



ALBENestra[®]



Performance Casement Window **SCW04**

Designed and tested according to MS832:2022



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

Product

ALBENestra SCW04

Typical Technical Features

Nominal Wall Thickness	:	1.35mm
Standard Frame Depth	:	42.00mm
Mullion Depth	:	42.00mm & 80.50mm
Glazing Gap	:	15.00mm
Locking System	:	Single-point & Multipoint
Surface Finish	:	Flush
Hinges	:	Concealed Butt. Hinge
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:

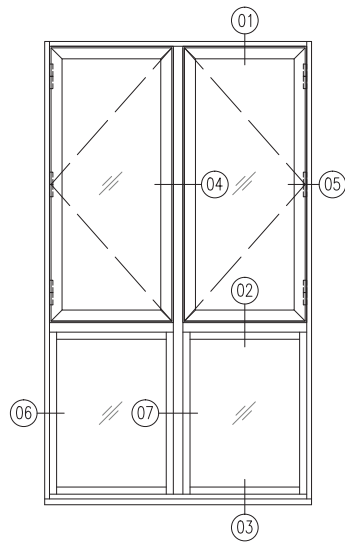
1. 1500Pa windload : Passed
2. 300Pa air leakage : Passed
3. 450Pa water infiltration : Passed

Note: Test report available upon request.

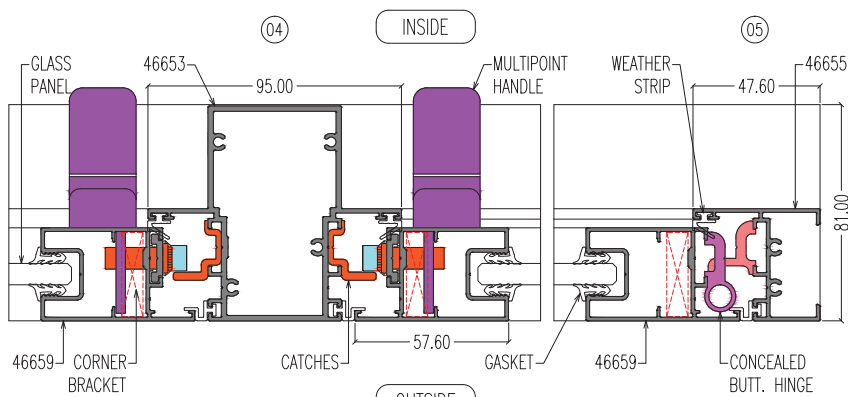


Typical Assembly Details

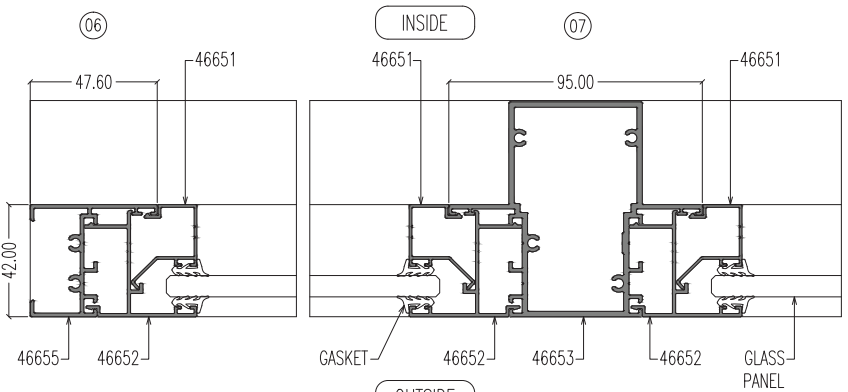
(Internal Beading)



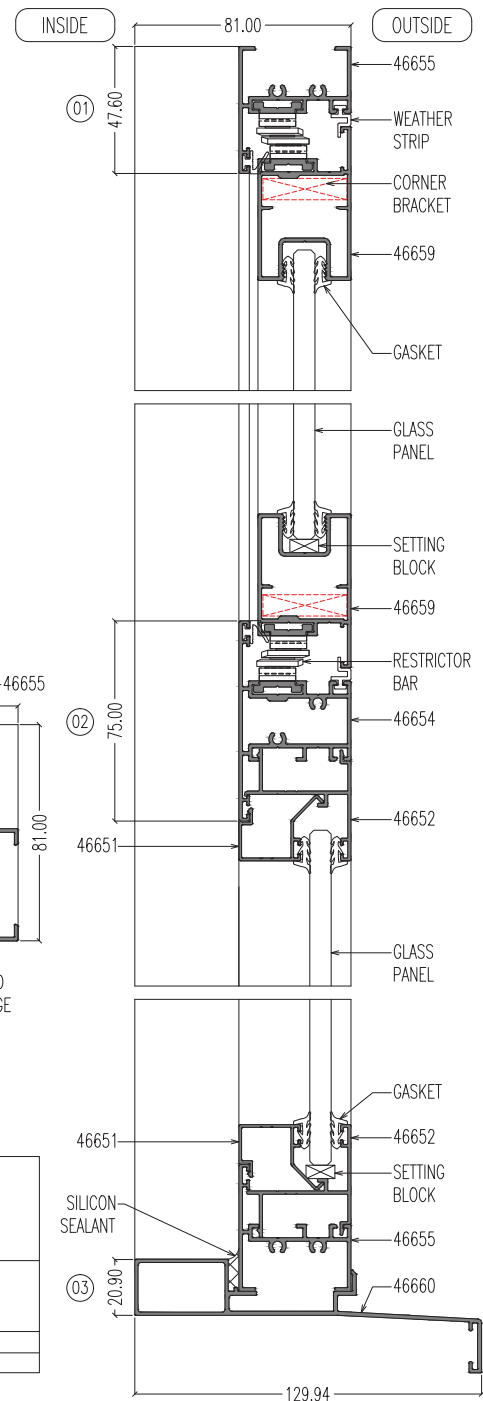
ELEVATION



OUTSIDE



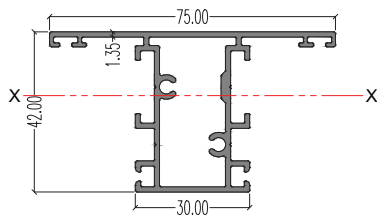
HORIZONTAL SECTIONS



VERTICAL SECTIONS

Wind Load Chart

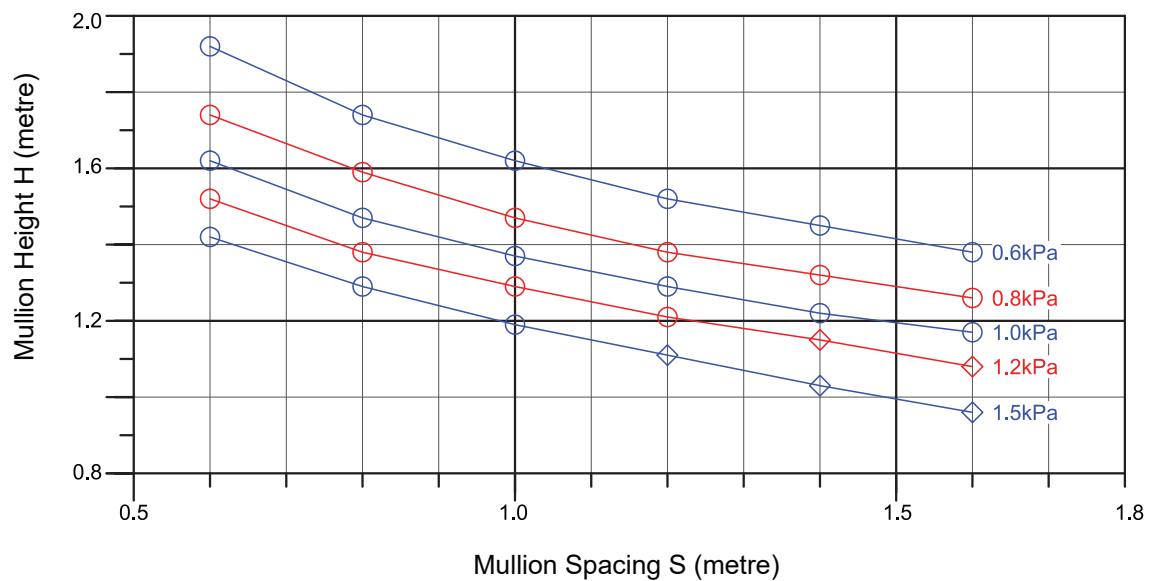
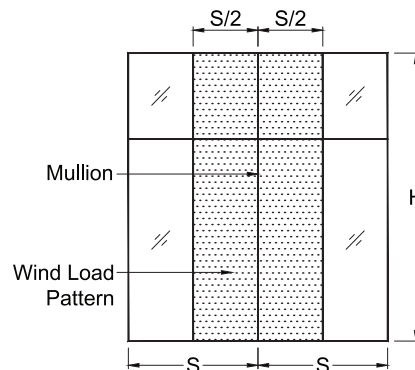
MULLION SECTION : 46654
 Alum. alloy : 6063-T5
 Moment of inertia I_{xx} : 8.3 cm^4
 Mod. of section Z_{xx} : 3.3 cm^3



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

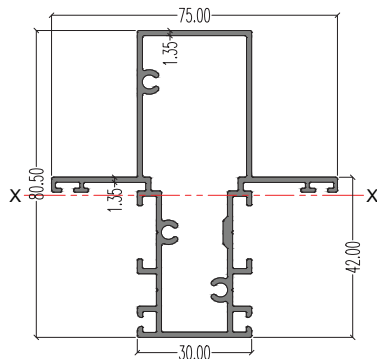
Typical configuration of window:



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

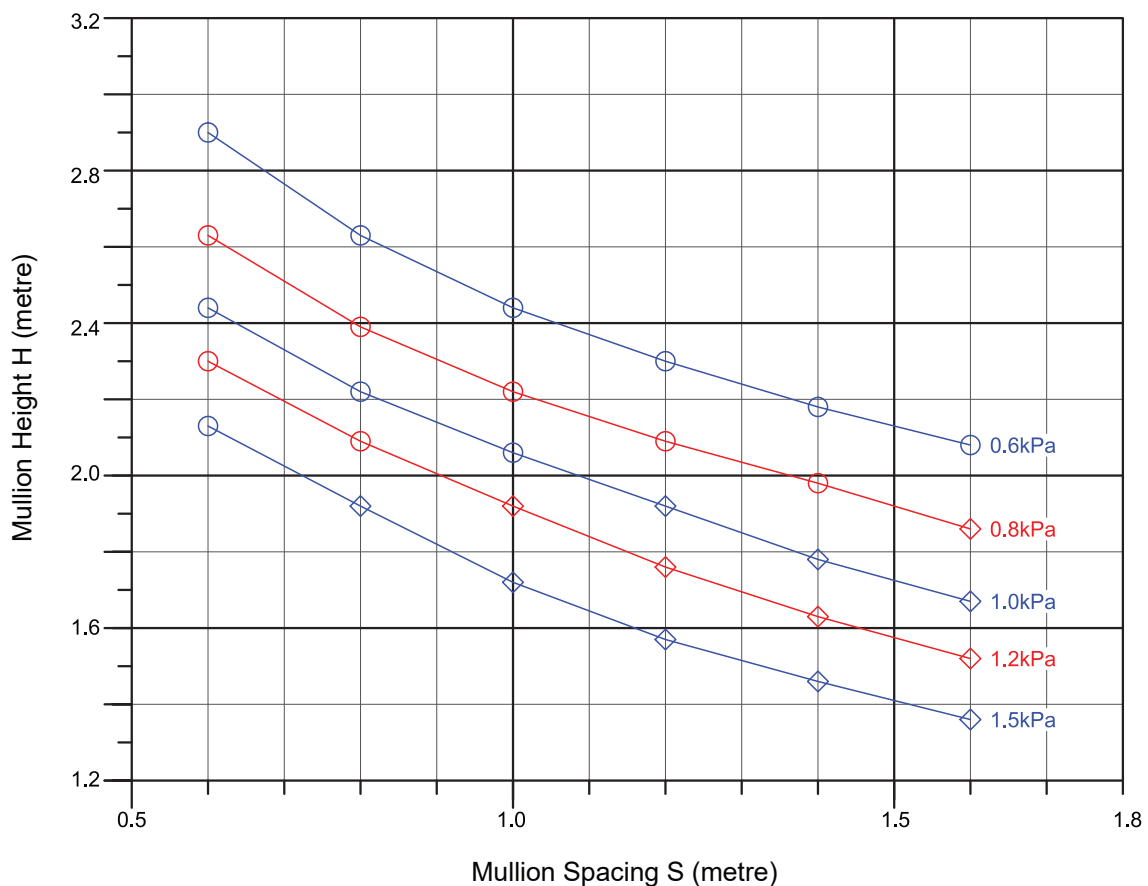
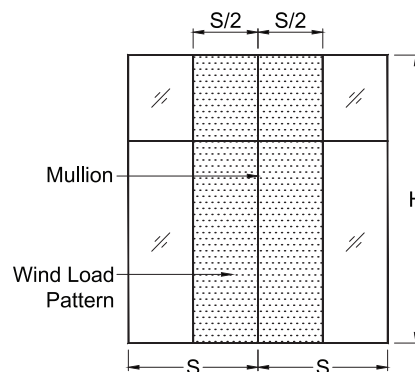
MULLION SECTION : 46650
 Alum. alloy : 6063-T5
 Moment of inertia I_{xx} : 28.5 cm^4
 Mod. of section Z_{xx} : 6.6 cm^3



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 : Span_{175} , up to max. 20mm
 Nature of anchor : Simply supported at both ends

Typical configuration of window:

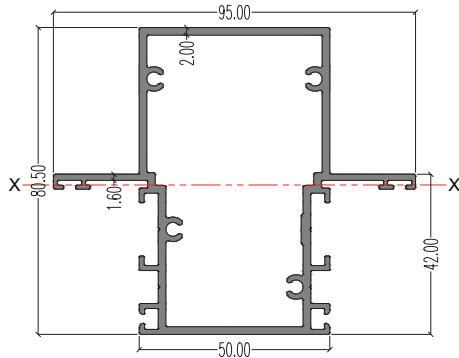


Note:
 ○ Deflection limit governs , ◇ Design bending stress governs
 :- Buckling has not been taken into account in this chart
 :- This windload chart is solely for reference only



Wind Load Chart

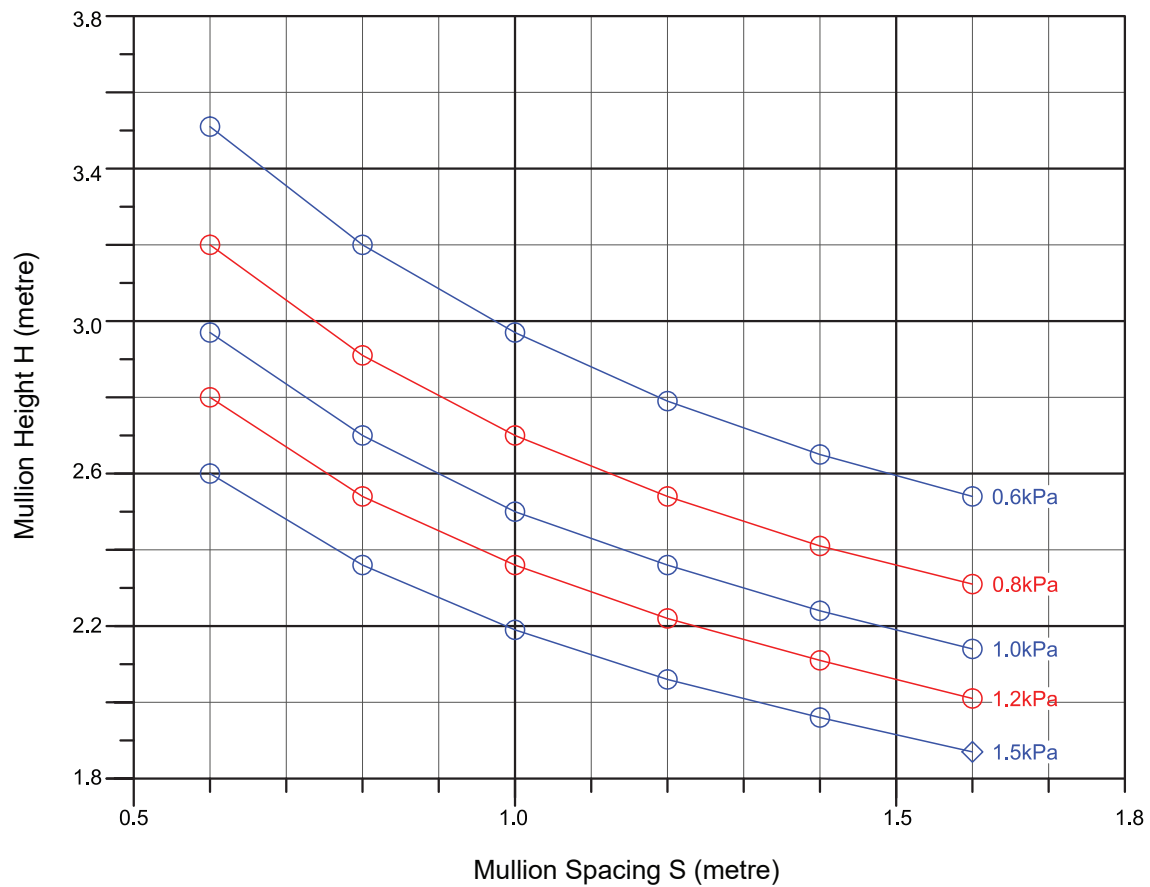
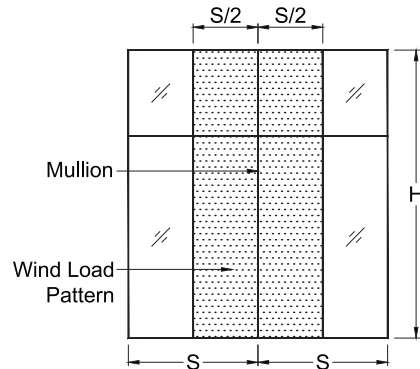
MULLION SECTION : 46653
 Alum. alloy : 6063-T5
 Moment of inertia I_{xx} : 51.1 cm^4
 Mod. of section Z_{xx} : 12.4 cm^3



Note:
 Suffix xx denotes axis perpendicular to wind load

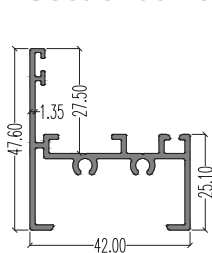
Mod. of elasticity : $70 \times 10^9 \text{ N/m}^2$
 Design bend. stress : $1.25 \times 67 \text{ MPa}$
 Deflection limit : $S_{pan}/175$, up to max. 20mm
 Nature of anchor : Simply supported at both ends

Typical configuration of window:

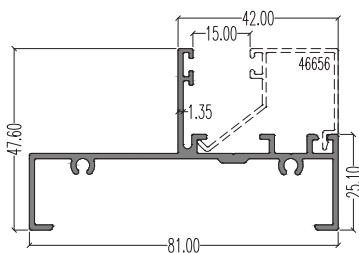


Note:
 ○ Deflection limit governs, ◇ Design bending stress governs
 :- Buckling has not been taken into account in this chart
 :- This windload chart is solely for reference only

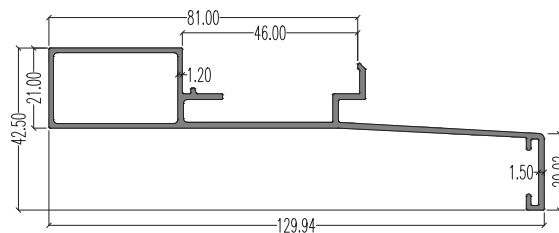
Sectional Details



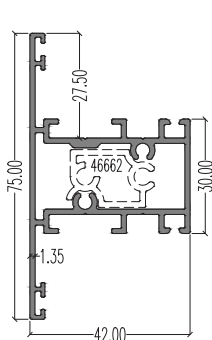
46655 (Outer)
LW : 0.619 kg/m
AP : 333.78 mm



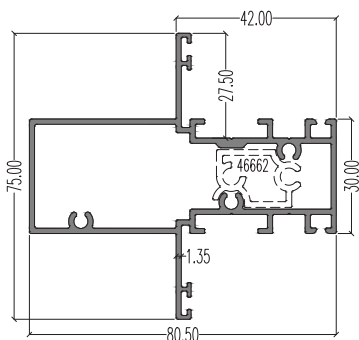
46656 (Outer)
LW : 0.793 kg/m
AP : 409.21 mm



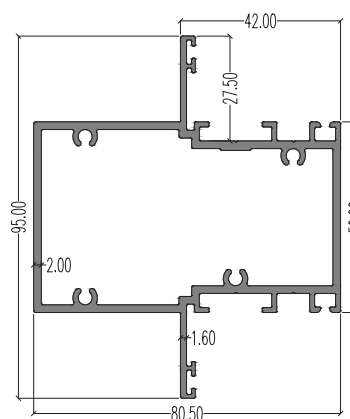
46660 (Subsill)
LW : 0.968 kg/m
AP : 420.60 mm
(For 46655)



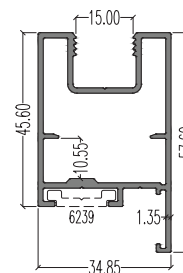
46654 (Mullion)
LW : 0.979 kg/m
AP : 362.50 mm
Ixx : 9.186 cm⁴
Iyy : 8.350 cm⁴



46650 (Mullion)
LW : 1.311 kg/m
AP : 438.82 mm
Ixx : 11.59 cm⁴
Iyy : 28.50 cm⁴

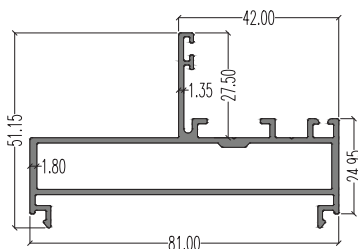


46653 (Mullion)
LW : 1.945 kg/m
AP : 476.82 mm
Ixx : 36.92 cm⁴
Iyy : 51.12 cm⁴

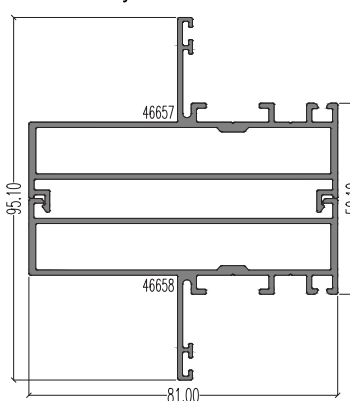


46659 (Inner)
LW : 0.826 kg/m
AP : 256.39 mm

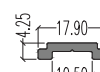
Assembly of 46657 & 46658



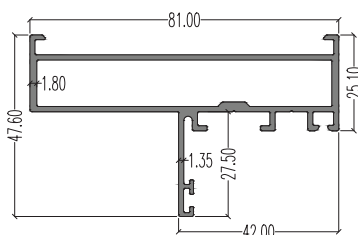
46657 (Mullion)
LW : 1.068 kg/m
AP : 366.58 mm
Ixx : 4.431 cm⁴
Iyy : 26.60 cm⁴



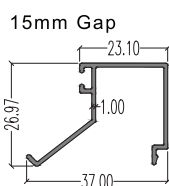
46662 (Bracket)
LW : 0.318 kg/m
AP : 85.49 mm
Ixx : 0.274 cm⁴
Iyy : 0.564 cm⁴



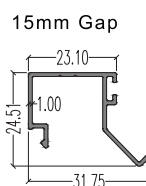
6239 (Slide Bar)
LW : 0.132 kg/m
AP : 47.73 mm



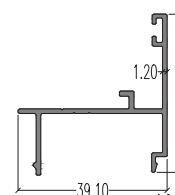
46658 (Outer)
LW : 1.025 kg/m
AP : 342.63 mm
Ixx : 4.021 cm⁴
Iyy : 24.54 cm⁴



46661 (Beading)
LW : 0.257 kg/m
AP : 186.19 mm



46651 (Beading)
LW : 0.220 kg/m
AP : 163.99 mm
(For 46652)



46652 (Beading)
LW : 0.370 kg/m
AP : 229.38 mm

For Internal Beading

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

Butt. Hinge

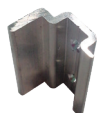


MP93C Concealed

Catches



MP930
(L10mm)



6234 Alum.

Weather Strips



PLG9124
Suntoprene
(153m / roll)



PLG6886
Suntoprene
(153m / roll)

Restrictor Bars



CB08, CB12

Push Rod



MP943KS
(L25mm)

Lockcam



MP950KS
(Adjustable)

Corner Bracket



MP580A
(31.5mm)



CB04



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

Now available at:



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CERT NO: EMS 01118