ALBENestra®

Performance Casement Window

SCW01

Designed and tested according to MS832

LB ALUMINIUM BERHAD
198501006093 (138535-V)

ALBENestra®

PERFORMANCE CASEMENT WINDOW SCW01

Product

ALBENestra SCW01

Typical Technical Features

Nominal Wall Thickness	:	1.30mm - 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	:	Flush
Hinges	:	Friction Stay
Corner Joints	:	Mitre Joints With Brackets (Inner)

Performance Test

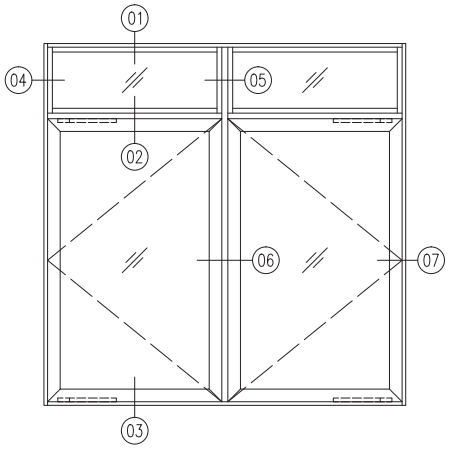
This casement window suite had been tested in compliance to MS 832:2022 performance test procedure for:

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

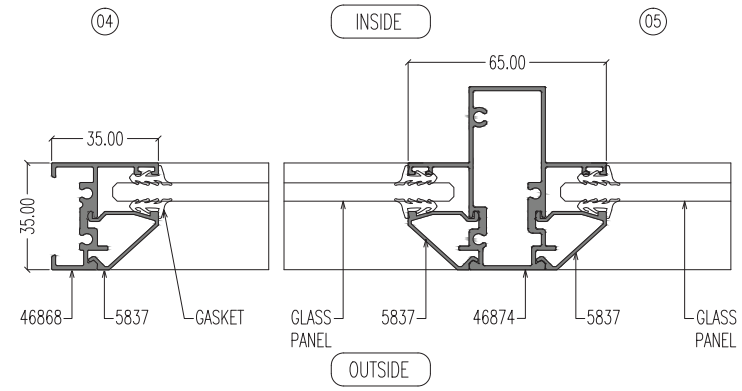
Note: Test report available upon request.

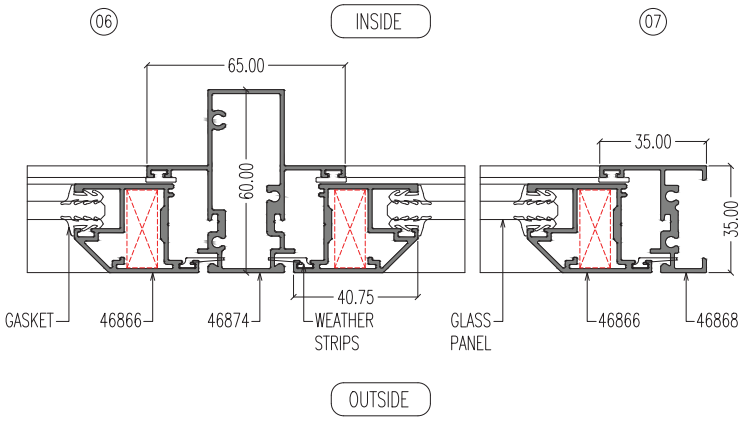
PERFORMANCE CASEMENT WINDOW
SCW01

Typical Assembly Details

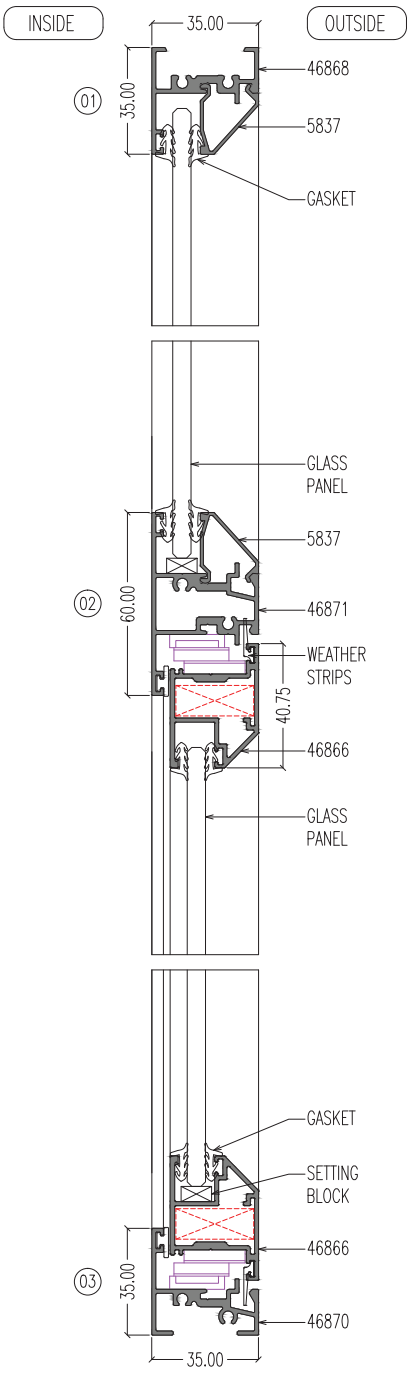


ELEVATION





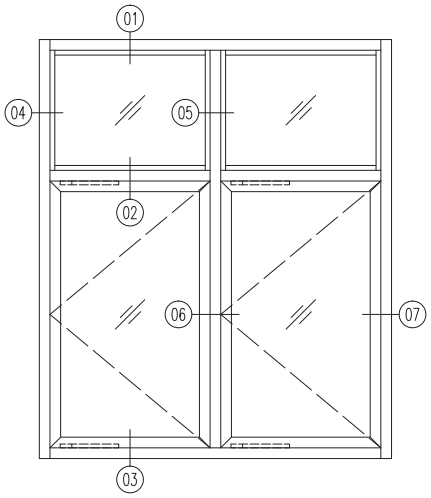
HORIZONTAL SECTIONS



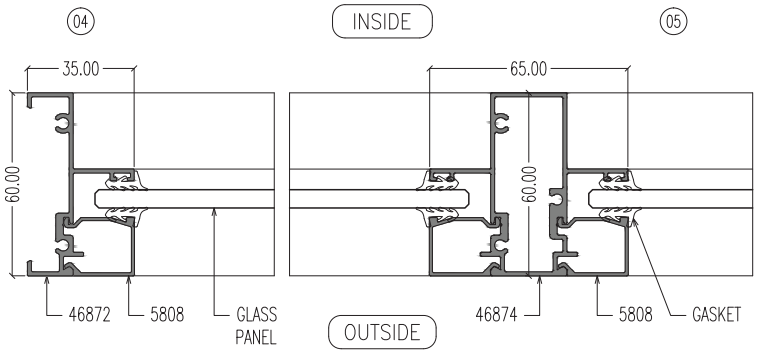
VERTICAL SECTIONS

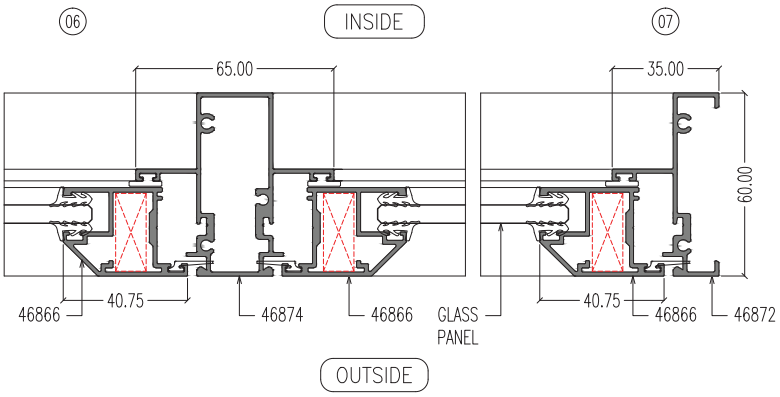
PERFORMANCE CASEMENT WINDOW
SCW01

Typical Assembly Details

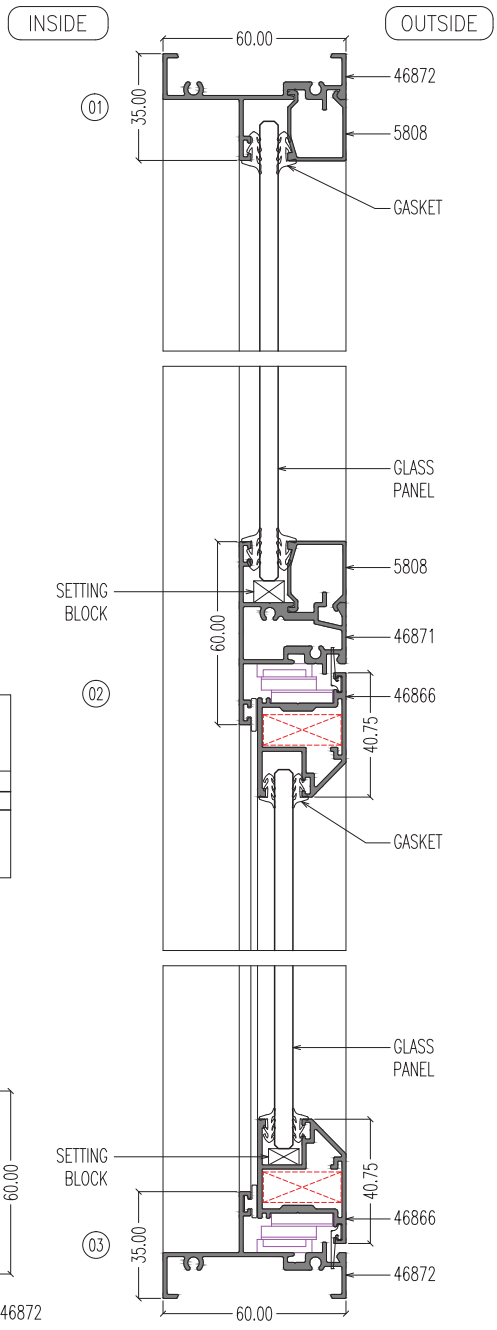


ELEVATION





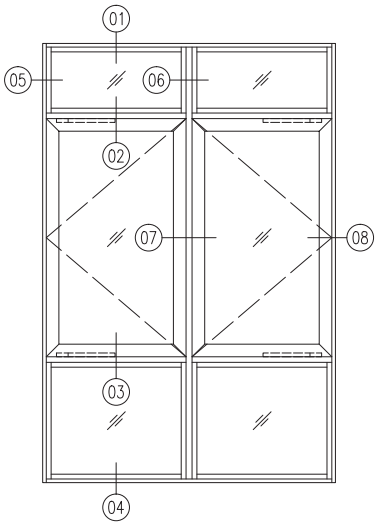
HORIZONTAL SECTIONS



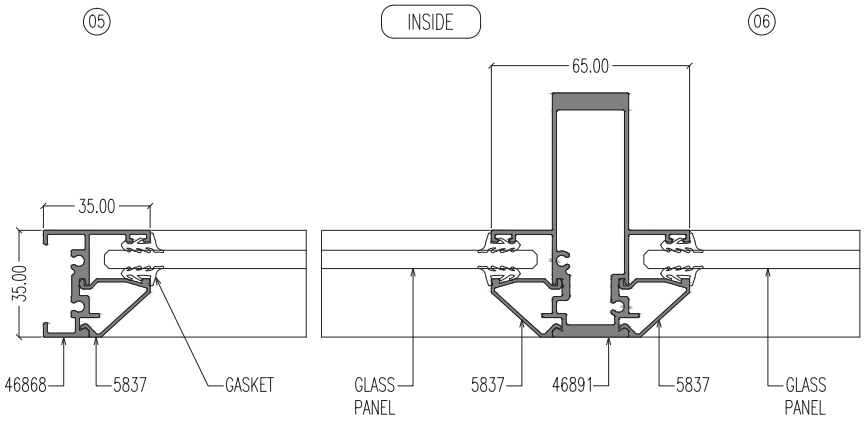
VERTICAL SECTIONS

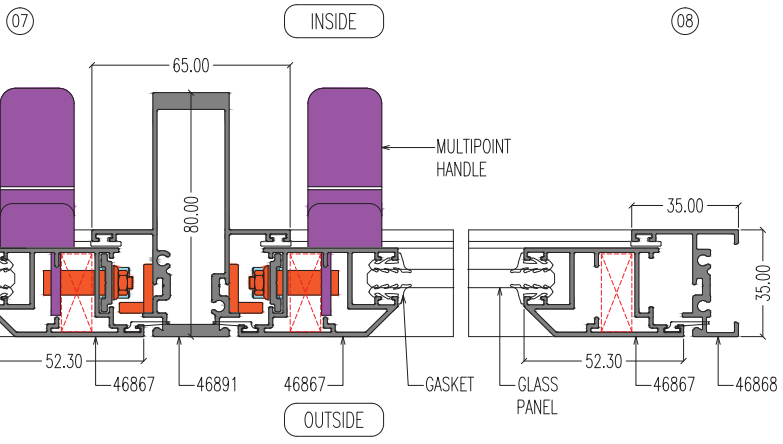
PERFORMANCE CASEMENT WINDOW
SCW01

Typical Assembly Details

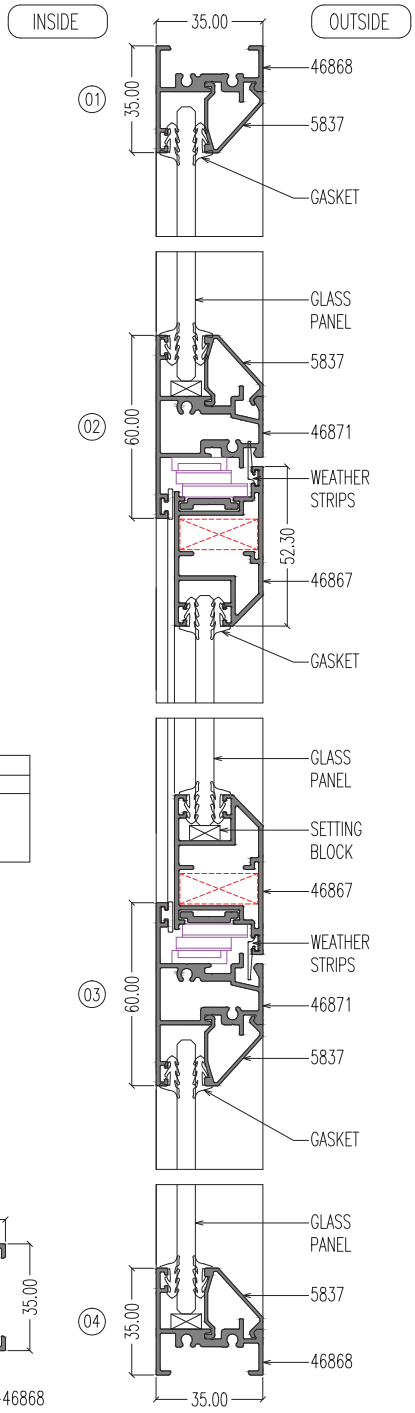


ELEVATION





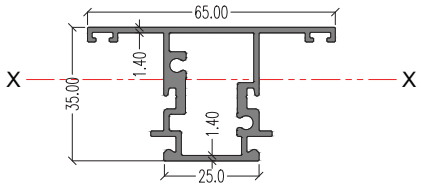
HORIZONTAL SECTIONS



VERTICAL SECTIONS

Wind Load Chart

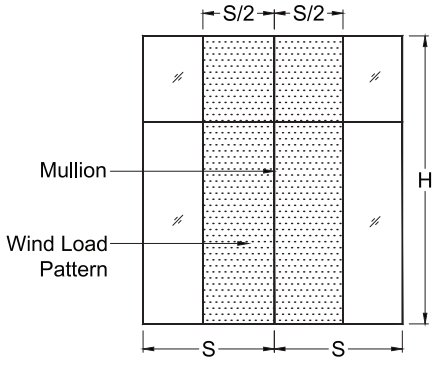
MULLION SECTION		: 46875
Alum. alloy		: 6063-T5
Moment of inertia	Ixx	: 5.0 cm^4
Mod. of section	Zxx	: 2.5 cm^3

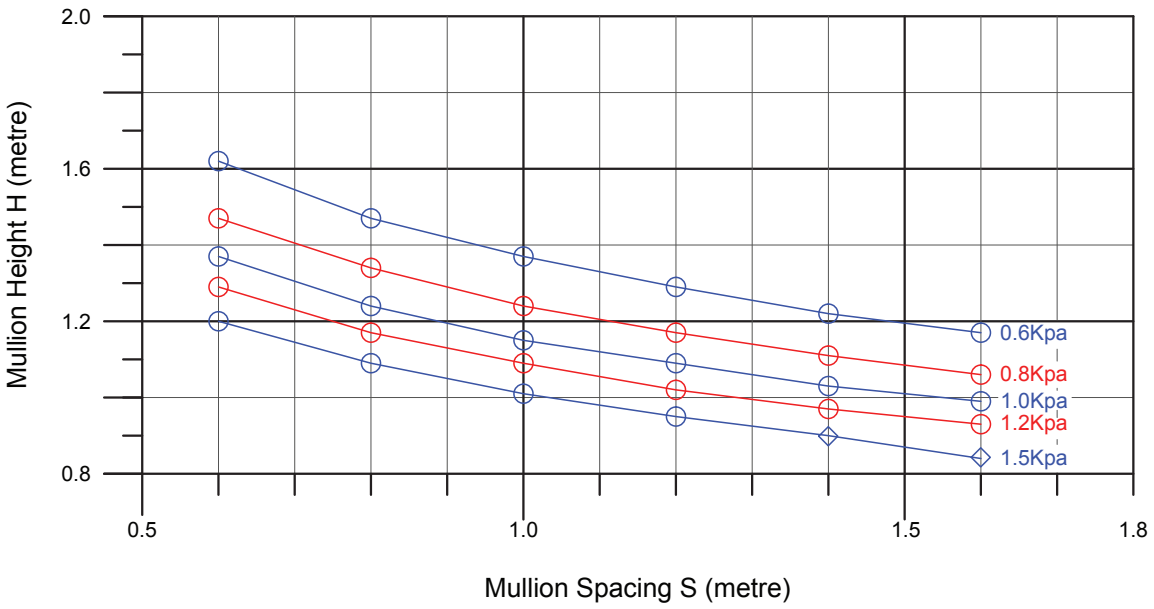


Note:
Suffix xx denotes axis perpendicular to wind load

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:

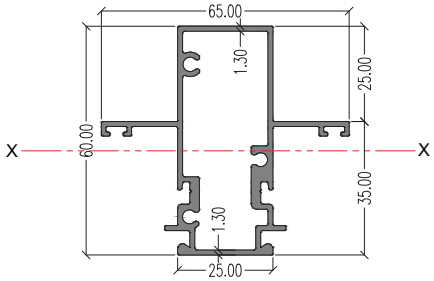
◯ Deflection limit governs , ◇ Design bending stress governs

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

:- This windload chart is solely for reference only

Wind Load Chart

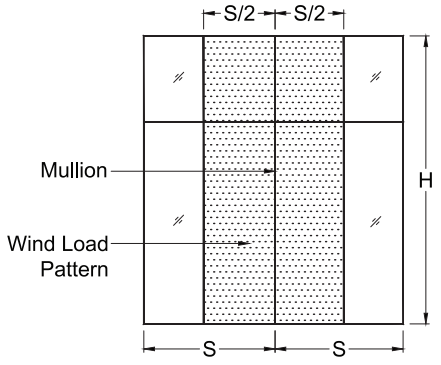
MULLION SECTION		: 46874
Alum. alloy		: 6063-T5
Moment of inertia	Ixx	: 12.8 cm^4
Mod. of section	Zxx	: 3.9 cm^3

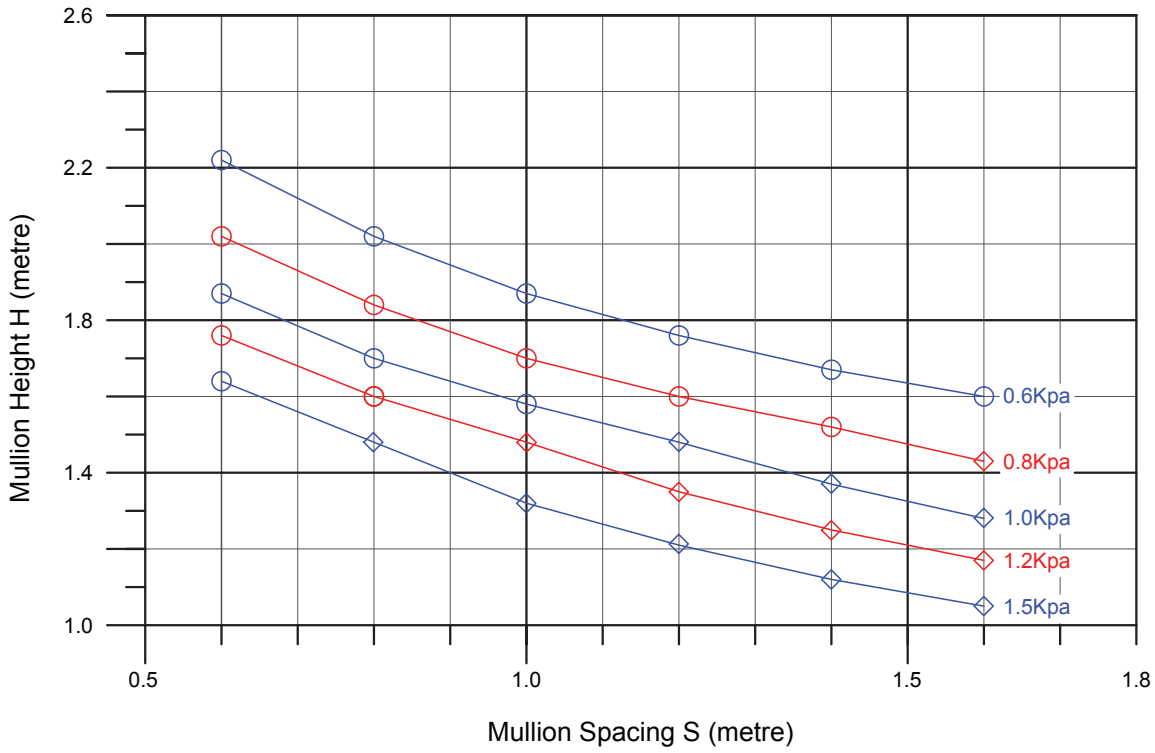


Note:
Suffix xx denotes axis perpendicular to wind load

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

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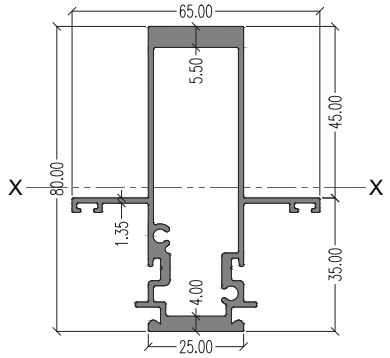
PERFORMANCE CASEMENT WINDOW
SCW01

Wind Load Chart

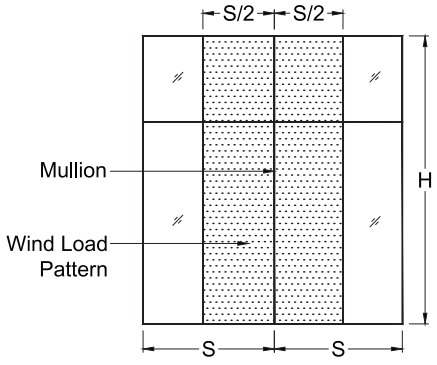
MULLION SECTION		: 46891
Alum. alloy		: 6063-T5
Moment of inertia	Ixx	: 45.5 cm^4
Mod. of section	Zxx	: 11.0 cm^3

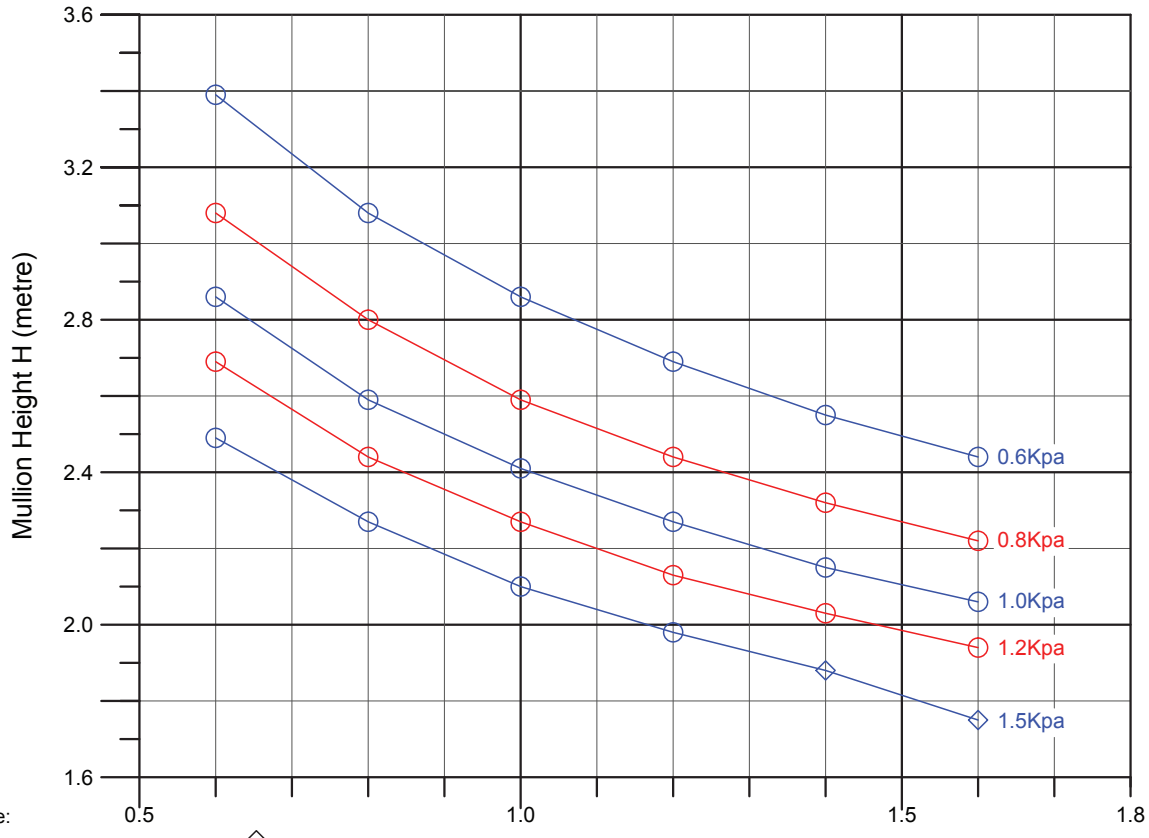


Note:
Suffix xx denotes axis perpendicular to wind load

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:
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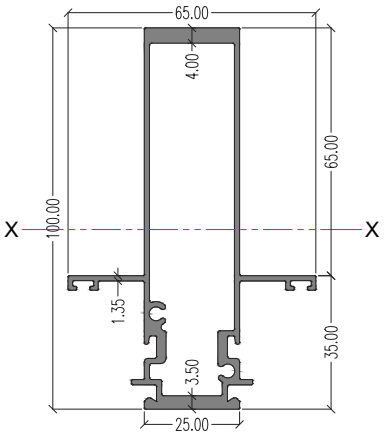
:- Buckling has not been taken into account in this chart
:- This windload chart is solely for reference only

Wind Load Chart

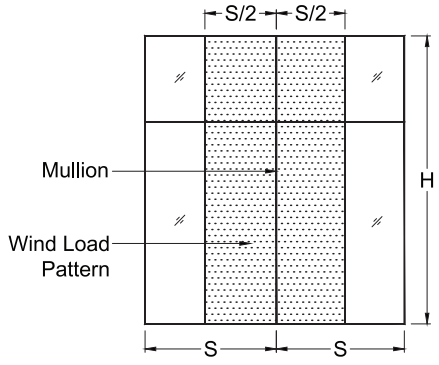
MULLION SECTION		: 46894
Alum. alloy		: 6063-T5
Moment of inertia	Ixx	: 70.1 cm^4
Mod. of section	Zxx	: 12.7 cm^3

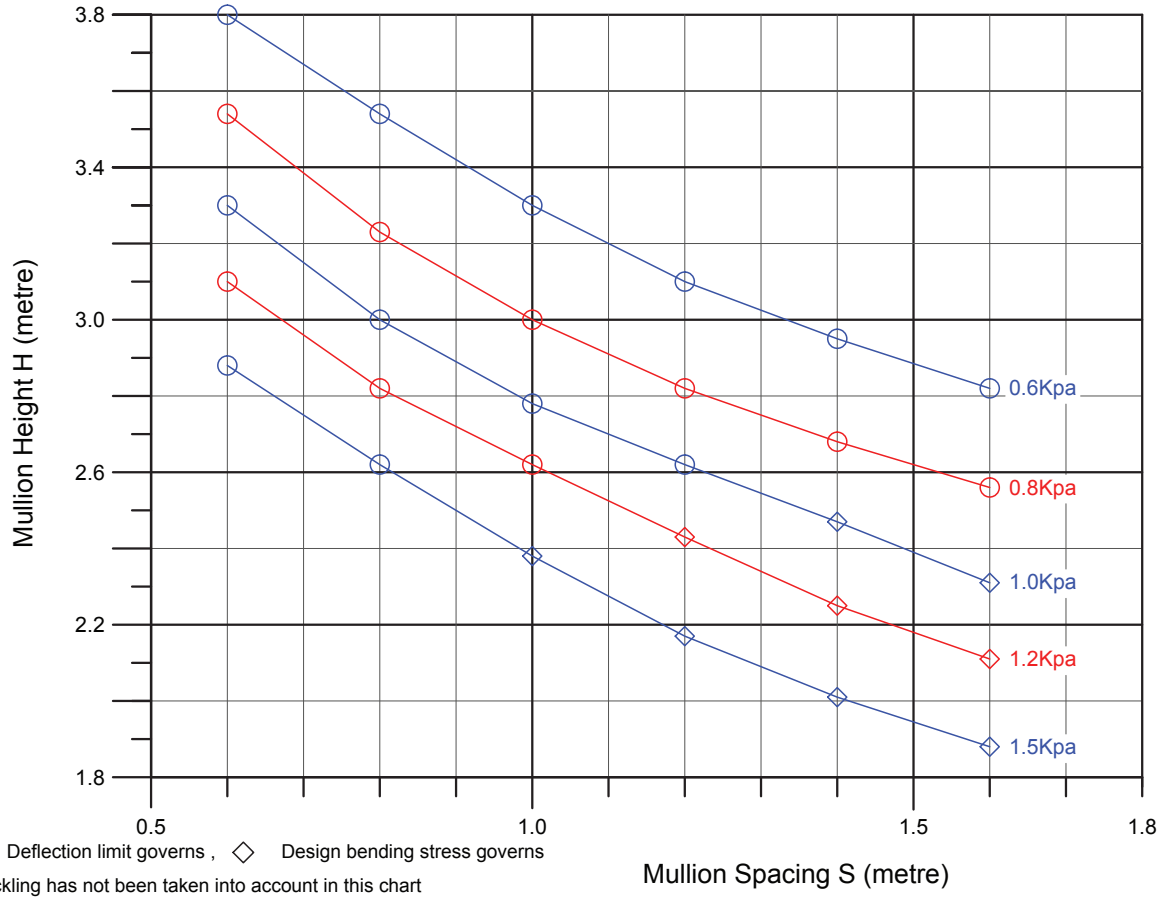


Note:
Suffix xx denotes axis perpendicular to wind load

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:
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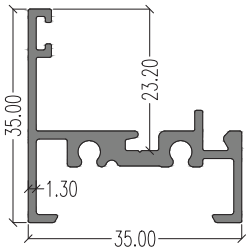
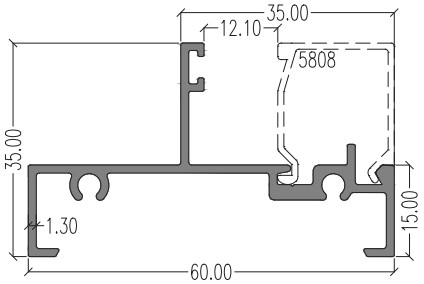
:- This windload chart is solely for reference only

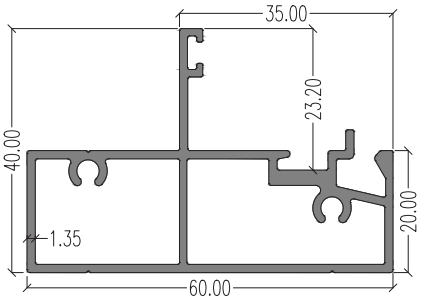
Sectional Details



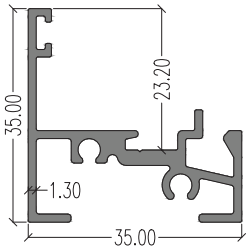
46868 (Outer)
LW : 0.517 kg/m
AP : 231.99 mm
(46863)



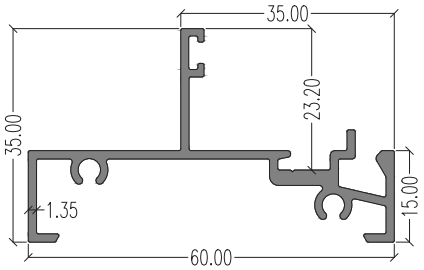
46872 (Outer)
LW : 0.573 kg/m
AP : 290.06 mm



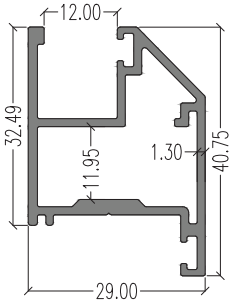
46887 (Bottom Outer)
LW : 0.900 kg/m
AP : 248.19 mm



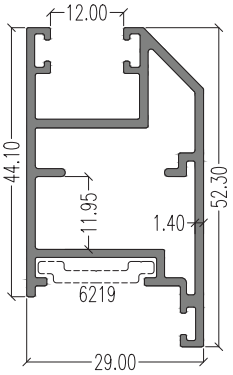
46870 (Bottom Outer)
LW : 0.538 kg/m
AP : 259.18 mm
(46865)



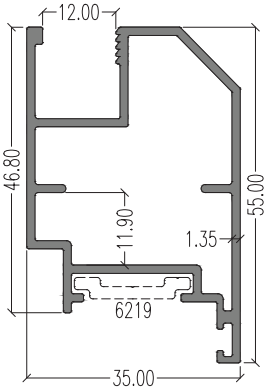
46893 (Bottom Outer)
LW : 0.609 kg/m
AP : 305.54 mm



46866 (Inner)
LW : 0.604 kg/m
AP : 186.37 mm

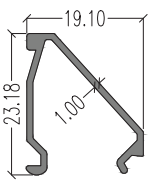


46867 (Inner)
LW : 0.723 kg/m
AP : 239.20 mm



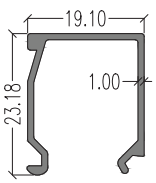
46892 (Inner)
LW : 0.743 kg/m
AP : 235.98 mm

12mm Gap

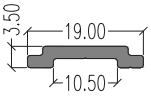


5837 (Beading)
LW : 0.176 kg/m
AP : 119.17 mm

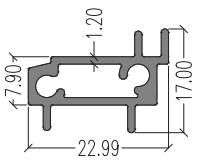
12mm Gap



5808 (Beading)
LW : 0.210 kg/m
AP : 136.34 mm

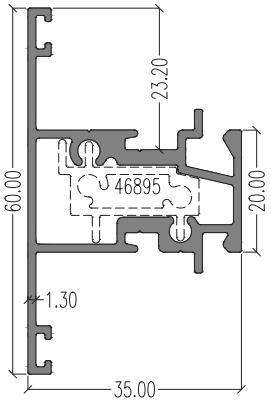


6219 (Slide Bar)
LW : 0.117 kg/m
AP : 45.58 mm

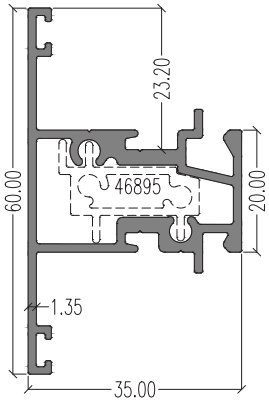


46895 (Bracket)
LW : 0.273 kg/m
AP : 92.23 mm

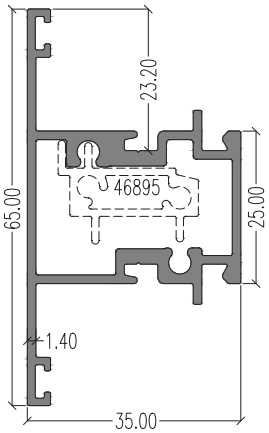
Sectional Details



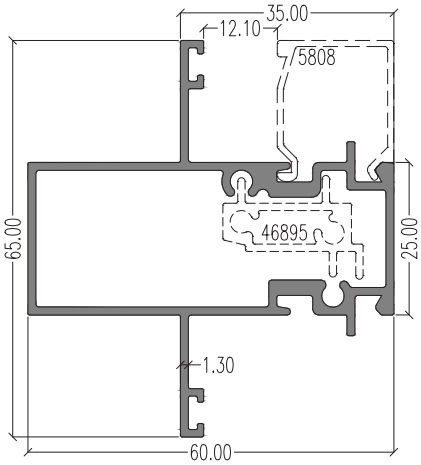
46871 (Transom)
LW : 0.826 kg/m
AP : 273.17 mm
Ixx : 4.598 cm⁴
Iyy : 4.452 cm⁴
(46861)



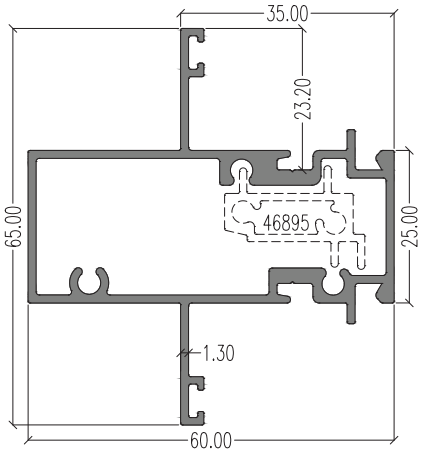
46889 (Transom)
LW : 0.844 kg/m
AP : 272.82 mm
Ixx : 4.650 cm⁴
Iyy : 4.547 cm⁴



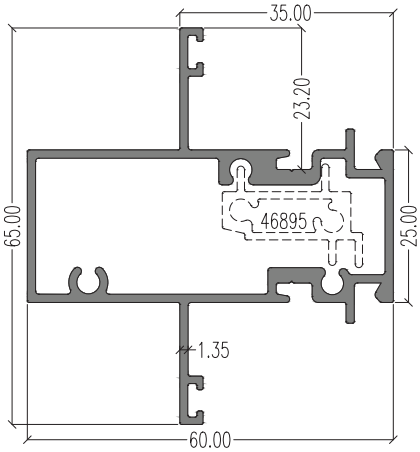
46875 (Mullion)
LW : 0.906 kg/m
AP : 268.46 mm
Ixx : 6.574 cm⁴
Iyy : 5.006 cm⁴
(5388)



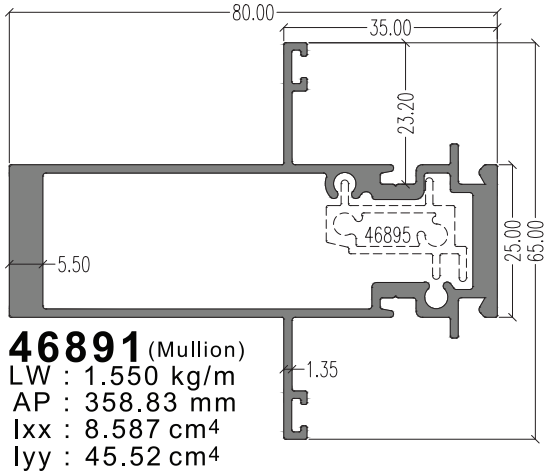
46869 (Mullion)
LW : 1.017 kg/m
AP : 319.03 mm
Ixx : 7.255 cm⁴
Iyy : 12.13 cm⁴



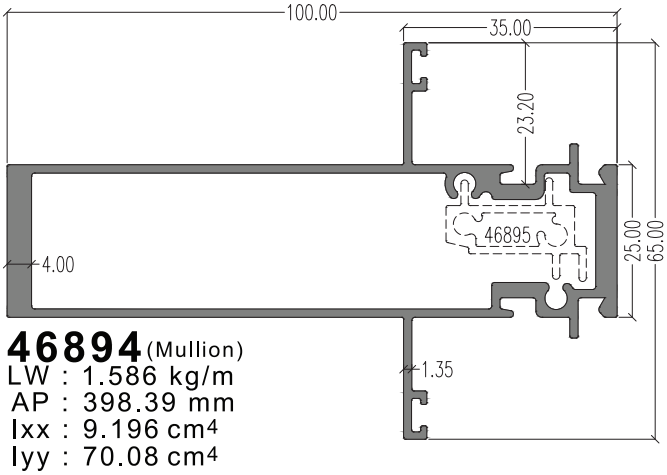
46874 (Mullion)
LW : 1.069 kg/m
AP : 319.03 mm
Ixx : 7.409 cm⁴
Iyy : 12.81 cm⁴
(46864)



46890 (Mullion)
LW : 1.091 kg/m
AP : 318.83 mm
Ixx : 7.516 cm⁴
Iyy : 13.13 cm⁴



46891 (Mullion)
LW : 1.550 kg/m
AP : 358.83 mm
Ixx : 8.587 cm⁴
Iyy : 45.52 cm⁴



46894 (Mullion)
LW : 1.586 kg/m
AP : 398.39 mm
Ixx : 9.196 cm⁴
Iyy : 70.08 cm⁴

ALBENestra®

PERFORMANCE CASEMENT WINDOW
SCW01

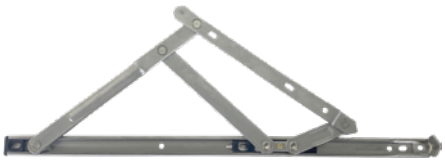
Accessories

Handles

CH200 Single-Point

MPH3903 Multi-Point
Single Fork

Friction Stay



12”, 18” SS304 (2.0mm)
Top Hung

8”, 12” 16” SS304 (2.0mm)
Side Hung

Catches

MP930S

Corner Bracket

MP580B

Restrictor Bar

CB8, CB12

CB04

Push Rod

MP941KS (L22mm)

Lockcam

MP950
(10mm, 12mm)

Weather Strip

PLG 2210
Suntoprene Inner
(153m / roll)

PLG 2322
Suntoprene Outer
(153m / roll)

LB ALUMINIUM BERHAD
198501006093 (138535-V)

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+603-8725 8866 (Export)
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