ALBENestra®

# Performance Casement Window

## SCW03

Designed and tested according to MS832

LB ALUMINIUM BERHAD
198501006093 (138535-V)

ALBENestra®

# PERFORMANCE CASEMENT WINDOW SCW03

## Product

ALBENestra SCW03

## Typical Technical Features

| | | |
|---|---|---|
| Nominal Wall Thickness | : | 1.35mm |
| Standard Frame Depth | : | 35.00mm |
| Mullion Depth | : | 35.00mm, 60.00mm, 80.00mm & 100.00mm |
| Glazing Gap | : | 12.00mm |
| Locking System | : | Single-point & Multipoint |
| Surface Finish | : | Overlap |
| Hinges | : | Friction Stay |
| Corner Joints | : | Mitre Joints With Brackets (Inner) |

## Performance Test

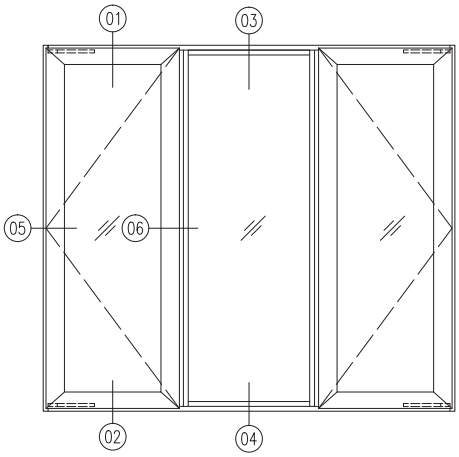
This casement window suite had been tested in compliance to MS 832:2022 performance test procedure for:

| | | |
|---|---|---|
| 1. 1500Pa windload | : | Passed |
| 2. 300Pa air leakage | : | Passed |
| 3. 450Pa water infiltration | : | Passed |

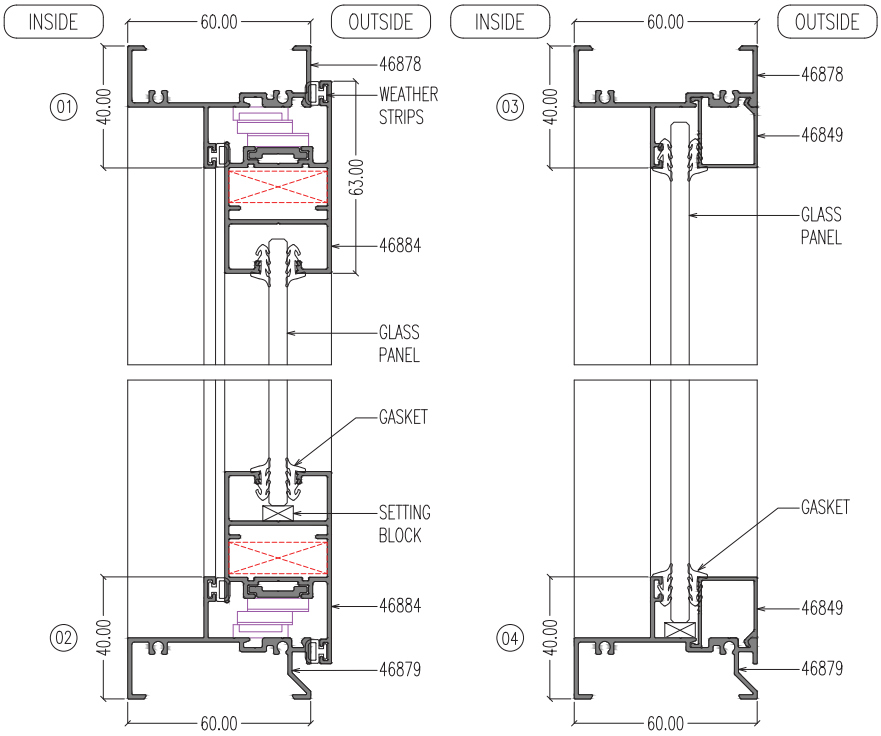
*Note: Test report available upon request.*

# PERFORMANCE CASEMENT WINDOW
# SCW03

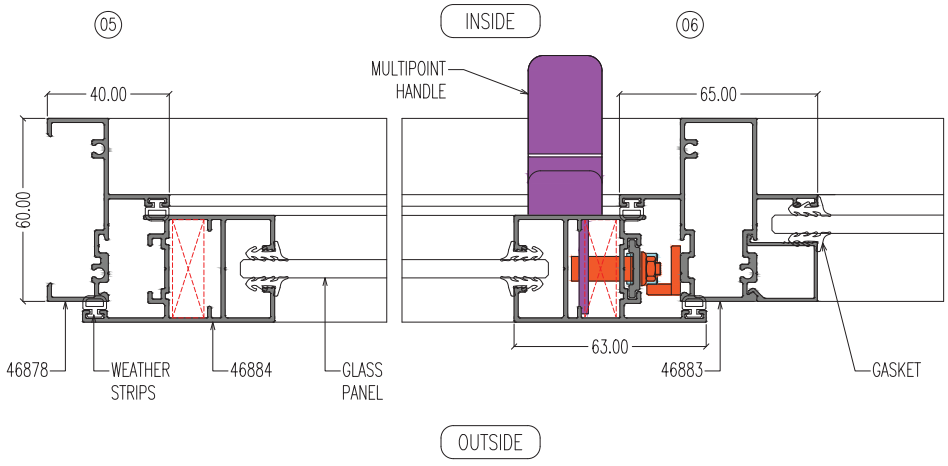
## Typical Assembly Details




ELEVATION



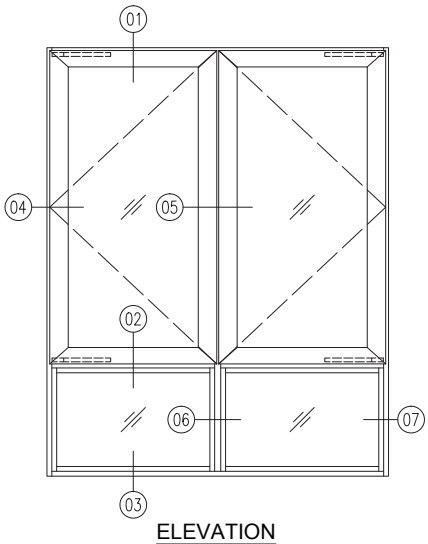

VERTICAL SECTIONS



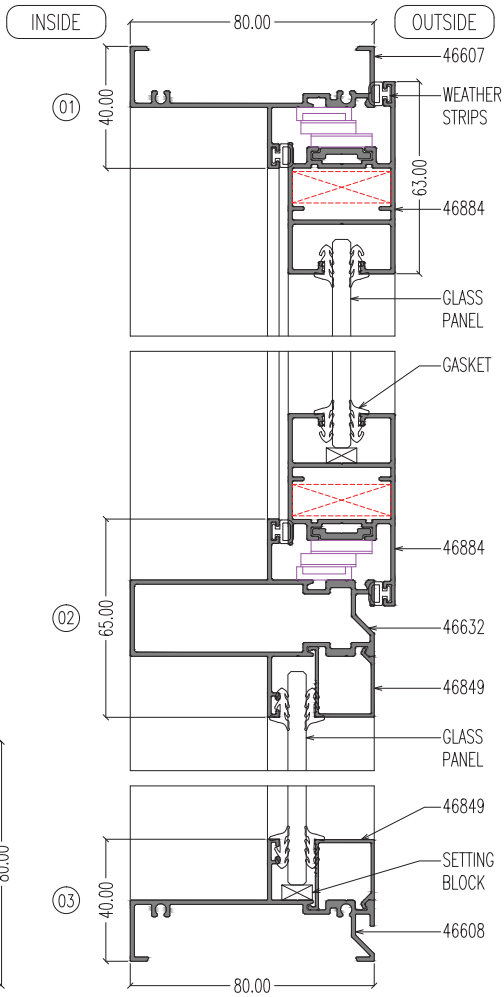

HORIZONTAL SECTIONS

# PERFORMANCE CASEMENT WINDOW
# SCW03

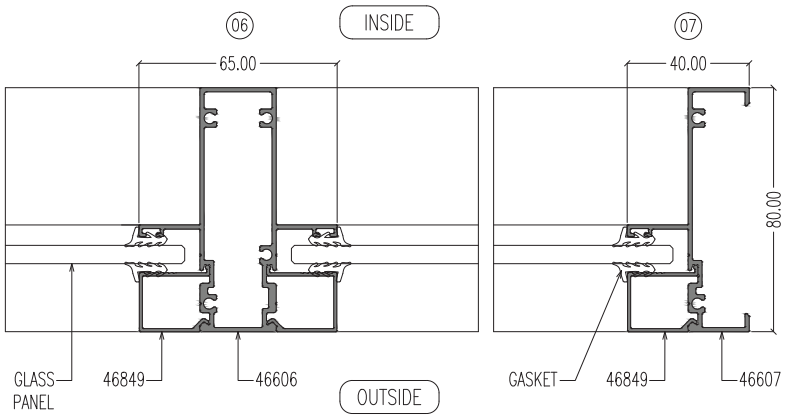
## Typical Assembly Details

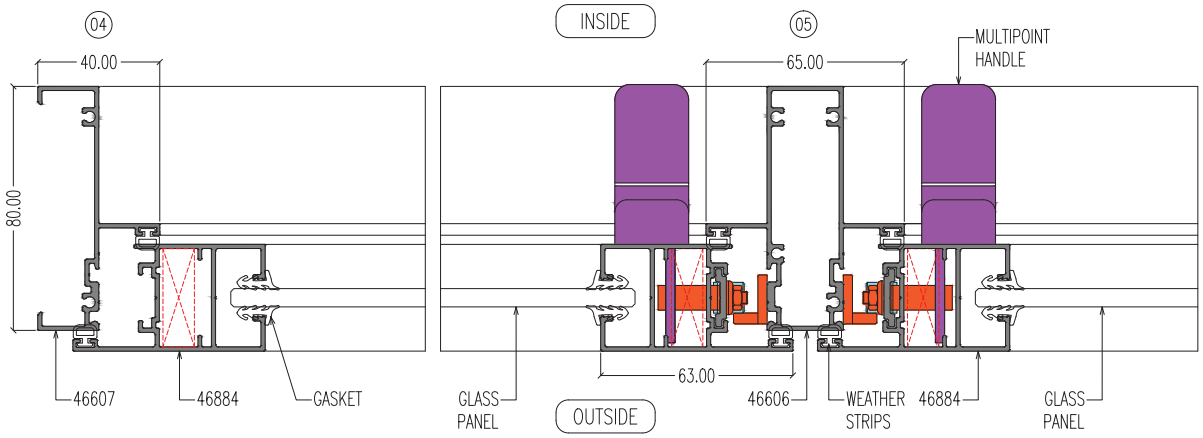



ELEVATION




VERTICAL SECTIONS

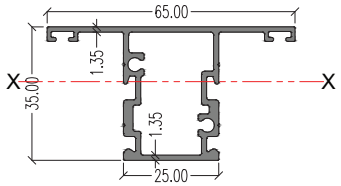



HORIZONTAL SECTIONS

## Wind Load Chart

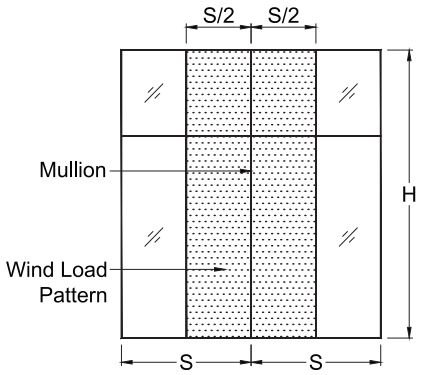
| | | |
|---|---|---|
| MULLION SECTION | | : 46882 |
| Alum. alloy | | : 6063-T5 |
| Moment of inertia | Ixx | : 4.6 $cm^4$ |
| Mod. of section | Zxx | : 2.2 $cm^3$ |

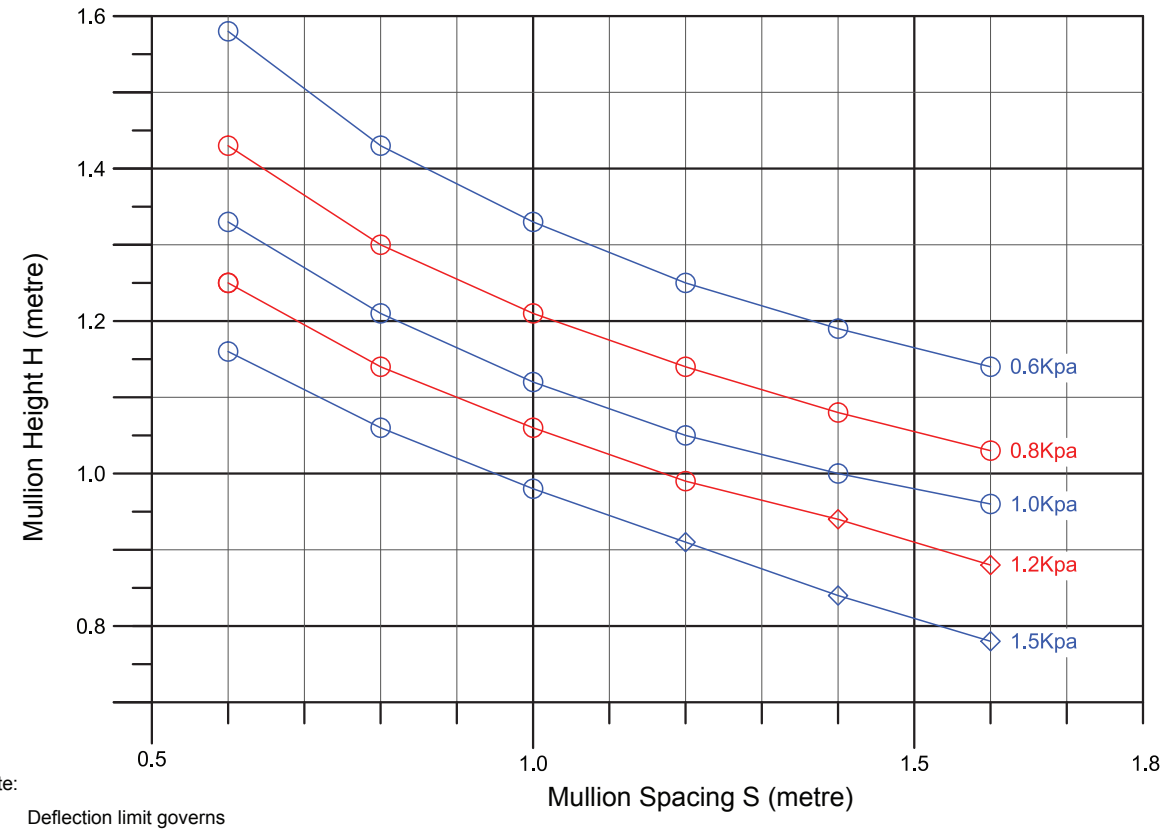



Note:
Suffix xx denotes axis perpendicular to wind load

| | |
|---|---|
| Mod. of elasticity | : 70 x $10^9$ $N/m^2$ |
| Design bend. stress | : 1.25 x $67^6$ $N/m^2$ |
| Deflection limit | : $^{Span}/_{175}$, up to max. 20mm |
| Nature of anchor | : Simply supported at both ends |

Typical configuration of window:




Note:

◯ Deflection limit governs

◇ Design bending stress governs

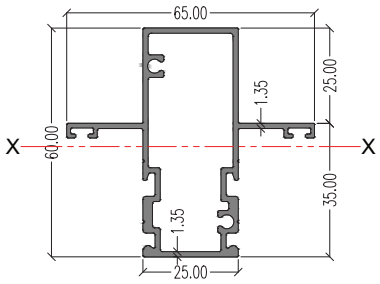
:- Buckling has not been taken into account in this chart

:- This windload chart is solely for reference only

# PERFORMANCE CASEMENT WINDOW
# SCW03

## Wind Load Chart

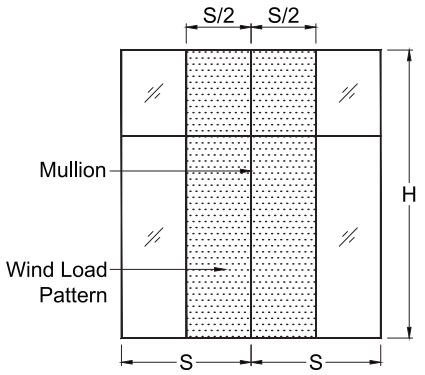
| | | |
|---|---|---|
| MULLION SECTION | | : 46883 |
| Alum. alloy | | : 6063-T5 |
| Moment of inertia | Ixx | : 12.5 $cm^4$ |
| Mod. of section | Zxx | : 4.0 $cm^3$ |

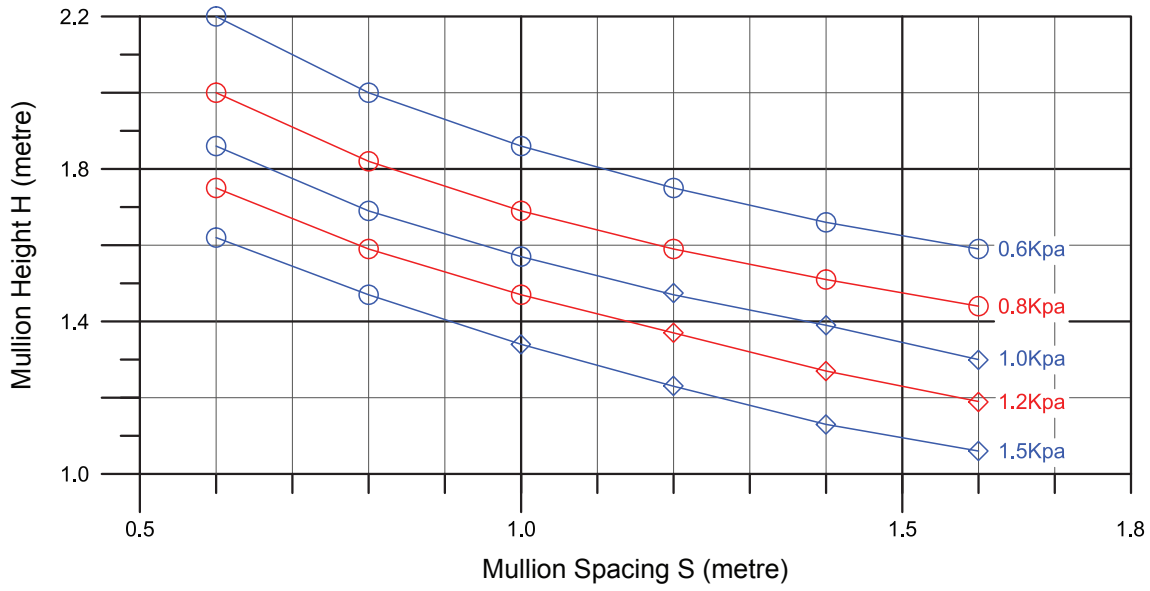



Note:
Suffix xx denotes axis perpendicular to wind load

| | |
|---|---|
| Mod. of elasticity | : 70 x $10^9$ $N/m^2$ |
| Design bend. stress | : 1.25 x $67^6$ $N/m^2$ |
| Deflection limit | : $^{Span}/_{175}$, up to max. 20mm |
| Nature of anchor | : Simply supported at both ends |

Typical configuration of window:




Note:

◯ Deflection limit governs

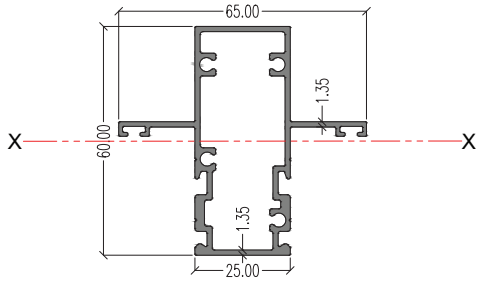
◇ Design bending stress governs

:- Buckling has not been taken into account in this chart

:- This windload chart is solely for reference only

## Wind Load Chart

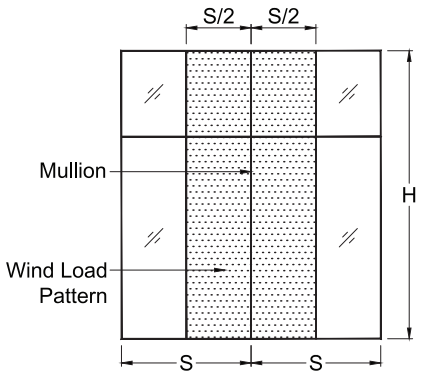
| | | |
|---|---|---|
| MULLION SECTION | | : 46631 |
| Alum. alloy | | : 6063-T5 |
| Moment of inertia | Ixx | : 13.1 $cm^4$ |
| Mod. of section | Zxx | : 4.3 $cm^3$ |

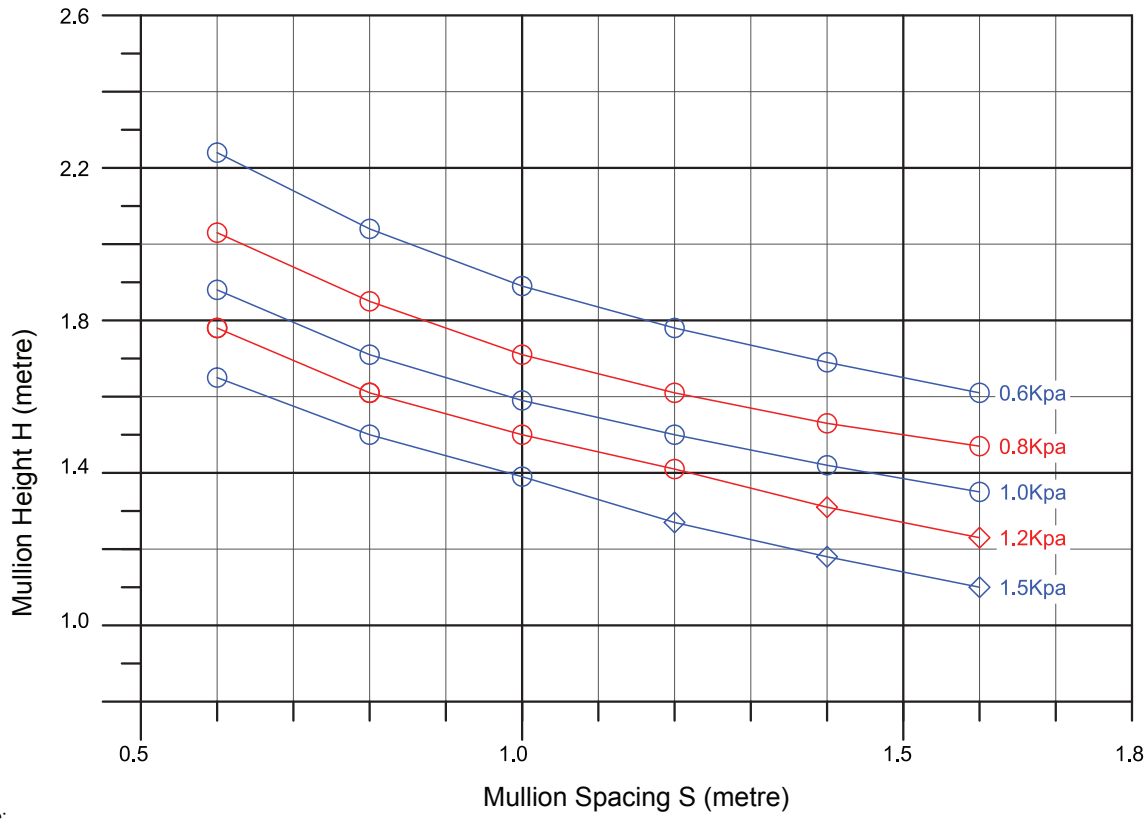



Note:
Suffix xx denotes axis perpendicular to wind load

| | |
|---|---|
| Mod. of elasticity | : 70 x $10^9$ $N/m^2$ |
| Design bend. stress | : 1.25 x $67^6$ $N/m^2$ |
| Deflection limit | : $^{Span}/_{175}$, up to max. 20mm |
| Nature of anchor | : Simply supported at both ends |

Typical configuration of window:




Note:

◯ Deflection limit governs

◇ Design bending stress governs

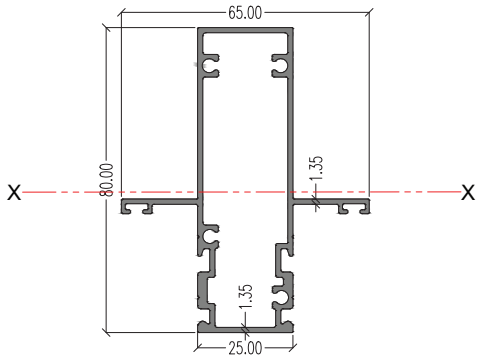
:- Buckling has not been taken into account in this chart

:- This windload chart is solely for reference only

# PERFORMANCE CASEMENT WINDOW
# SCW03

## Wind Load Chart

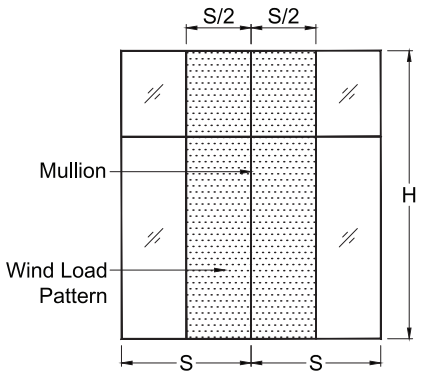
| | | |
|---|---|---|
| MULLION SECTION | | : 46606 |
| Alum. alloy | | : 6063-T5 |
| Moment of inertia | Ixx | : 27.5 $cm^4$ |
| Mod. of section | Zxx | : 6.4 $cm^3$ |

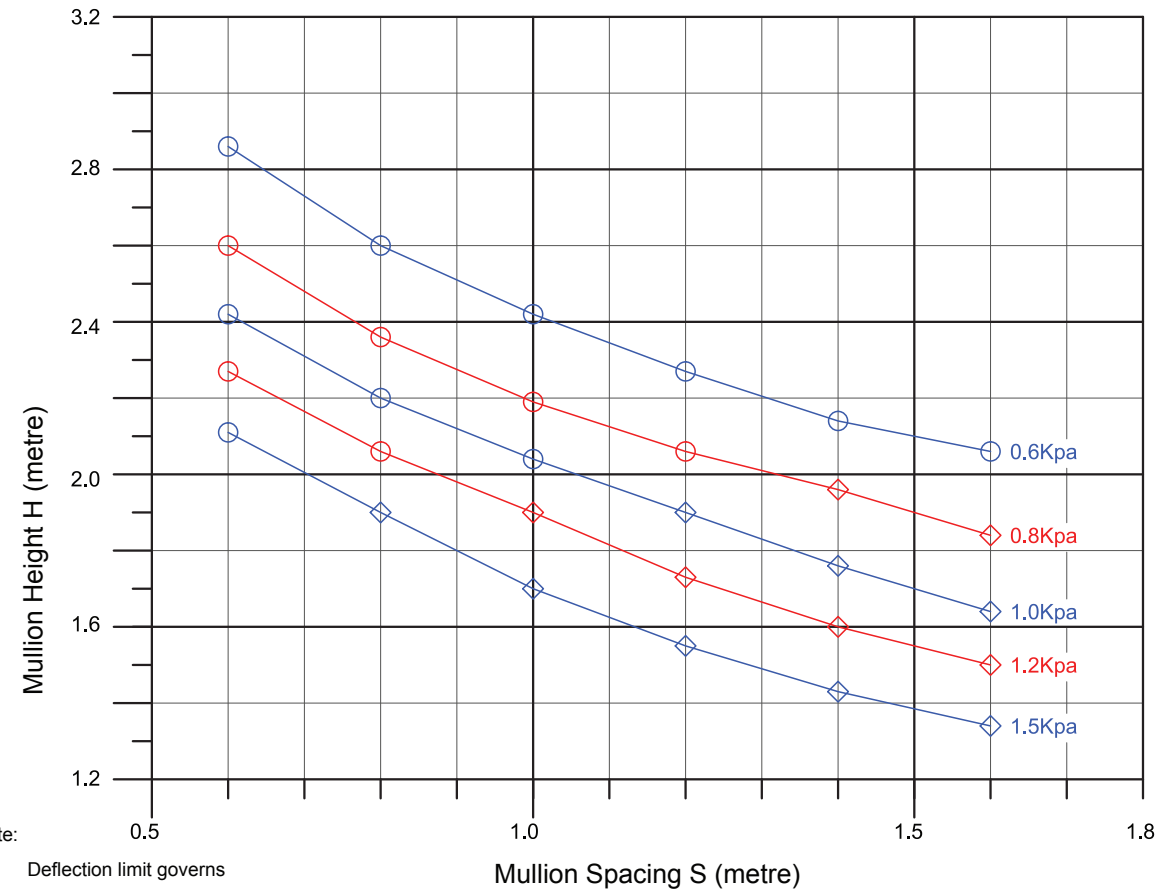



Note:
Suffix xx denotes axis perpendicular to wind load

| | |
|---|---|
| Mod. of elasticity | : 70 x $10^9$ $N/m^2$ |
| Design bend. stress | : 1.25 x $67^6$ $N/m^2$ |
| Deflection limit | : $^{Span}/_{175}$, up to max. 20mm |
| Nature of anchor | : Simply supported at both ends |

Typical configuration of window:



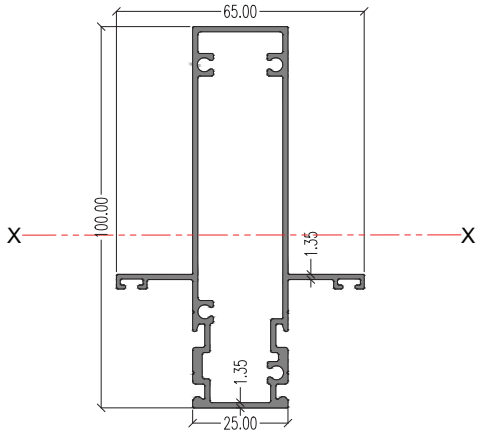




Note:
◯ Deflection limit governs
◇ Design bending stress governs
:- Buckling has not been taken into account in this chart
:- This windload chart is solely for reference only

# PERFORMANCE CASEMENT WINDOW
# SCW03

## Wind Load Chart

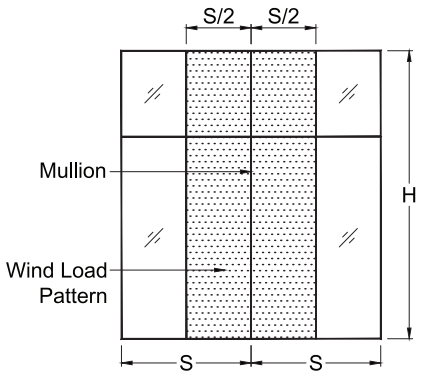
| | | |
|---|---|---|
| MULLION SECTION | | : 46609 |
| Alum. alloy | | : 6063-T5 |
| Moment of inertia | Ixx | : 50.2 $cm^4$ |
| Mod. of section | Zxx | : 9.1 $cm^3$ |

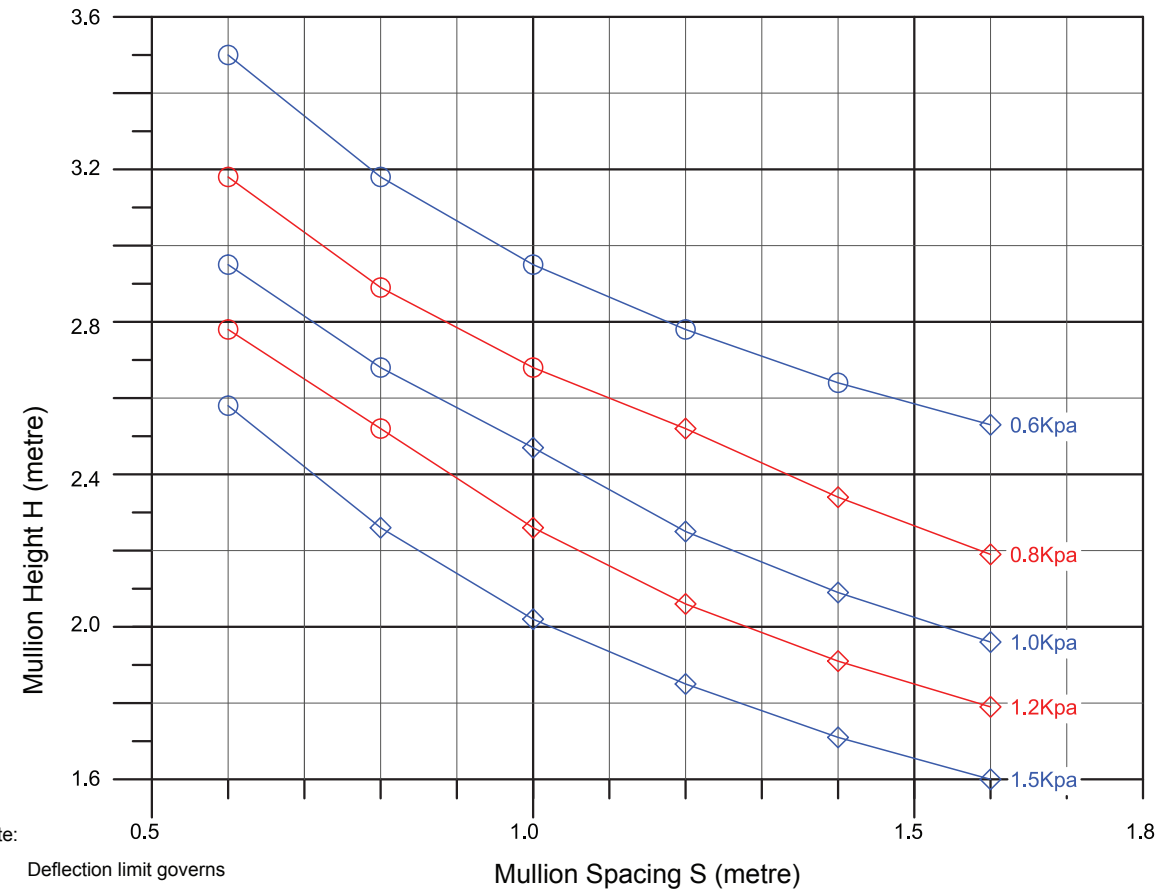



Note:
Suffix xx denotes axis perpendicular to wind load

| | |
|---|---|
| Mod. of elasticity | : 70 x $10^9$ $N/m^2$ |
| Design bend. stress | : 1.25 x $67^6$ $N/m^2$ |
| Deflection limit | : $^{Span}/_{175}$, up to max. 20mm |
| Nature of anchor | : Simply supported at both ends |

Typical configuration of window:




Note:

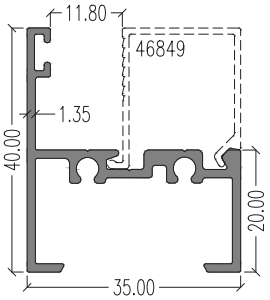
◯ Deflection limit governs

◇ Design bending stress governs

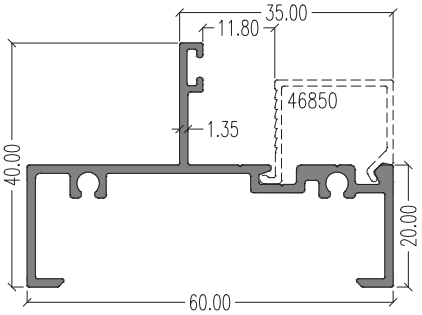
:- Buckling has not been taken into account in this chart

:- This windload chart is solely for reference only

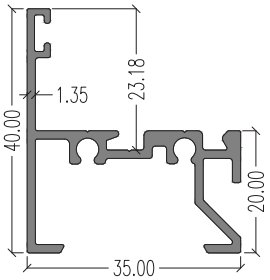
## Sectional Details



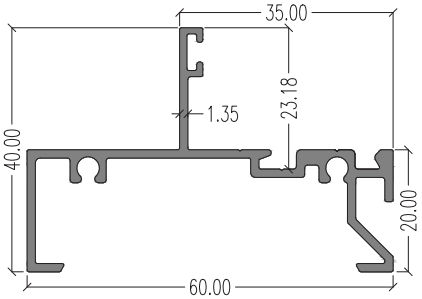

**46876** (Outer)
LW : 0.489 kg/m
AP : 254.76 mm



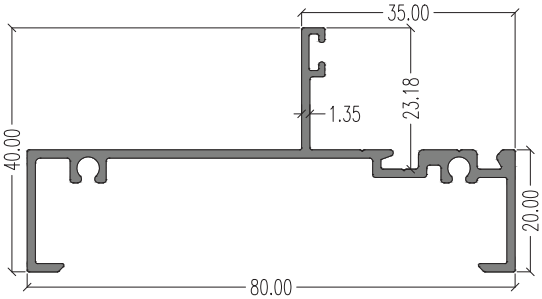

**46878** (Outer)
LW : 0.590 kg/m
AP : 310.01 mm



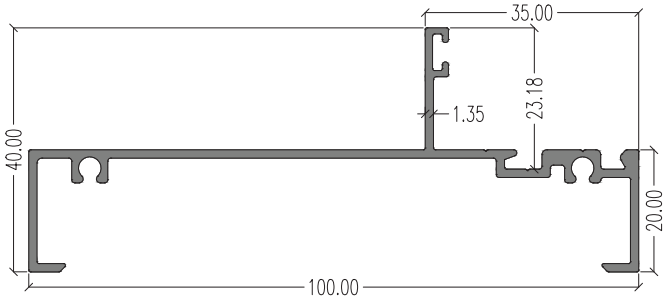

**46877** (Bottom Outer)
LW : 0.510 kg/m
AP : 265.88 mm



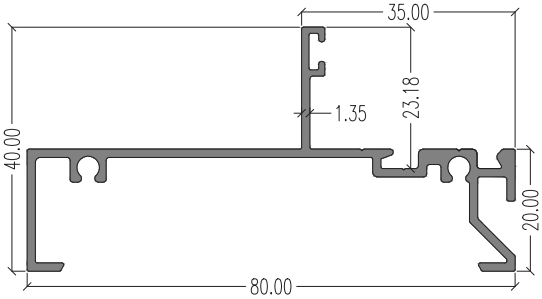

**46879** (Bottom Outer)
LW : 0.613 kg/m
AP : 331.30 mm



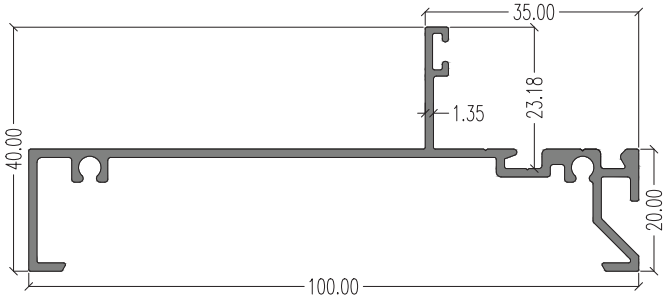

**46607** (Outer)
LW : 0.663 kg/m
AP : 350.01 mm




**46610** (Outer)
LW : 0.736 kg/m
AP : 390.01 mm

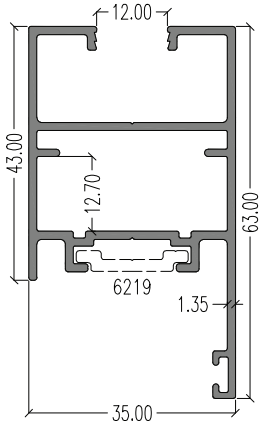



**46608** (Bottom Outer)
LW : 0.687 kg/m
AP : 371.30 mm

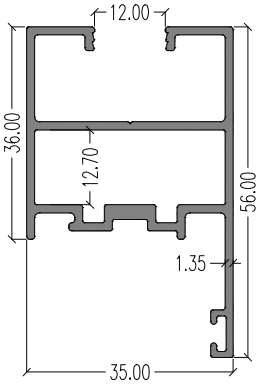



**46611** (Bottom Outer)
LW : 0.758 kg/m
AP : 402.36 mm

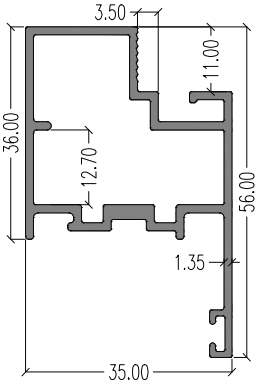
## Sectional Details



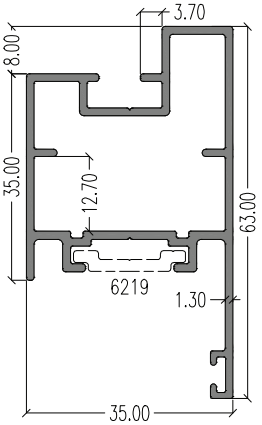

**46884** (Inner)
LW : 0.828 kg/m
AP : 333.99 mm



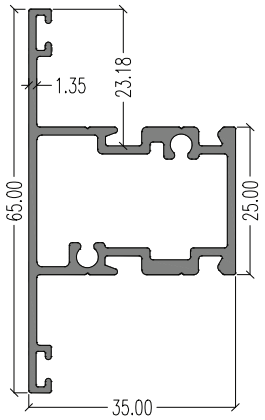

**46897** (Inner)
LW : 0.778 kg/m
AP : 272.93 mm



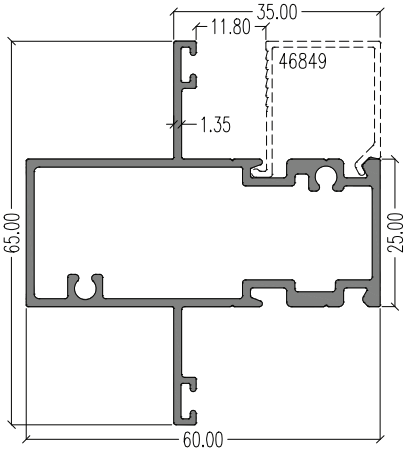

**46899** (Inner)
LW : 0.717 kg/m
AP : 238.20 mm



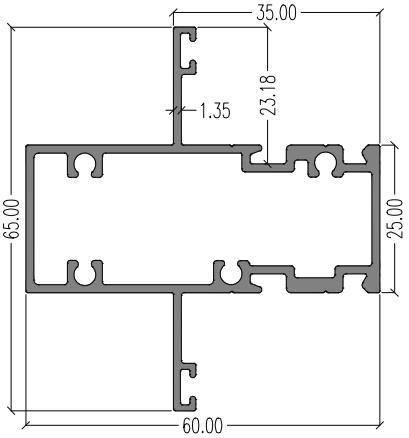

**46898** (Inner)
LW : 0.762 kg/m
AP : 297.53 mm



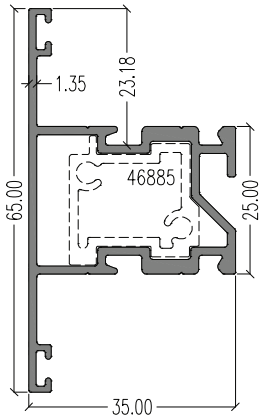

**46882** (Mullion)
LW : 0.779 kg/m
AP : 257.43 mm
Ixx : 6.015 cm⁴
Iyy : 4.671 cm⁴



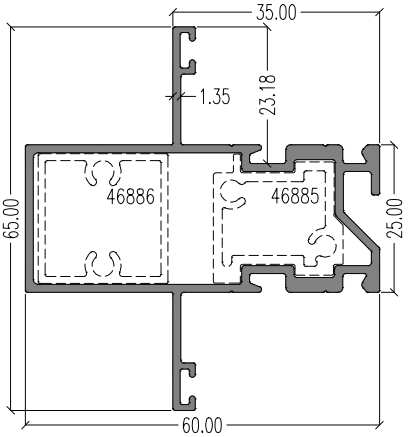

**46883** (Mullion)
LW : 0.978 kg/m
AP : 306.82 mm
Ixx : 6.995 cm⁴
Iyy : 12.55 cm⁴




**46631** (Mullion)
LW : 1.030 kg/m
AP : 306.63 mm
Ixx : 7.172 cm⁴
Iyy : 26.07 cm⁴

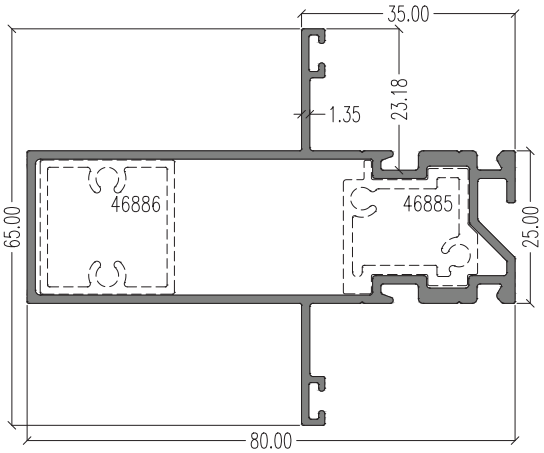



**46880** (Transom)
LW : 0.777 kg/m
AP : 274.28 mm
Ixx : 5.976 cm⁴
Iyy : 4.638 cm⁴

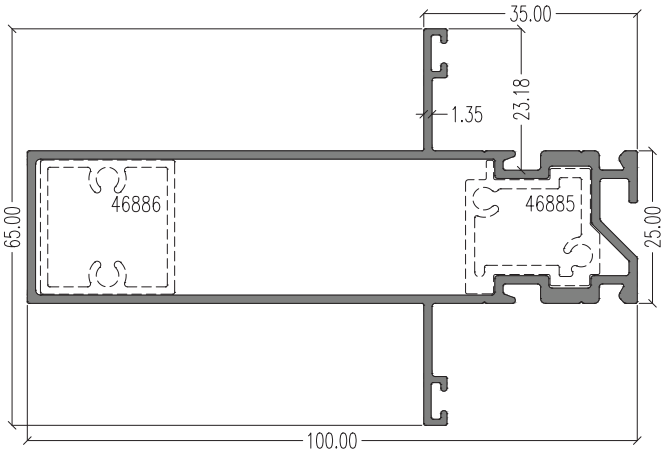



**46881** (Transom)
LW : 0.961 kg/m
AP : 323.76 mm
Ixx : 6.923 cm⁴
Iyy : 12.12 cm⁴

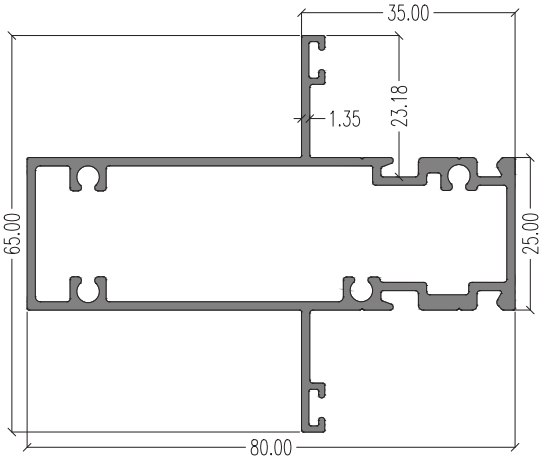
## Sectional Details



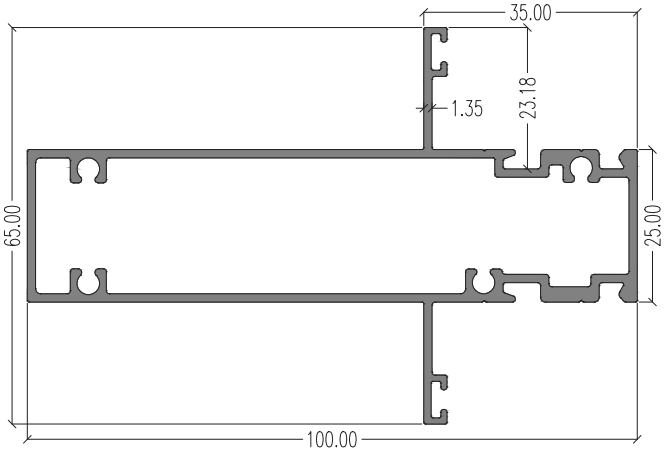

**46632** (Transom)
LW : 1.108 kg/m
AP : 362.42 mm
Ixx : 7.680 cm⁴
Iyy : 24.99 cm⁴




**46633** (Transom)
LW : 1.254 kg/m
AP : 402.42 mm
Ixx : 8.436 cm⁴
Iyy : 45.47 cm⁴



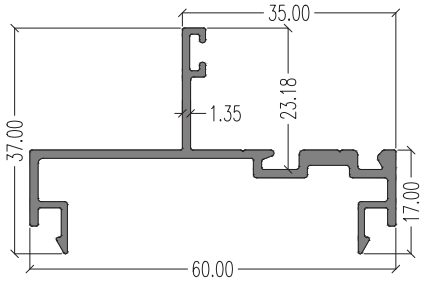

**46606** (Mullion)
LW : 1.176 kg/m
AP : 346.63 mm
Ixx : 7.928 cm⁴
Iyy : 2.754 cm⁴



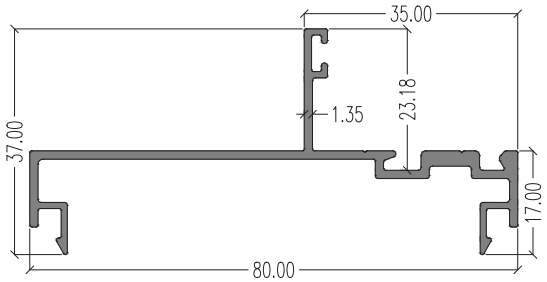

**46609** (Mullion)
LW : 1.322 kg/m
AP : 386.63 mm
Ixx : 8.684 cm⁴
Iyy : 50.22 cm⁴

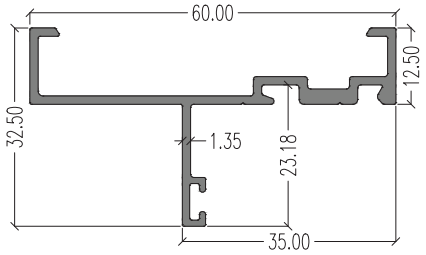
## Sectional Details

**46600** (Mullion)
LW : 0.539 kg/m
AP : 285.73 mm
Ixx : 1.083 cm⁴
Iyy : 7.613 cm⁴

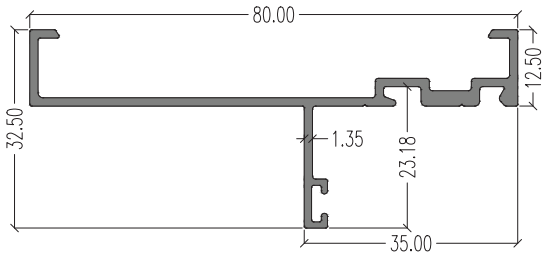



**46602** (Mullion)
LW : 0.612 kg/m
AP : 325.73 mm
Ixx : 1.085 cm⁴
Iyy : 15.53 cm⁴



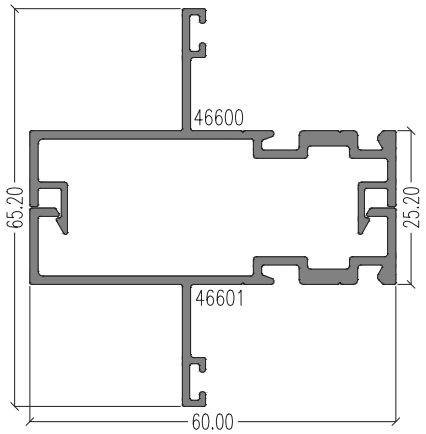




**46601** (Mullion)
LW : 0.492 kg/m
AP : 249.93 mm
Ixx : 0.871 cm⁴
Iyy : 6.608 cm⁴

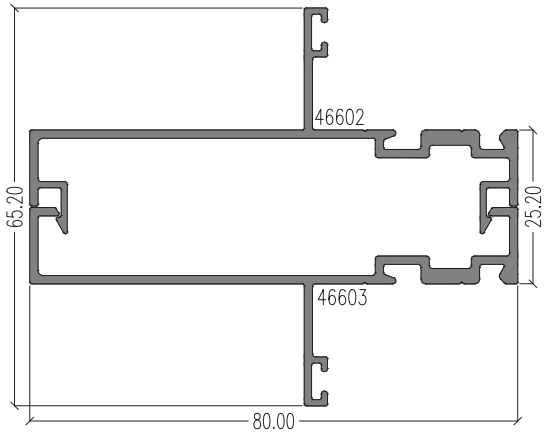



**46603** (Mullion)
LW : 0.566 kg/m
AP : 289.93 mm
Ixx : 0.871 cm⁴
Iyy : 13.49 cm⁴

Assembly of 46600 & 46601

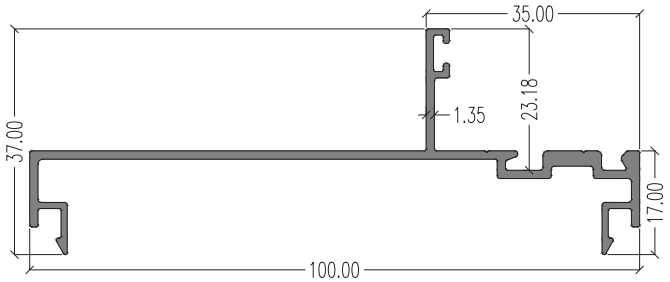


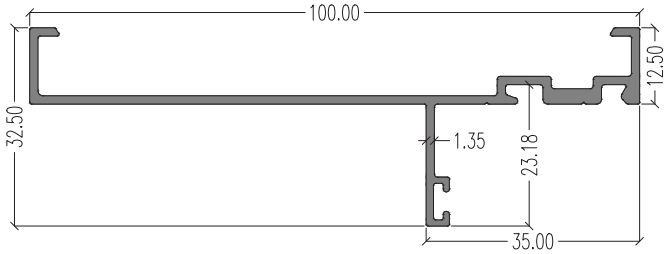

Assembly of 46602 & 46603



## Sectional Details

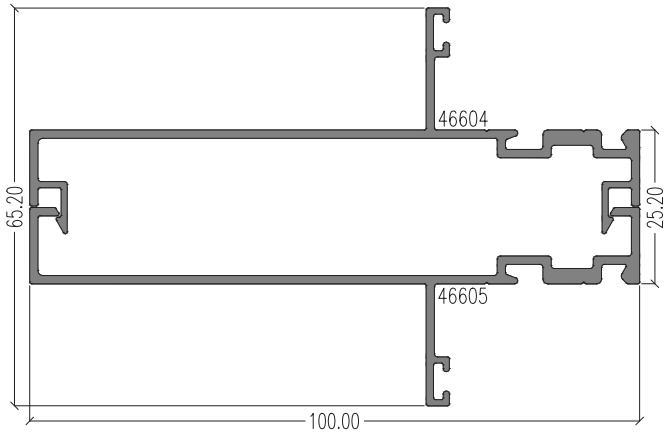
**46604**(Mullion)
LW : 0.685 kg/m
AP : 365.73 mm
Ixx : 1.086 cm⁴
Iyy : 27.71 cm⁴




**46605**(Mullion)
LW : 0.639 kg/m
AP : 329.93 mm
Ixx : 0.872 cm⁴
Iyy : 24.30 cm⁴

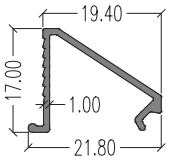
Assembly of 46604 & 46605



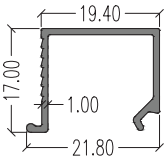
## Sectional Details

12mm Gap



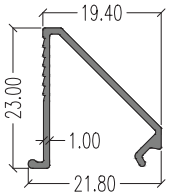

**46852** (Beading)
LW : 0.134 kg/m
AP : 98.02 mm

12mm Gap



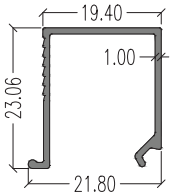

**46850** (Beading)
LW : 0.154 kg/m
AP : 113.23 mm

12mm Gap



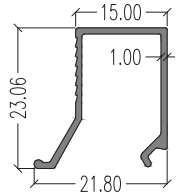

**46230** (Beading)
LW : 0.161 kg/m
AP : 118.69 mm

12mm Gap

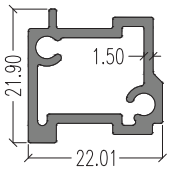



**46849** (Beading)
LW : 0.187 kg/m
AP : 137.46 mm

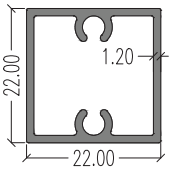
16mm Gap



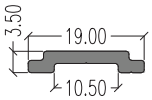

**46630** (Beading)
LW : 0.176 kg/m
AP : 131.04 mm




**46885** (Bracket)
LW : 0.388 kg/m
AP : 92.08 mm




**46886** (Bracket)
LW : 0.332 kg/m
AP : 87.49 mm




**6219** (Slide Bar)
LW : 0.117 kg/m
AP : 45.58 mm

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# SCW03

## Accessories

### Handles

CH100 Single-Point

CH200 Single-Point

MPH3903 Multi-Point
Single Fork

MPH3707A Multi-Point
Single/Double Fork

MPH3701A Multi-Point
Single/Double Fork

### Catches

MP930S

### Weather Strip

PLG 2474
Suntoprene
(153m/roll)

### Friction Stay

12", 18" SS304 (2.0mm)
Top Hung

8", 12", 16", SS304 (2.0mm)
Side Hung

### Push Rod

MP941KS (L22mm)

### Corner Bracket

MP580B

### Restrictor Bar

CB8, CB12

CB04

### Lockcam

MP950
(10mm, 12mm)


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