| ry | 0.787 |

2. Allowable Stress: Aluminum: 15795 PSI 109 Mpa

Note: Local buckling is accounted for reducing yield stress from 170 Mpa x Φ

3. Modulus of Elasticity: Aluminum: 10100000 PSI

4. Allowable Deflection: L < 13.5 ft L/ 175
L > 13.5 ft 0.25 + L/ 240

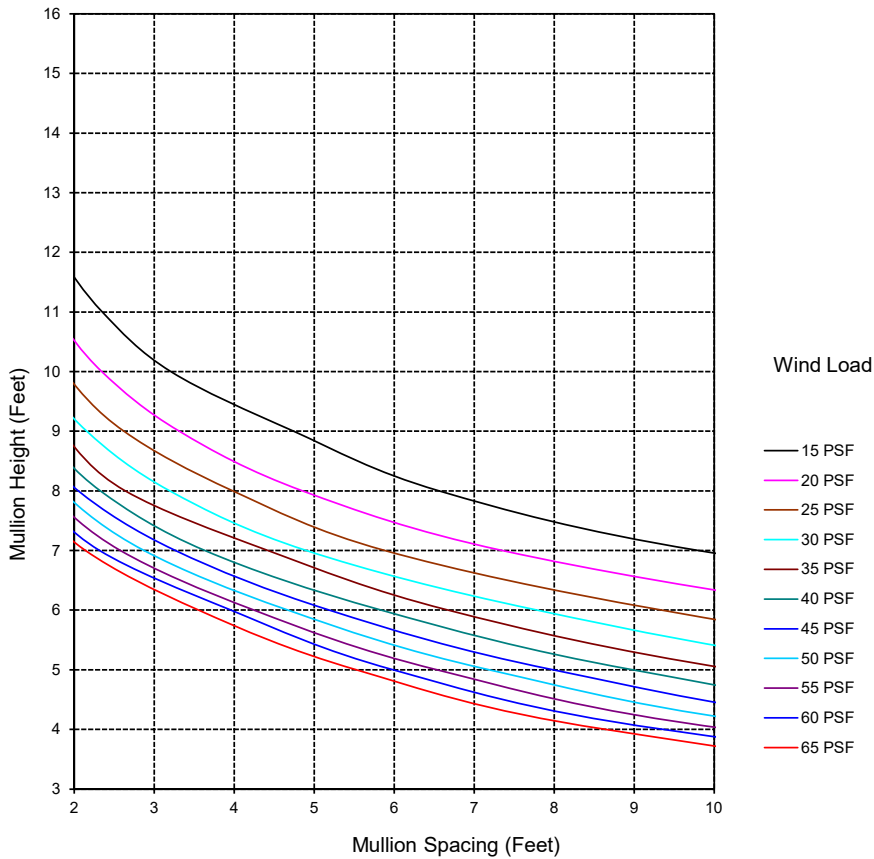
5. Maximum Deflection: 1.250 in

6. 6063-T6 Aluminum Alloys.

520006



2" x 2 7/8" (50.8mm x 73.0mm)
SSG Horizontal or Mullion



The chart may only be interpreted with the following conditions:

- For rectangular shaped windows simply supported. The longest span side is considered as mullion height here.
- Maximum horizontal spacing shown below is derived from taking into account lateral torsion buckling.

| Wind Load | 15 PSF | 25 PSF | 35 PSF | 45 PSF | 55 PSF | 65 PSF |
|----------------------------|--------|--------|--------|--------|--------|--------|
| Horiz. _{max} (in) | 0 | 0 | 71 | 67 | 65 | 63 |

Specific Wind Load Graphs for a Single-Span SSG Mullion Under Trapezoidal Loading

The curves are based on the following criteria:

CANADA (Ontario Building Code 2012)

1. Units With Horizontals, please see maximum horizontal spacing adjacent to wind load

2. Allowable Stress: Aluminum: **15319** PSI 106 Mpa
Note: Local buckling is accounted for reducing yield stress from 170 Mpa x Φ_y

3. Modulus of Elasticity: Aluminum: **10100000** PSI

4. Allowable Deflection: $L < 13.5$ ft $L/175$
 $L > 13.5$ ft $0.25 + L/240$

5. Maximum Deflection: **1.250** in

6. 6063-T6 Aluminum Alloys.

Ixx **2.507**

Sxx **1.132**

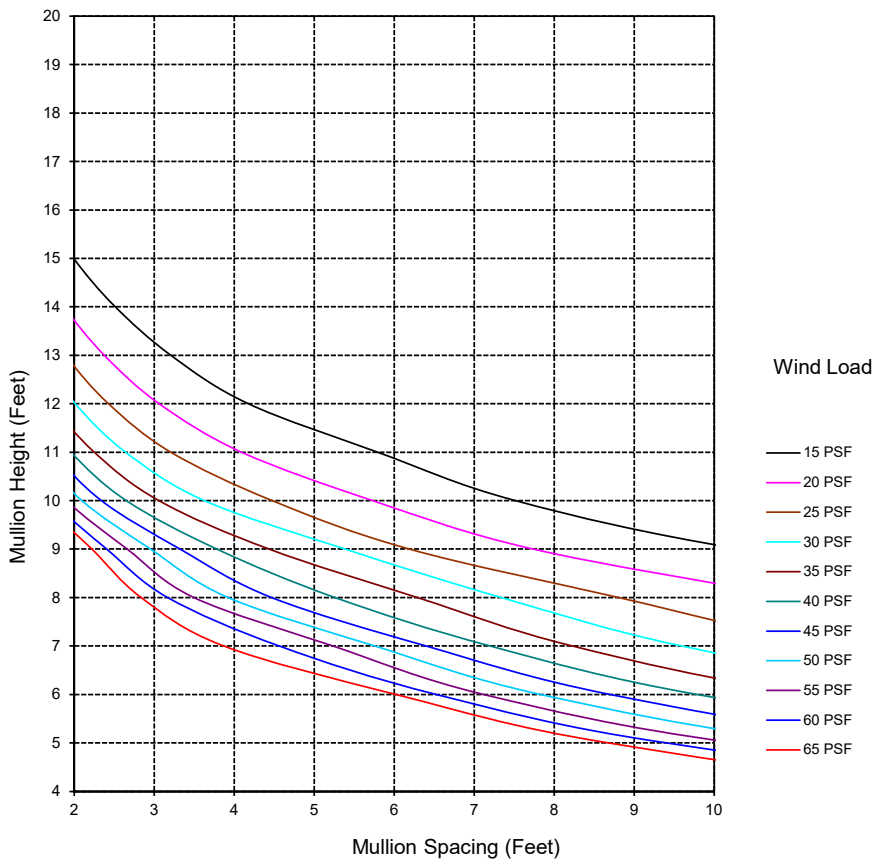
c **2.103**

ry **0.820**

520007



2" x 4" (50.8mm x 101.6mm)
SSG Horizontal or Mullion



The chart be may only interpreted with the following conditions:

1. For rectangular shaped windows simply supported. The longest span side is considered as mullion height here.

2. Maximum horizontal spacing shown below is derived from taking into account lateral torsion buckling.

| Wind Load | 15 PSF | 25 PSF | 35 PSF | 45 PSF | 55 PSF | 65 PSF |
|---------------------------|--------|--------|--------|--------|--------|--------|
| Horiz _{max} (in) | 0 | 0 | 79 | 76 | 73 | 70 |

Specific Wind Load Graphs for a Single-Span SSG Mullion Under Trapezoidal Loading

The curves are based on the following criteria:

CANADA (Ontario Building Code 2012)

1. Units With Horizontals, please see maximum horizontal spacing adjacent to wind load

I_{xx} 4.922

S_{xx} 1.795

c 2.742

r_y 0.844

2. Allowable Stress: Aluminum: 14648 PSI 101 Mpa

Note: Local buckling is accounted for reducing yield stress from 170 Mpa x Φ

3. Modulus of Elasticity: Aluminum: 10100000 PSI

520008

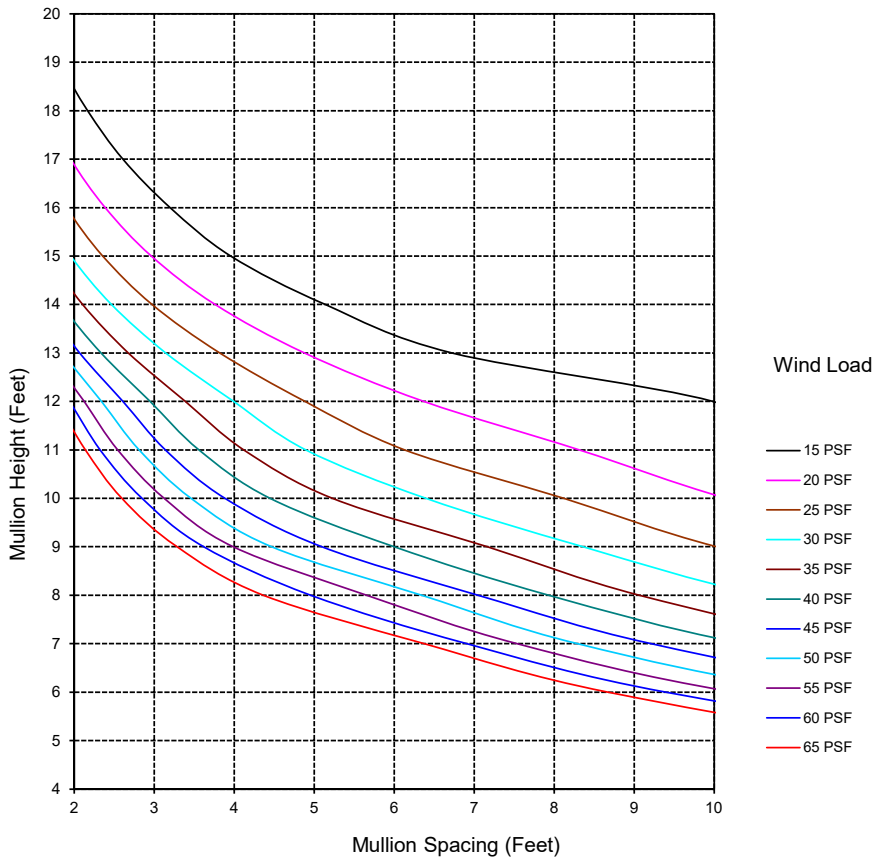
4. Allowable Deflection: $L < 13.5$ ft $L/175$
 $L > 13.5$ ft $0.25 + L/240$



5. Maximum Deflection: 1.250 in

6. 6063-T6 Aluminum Alloys.

2" x 5 1/4" (50.8mm x 133.4mm)
SSG Horizontal or Mullion



The chart may only be interpreted with the following conditions:

- For rectangular shaped windows simply supported. The longest span side is considered as mullion height here.
- Maximum horizontal spacing shown below is derived from taking into account lateral torsion buckling.

| Wind Load | 15 PSF | 25 PSF | 35 PSF | 45 PSF | 55 PSF | 65 PSF |
|----------------------------|--------|--------|--------|--------|--------|--------|
| Horiz. _{max} (in) | 0 | 0 | 87 | 83 | 80 | 77 |

Specific Wind Load Graphs for a Single-Span Double Glazed Mullion Under Trapezoidal Loading

The curves are based on the following criteria:

CANADA (Ontario Building Code 2012)

1. Units With Horizontals, please see maximum horizontal spacing adjacent to wind load

2. Allowable Stress: Aluminum: 15757 PSI 109 Mpa

Note: Local buckling is accounted for reducing yield stress from 170 Mpa x Φ

3. Modulus of Elasticity: Aluminum: 10100000 PSI

4. Allowable Deflection: L < 13.5 ft L/ 175
L > 13.5 ft 0.25 + L/ 240

5. Maximum Deflection: 1.250 in

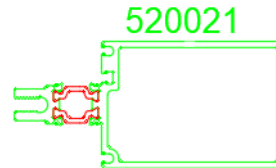
6. 6063-T6 Aluminum Alloys.

Ixx 2.257

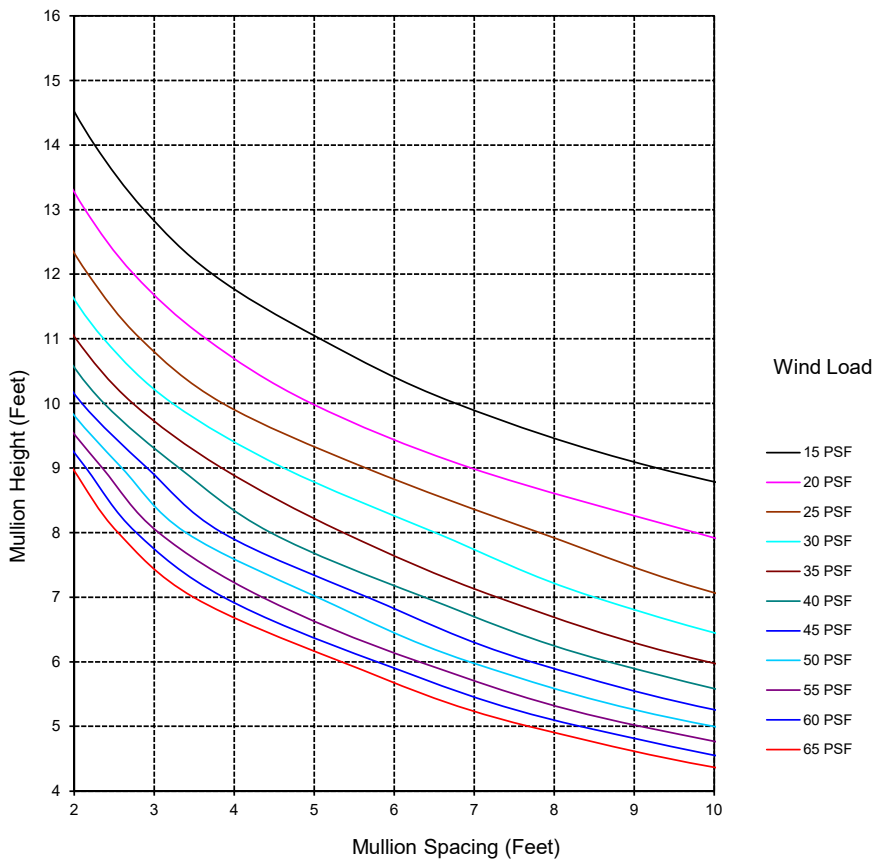
Sxx 1.028

c 2.196

ry 0.699



2" x 2 7/8" (50.8mm x 73.0mm)
Double Glazed Horizontal or Mullion



The chart be may only interpreted with the following conditions:

1. For rectangular shaped windows simply supported. The longest span side is considered as mullion height here.

2. Maximum horizontal spacing shown below is derived from taking into account lateral torsion buckling.

| Wind Load | 15 PSF | 25 PSF | 35 PSF | 45 PSF | 55 PSF | 65 PSF |
|---------------------------|--------|--------|--------|--------|--------|--------|
| Horiz _{max} (in) | 0 | 0 | 72 | 69 | 66 | 64 |

Specific Wind Load Graphs for a Single-Span Double Glazed Mullion Under Trapezoidal Loading

The curves are based on the following criteria:

CANADA (Ontario Building Code 2012)

1. Units With Horizontals, please see maximum horizontal spacing adjacent to wind load

2. Allowable Stress: Aluminum: **15515** PSI 107 Mpa

Note: Local buckling is accounted for reducing yield stress from 170 Mpa x Φ

3. Modulus of Elasticity: Aluminum: **10100000** PSI

4. Allowable Deflection: $L < 13.5$ ft $L/175$
 $L > 13.5$ ft $0.25 + L/240$

5. Maximum Deflection: **1.250** in

6. 6063-T6 Aluminum Alloys.

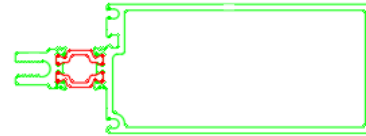
I_{xx} 4.348

S_{xx} 1.610

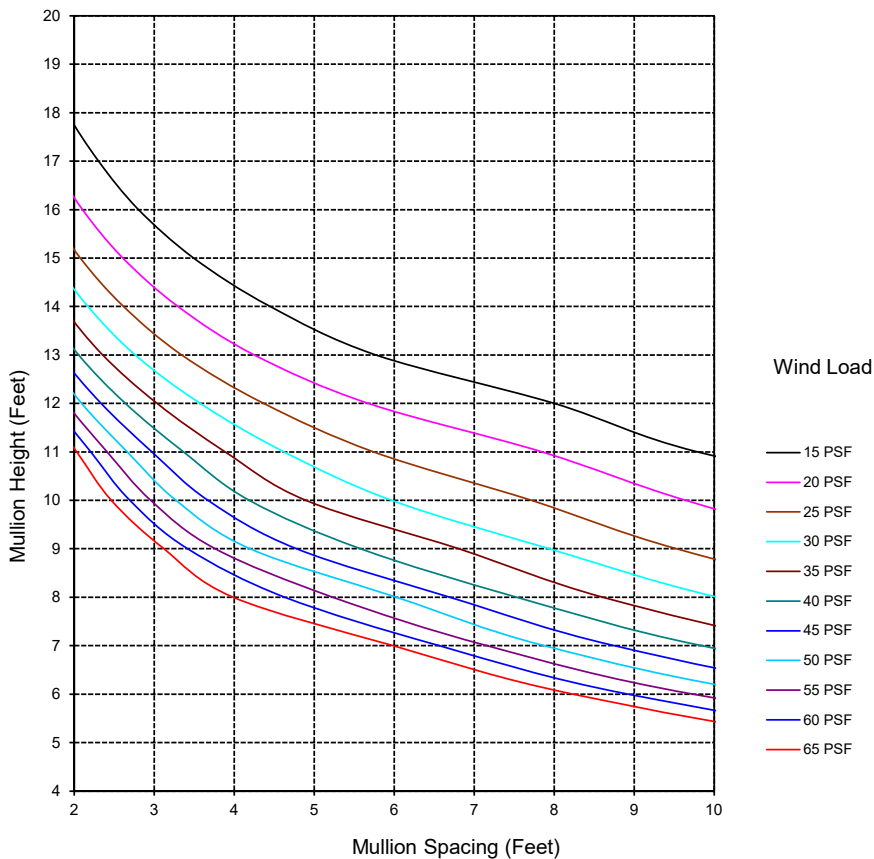
c 2.701

r_y 0.741

520022



2" x 4" (50.8mm x 101.6mm)
Double Glazed Horizontal or Mullion



The chart be may only interpreted with the following conditions:

1. For rectangular shaped windows simply supported. The longest span side is considered as mullion height here.

2. Maximum horizontal spacing shown below is derived from taking into account lateral torsion buckling.

| Wind Load | 15 PSF | 25 PSF | 35 PSF | 45 PSF | 55 PSF | 65 PSF |
|----------------------------|--------|--------|--------|--------|--------|--------|
| Horiz. _{max} (in) | 0 | 0 | 81 | 77 | 74 | 72 |

Specific Wind Load Graphs for a Single-Span Double Glazed Mullion Under Trapezoidal Loading

The curves are based on the following criteria:

CANADA (Ontario Building Code 2012)

1. Units With Horizontals, please see maximum horizontal spacing adjacent to wind load

I_{xx} 7.776

S_{xx} 2.322

c 3.348

r_y 0.773

2. Allowable Stress: Aluminum: 14900 PSI 103 Mpa

Note: Local buckling is accounted for reducing yield stress from 170 Mpa x Φ

3. Modulus of Elasticity: Aluminum: 10100000 PSI

520023

4. Allowable Deflection: L < 13.5 ft L/ 175
L > 13.5 ft 0.25 + L/ 240

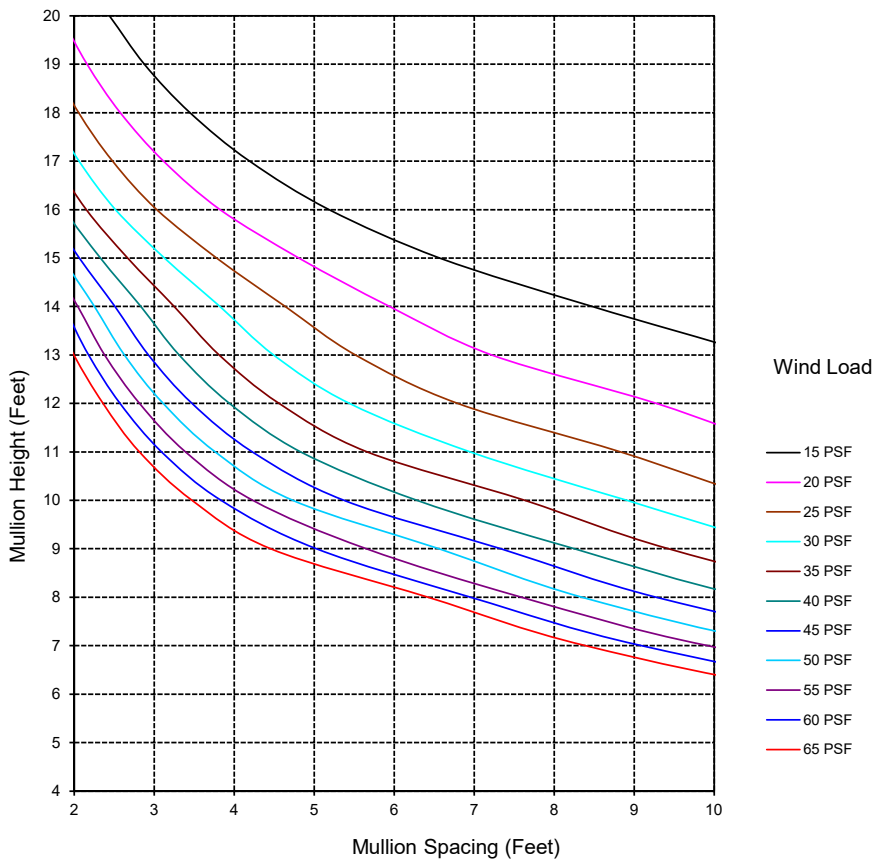


2" x 5 1/4" (50.8mm x 133.4mm)

Double Glazed Horizontal or Mullion

5. Maximum Deflection: 1.250 in

6. 6063-T6 Aluminum Alloys.



The chart be may only interpreted with the following conditions:

1. For rectangular shaped windows simply supported. The longest span side is considered as mullion height here.

2. Maximum horizontal spacing shown below is derived from taking into account lateral torsion buckling.

| Wind Load | 15 PSF | 25 PSF | 35 PSF | 45 PSF | 55 PSF | 65 PSF |
|----------------------------|--------|--------|--------|--------|--------|--------|
| Horiz. _{max} (in) | 0 | 0 | 89 | 84 | 81 | 78 |

Specific Wind Load Graphs for a Single-Span Triple Glazed Mullion Under Trapezoidal Loading

The curves are based on the following criteria:

CANADA (Ontario Building Code 2012)

1. Units With Horizontals, please see maximum horizontal spacing adjacent to wind load

2. Allowable Stress: Aluminum: **15571** PSI 107 Mpa
 Note: Local buckling is accounted for reducing yield stress from 170 Mpa x Φ

3. Modulus of Elasticity: Aluminum: **10100000** PSI

4. Allowable Deflection: $L < 13.5$ ft $L/175$
 $L > 13.5$ ft $0.25 + L/240$

5. Maximum Deflection: **1.250** in

6. 6063-T6 Aluminum Alloys.

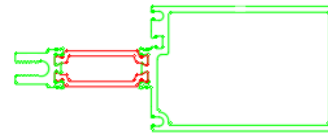
I_{xx} 3.038

S_{xx} 1.031

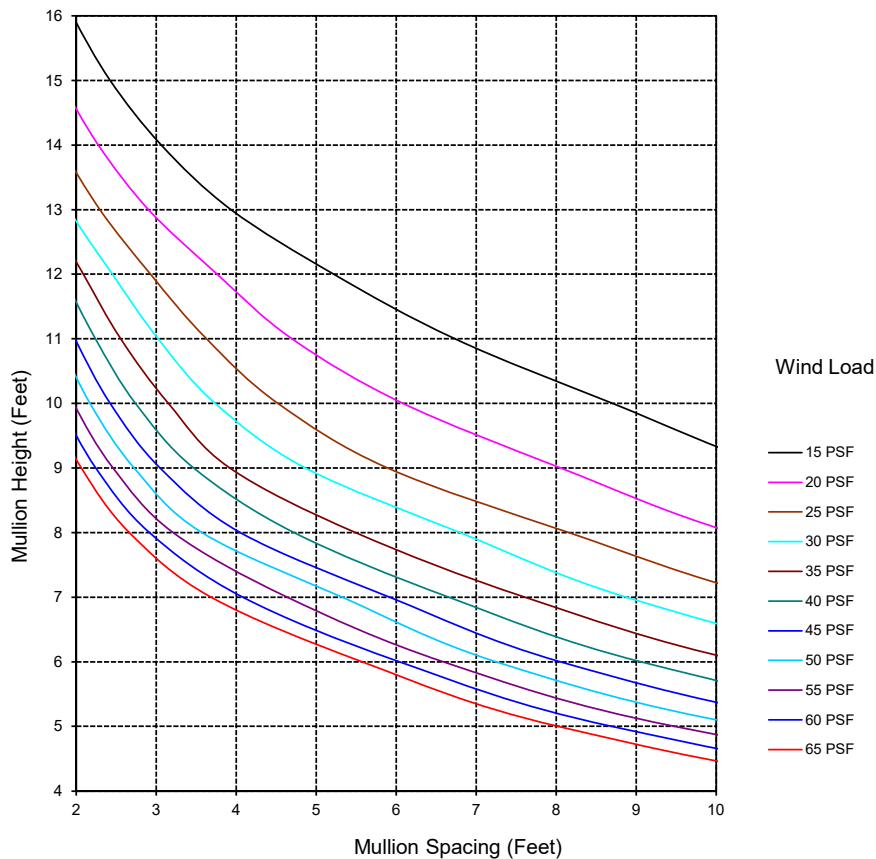
c 2.798

r_y 0.699

520031



2" x 2 7/8" (50.8mm x 73.0mm)
Triple Glazed Horizontal or Mullion



The chart may only be interpreted with the following conditions:

- For rectangular shaped windows simply supported. The longest span side is considered as mullion height here.
- Maximum horizontal spacing shown below is derived from taking into account lateral torsion buckling.

| Wind Load | 15 PSF | 25 PSF | 35 PSF | 45 PSF | 55 PSF | 65 PSF |
|----------------------------|--------|--------|--------|--------|--------|--------|
| Horiz. _{max} (in) | 0 | 0 | 73 | 70 | 67 | 65 |

Specific Wind Load Graphs for a Single-Span Triple Glazed Mullion Under Trapezoidal Loading

The curves are based on the following criteria:

CANADA (Ontario Building Code 2012)

1. Units With Horizontals, please see maximum horizontal spacing adjacent to wind load

2. Allowable Stress: Aluminum: 15338 PSI 106 Mpa

Note: Local buckling is accounted for reducing yield stress from 170 Mpa x Φ

3. Modulus of Elasticity: Aluminum: 10100000 PSI

4. Allowable Deflection: $L < 13.5 \text{ ft}$ $L/175$
 $L > 13.5 \text{ ft}$ $0.25 + L/240$

5. Maximum Deflection: 1.250 in

6. 6063-T6 Aluminum Alloys.

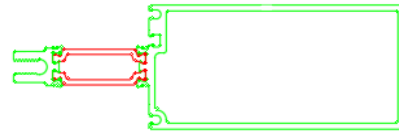
I_{xx} 5.320

S_{xx} 1.601

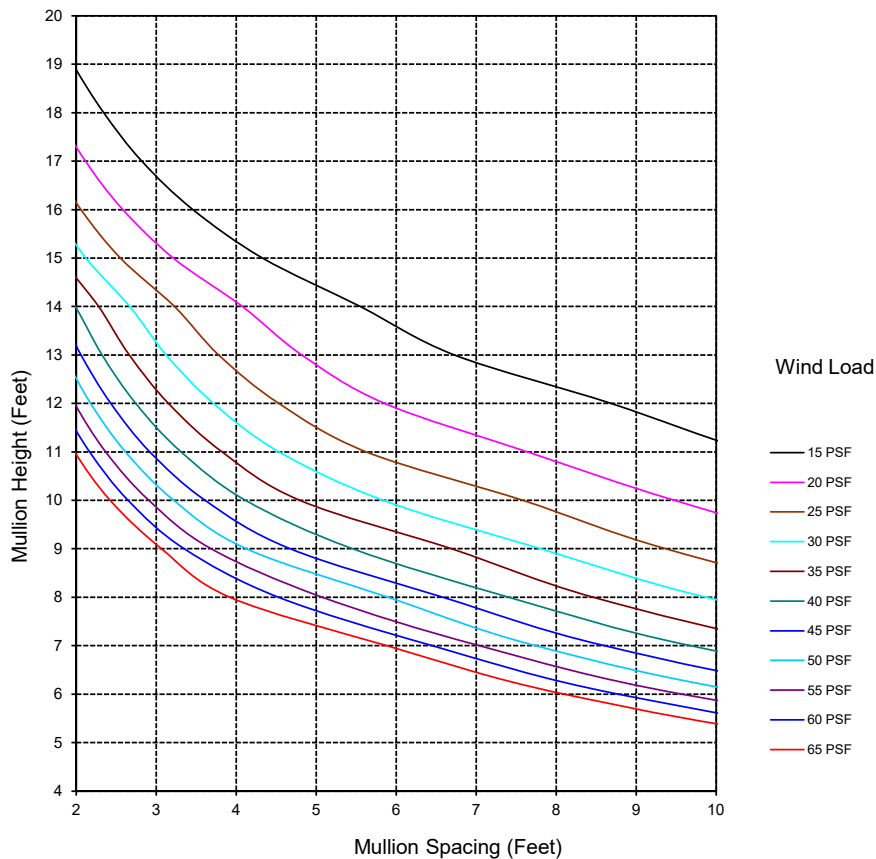
c 3.323

r_y 0.741

520032



2" x 4" (50.8mm x 101.6mm)
Triple Glazed Horizontal or Mullion



The chart may only be interpreted with the following conditions:

1. For rectangular shaped windows simply supported. The longest span side is considered as mullion height here.

2. Maximum horizontal spacing shown below is derived from taking into account lateral torsion buckling.

| Wind Load | 15 PSF | 25 PSF | 35 PSF | 45 PSF | 55 PSF | 65 PSF |
|----------------------------|--------|--------|--------|--------|--------|--------|
| Horiz. _{max} (in) | 0 | 0 | 81 | 77 | 74 | 71 |

