



ALBENestra®



Performance Sliding Window **PSW01**

Designed and tested according to MS832:2022



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

Product

ALBENestra PSW01

Typical Technical Features

Inner Frame Thickness	: 1.35mm
Inner Frame Depth	: 23.00mm
Inner Frame Width	: 50.00mm
Outer Frame	: 2 & 3 Tracks
Outer Frame Depth	: 65.00mm & 97.50mm
Corner Joints	: Mitre Joints with Brackets
Glazing Gap	: 15.00mm
Locking System	: Single-point



Performance Test

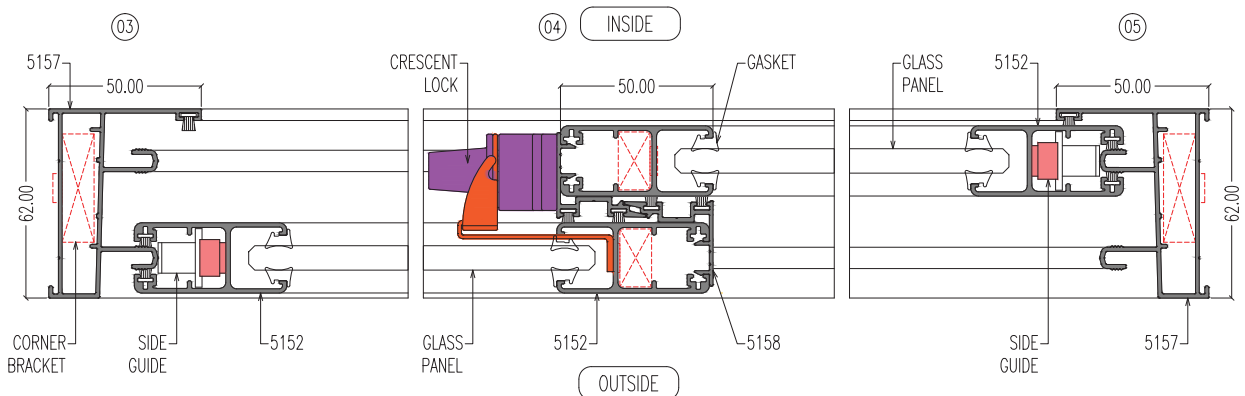
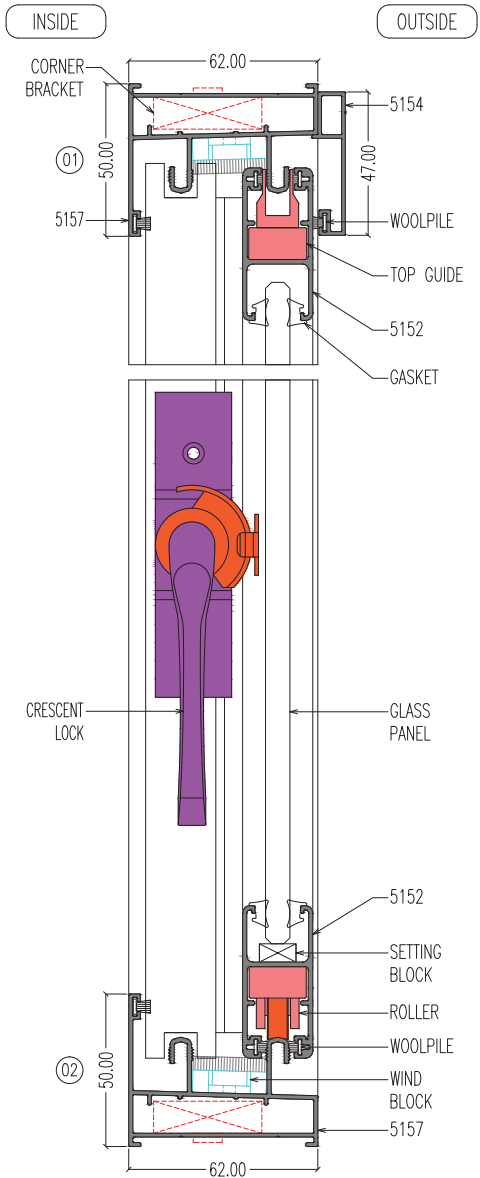
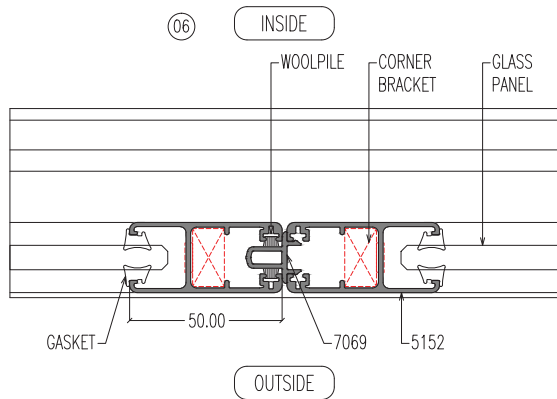
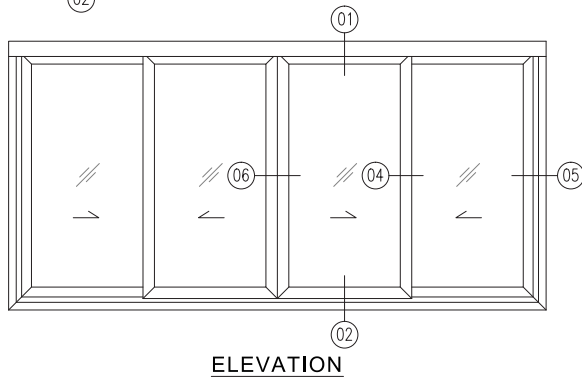
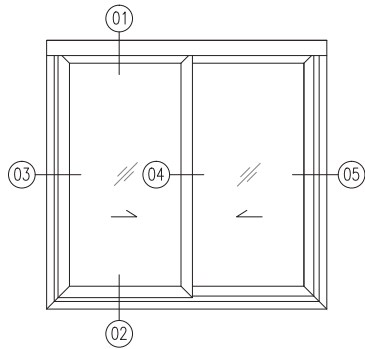
This sliding window suite had been tested in compliance to MS 832:2022 performance test procedure for:

1. 1200Pa windload : Passed
2. 240Pa air leakage : Passed
3. 360Pa water infiltration : Passed

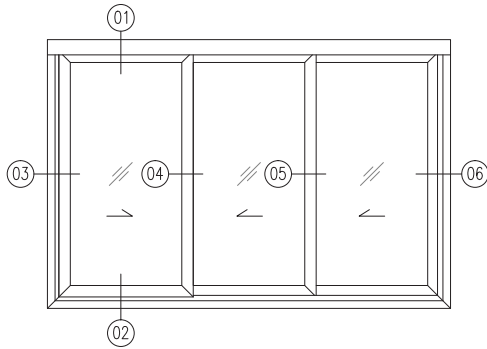
Note: Test report available upon request.



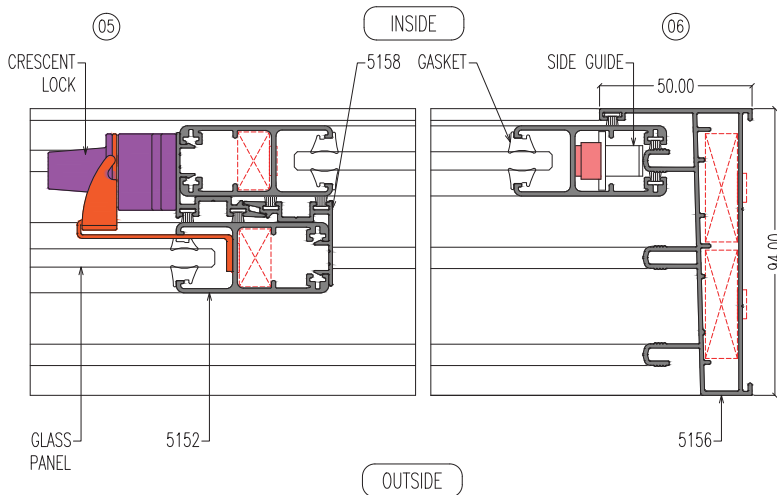
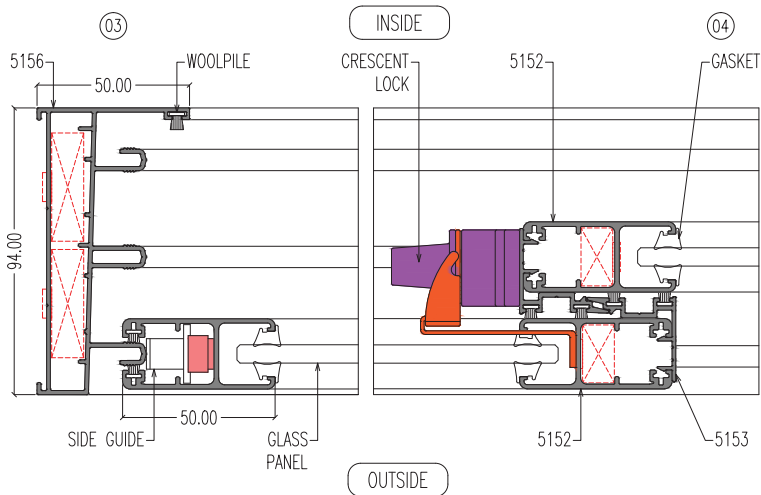
Typical Assembly Details



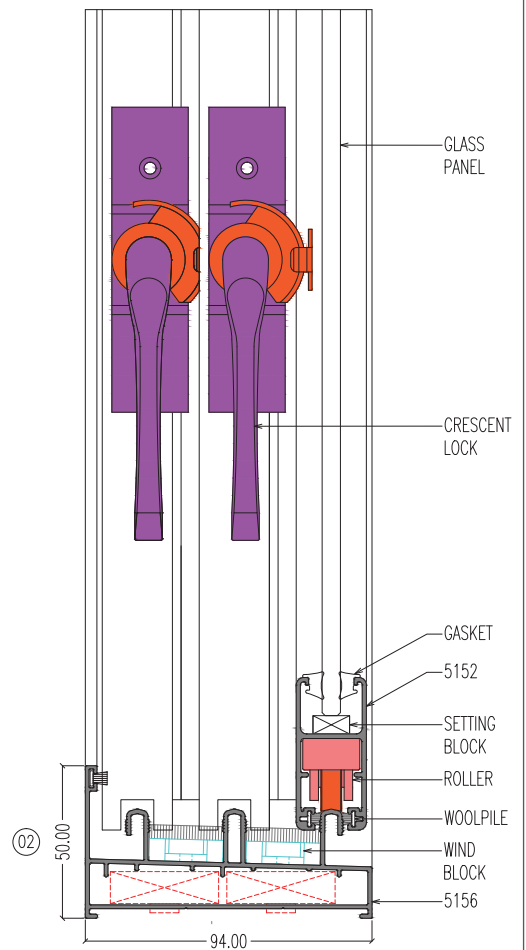
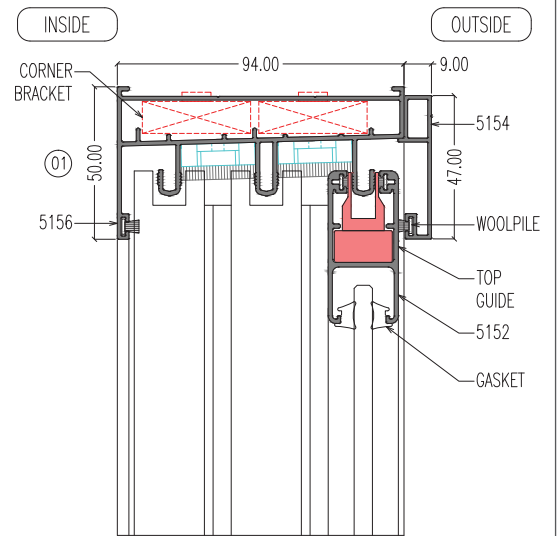
Typical Assembly Details



ELEVATION



HORIZONTAL SECTIONS



VERTICAL SECTIONS

Wind Load Chart

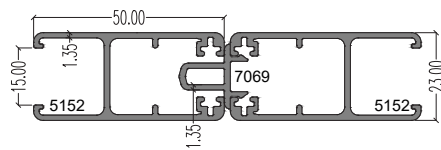
BUTTING STILE

Assembly of Sections 5152x2 & 7069

Alum. alloy : 6063-T5

Overall moment of inertia I_{xx} : 4.3 cm⁴

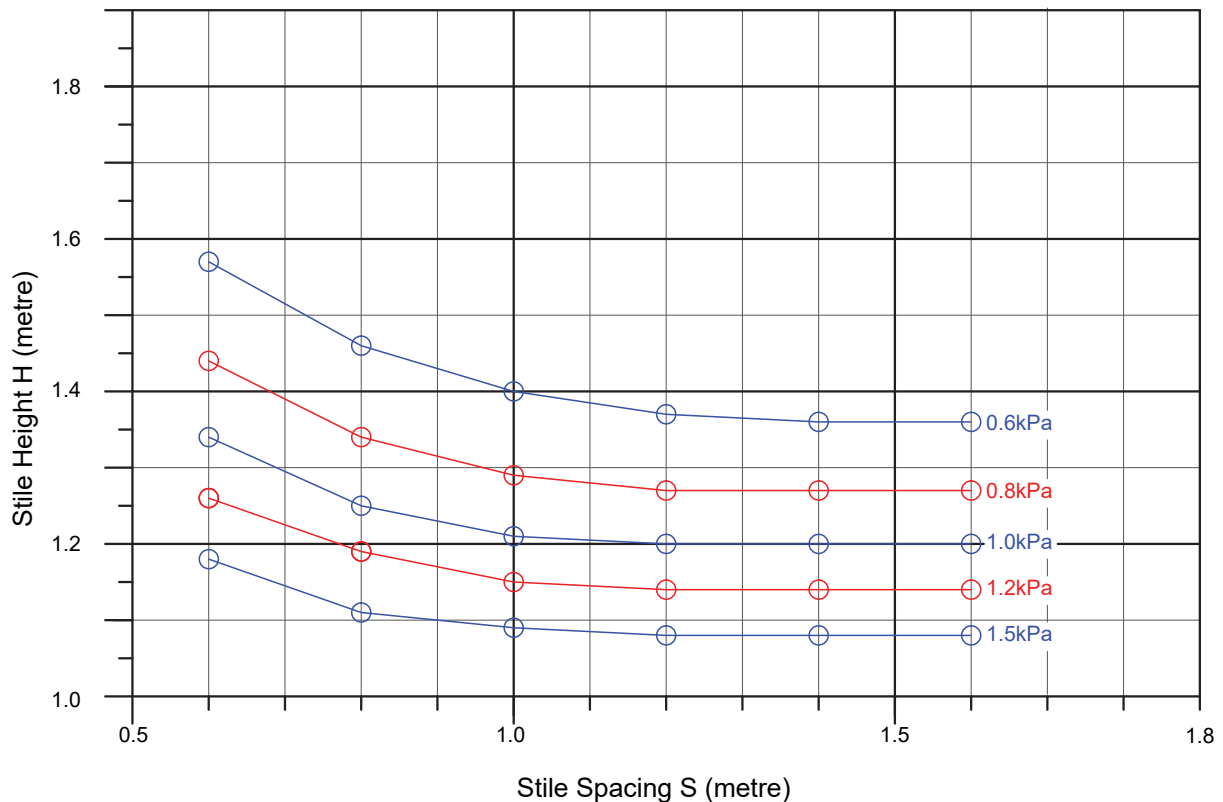
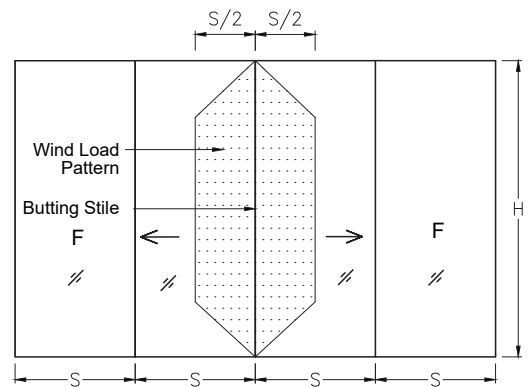
Overall moment of Resistance MR_{xx} : 314 Nm



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

Typical configuration of sliding 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

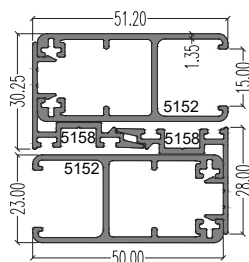
BUTTING STILE

Assembly of Sections 5152x2 & 5158x2

Alum. alloy : 6063-T5

Overall moment of inertia I_{xx} : 6.8 cm⁴

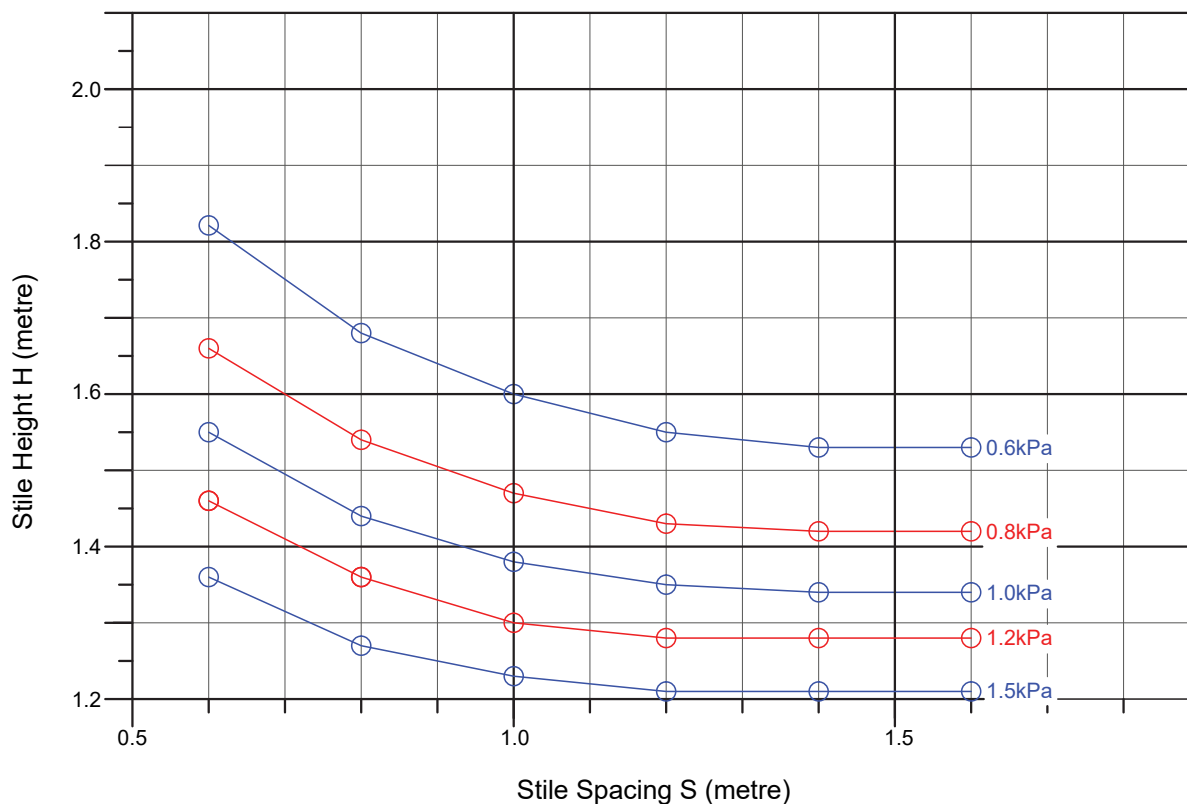
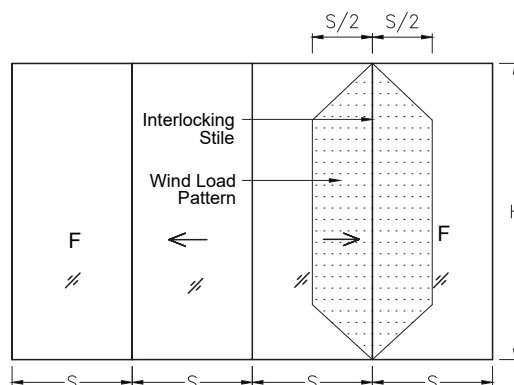
Overall moment of Resistance MR_{xx} : 366 Nm



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

Typical configuration of sliding window:



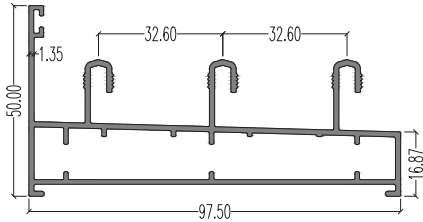
Note:

○ Deflection limit governs, ◇ Design bending stress governs

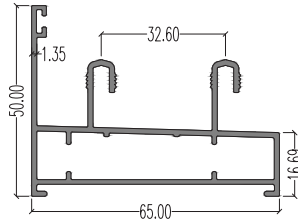
- Buckling has not been taken into account in this chart

- This windload chart is solely for reference only

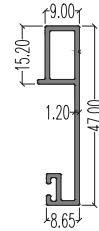
Sectional Details



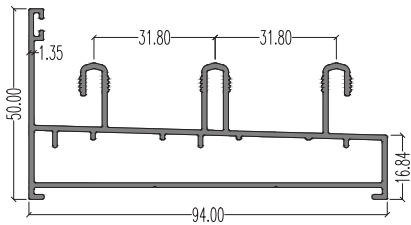
5150 (Outer)
LW : 1.343 kg/m
AP : 500.33 mm



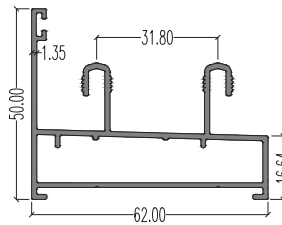
5151 (Outer)
LW : 0.978 kg/m
AP : 379.30 mm



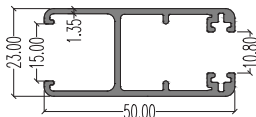
5154 (Cover Outer)
LW : 0.315 kg/m
AP : 154.31 mm



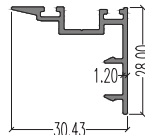
5156 (Outer)
LW : 1.320 kg/m
AP : 470.47 mm



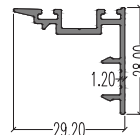
5157 (Outer)
LW : 0.936 kg/m
AP : 374.39 mm



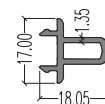
5152 (Inner)
LW : 0.612 kg/m
AP : 302.86 mm
Ixx : 2.098 cm⁴
Iyy : 4.971 cm⁴



5153 (Interlock)
LW : 0.270 kg/m
AP : 164.88 mm
Ixx : 0.631 cm⁴
Iyy : 0.827 cm⁴
(For 5150 & 5151)



5158 (Interlock)
LW : 0.277 kg/m
AP : 163.24 mm
Ixx : 0.604 cm⁴
Iyy : 0.787 cm⁴
(For 5156 & 5157)



7069 (Mid-joint)
LW : 0.204 kg/m
AP : 73.66 mm
Ixx : 0.107 cm⁴
Iyy : 0.177 cm⁴

Accessories

Crescent Lock



DC370
(with SS Hook)

Roller



W002PR
(Rating : 25kg/panel)

Woolpile



5 x 7
(300 meter / roll)

Corner Bracket



W007BR
(Inner Frame)
(19.2mm)



MP90
(Outer Frame)
(36.0mm)

Side Guide



W003SG

Top Guide



W004TG

Wind Block



*Woolpile is not included

Drainage Hole Cover

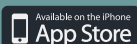


Weep Hole Cover



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Now available at:



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CERT NO: QMS 00216



CERTIFIED ISO 14001:2015
CERT NO: EMS 01118