



ALBENestra®



Performance Casement Window **SCW01**

Designed and tested according to MS832:2022



**LB
ALUMINIUM
BERHAD**
198501006093 (138535-V)

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

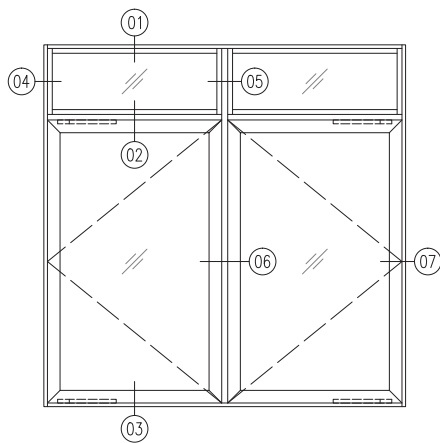
This casement window suite had been tested in compliance to MS 832:2022 performance test procedure for:

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

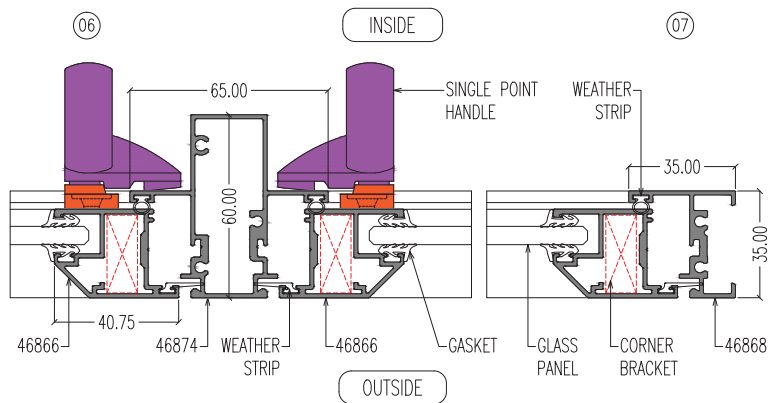
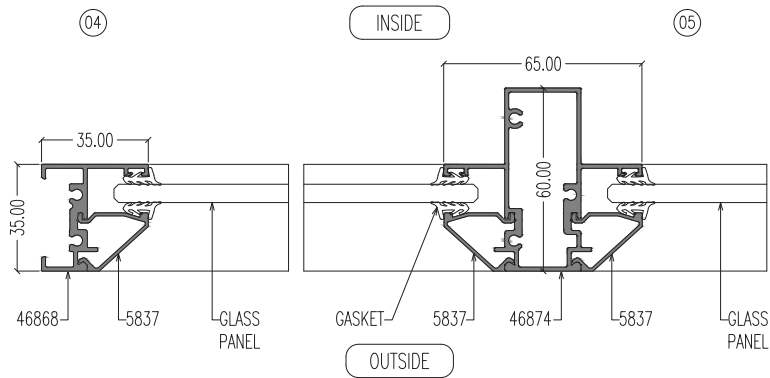
Note: Test report available upon request.



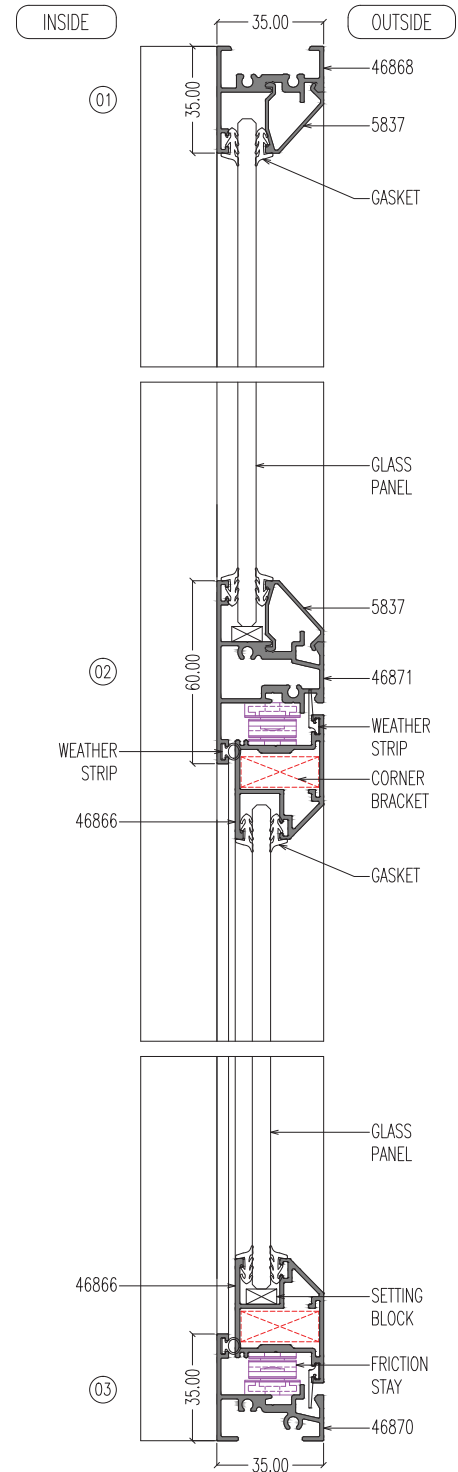
Typical Assembly Details



ELEVATION

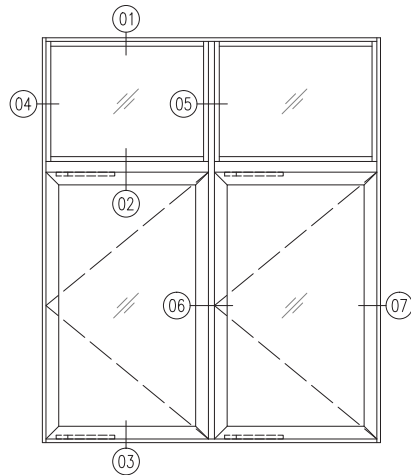


HORIZONTAL SECTIONS

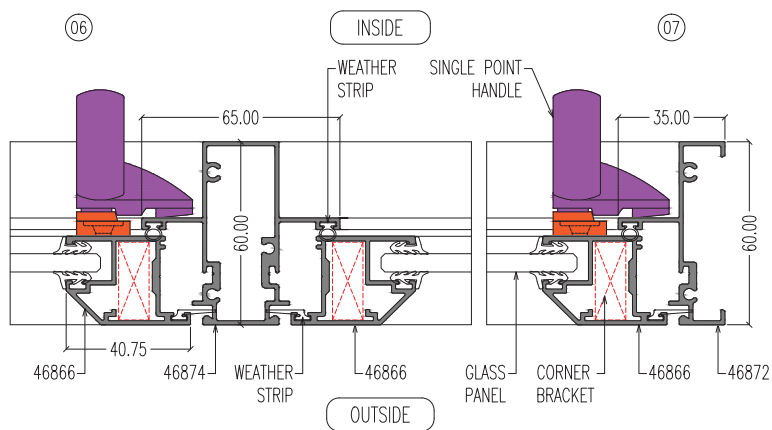
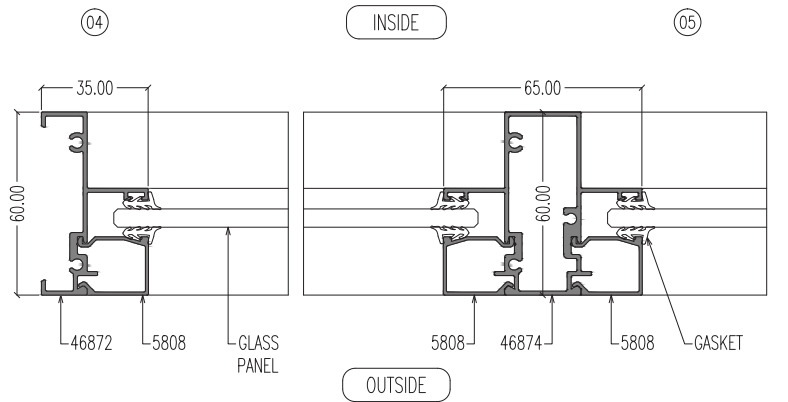


VERTICAL SECTIONS

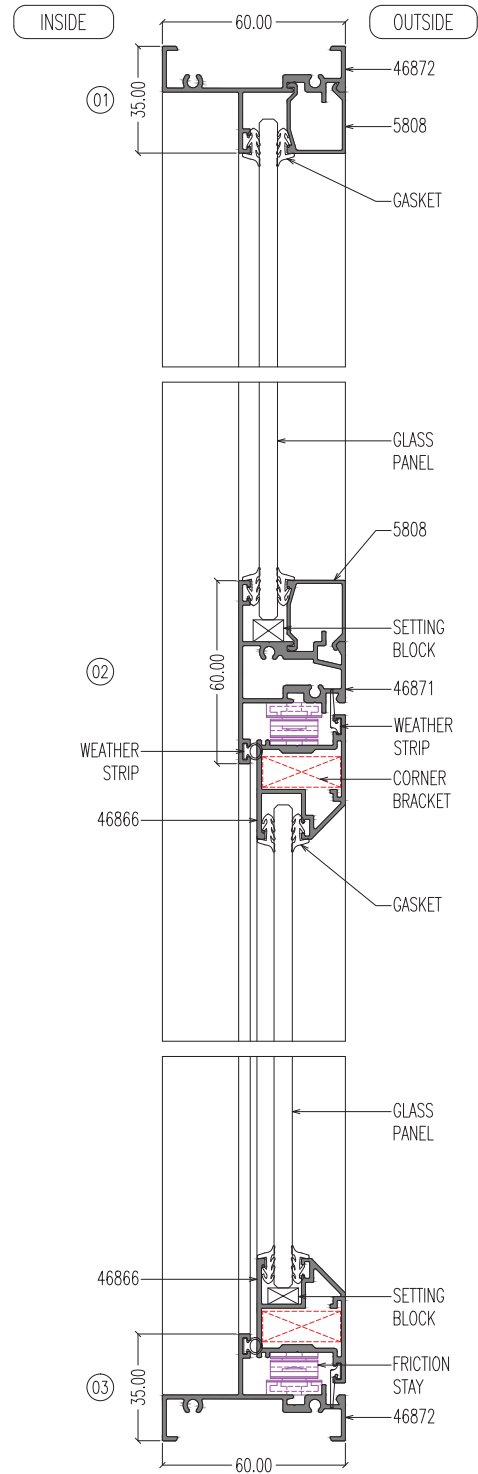
Typical Assembly Details



ELEVATION

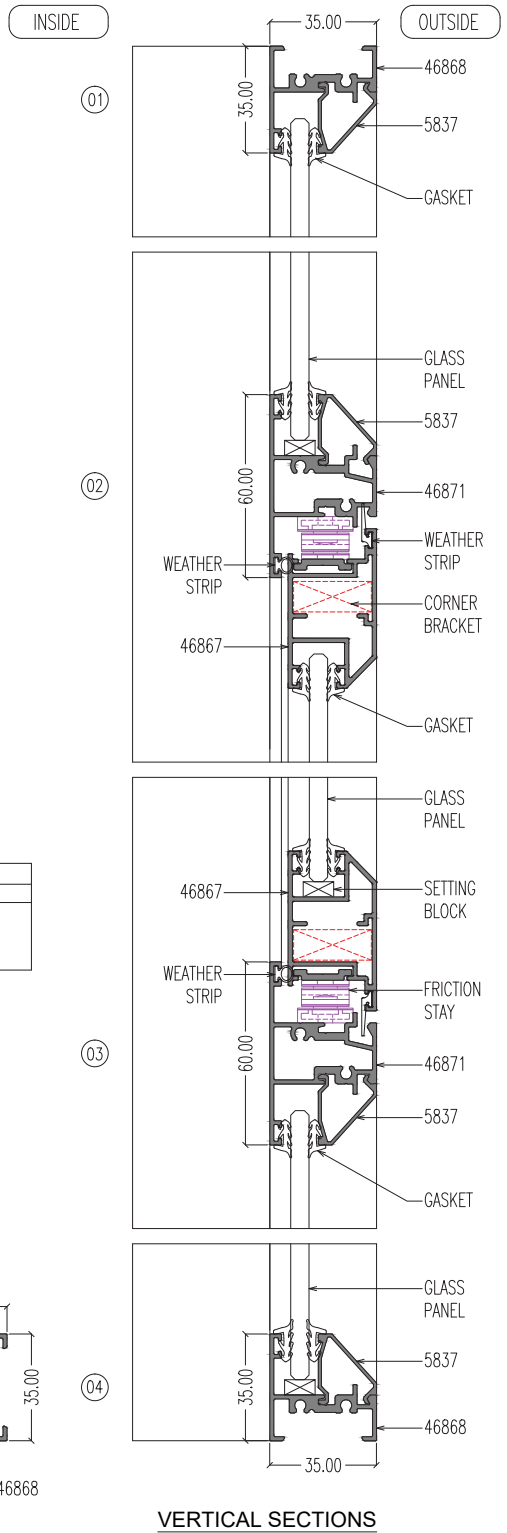
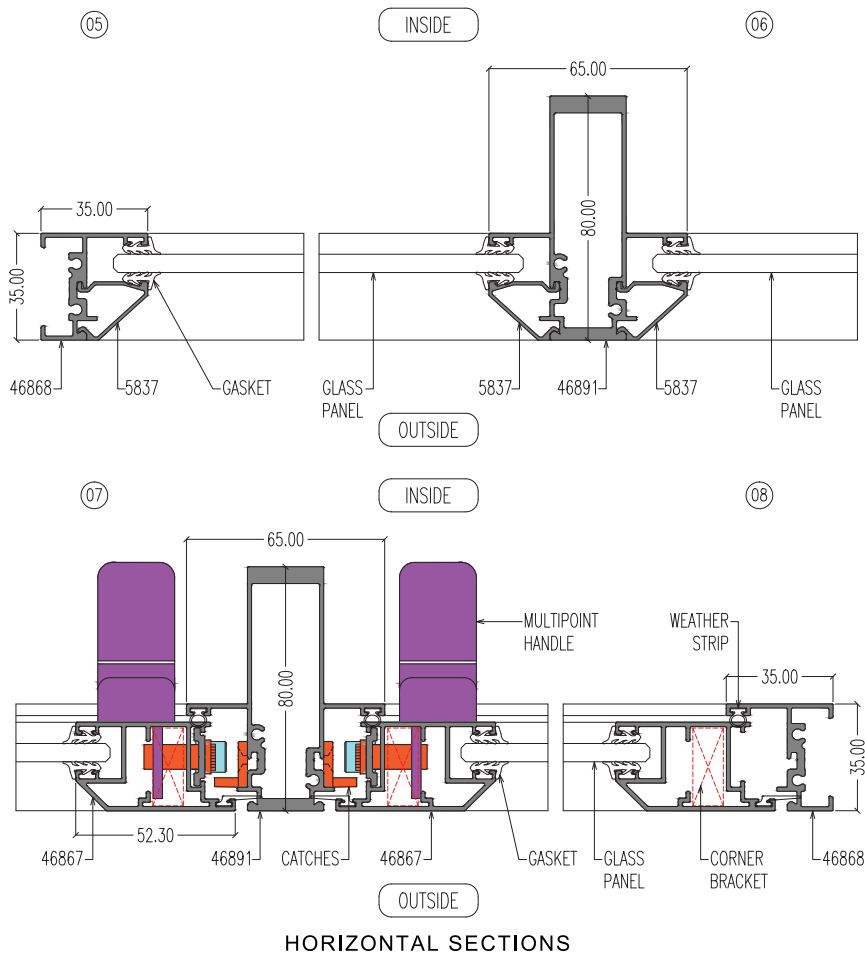
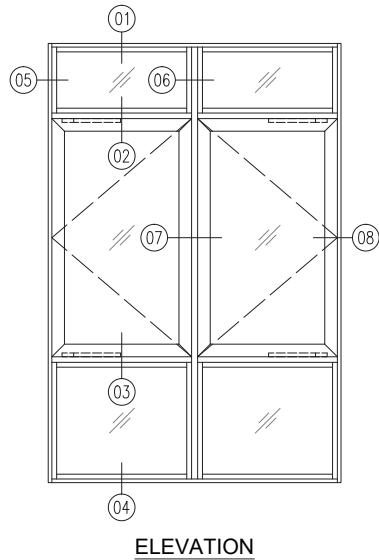


HORIZONTAL SECTIONS



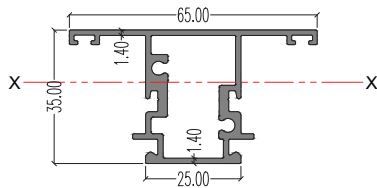
VERTICAL SECTIONS

Typical Assembly Details



Wind Load Chart

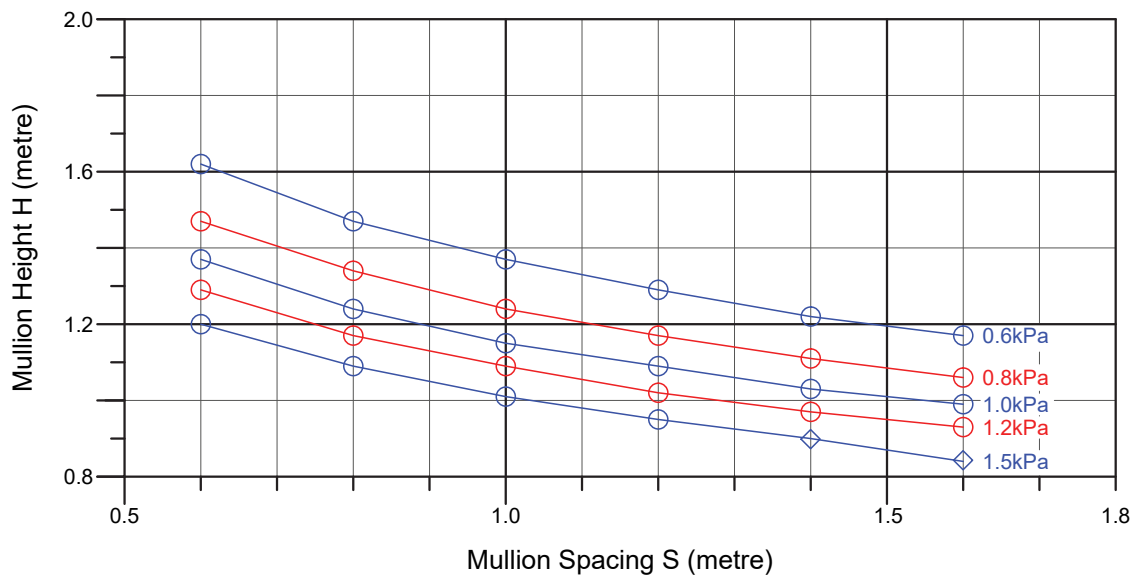
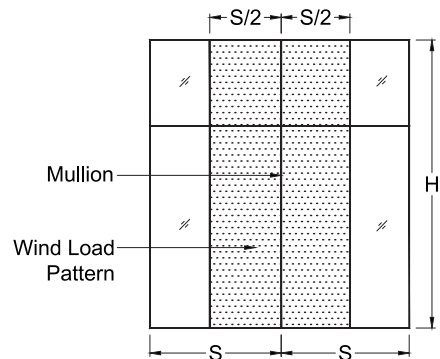
MULLION SECTION : 46875
 Alum. alloy : 6063-T5
 Moment of inertia I_{xx} : 5.0 cm^4
 Mod. of section Z_{xx} : 2.5 cm^3



Note:
 Suffix xx denotes axis perpendicular to wind load

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

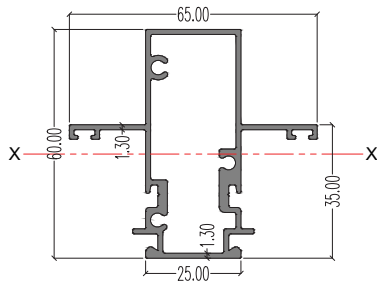
Typical configuration of window:



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

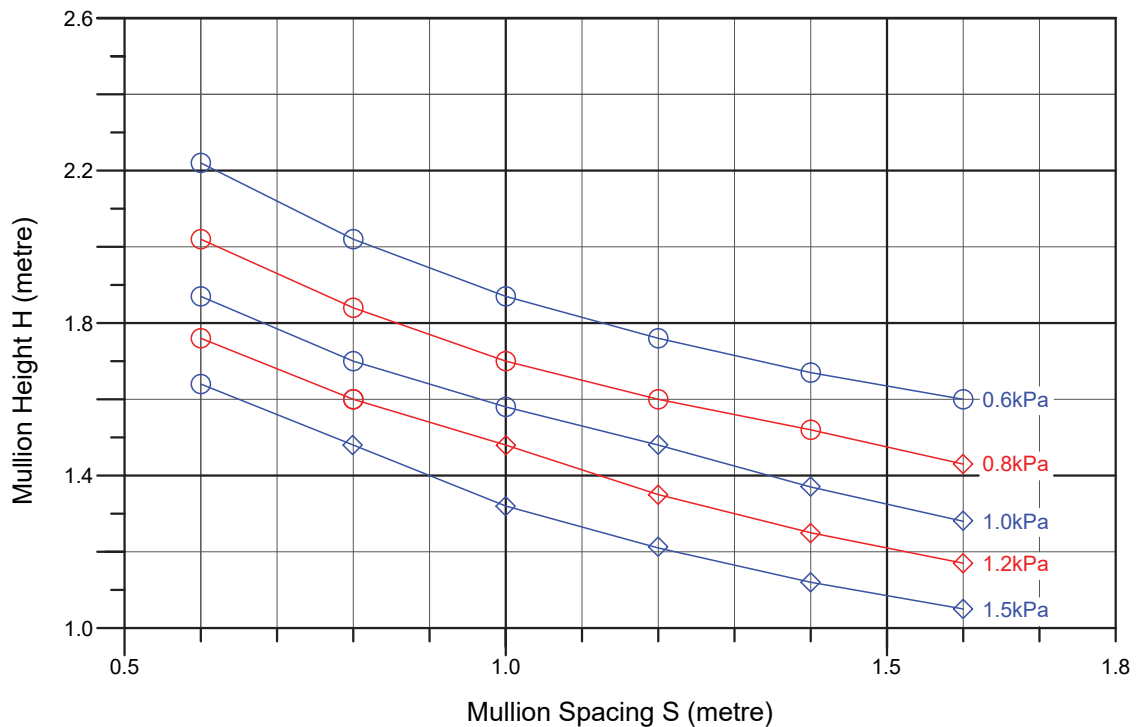
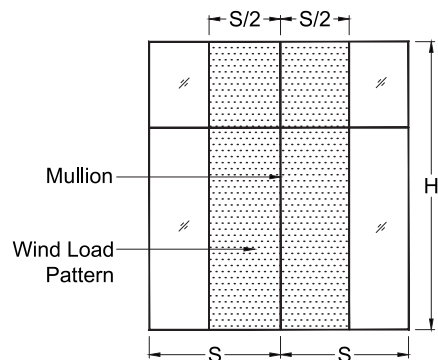
MULLION SECTION : 46874
 Alum. alloy : 6063-T5
 Moment of inertia I_{xx} : 12.8 cm⁴
 Mod. of section Z_{xx} : 3.9 cm³



Note:
 Suffix xx denotes axis perpendicular to wind load

Mod. of elasticity : 70 x 10⁹ N/m²
 Design bend. stress : 1.25 x 67 MPa
 Deflection limit : $\text{Span}/175$, up to max. 20mm
 Nature of anchor : Simply supported at both ends

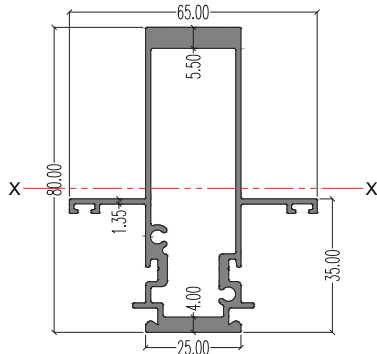
Typical configuration of window:



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

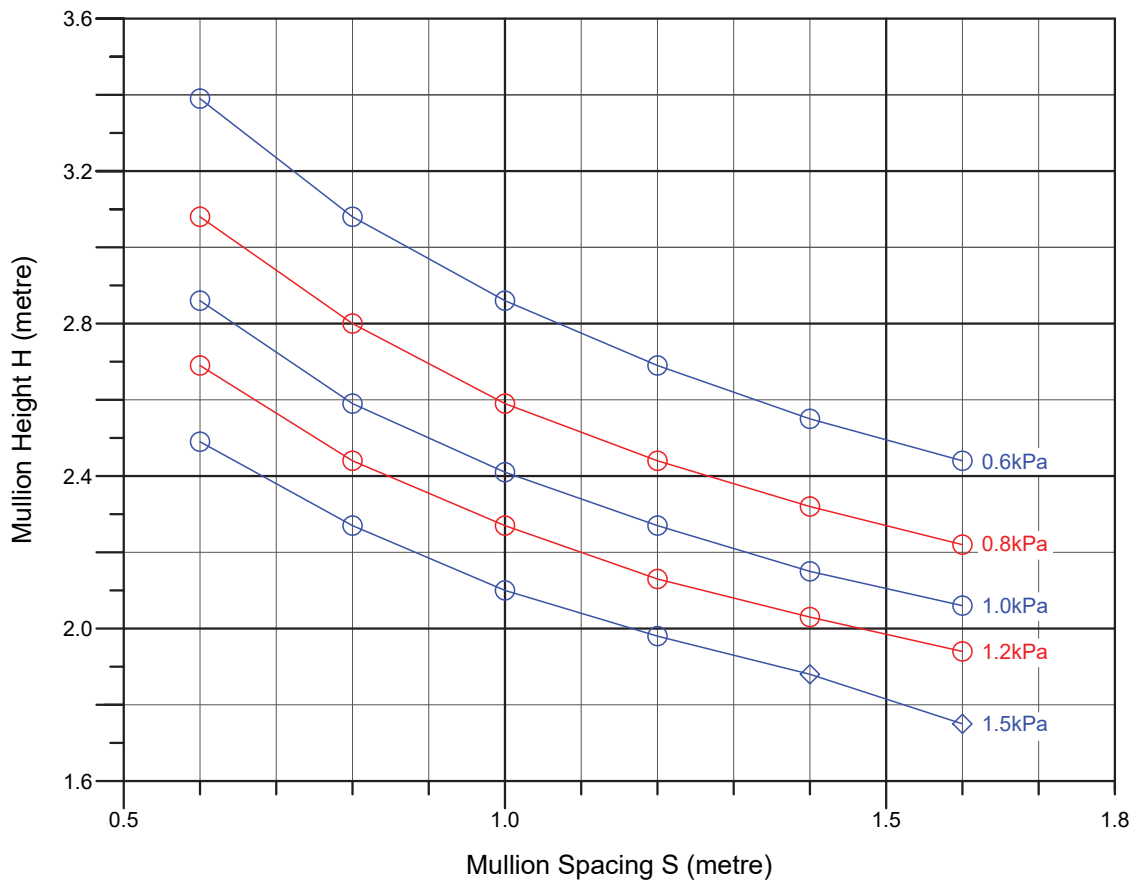
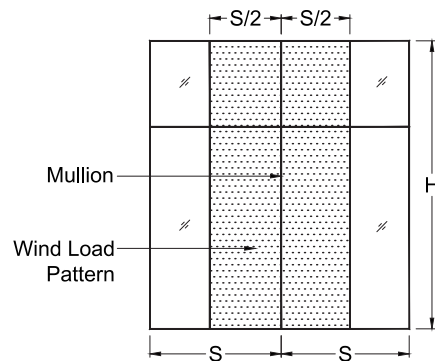
MULLION SECTION : 46891
Alum. alloy : 6063-T5
Moment of inertia I_{xx} : 45.5 cm⁴
Mod. of section Z_{xx} : 11.0 cm³



Note:
 Suffix xx denotes axis perpendicular to wind load

Mod. of elasticity : 70×10^9 N/m²
Design bend. stress : 1.25 x 67 MPa
Deflection limit : $\text{Span}/175$, up to max. 20mm
Nature of anchor : Simply supported at both ends

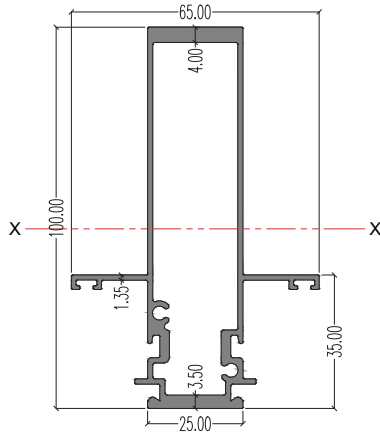
Typical configuration of window:



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

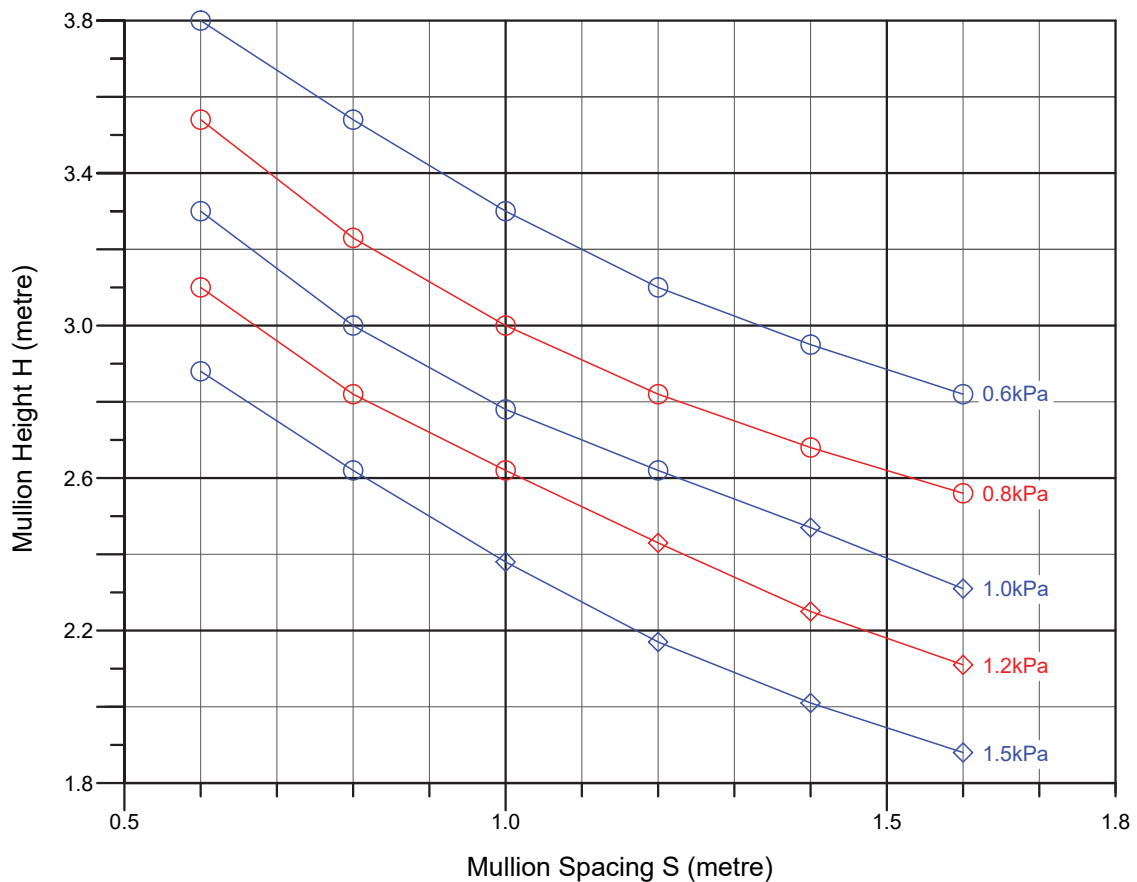
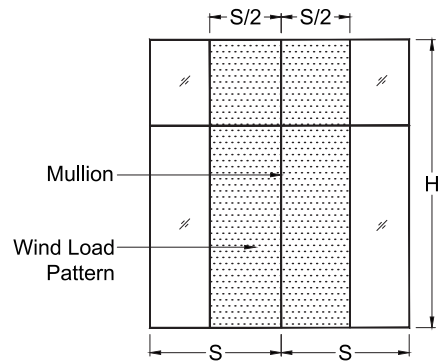
MULLION SECTION : 46894
 Alum. alloy : 6063-T5
 Moment of inertia I_{xx} : 70.1 cm⁴
 Mod. of section Z_{xx} : 12.7 cm³



Note:
 Suffix xx denotes axis perpendicular to wind load

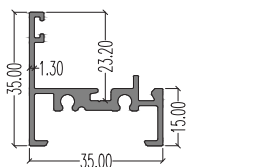
Mod. of elasticity : 70×10^9 N/m²
 Design bend. stress : 1.25×67 MPa
 Deflection limit : Span_{175} , up to max. 20mm
 Nature of anchor : Simply supported at both ends

Typical configuration of window:

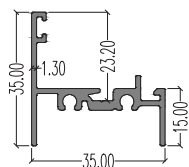


Note:
 ○ Deflection limit governs , ◇ Design bending stress governs
 :- Buckling has not been taken into account in this chart
 :- This windload chart is solely for reference only

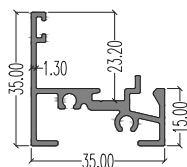
Sectional Details



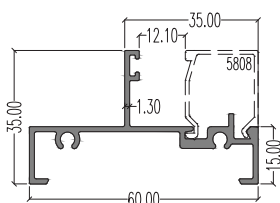
46868 (Outer)
LW : 0.517 kg/m
AP : 231.99 mm
(46863)



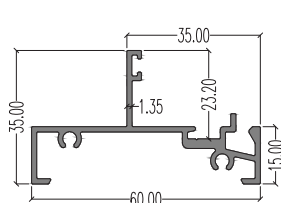
46681 (Outer)
LW : 0.466 kg/m
AP : 224.82 mm



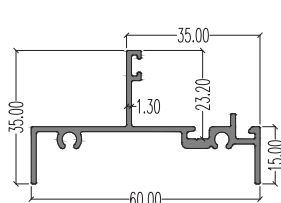
46870 (Bottom Outer)
LW : 0.538 kg/m
AP : 259.18 mm
(46865)



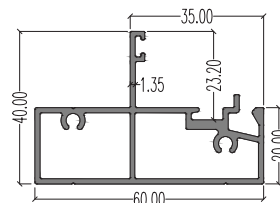
46872 (Outer)
LW : 0.573 kg/m
AP : 290.06 mm



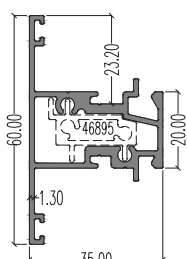
46893 (Bottom Outer)
LW : 0.609 kg/m
AP : 305.54 mm



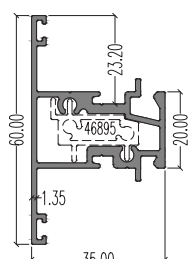
46682 (Outer)
LW : 0.540 kg/m
AP : 279.29 mm



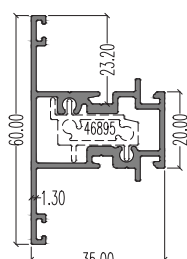
46887 (Bottom Outer)
LW : 0.900 kg/m
AP : 248.19 mm



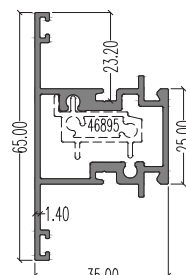
46871 (Transom)
LW : 0.826 kg/m
AP : 273.17 mm
Ixx : 4.598 cm⁴
Iyy : 4.452 cm⁴
(46861)



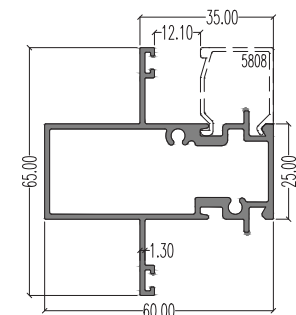
46889 (Transom)
LW : 0.844 kg/m
AP : 272.82 mm
Ixx : 4.650 cm⁴
Iyy : 4.547 cm⁴



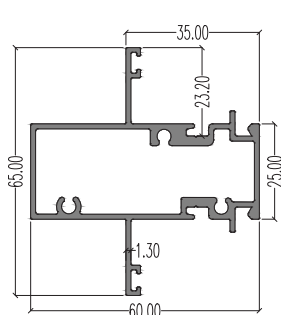
46680 (Mullion)
LW : 0.796 kg/m
AP : 264.98 mm
Ixx : 4.614 cm⁴
Iyy : 4.264 cm⁴



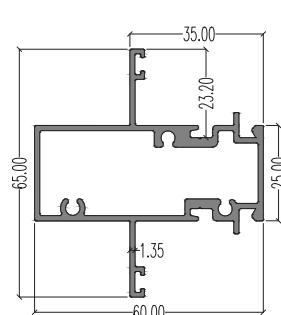
46875 (Mullion)
LW : 0.906 kg/m
AP : 268.46 mm
Ixx : 6.574 cm⁴
Iyy : 5.006 cm⁴
(5388)



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

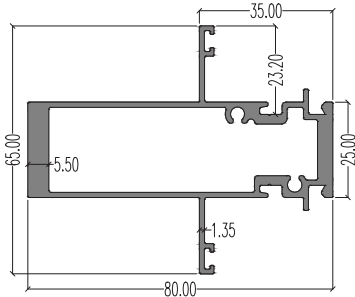


46874 (Mullion)
LW : 1.069 kg/m
AP : 319.03 mm
Ixx : 7.409 cm⁴
Iyy : 12.81 cm⁴
(46864)

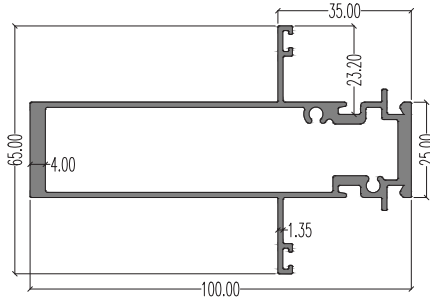


46890 (Mullion)
LW : 1.091 kg/m
AP : 318.83 mm
Ixx : 7.516 cm⁴
Iyy : 13.13 cm⁴

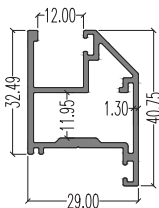
Sectional Details



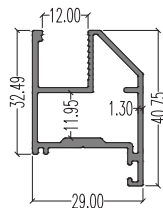
46891 (Mullion)
 LW : 1.550 kg/m
 AP : 358.83 mm
 Ixx : 8.587 cm⁴
 Iyy : 45.52 cm⁴



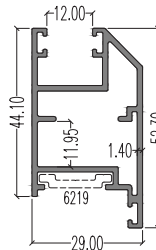
46894 (Mullion)
 LW : 1.586 kg/m
 AP : 398.39 mm
 Ixx : 9.196 cm⁴
 Iyy : 70.08 cm⁴



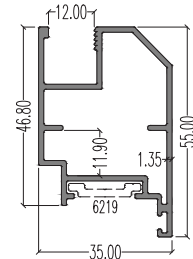
46866 (Inner)
 LW : 0.604 kg/m
 AP : 186.37 mm



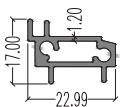
46683 (Inner)
 LW : 0.571 kg/m
 AP : 179.88 mm



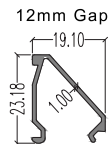
46867 (Inner)
 LW : 0.723 kg/m
 AP : 239.20 mm



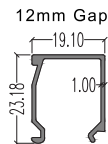
46892 (Inner)
 LW : 0.743 kg/m
 AP : 235.98 mm



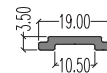
46895 (Bracket)
 LW : 0.273 kg/m
 AP : 92.23 mm
 Ixx : 0.143 cm⁴
 Iyy : 0.537 cm⁴



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



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



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

Accessories

Handles



CH200 Single-Point



MPH3903 Multi-Point
Single Fork

Friction Stays



12" SS304
Top Hung



8", 12", 16" SS304
Side Hung

Catches



MP930S

Corner Bracket



MP580B
(25.5mm)

Restrictor Bar



CB04

Push Rod



MP941KS (L22mm)

Lockcam



MP950
(10mm, 12mm)

Weather Strips



PLG 2210
Suntoprene (Inner)
(153m / roll)



PLG 2322
Suntoprene (Outer)
(153m / roll)



**LB
ALUMINIUM
BERHAD**
198501006093 (138535-V)

Now available at:



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CERTIFIED ISO 14001:2015
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