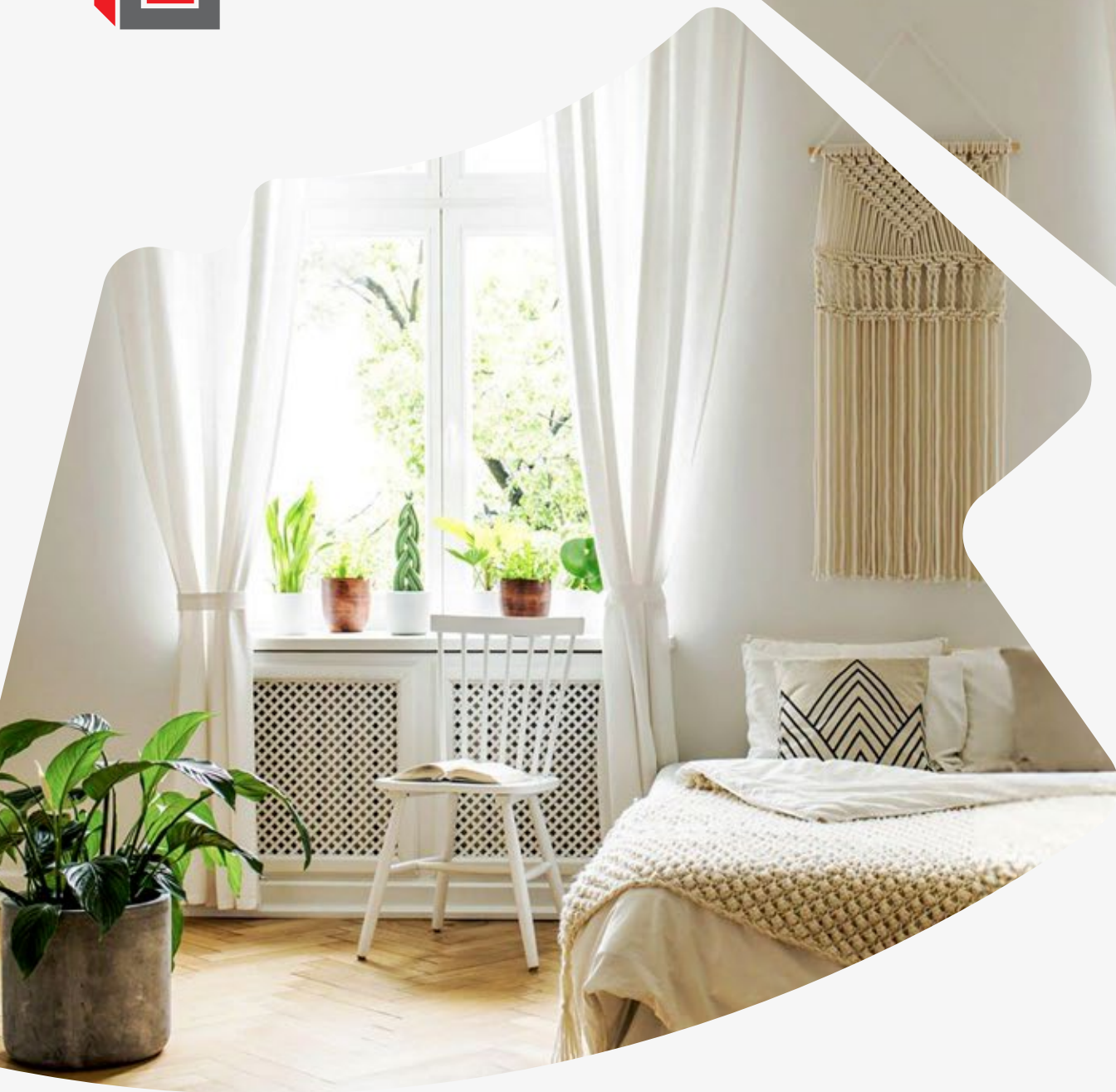




ALBENestra®



Performance Casement Window **SCW03**

Designed and tested according to MS832:2022



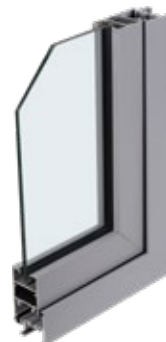
**LB
ALUMINIUM
BERHAD**
198501006093 (138535-V)

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

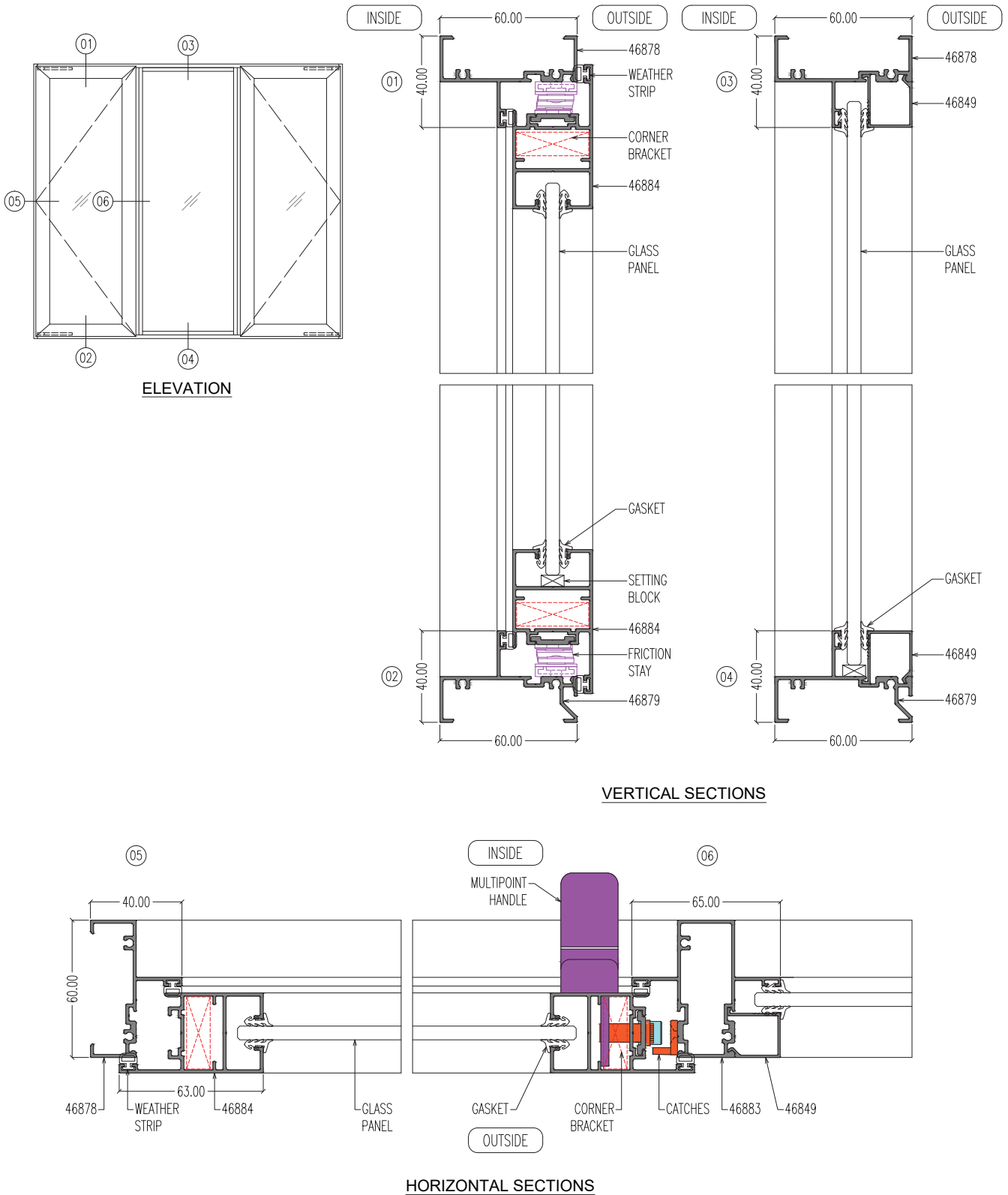
This casement window suite had been tested in compliance to MS 832:2022 performance test procedure for:

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

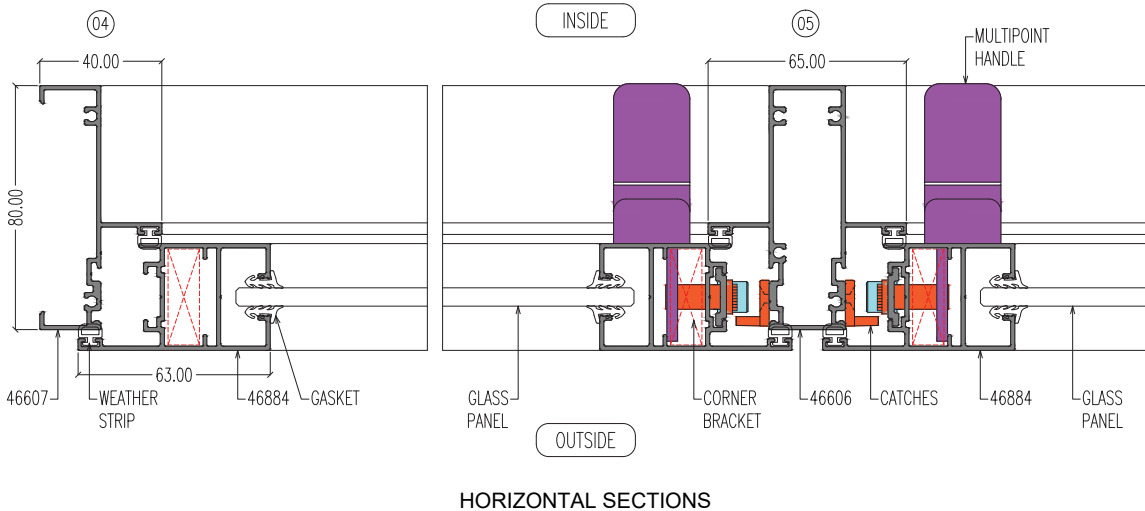
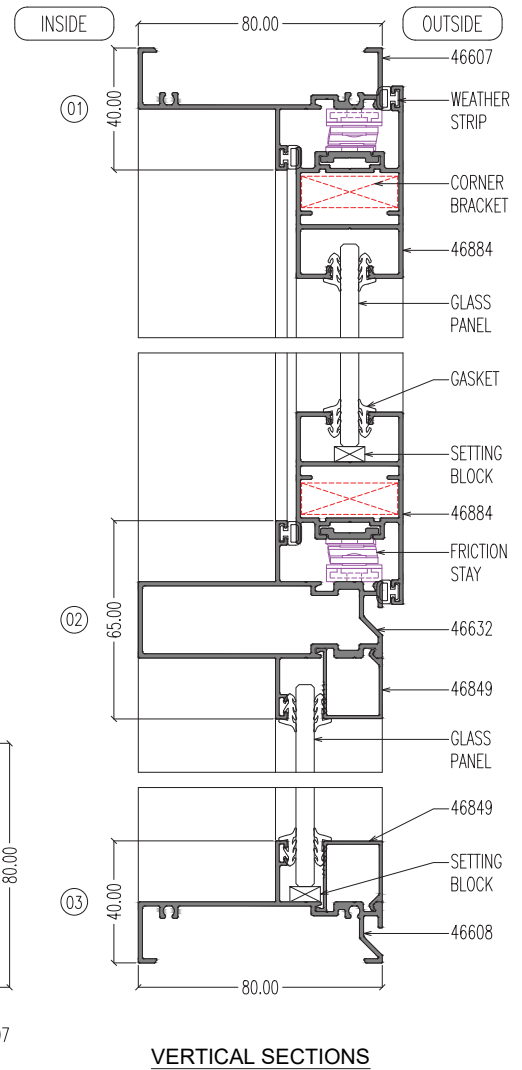
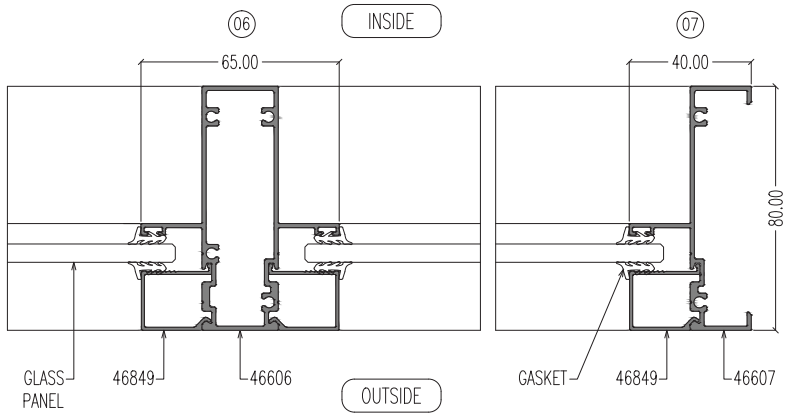
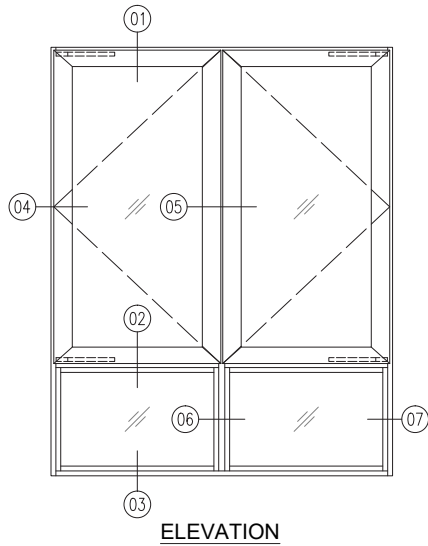
Note: Test report available upon request.



Typical Assembly Details

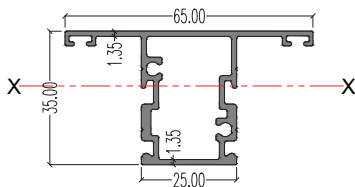


Typical Assembly Details



Wind Load Chart

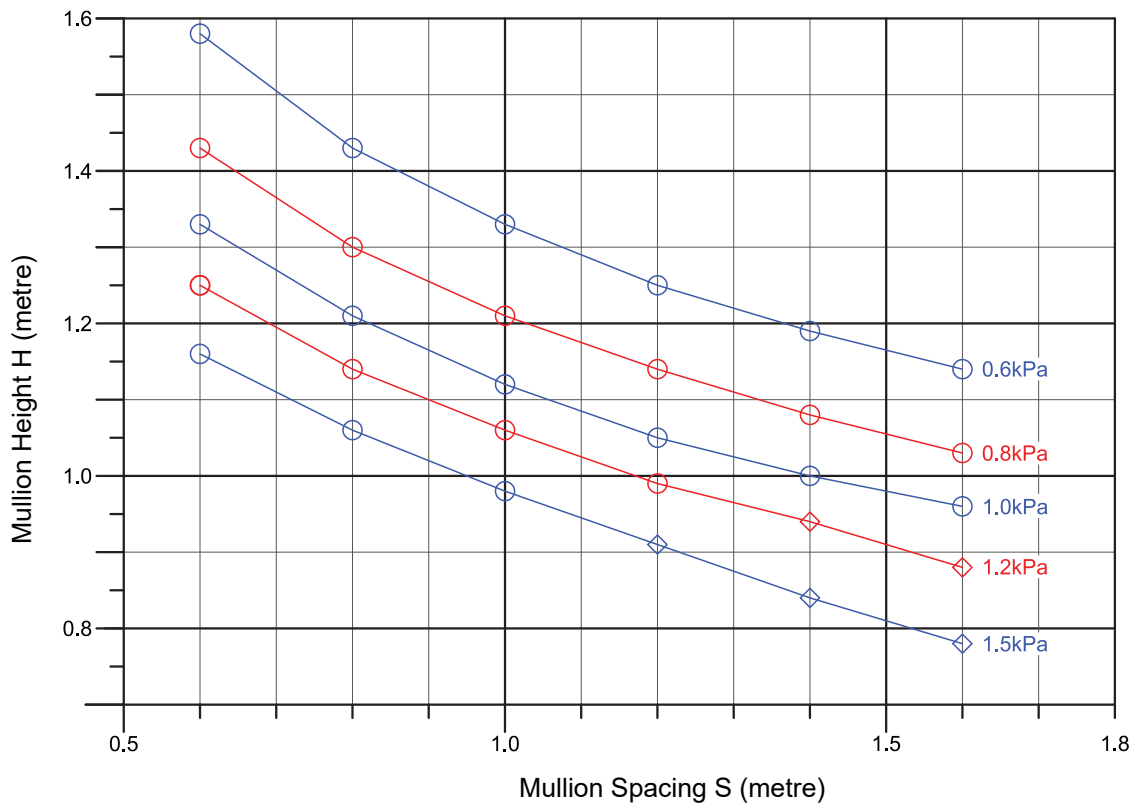
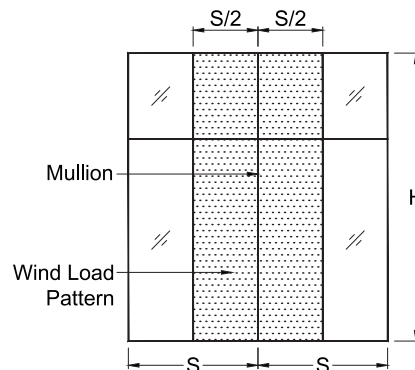
MULLION SECTION : 46882
 Alum. alloy : 6063-T5
 Moment of inertia I_{xx} : 4.6 cm^4
 Mod. of section Z_{xx} : 2.2 cm^3



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

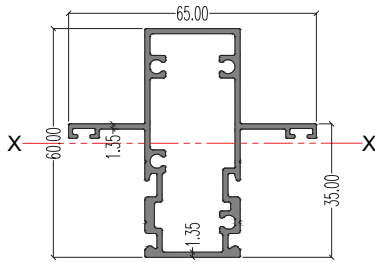
Typical configuration of window:



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

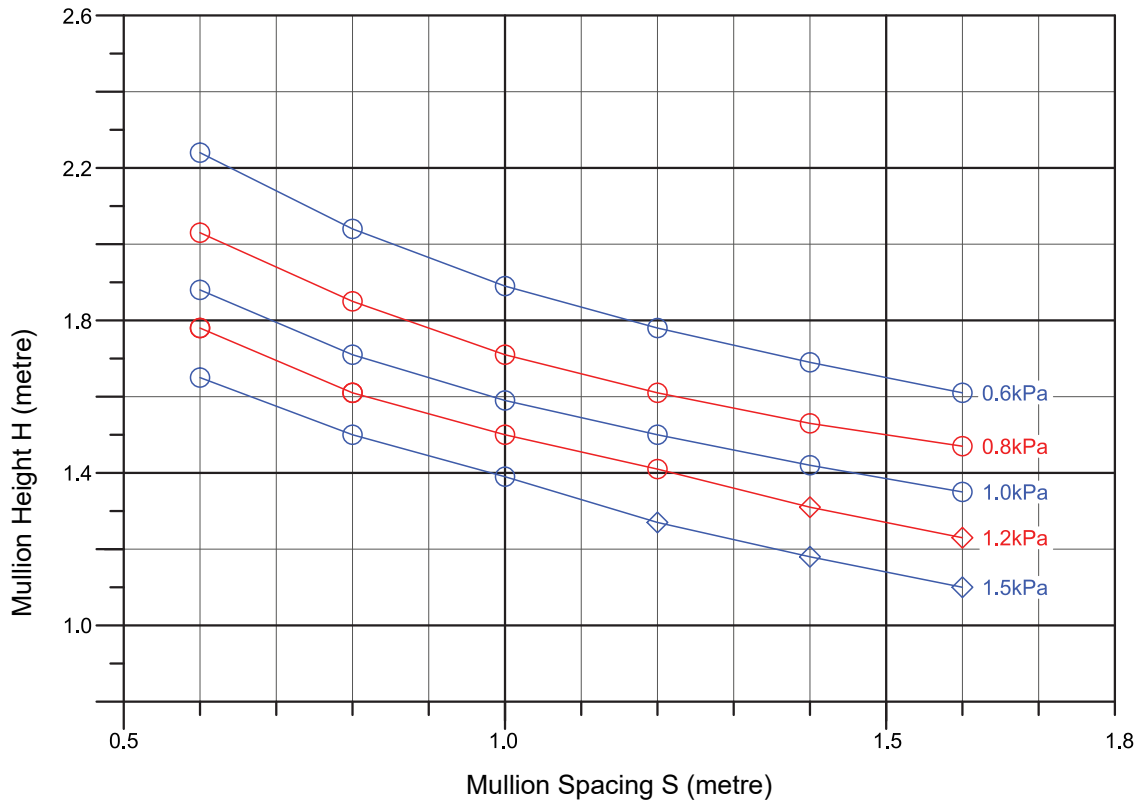
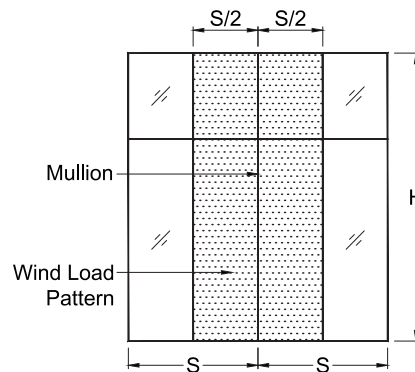
MULLION SECTION : 46631
 Alum. alloy : 6063-T5
 Moment of inertia I_{xx} : 13.1 cm^4
 Mod. of section Z_{xx} : 4.3 cm^3



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

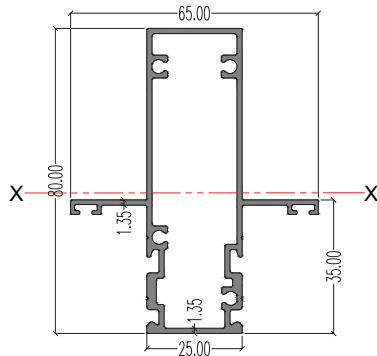
Typical configuration of window:



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

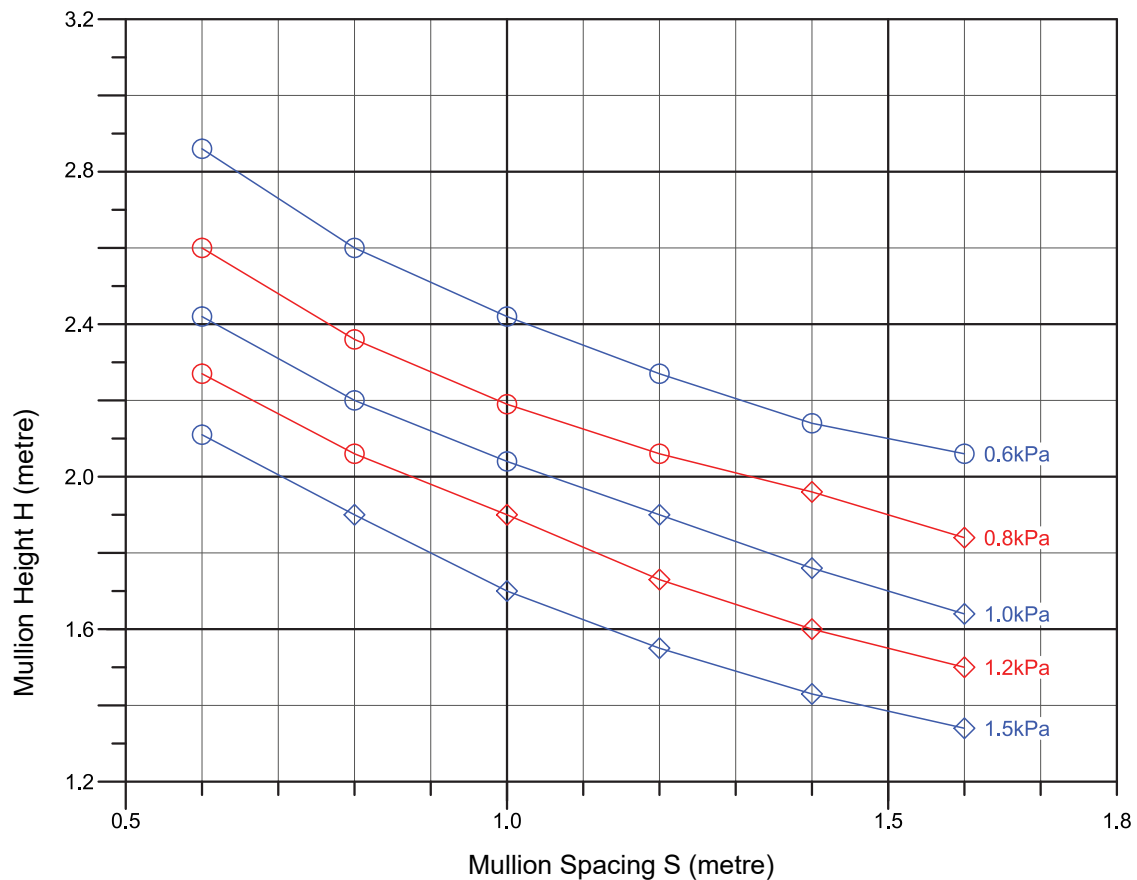
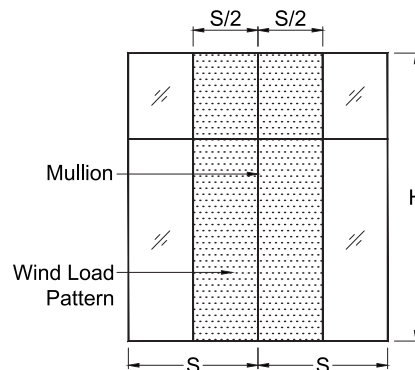
MULLION SECTION : 46606
Alum. alloy : 6063-T5
Moment of inertia I_{xx} : 27.5 cm^4
Mod. of section Z_{xx} : 6.4 cm^3



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 : $\frac{\text{Span}}{175}$, up to max. 20mm
Nature of anchor : Simply supported at both ends

Typical configuration of window:

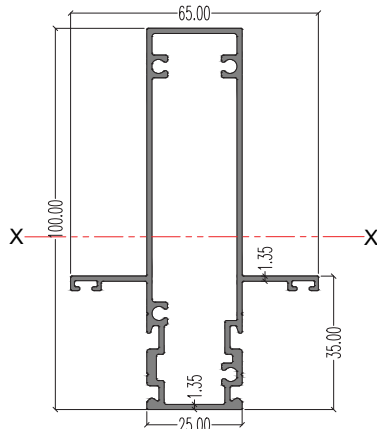


Note:
 ○ Deflection limit governs , ◇ Design bending stress governs
 :- Buckling has not been taken into account in this chart
 :- This windload chart is solely for reference only



Wind Load Chart

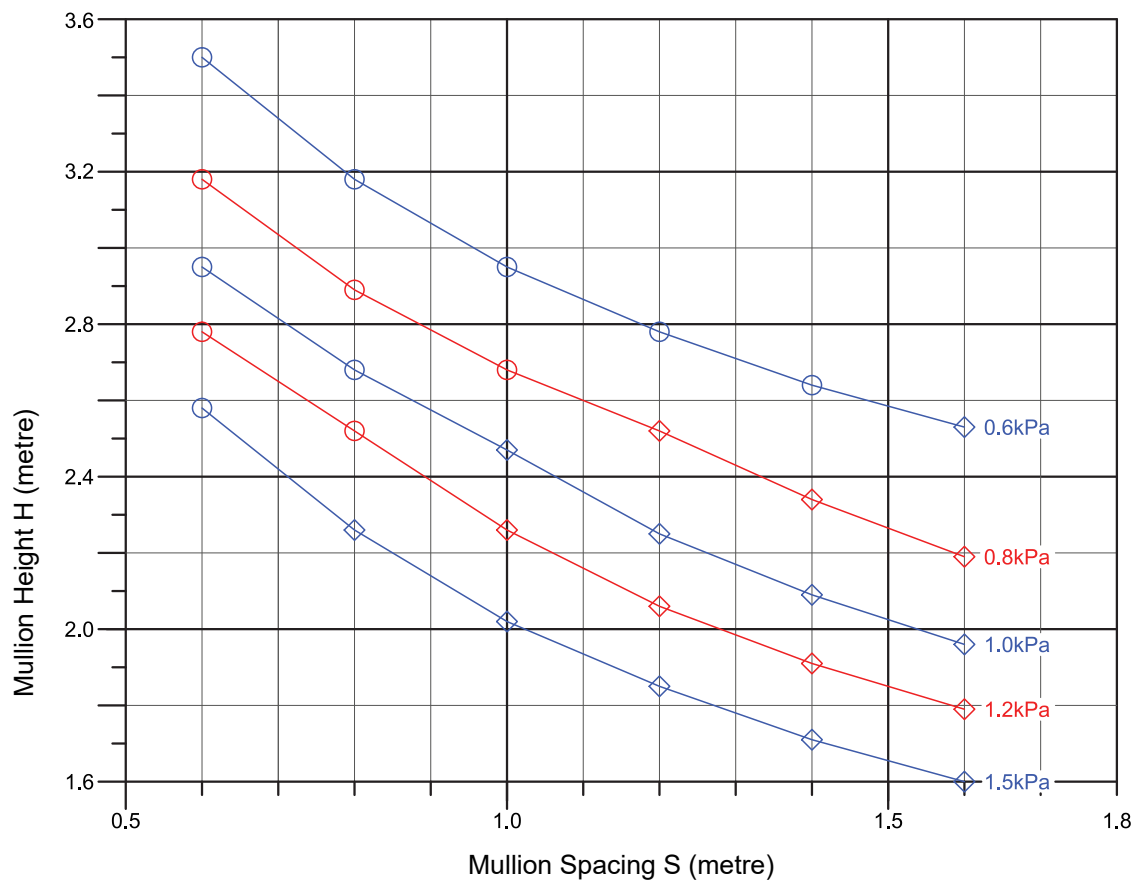
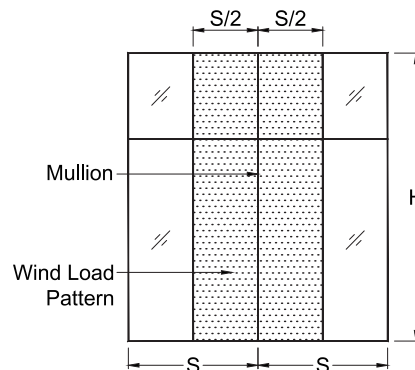
MULLION SECTION : 46609
 Alum. alloy : 6063-T5
 Moment of inertia I_{xx} : 50.2 cm⁴
 Mod. of section Z_{xx} : 9.1 cm³



Note:
 Suffix xx denotes axis perpendicular to wind load

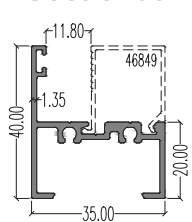
Mod. of elasticity : 70 x 10⁹ N/m²
 Design bend. stress : 1.25 x 67 MPa
 Deflection limit : $\frac{Span}{175}$, up to max. 20mm
 Nature of anchor : Simply supported at both ends

Typical configuration of window:

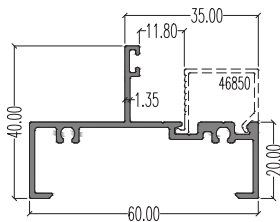


Note:
 ○ Deflection limit governs, ◇ Design bending stress governs
 :- Buckling has not been taken into account in this chart
 :- This windload chart is solely for reference only

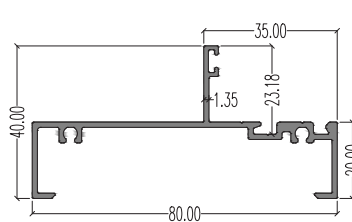
Sectional Details



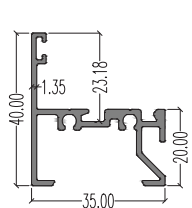
46876 (Outer)
LW : 0.489 kg/m
AP : 254.64 mm



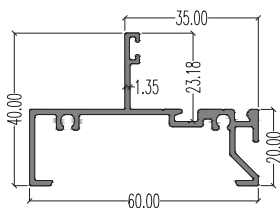
46878 (Outer)
LW : 0.590 kg/m
AP : 309.87 mm



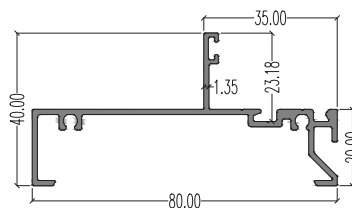
46607 (Outer)
LW : 0.663 kg/m
AP : 349.87 mm



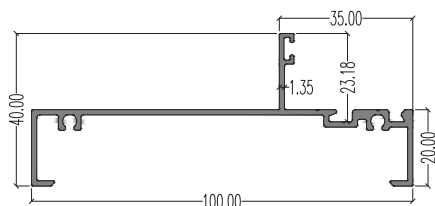
46877 (Bottom Outer)
LW : 0.510 kg/m
AP : 265.73 mm



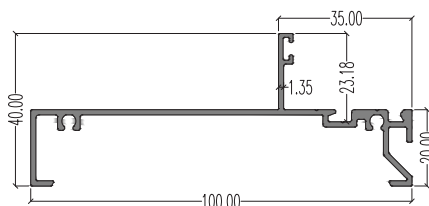
46879 (Bottom Outer)
LW : 0.613 kg/m
AP : 321.15 mm



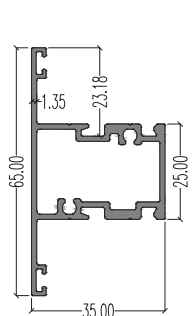
46608 (Bottom Outer)
LW : 0.687 kg/m
AP : 361.16 mm



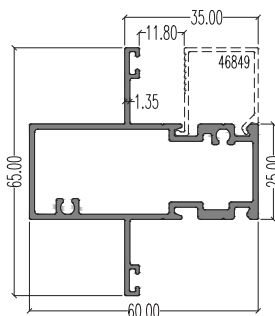
46610 (Outer)
LW : 0.736 kg/m
AP : 389.87 mm



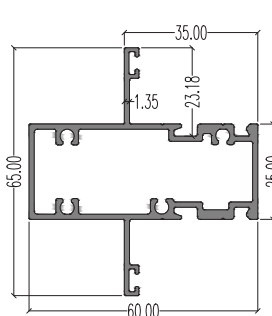
46611 (Bottom Outer)
LW : 0.758 kg/m
AP : 402.22 mm



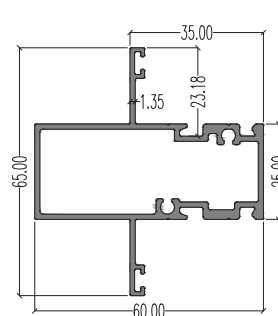
46882 (Mullion)
LW : 0.779 kg/m
AP : 257.43 mm
Ixx : 6.021 cm⁴
Iyy : 4.675 cm⁴



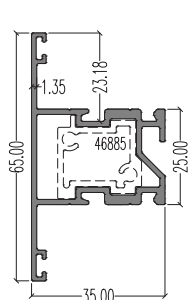
46883 (Mullion)
LW : 0.978 kg/m
AP : 306.82 mm
Ixx : 7.000 cm⁴
Iyy : 12.57 cm⁴



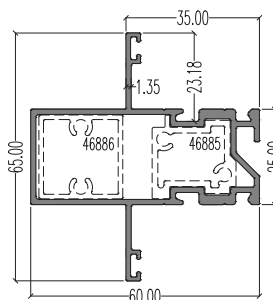
46631 (Mullion)
LW : 1.030 kg/m
AP : 306.63 mm
Ixx : 7.177 cm⁴
Iyy : 13.12 cm⁴



46634 (Mullion)
LW : 0.965 kg/m
AP : 306.71 mm
Ixx : 6.972 cm⁴
Iyy : 12.01 cm⁴

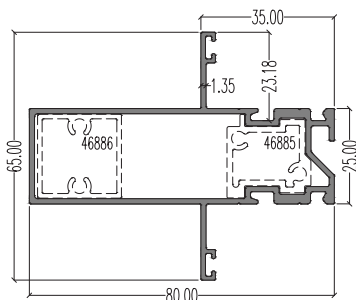


46880 (Transom)
LW : 0.777 kg/m
AP : 274.28 mm
Ixx : 5.976 cm⁴
Iyy : 4.638 cm⁴



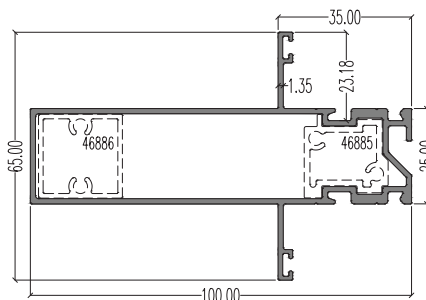
46881 (Transom)
LW : 0.961 kg/m
AP : 323.76 mm
Ixx : 6.923 cm⁴
Iyy : 12.12 cm⁴

Sectional Details



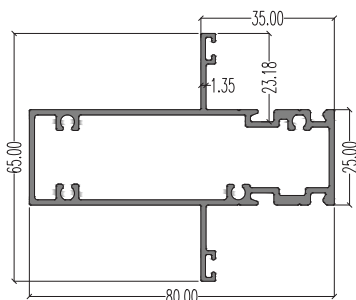
46632 (Transom)

LW : 1.108 kg/m
AP : 362.42 mm
Ixx : 7.680 cm⁴
Iyy : 24.99 cm⁴



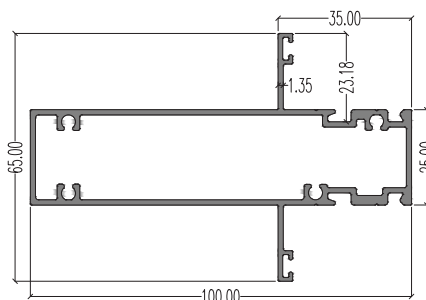
46633 (Transom)

LW : 1.254 kg/m
AP : 402.42 mm
Ixx : 8.436 cm⁴
Iyy : 45.47 cm⁴



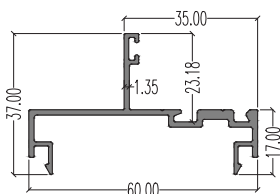
46606 (Mullion)

LW : 1.176 kg/m
AP : 346.63 mm
Ixx : 7.933 cm⁴
Iyy : 27.57 cm⁴



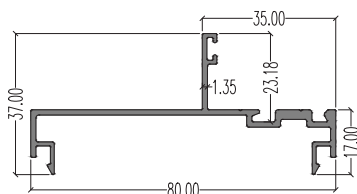
46609 (Mullion)

LW : 1.322 kg/m
AP : 386.63 mm
Ixx : 8.689 cm⁴
Iyy : 50.28 cm⁴



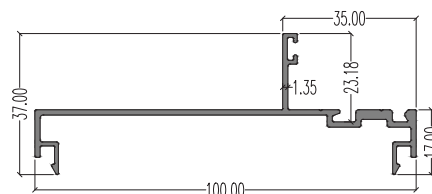
46600 (Mullion)

LW : 0.539 kg/m
AP : 285.73 mm
Ixx : 1.083 cm⁴
Iyy : 7.613 cm⁴



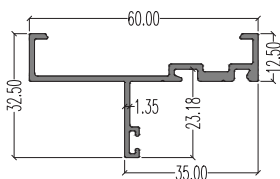
46602 (Mullion)

LW : 0.612 kg/m
AP : 325.73 mm
Ixx : 1.085 cm⁴
Iyy : 15.53 cm⁴



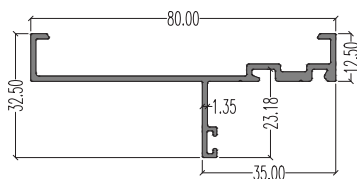
46604 (Mullion)

LW : 0.685 kg/m
AP : 365.73 mm
Ixx : 1.086 cm⁴
Iyy : 27.71 cm⁴



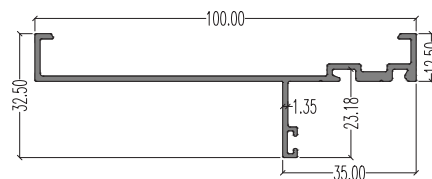
46601 (Mullion)

LW : 0.492 kg/m
AP : 249.93 mm
Ixx : 0.871 cm⁴
Iyy : 6.608 cm⁴



46603 (Mullion)

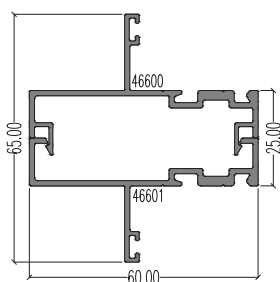
LW : 0.566 kg/m
AP : 289.93 mm
Ixx : 0.871 cm⁴
Iyy : 13.49 cm⁴



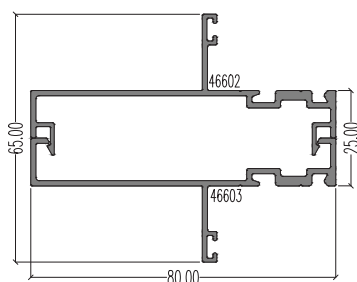
46605 (Mullion)

LW : 0.639 kg/m
AP : 329.93 mm
Ixx : 0.872 cm⁴
Iyy : 24.30 cm⁴

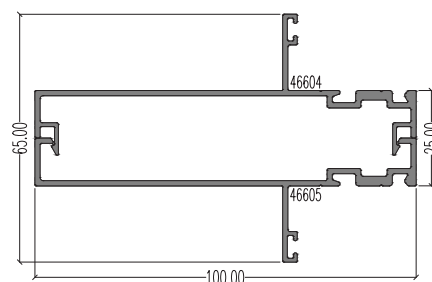
Assembly of 46600 & 46601



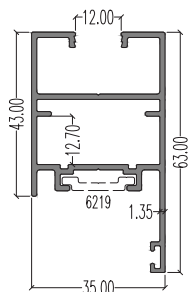
Assembly of 46602 & 46603



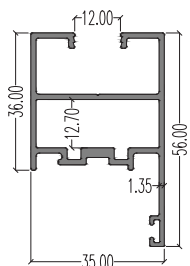
Assembly of 46604 & 46605



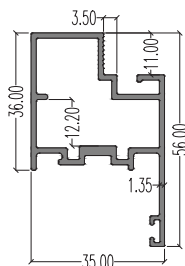
Sectional Details



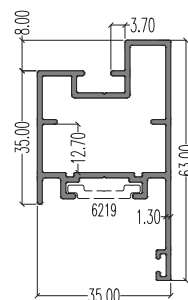
46884 (Inner)
LW : 0.828 kg/m
AP : 333.99 mm



46897 (Inner)
LW : 0.762 kg/m
AP : 297.53 mm

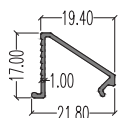


46899 (Inner)
LW : 0.722 kg/m
AP : 239.20 mm



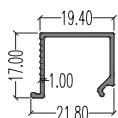
46898 (Inner)
LW : 0.778 kg/m
AP : 272.93 mm

12mm Gap



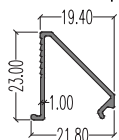
46852 (Beading)
LW : 0.134 kg/m
AP : 98.02 mm

12mm Gap



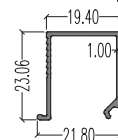
46850 (Beading)
LW : 0.154 kg/m
AP : 113.23 mm

12mm Gap



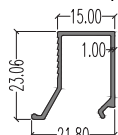
46230 (Beading)
LW : 0.161 kg/m
AP : 118.69 mm

12mm Gap

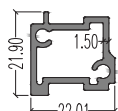


46849 (Beading)
LW : 0.187 kg/m
AP : 137.46 mm

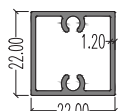
16mm Gap



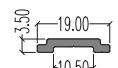
46630 (Beading)
LW : 0.176 kg/m
AP : 131.04 mm



46885 (Bracket)
LW : 0.388 kg/m
AP : 92.08 mm
(For 46880, 46881,
46632 & 46633)



46886 (Bracket)
LW : 0.332 kg/m
AP : 87.49 mm
(For 46881, 46632 &
46633)



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

Accessories

Handles



CH100 Single-Point



CH200 Single-Point



MPH3903 Multi-Point
Single Fork



MPH3707A Multi-Point
Single/Double Fork

Catches



MP930S

Weather Strip



PLG 2474
Suntoprene
(153m/roll)

Friction Stays



12" SS304
Top Hung



8", 12", 16" SS304
Side Hung

Push Rod



MP941KS (L22mm)

Corner Bracket



MP580B
(31.5mm)

Lockcam



MP950
(10mm, 12mm)

Restrictor Bar



CB04



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

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CERT NO: QMS 00216



CERTIFIED ISO 14001:2015
CERT NO: EMS 01118