



ALBENestra®



Performance Casement Window **PCW03**

Designed and tested according to MS832



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

Product

ALBENestra PCW03

Typical Technical Features

Nominal Wall Thickness	: 1.35mm
Standard Frame Depth	: 35.00mm
Mullion Depth	: 42.00mm, 65.00mm, 80.00mm & 100.00mm
Glazing Gap	: 15.00mm - 21.00mm
Locking System	: Single-point & Multipoint
Surface Finish	: Flush
Hinges	: Butt. Hinges (Exposed Only) & Friction Stay
Corner Joints	: Mitre Joints With Brackets

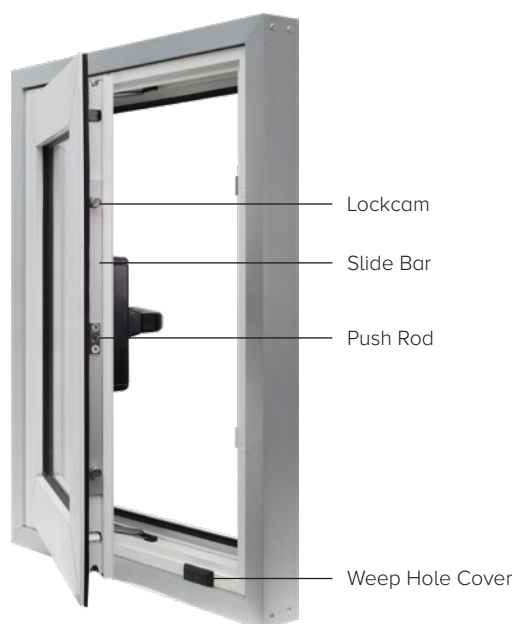


Performance Test

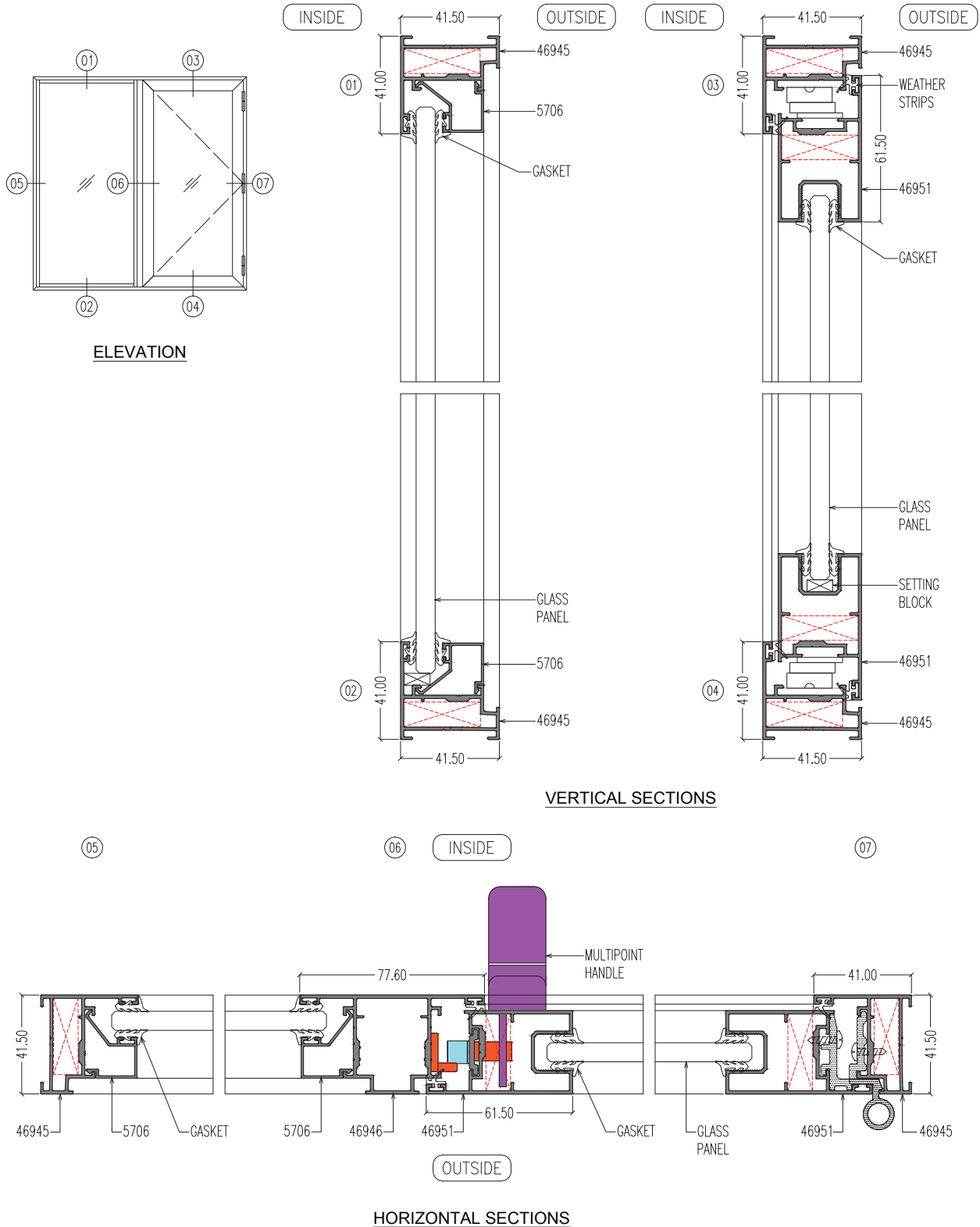
This casement window suite had been tested in compliance to MS 832:2022 performance test procedure for:

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

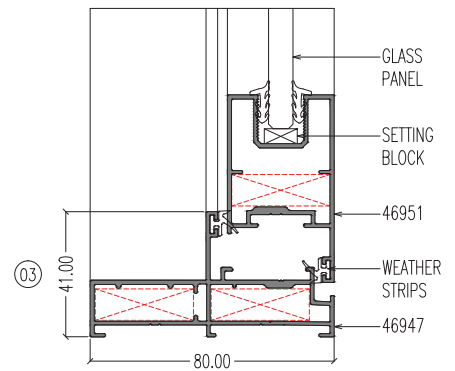
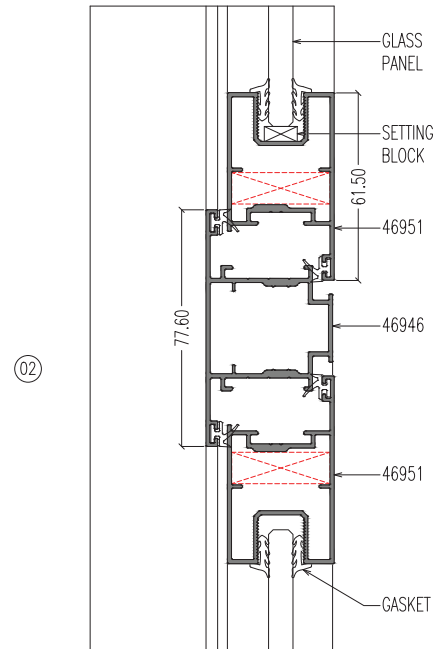
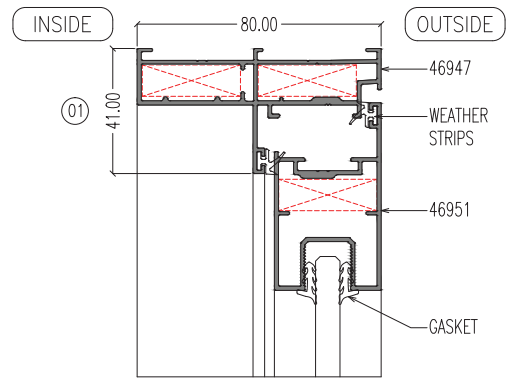
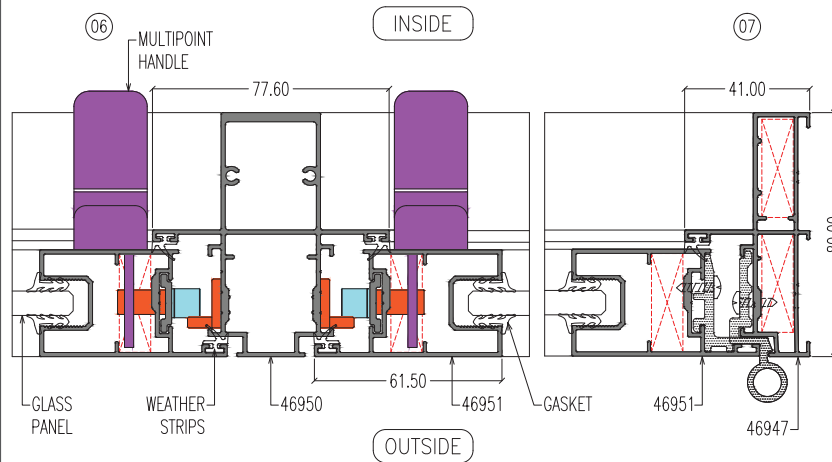
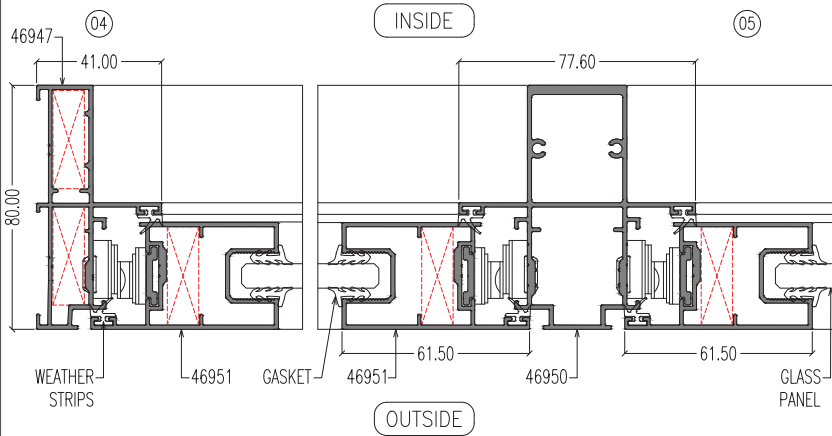
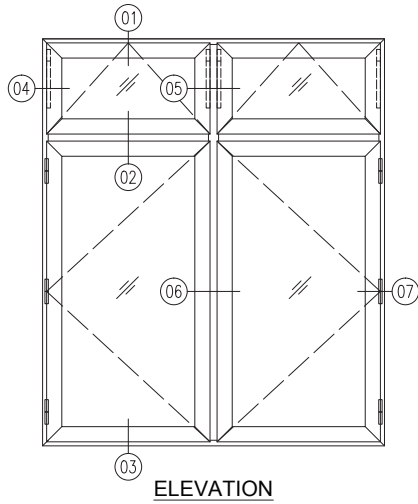
Note: Test report available upon request.



Typical Assembly Details

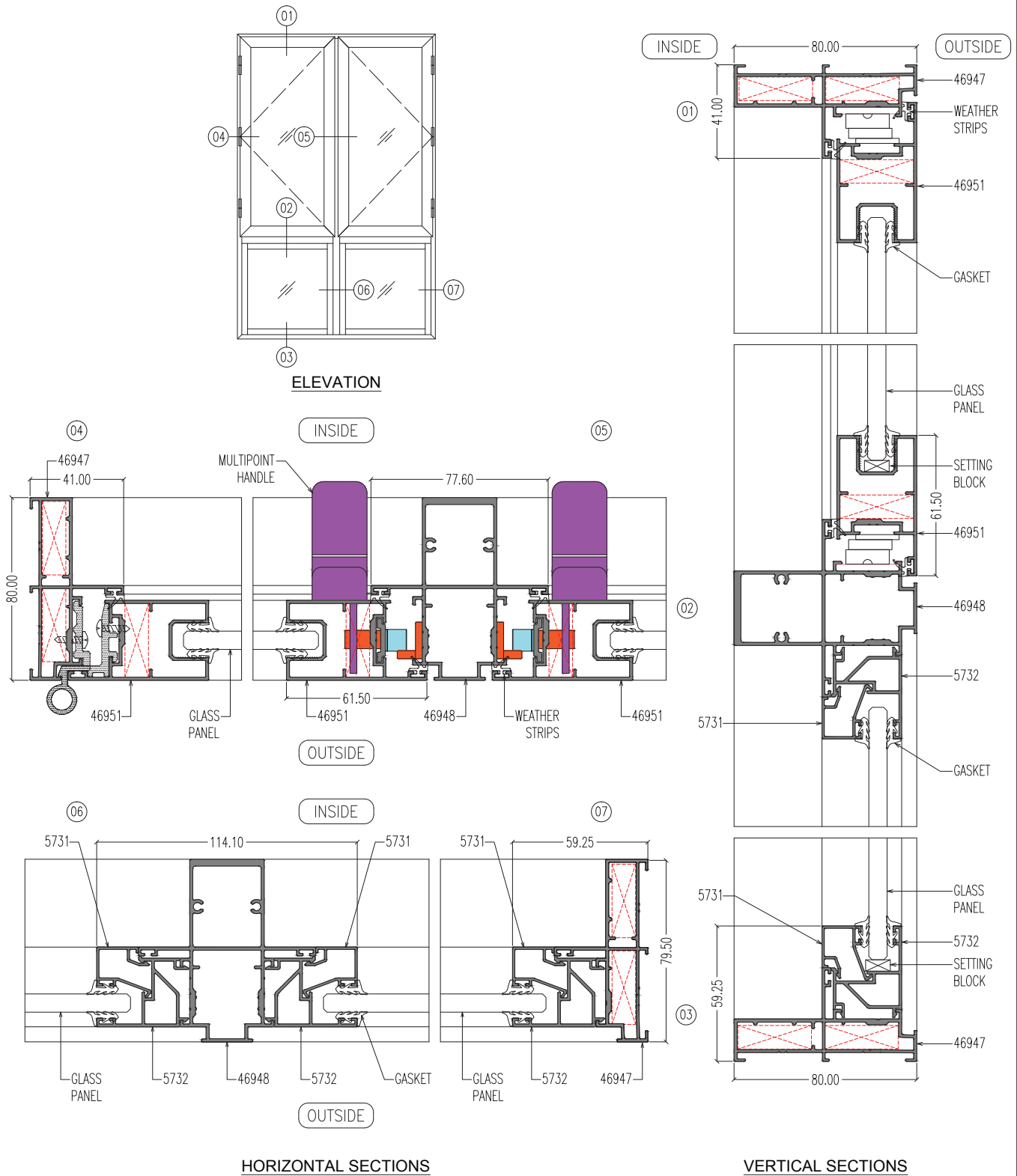


Typical Assembly Details

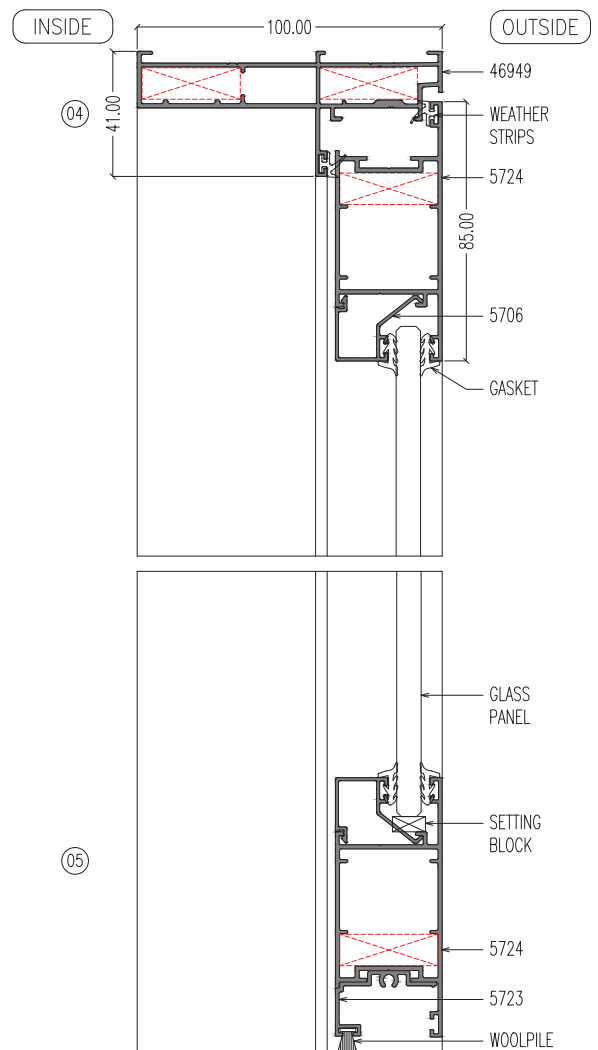
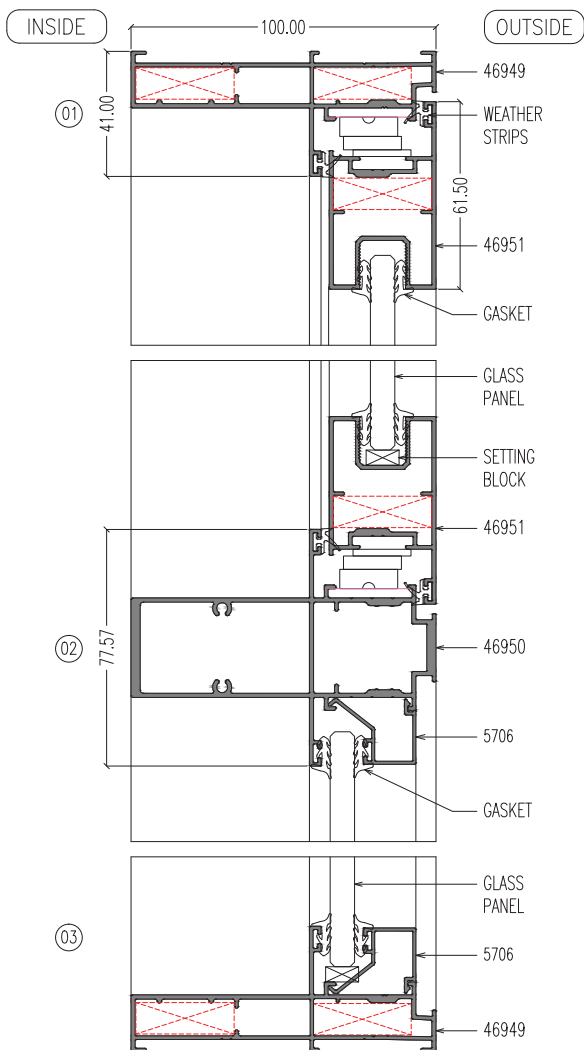
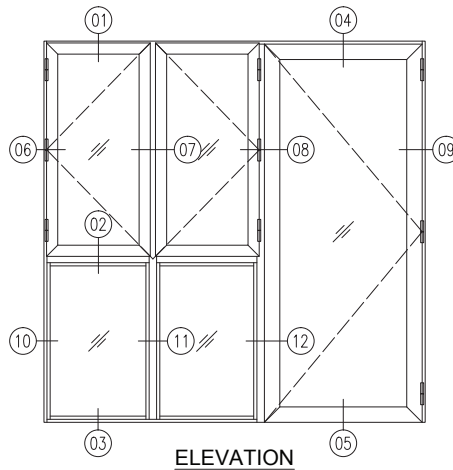


Typical Assembly Details

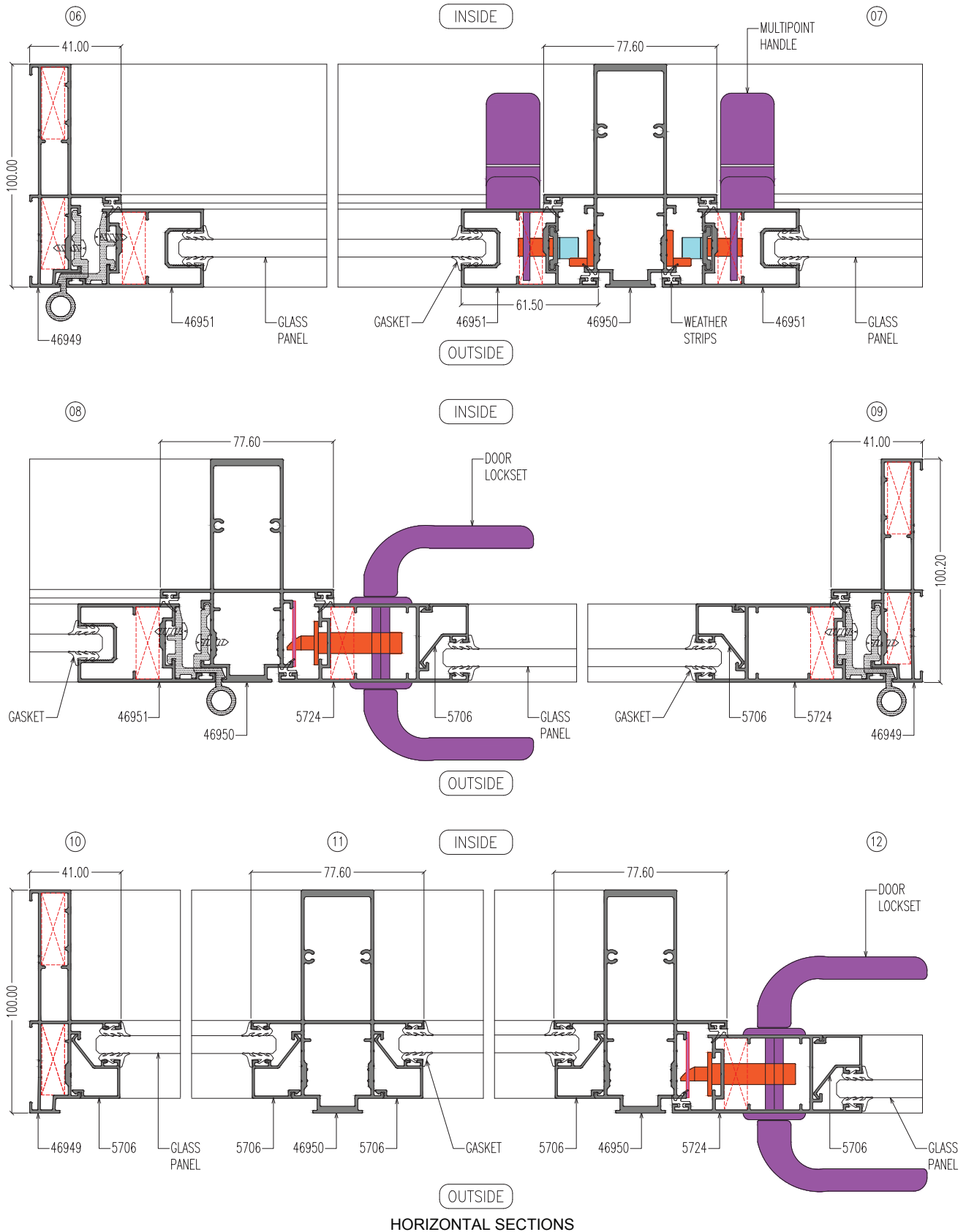
(Internal Beading)



Typical Assembly Details

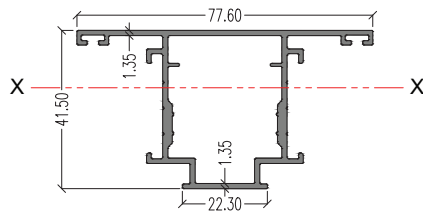


Typical Assembly Details



Wind Load Chart

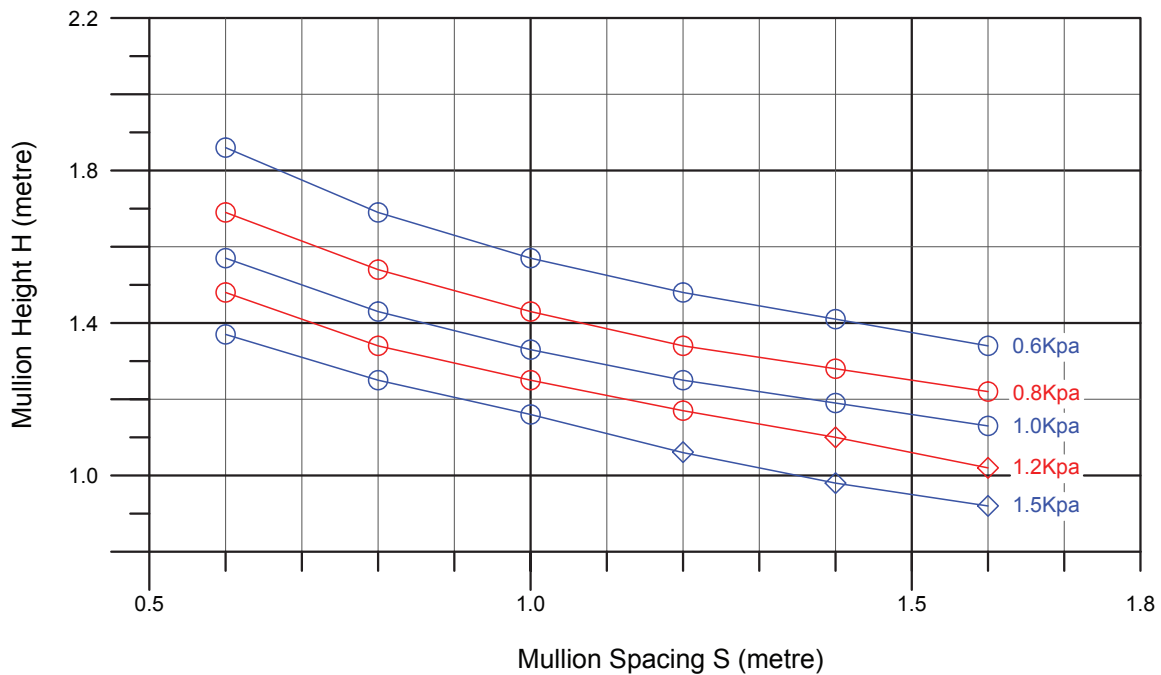
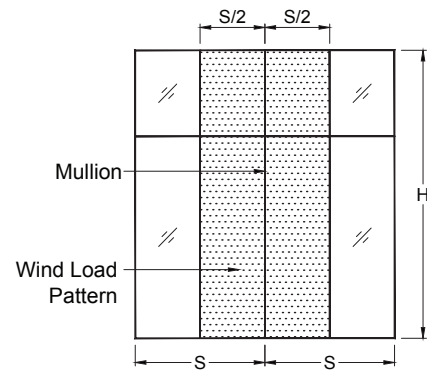
MULLION SECTION : 46946
Alum. alloy : 6063-T5
Moment of inertia I_{xx} : 7.6 cm⁴
Mod. of section Z_{xx} : 3.0 cm³



Note:
 Suffix xx denotes axis perpendicular to wind load

Mod. of elasticity : 70×10^9 N/m²
Design bend. stress : 1.25×67^6 N/m²
Deflection limit : $\frac{Span}{175}$, up to max. 20mm
Nature of anchor : Simply supported at both ends

Typical configuration of window:



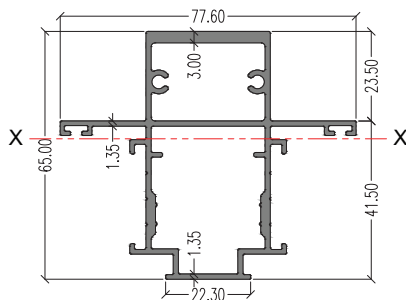
Note:

- 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

Wind Load Chart

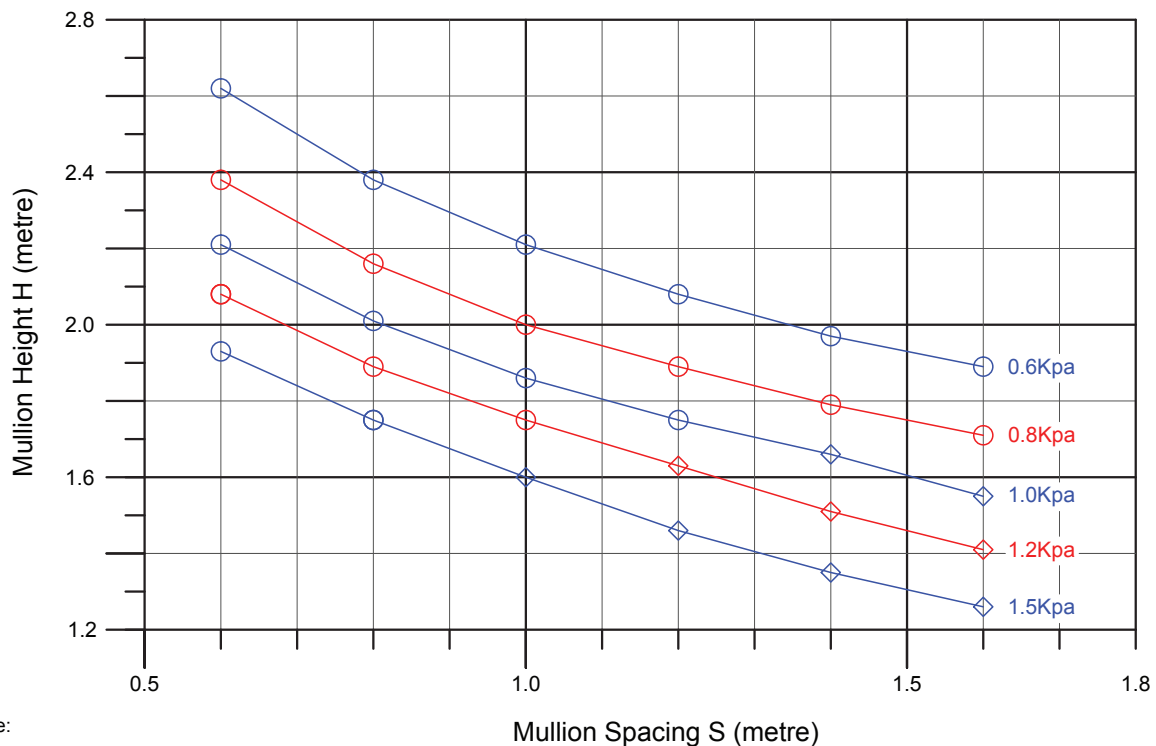
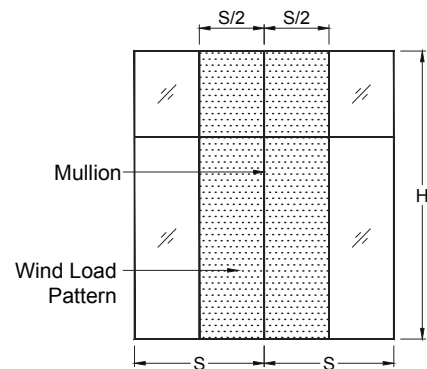
MULLION SECTION : 46954
Alum. alloy : 6063-T5
Moment of inertia I_{xx} : 21.0 cm⁴
Mod. of section Z_{xx} : 5.7 cm³



Note:
 Suffix xx denotes axis perpendicular to wind load

Mod. of elasticity : 70×10^9 N/m²
Design bend. stress : 1.25×67^6 N/m²
Deflection limit : $S_{pan}/175$, up to max. 20mm
Nature of anchor : Simply supported at both ends

Typical configuration of window:



Note:

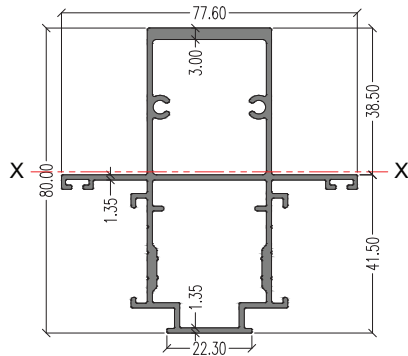
- Deflection limit governs
- ◇ Design bending stress governs

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

:- This windload chart is solely for reference only

Wind Load Chart

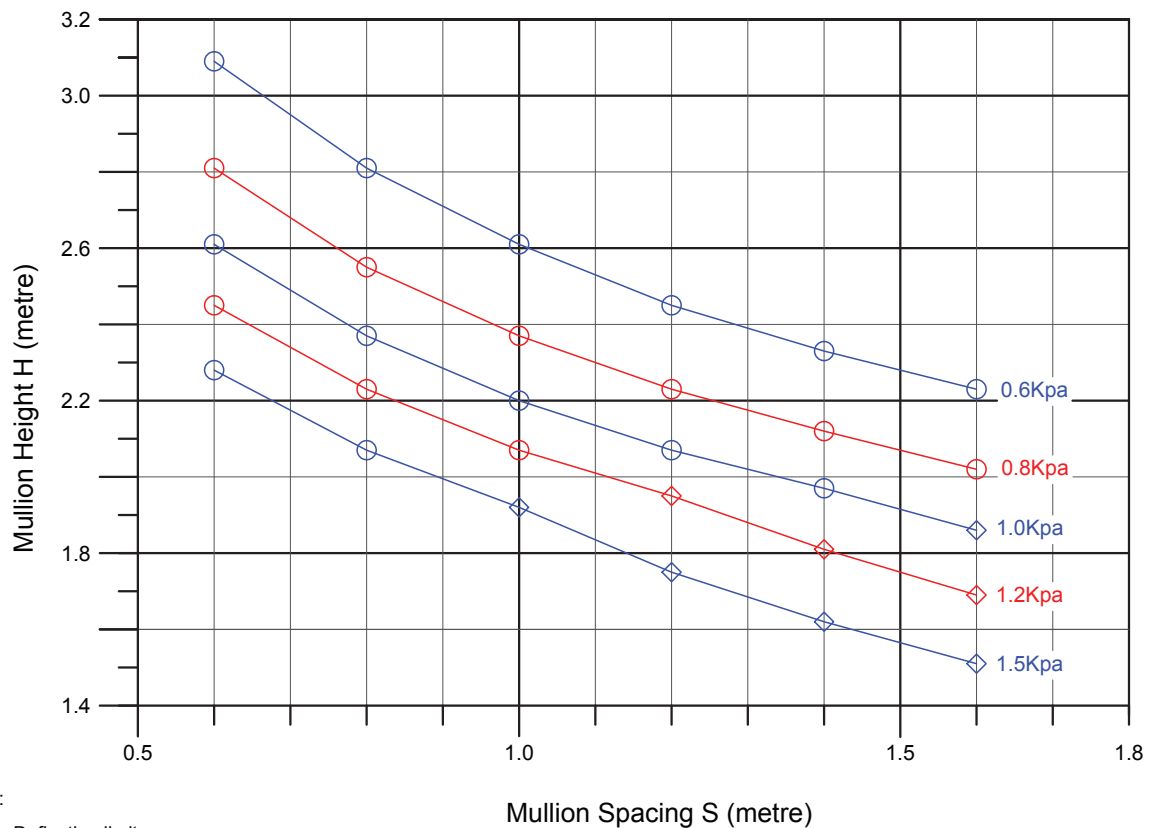
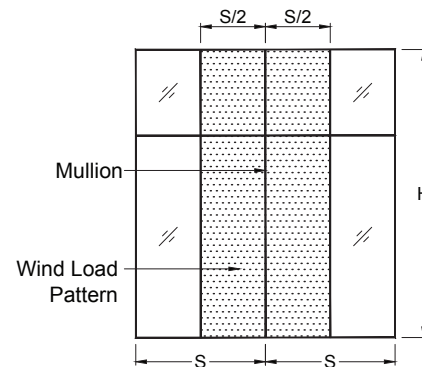
MULLION SECTION : 46948
Alum. alloy : 6063-T5
Moment of inertia I_{xx} : 34.6 cm⁴
Mod. of section Z_{xx} : 8.2 cm³



Note:
 Suffix xx denotes axis perpendicular to wind load

Mod. of elasticity : 70×10^9 N/m²
Design bend. stress : 1.25×67^6 N/m²
Deflection limit : $\text{Span}/175$, up to max. 20mm
Nature of anchor : Simply supported at both ends

Typical configuration of window:



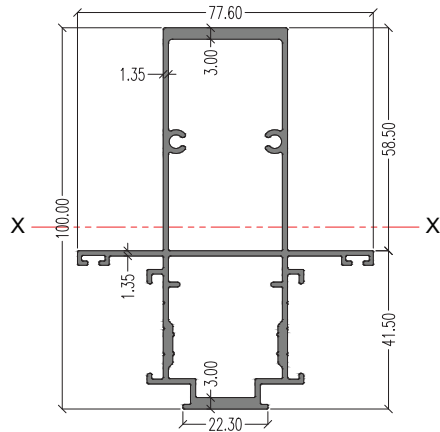
Note:

- 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

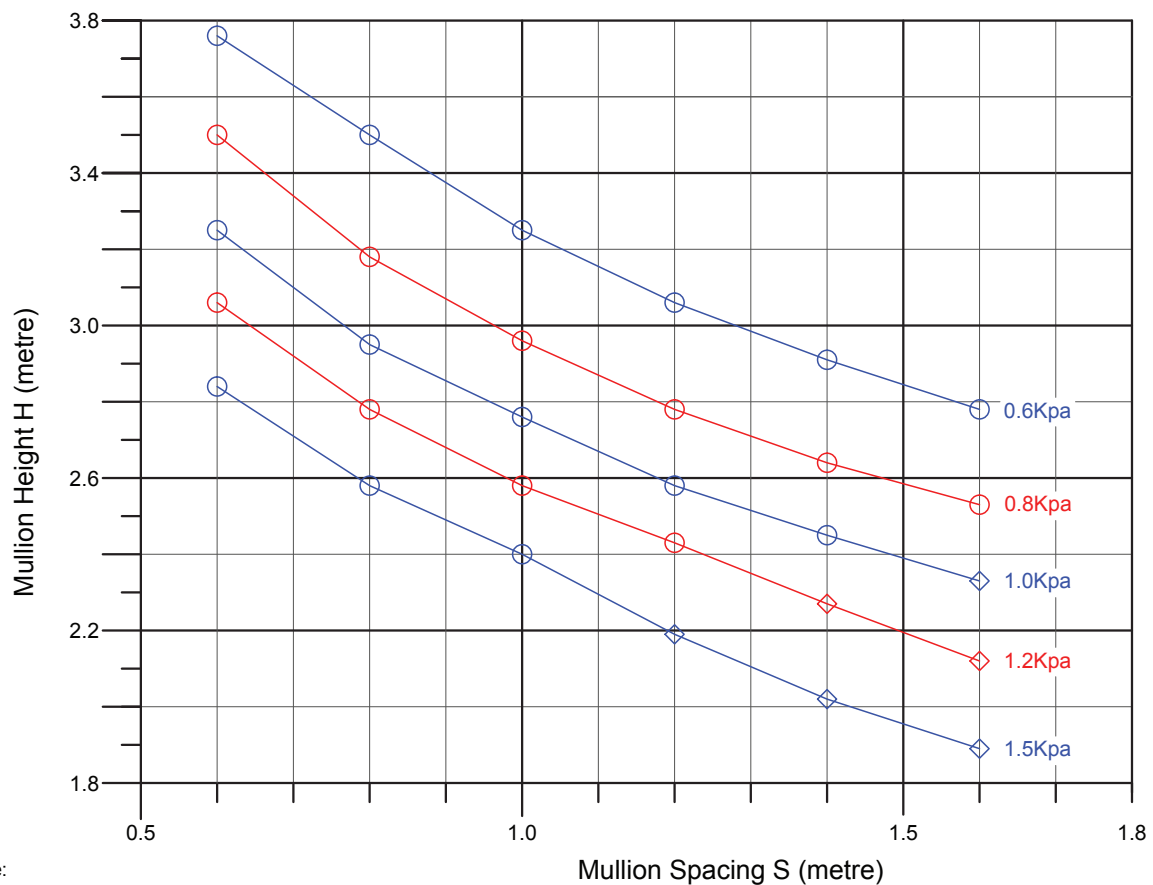
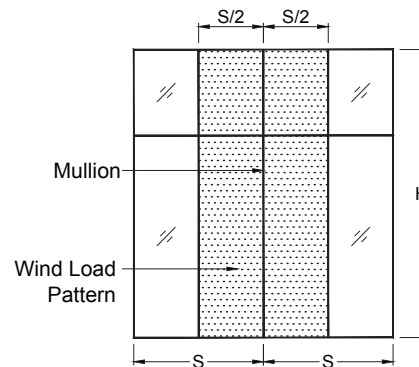
MULLION SECTION : 46950
Alum. alloy : 6063-T5
Moment of inertia I_{xx} : 67.2 cm⁴
Mod. of section Z_{xx} : 12.9 cm³



Note:
 Suffix xx denotes axis perpendicular to wind load

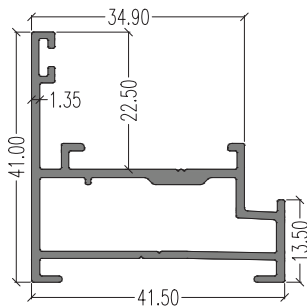
Mod. of elasticity : 70×10^9 N/m²
Design bend. stress : 1.25×67^6 N/m²
Deflection limit : $\text{Span}/175$, up to max. 20mm
Nature of anchor : Simply supported at both ends

Typical configuration of window:

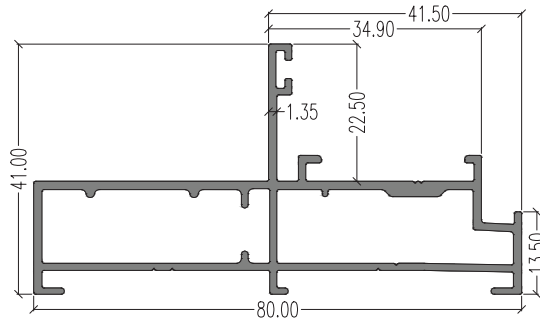


Note:
 ○ Deflection limit governs , ◇ Design bending stress governs
 :- Buckling has not been taken into account in this chart
 :- This windload chart is solely for reference only

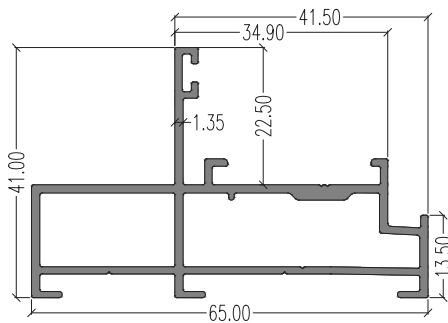
Sectional Details



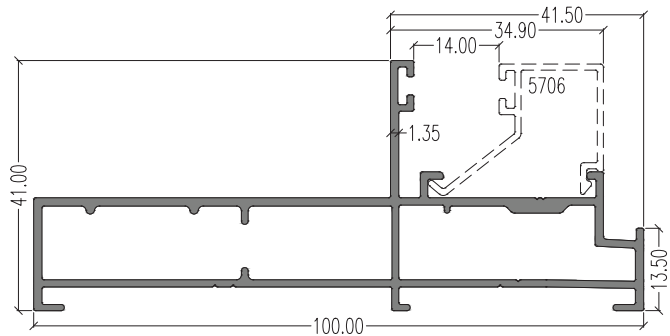
46945 (Outer)
LW : 0.599 kg/m
AP : 227.81 mm



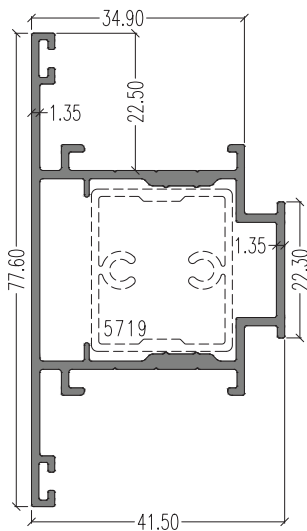
46947 (Outer)
LW : 0.938 kg/m
AP : 315.69 mm



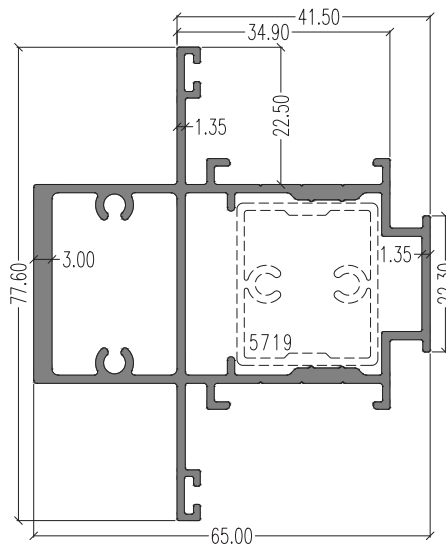
46953 (Outer)
LW : 0.826 kg/m
AP : 289.00 mm



46949 (Outer)
LW : 1.069 kg/m
AP : 356.18 mm

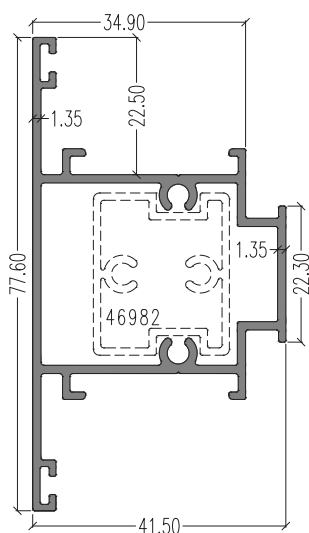


46946 (Mullion)
LW : 0.915 kg/m
AP : 322.10 mm
Ixx : 11.51 cm⁴
Iyy : 7.581 cm⁴

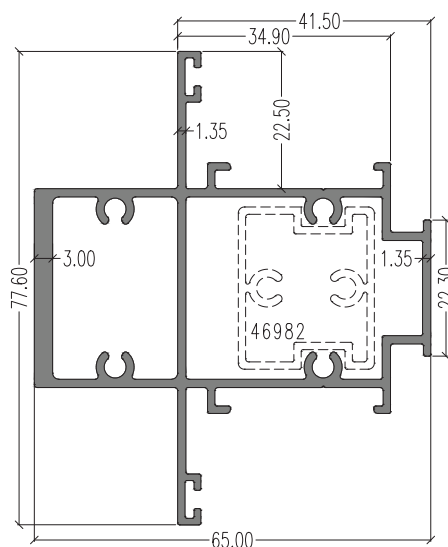


46954 (Mullion)
LW : 1.410 kg/m
AP : 368.42 mm
Ixx : 14.24 cm⁴
Iyy : 21.00 cm⁴

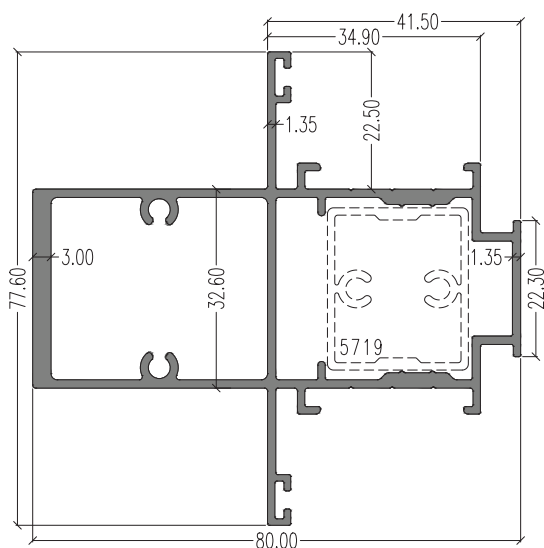
Sectional Details



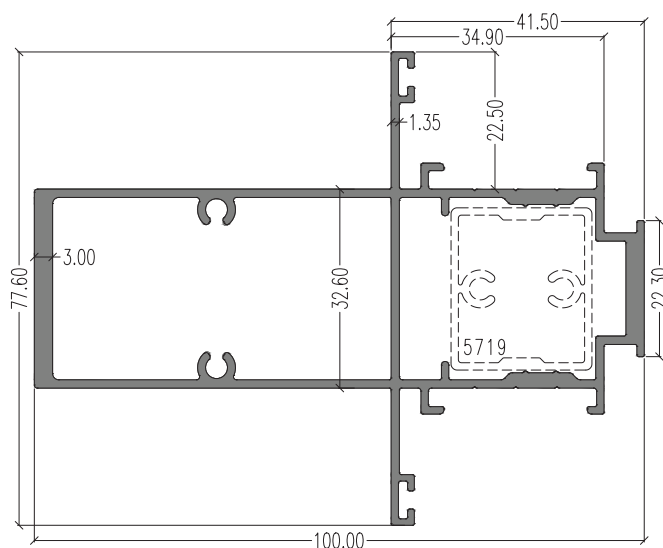
46956 (Mullion)
 LW : 0.896 kg/m
 AP : 321.38 mm
 Ixx : 11.34 cm⁴
 Iyy : 7.52 cm⁴



46957 (Mullion)
 LW : 1.385 kg/m
 AP : 367.69 mm
 Ixx : 14.02 cm⁴
 Iyy : 20.92 cm⁴

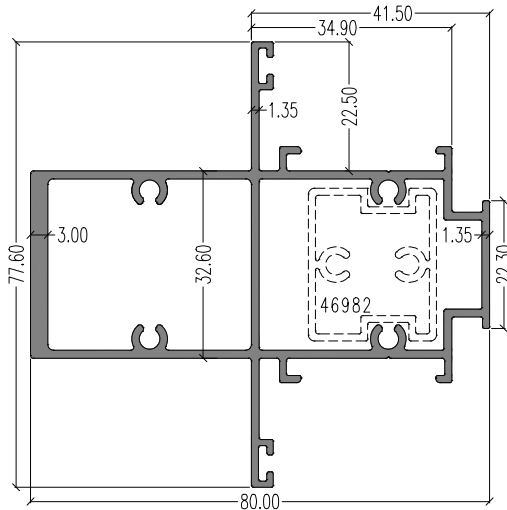


46948 (Mullion)
 LW : 1.520 kg/m
 AP : 398.42 mm
 Ixx : 15.23 cm⁴
 Iyy : 34.61 cm⁴

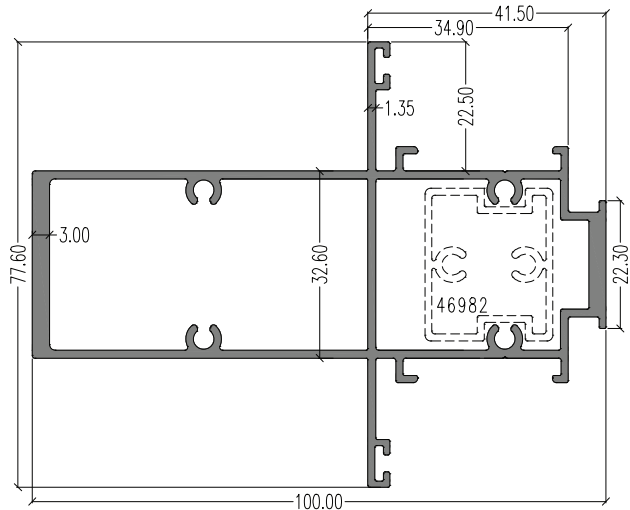


46950 (Mullion)
 LW : 1.735 kg/m
 AP : 438.59 mm
 Ixx : 16.59 cm⁴
 Iyy : 67.15 cm⁴

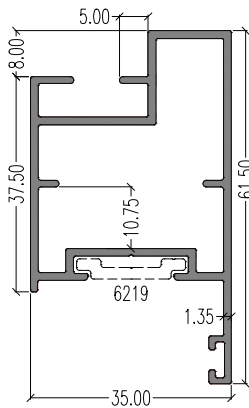
Sectional Details



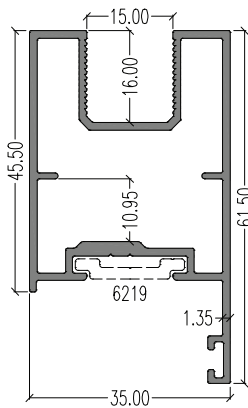
46958 (Mullion)
 LW : 1.495 kg/m
 AP : 397.69 mm
 Ixx : 15.01 cm⁴
 Iyy : 34.45 cm⁴



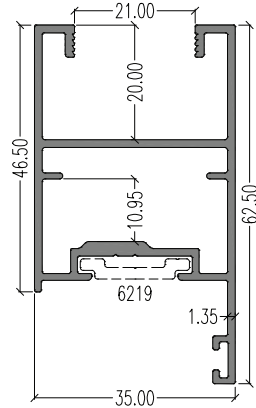
46959 (Mullion)
 LW : 1.710 kg/m
 AP : 437.86 mm
 Ixx : 16.37 cm⁴
 Iyy : 66.88 cm⁴



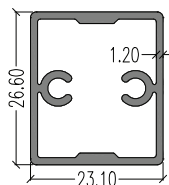
46955 (Inner)
 LW : 0.774 kg/m
 AP : 262.73 mm
 (For Friction Stay Only)



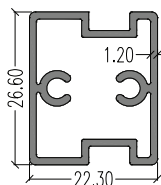
46951 (Inner)
 LW : 0.844 kg/m
 AP : 269.12 mm



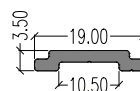
46952 (Inner)
 LW : 0.826 kg/m
 AP : 311.15 mm



5719 (Bracket)
 LW : 0.428 kg/m
 AP : 97.68 mm

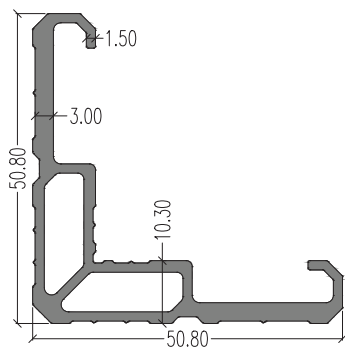


46982 (Bracket)
 LW : 0.448 kg/m
 AP : 107.94 mm

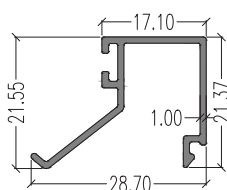


6219 (Slide Bar)
 LW : 0.117 kg/m
 AP : 45.58 mm

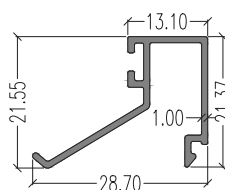
Sectional Details


5714 (Corner Bracket)

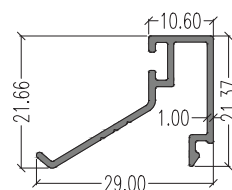
LW : 0.955 kg/m
AP : 240.10 mm

14mm Gap

5706 (Beading)

LW : 0.209 kg/m
AP : 150.65 mm

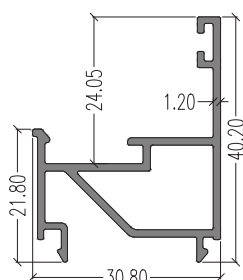
18mm Gap

5705 (Beading)

LW : 0.207 kg/m
AP : 149.07 mm

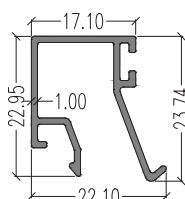
21mm Gap

46980 (Beading)

LW : 0.201 kg/m
AP : 145.52 mm

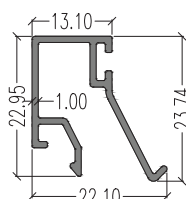
FOR INTERNAL BEADING


5732 (For Internal Beading)

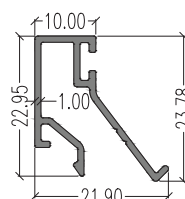
LW : 0.447 kg/m
AP : 206.42 mm

14mm Gap

5731 (For Internal Beading)

LW : 0.226 kg/m
AP : 162.89 mm

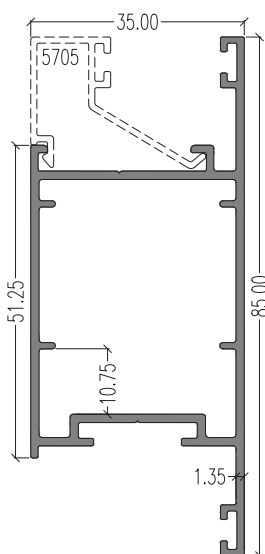
18mm Gap

5733 (For Internal Beading)

LW : 0.216 kg/m
AP : 155.53 mm

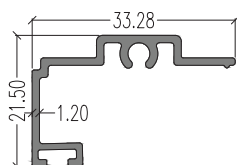
21mm Gap

46981 (For Internal Beading)

LW : 0.207 kg/m
AP : 150.34 mm

FOR SWING DOOR FRAMES


5724

LW : 0.872 kg/m
AP : 312.78 mm


5723

LW : 0.251 kg/m
AP : 151.97 mm

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

Lockcam



MP950
(10mm, 12mm)

Corner Brackets

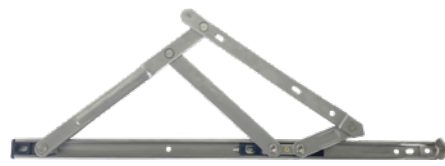


MP590D



5714 Alum. Bracket
(6.1m/length)

Friction Stay



12", 14", 16", 18" 20" SS304
Top Hung



8", 12" 16" SS304
Side Hung

Butt. Hinges



MP95

Door Locksets



LH216

Restrictor Bar



CB8, CB12



CB04

Catches



MP930S

Push Rod



MP941KS (L22 mm)

Weather Strip



PLG 5903
Suntoprene
(100m / roll)



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

Now available at:



HEAD OFFICE & FACTORY

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+603-8725 8866 (Export)

W : www.lbalum.com



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