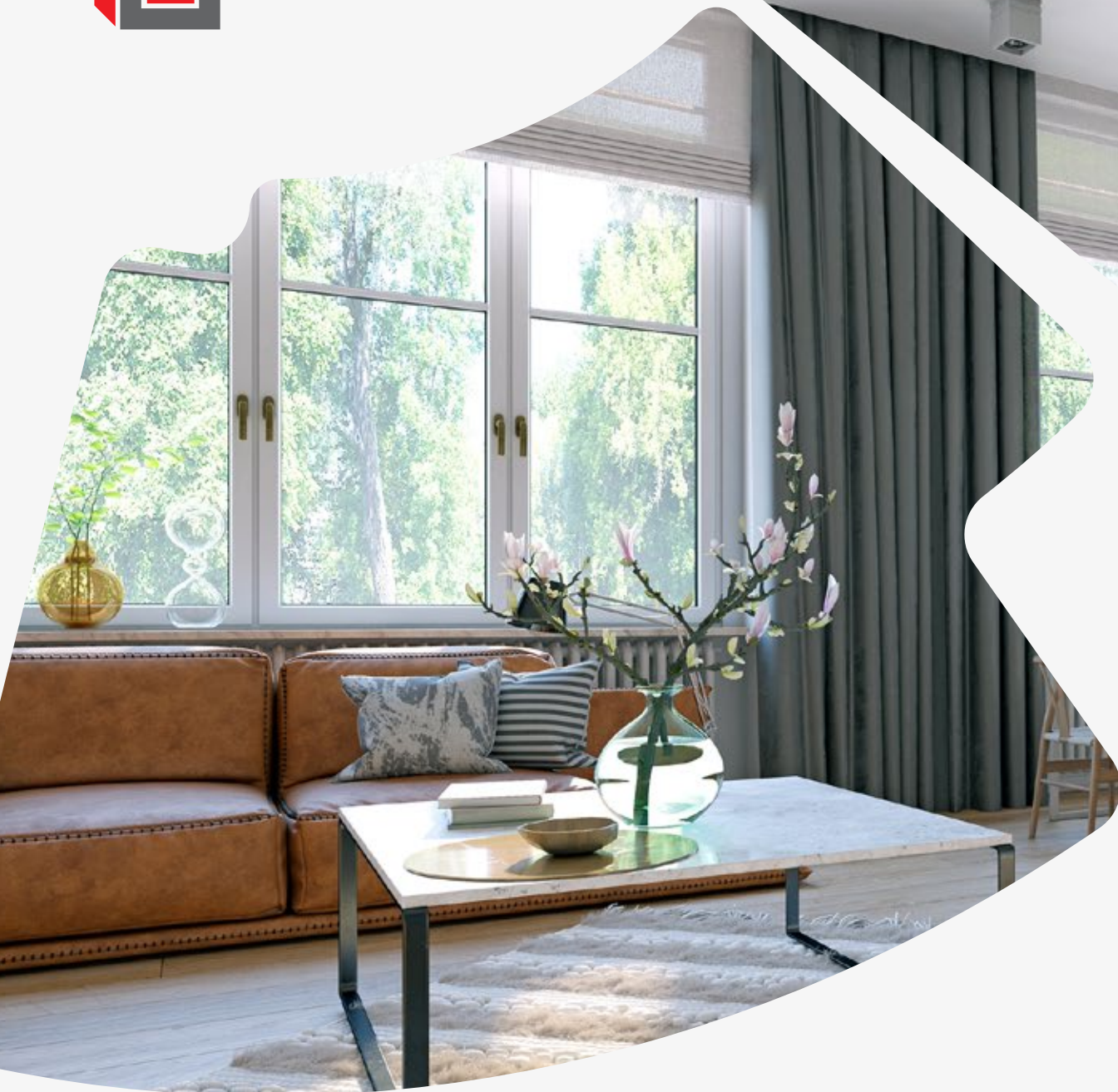




ALBENestra®



Performance Casement Window **PCW02**

Designed and tested according to MS832:2022



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

Product

ALBENestra PCW02

Typical Technical Features

Nominal Wall Thickness	:	1.35mm
Standard Frame Depth	:	40.00mm
Mullion Depth	:	40.00mm, 80.00mm & 100.00mm
Glazing Gap	:	10.00mm - 34.00mm
Locking System	:	Single-point & Multipoint
Surface Finish	:	Overlap
Hinges	:	Friction Stay
Corner Joints	:	Mitre Joints With Brackets

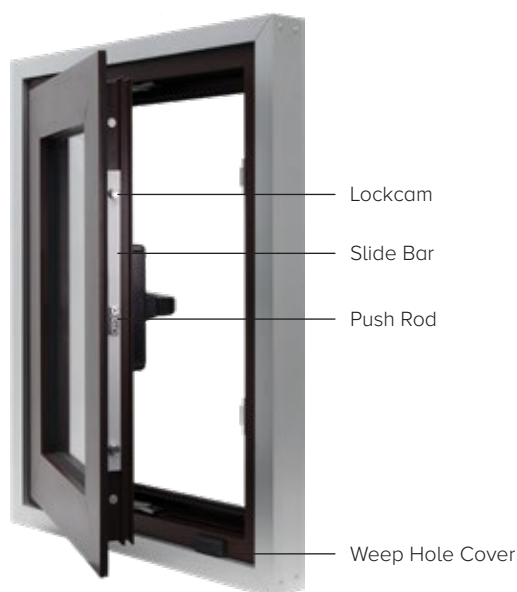


Performance Test

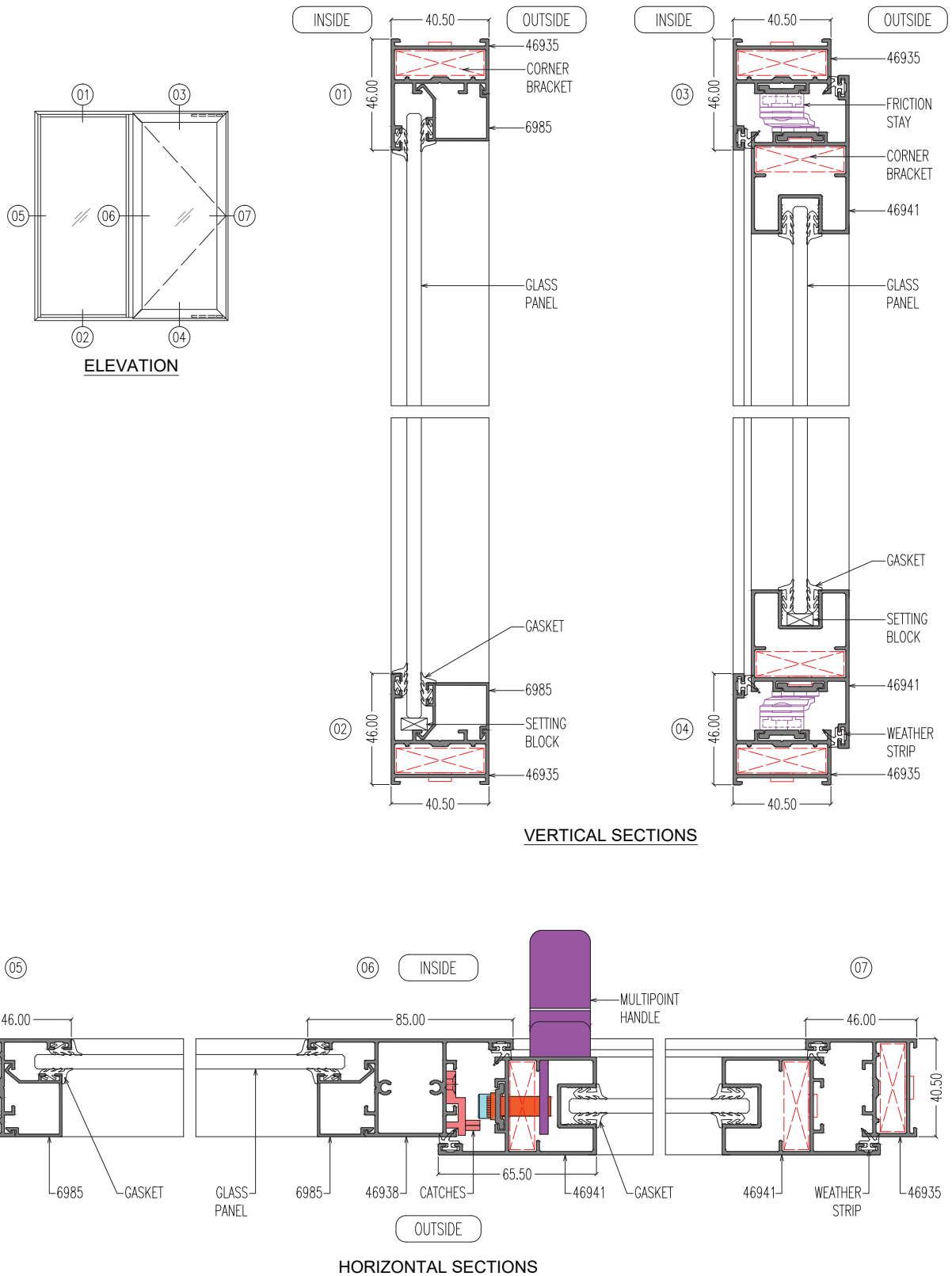
This casement window suite had been tested in compliance to MS 832:2022 performance test procedure for:

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

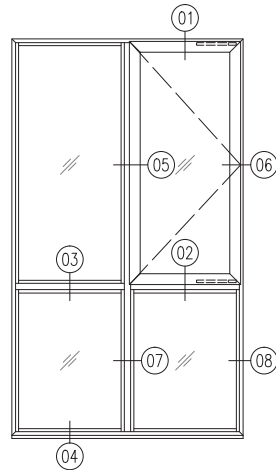
Note: Test report available upon request.



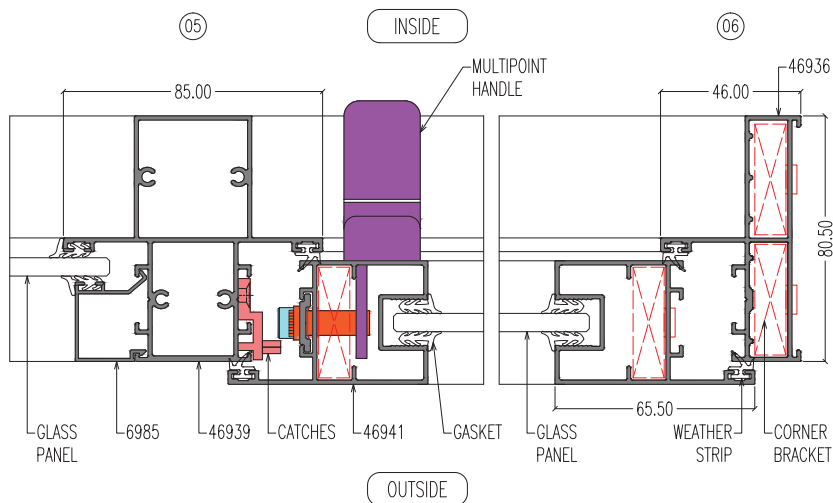
Typical Assembly Details



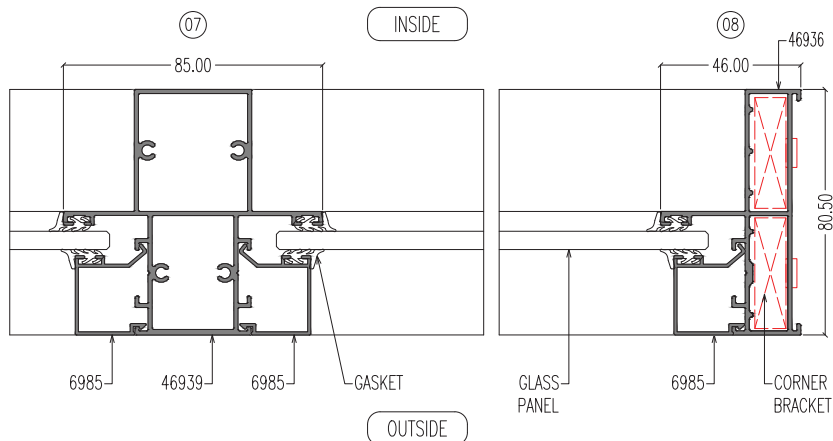
Typical Assembly Details



ELEVATION

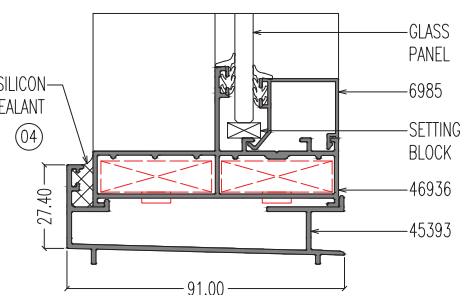
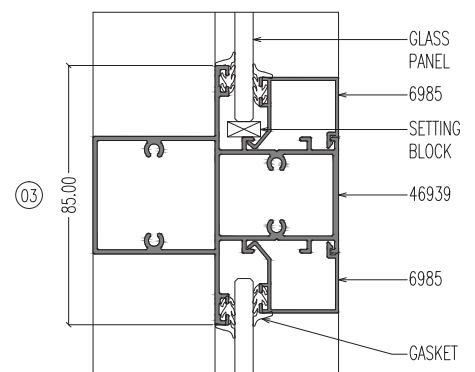
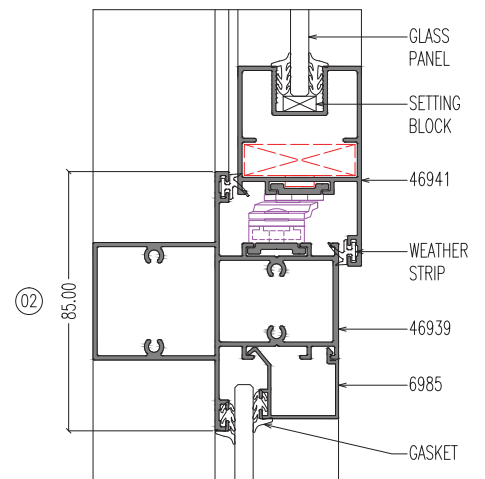
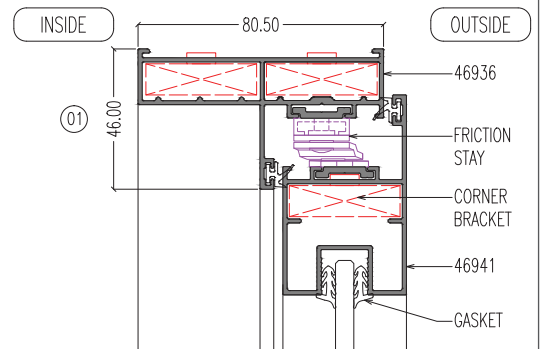


OUTSIDE



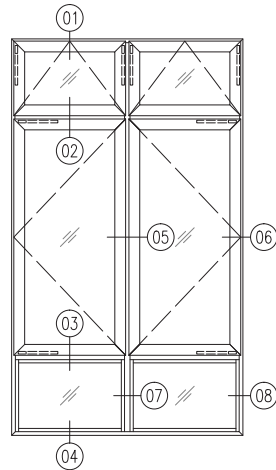
OUTSIDE

HORIZONTAL SECTIONS

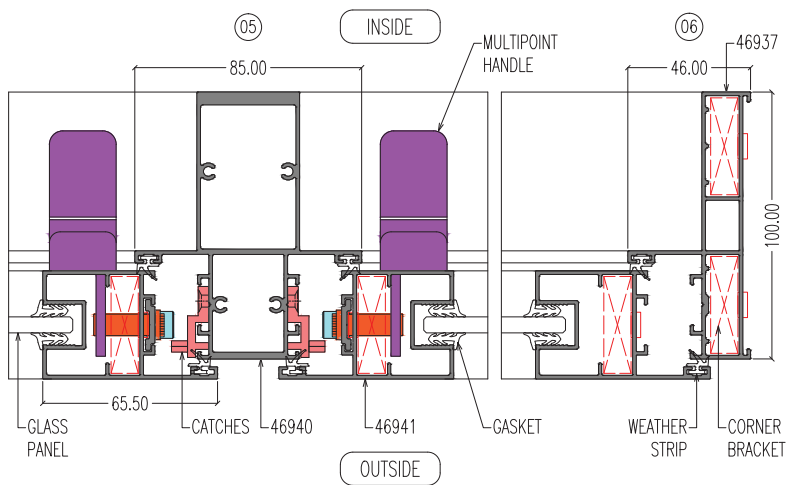


VERTICAL SECTIONS

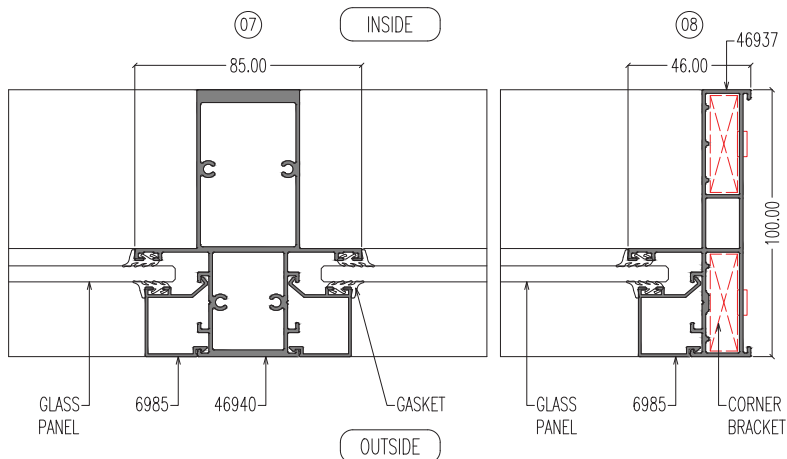
Typical Assembly Details



ELEVATION

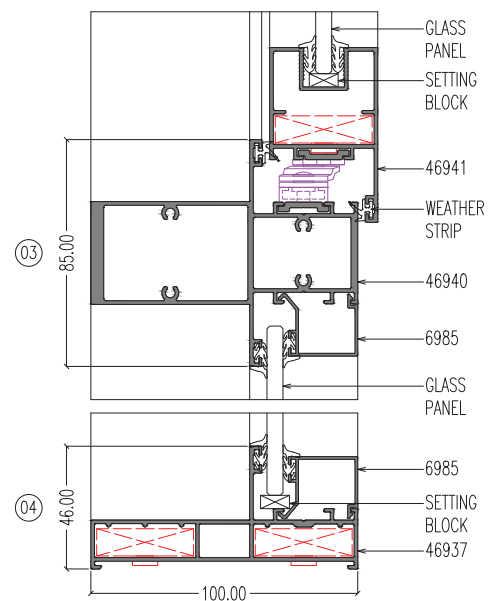
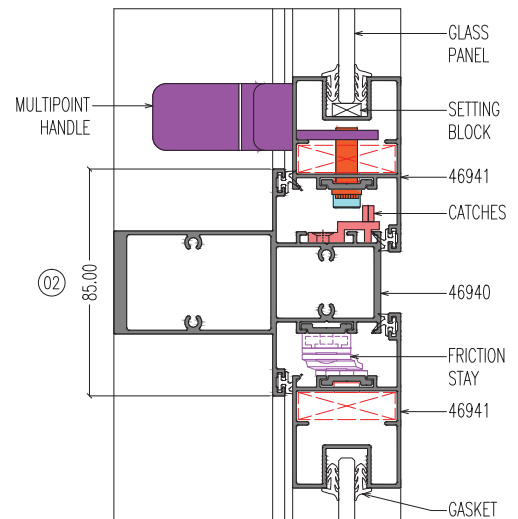
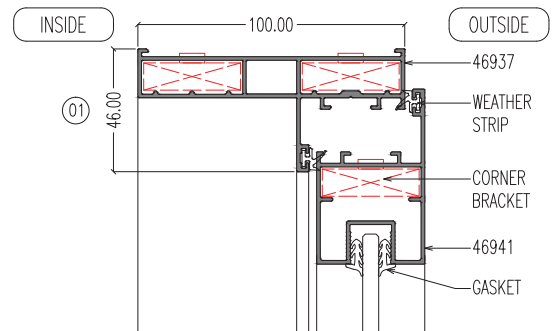


OUTSIDE



OUTSIDE

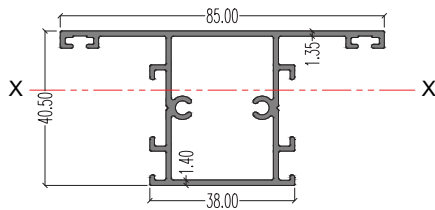
HORIZONTAL SECTIONS



VERTICAL SECTIONS

Wind Load Chart

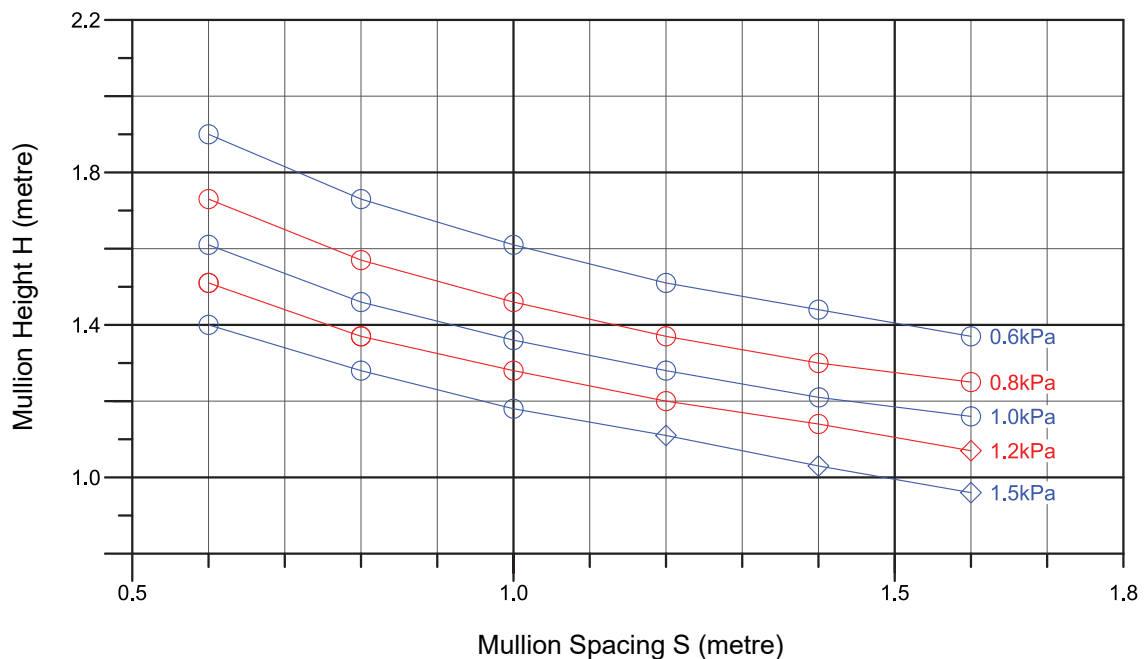
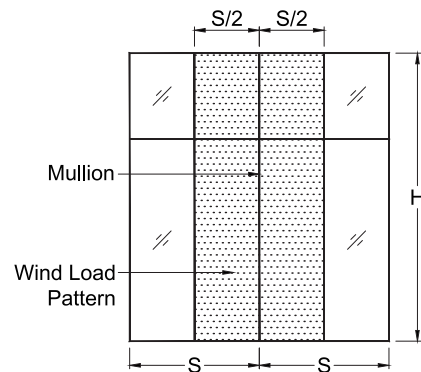
MULLION SECTION : 46938
 Alum. alloy : 6063-T5
 Moment of inertia I_{xx} : 8.1 cm^4
 Mod. of section Z_{xx} : 3.3 cm^3



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

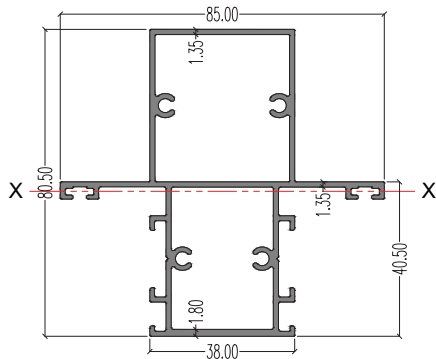
Typical configuration of window:



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

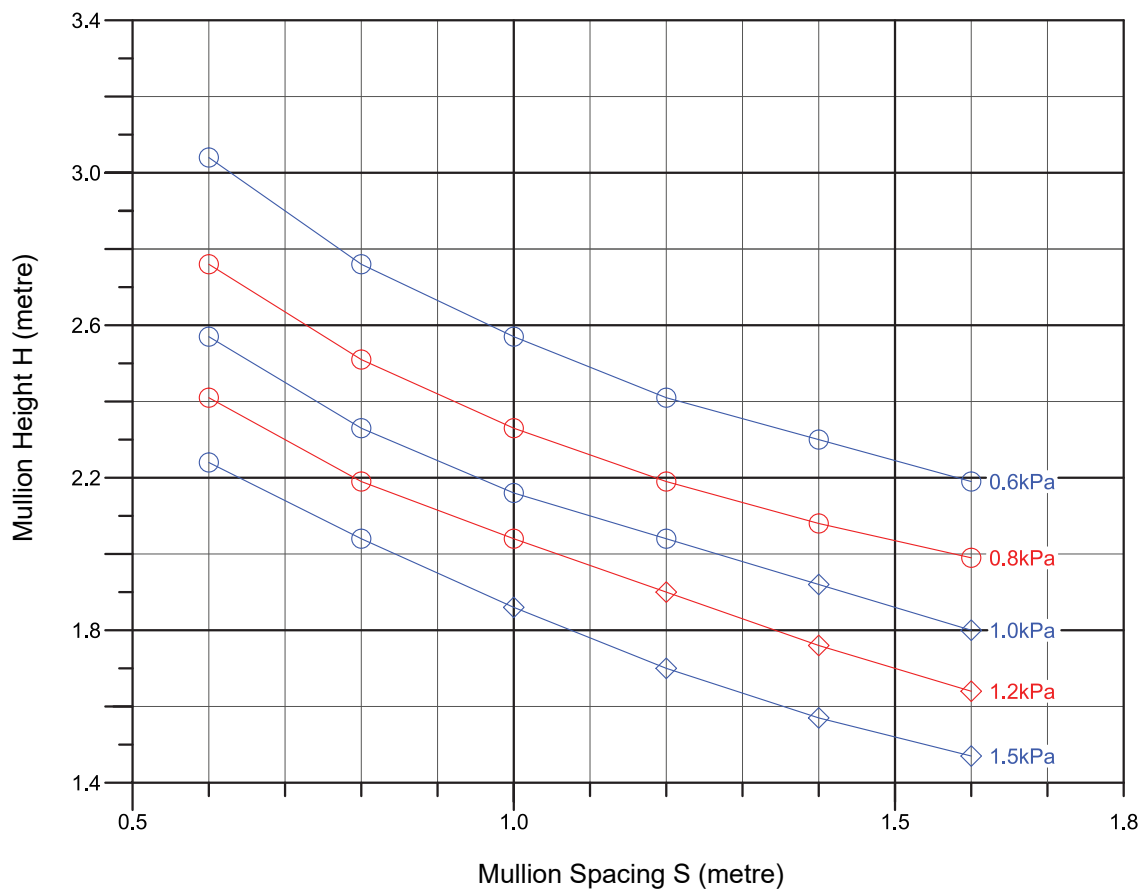
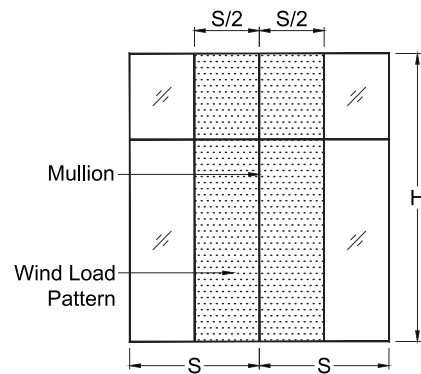
MULLION SECTION : 46939
 Alum. alloy : 6063-T5
 Moment of inertia I_{xx} : 33.0 cm^4
 Mod. of section Z_{xx} : 7.7 cm^3



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

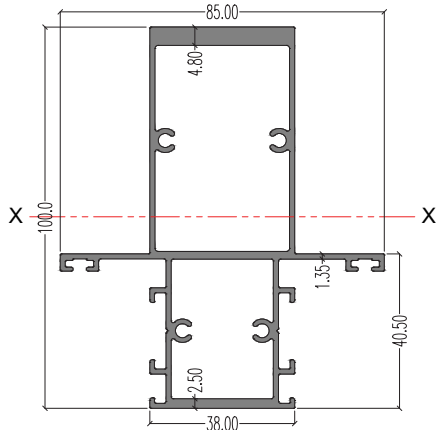
Typical configuration of window:



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

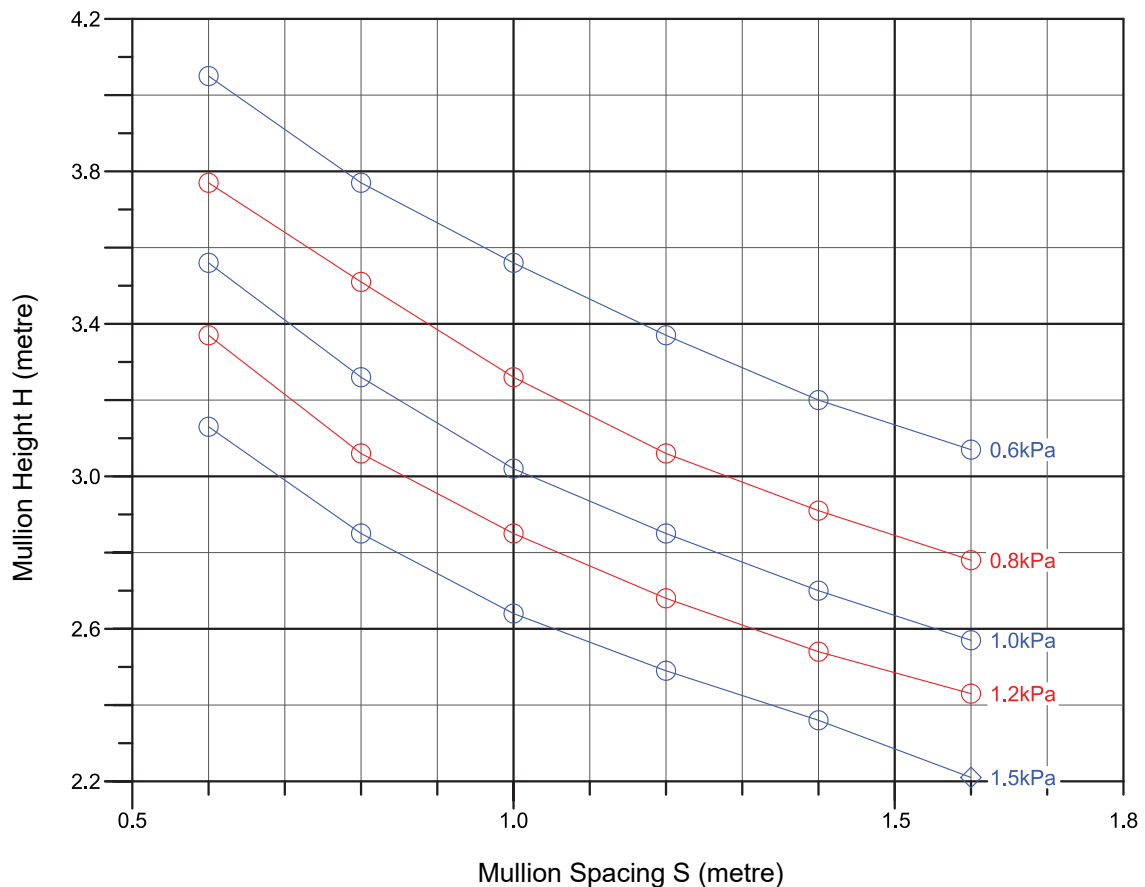
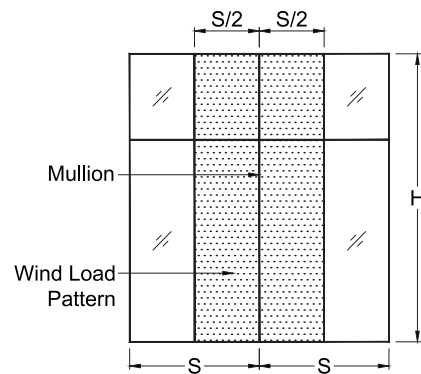
MULLION SECTION : 46940
 Alum. alloy : 6063-T5
 Moment of inertia I_{xx} : 89.9 cm^4
 Mod. of section Z_{xx} : 17.4 cm^3



Note:
 Suffix xx denotes axis perpendicular to wind load

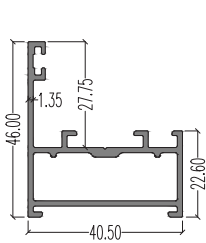
Mod. of elasticity : $70 \times 10^9 \text{ N/m}^2$
 Design bend. stress : $1.25 \times 67 \text{ MPa}$
 Deflection limit : $\text{Span}/175$, up to max. 20mm
 Nature of anchor : Simply supported at both ends

Typical configuration of window:

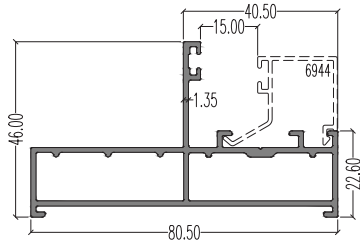


Note:
 ○ Deflection limit governs , ◇ Design bending stress governs
 :- Buckling has not been taken into account in this chart
 :- This windload chart is solely for reference only

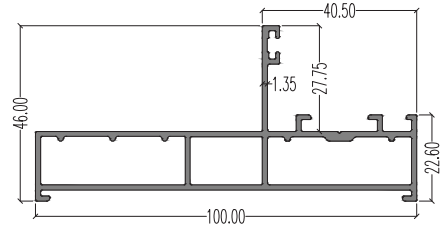
Sectional Details



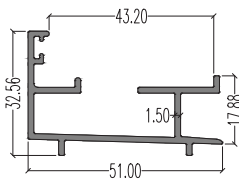
46935 (Outer)
LW : 0.665 kg/m
AP : 241.18 mm



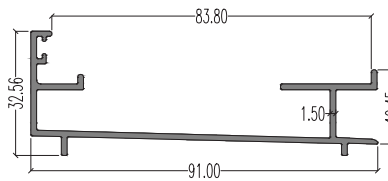
46936 (Outer)
LW : 1.004 kg/m
AP : 320.96 mm



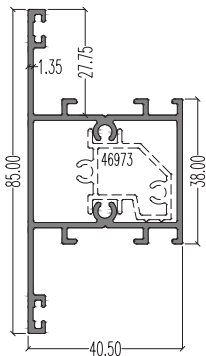
46937 (Outer)
LW : 1.194 kg/m
AP : 359.95 mm



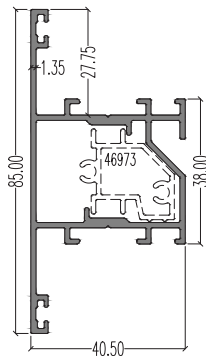
45392 (Subsill)
LW : 0.578 kg/m
AP : 285.59 mm



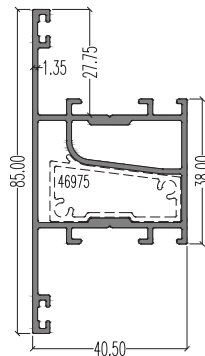
45393 (Subsill)
LW : 0.744 kg/m
AP : 376.55 mm



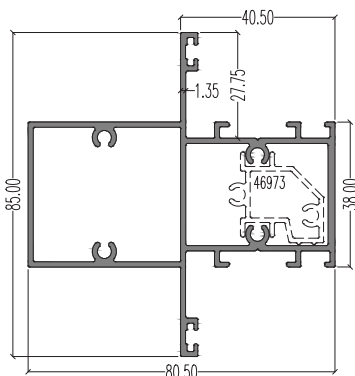
46938 (Mullion)
LW : 0.988 kg/m
AP : 359.07 mm
Ixx : 14.82 cm⁴
Iyy : 8.159 cm⁴



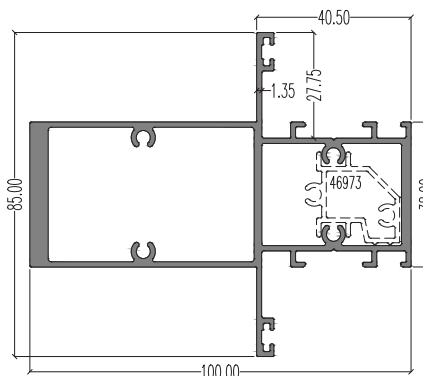
46972 (Transom)
LW : 1.071 kg/m
AP : 380.47 mm
Ixx : 15.02 cm⁴
Iyy : 8.121 cm⁴



46974 (Transom)
LW : 1.113 kg/m
AP : 359.07 mm
Ixx : 14.94 cm⁴
Iyy : 8.753 cm⁴

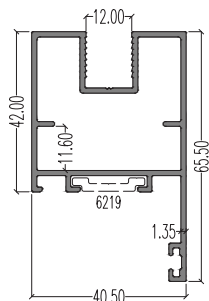


46939 (Mullion)
LW : 1.524 kg/m
AP : 438.85 mm
Ixx : 19.73 cm⁴
Iyy : 32.89 cm⁴

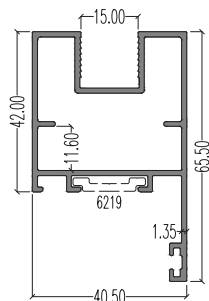


46940 (Mullion)
LW : 2.112 kg/m
AP : 477.85 mm
Ixx : 23.13 cm⁴
Iyy : 89.37 cm⁴

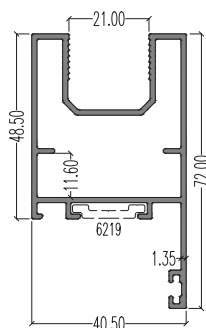
Sectional Details



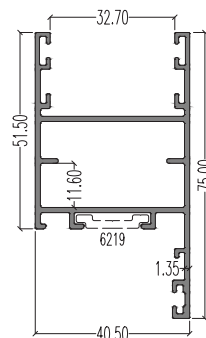
46983 (Inner)
LW : 0.896 kg/m
AP : 299.52 mm



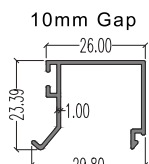
46941 (Inner)
LW : 0.897 kg/m
AP : 300.85 mm



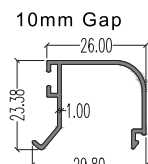
46970 (Inner)
LW : 0.975 kg/m
AP : 319.32 mm



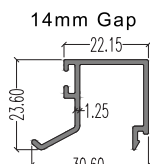
46971 (Inner)
LW : 0.935 kg/m
AP : 388.34 mm



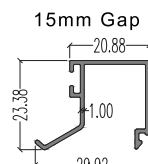
6985 (Beading)
LW : 0.231 kg/m
AP : 169.79 mm



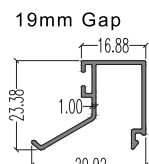
6986 (Beading)
LW : 0.233 kg/m
AP : 163.56 mm



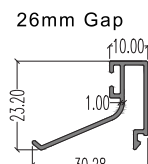
6996 (Beading)
LW : 0.286 kg/m
AP : 168.80 mm



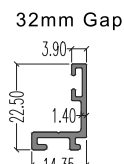
6944 (Beading)
LW : 0.228 kg/m
AP : 166.07 mm



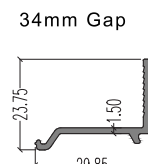
46902 (Beading)
LW : 0.224 kg/m
AP : 162.69 mm



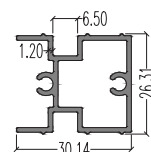
6997 (Beading)
LW : 0.219 kg/m
AP : 159.37 mm



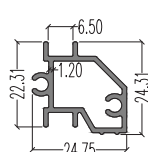
6218 (Beading)
LW : 0.179 kg/m
AP : 101.90 mm



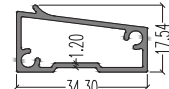
46910 (Beading)
LW : 0.213 kg/m
AP : 108.69 mm



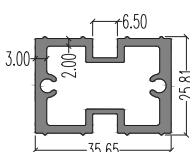
46943 (Bracket)
LW : 0.450 kg/m
AP : 166.62 mm
Ixx : 1.286 cm⁴
Iyy : 1.395 cm⁴
(For 46938, 46939 & 46940)



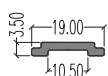
46973 (Bracket)
LW : 0.350 kg/m
AP : 122.61 mm
Ixx : 0.596 cm⁴
Iyy : 0.791 cm⁴



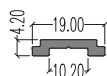
46975 (Bracket)
LW : 0.354 kg/m
AP : 100.81 mm
Ixx : 0.406 cm⁴
Iyy : 1.884 cm⁴
(For 46974)



46942 (Stiffener)
LW : 0.798 kg/m
AP : 142.55 mm
Ixx : 2.313 cm⁴
Iyy : 4.952 cm⁴
(For 46938, 46939 & 46940)



6219 (Slide Bar)
LW : 0.117 kg/m
AP : 45.58 mm
(For Powder Coated & PVDF Finish Only)



6987 (Slide Bar)
LW : 0.140 kg/m
AP : 49.24 mm
(For Anodised Finish Only)

Accessories

Handles



CH100 Single-Point



CH200 Single-Point



CH300 Single-Point



MPH3903 Multi-Point
Single Fork



MPH3907 Multi-Point
Single Fork



MPH3701A Multi-Point
Single/Double Fork



MPH3707A Multi-Point
Single/Double Fork



MPH3709A Multi-Point
Single/Double Fork

Catches



MP930

Latch Bolt & Keeper



MP960



MP962

Friction Stay



12", 14", 16", 20" SS304
Top Hung



8", 12", 16" SS304
Side Hung

Push Rod



MP943KS (L25mm)

Weather Strip



PLG5904
Suntoprene
(100m / roll)

Lockcam



MP950
(10mm, 12mm)

Restrictor Bar



CB04

Corner Brackets



MP590A
(37.5mm)



MP90
(36.0mm)



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

Now available at:



HEAD OFFICE & FACTORY

Lot 11, Jalan Perusahaan 1, Kawasan Perusahaan Beranang,
43700 Beranang, Selangor Darul Ehsan, Malaysia.

T : +603-8725 8822 (Gen)

F : +603-8725 8828 (Gen)

E : enquiry@lbalum.com.my

+603-8725 8866 (Export)

W : www.lbalum.com



CERTIFIED ISO 9001:2015
CERT NO: QMS 00216



CERTIFIED ISO 14001:2015
CERT NO: EMS 01118