ALBENestra®

Performance Casement Window

SCW02

Designed and tested according to MS832

LB ALUMINIUM BERHAD
198501006093 (138535-V)

ALBENestra®

PERFORMANCE CASEMENT WINDOW SCW02

Product

ALBENestra SCW02

Typical Technical Features

Nominal Wall Thickness	:	1.30mm - 1.35mm
Standard Frame Depth	:	40.00mm
Mullion Depth	:	40.00mm & 80.00mm
Glazing Gap	:	12.00mm - 19.00mm
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:

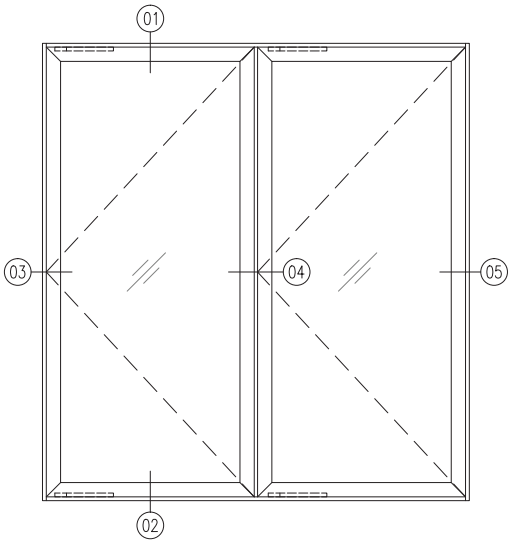
1. 1500Pa windload	:	Passed
2. 300Pa air leakage	:	Passed
3. 450Pa water infiltration	:	Passed

Note: Test report available upon request.

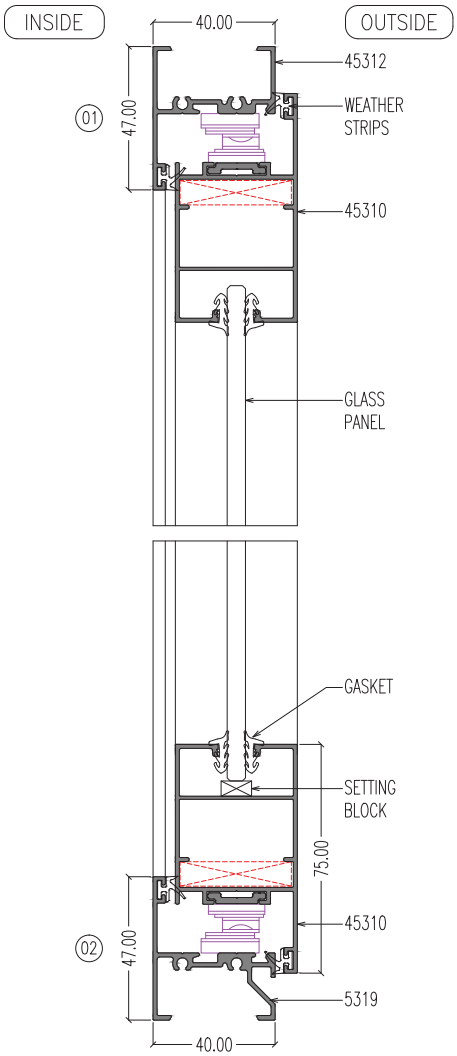
All design are properties of LB Aluminium Berhad

PERFORMANCE CASEMENT WINDOW
SCW02

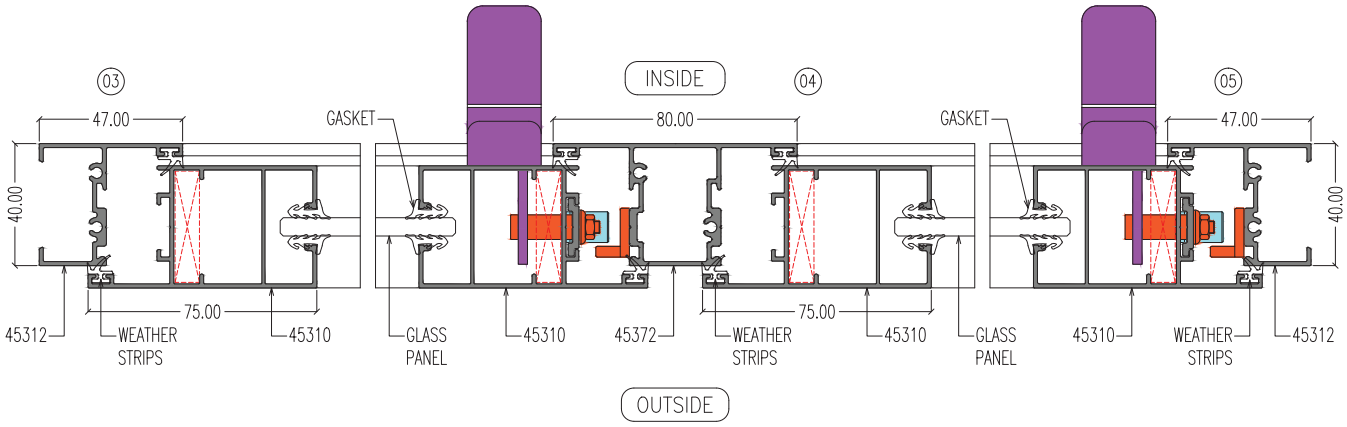
Typical Assembly Details



ELEVATION

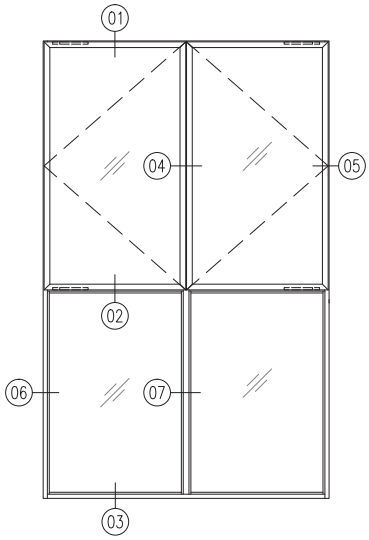


VERTICAL SECTIONS

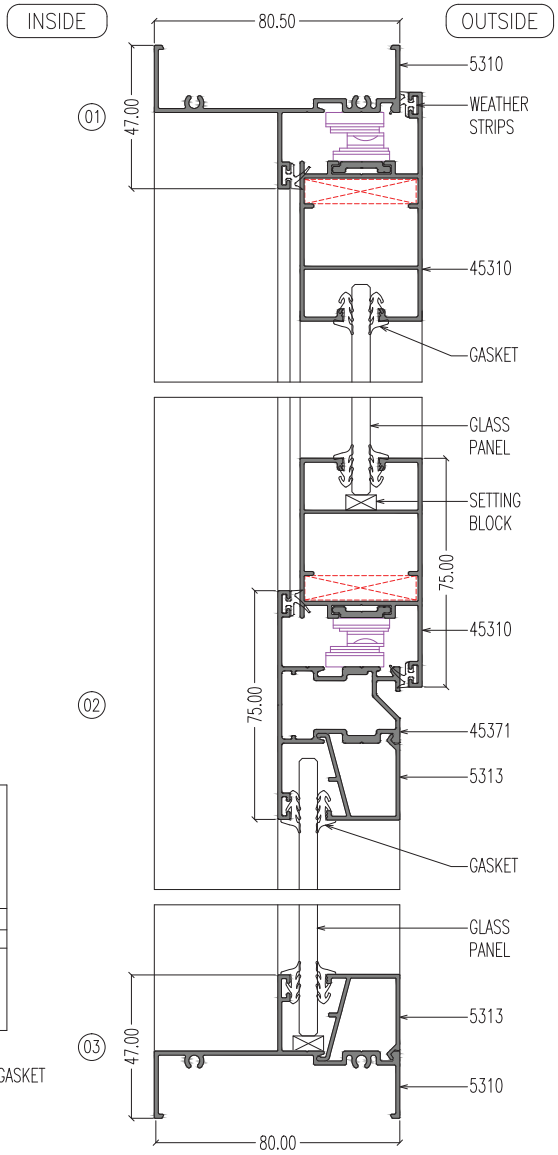


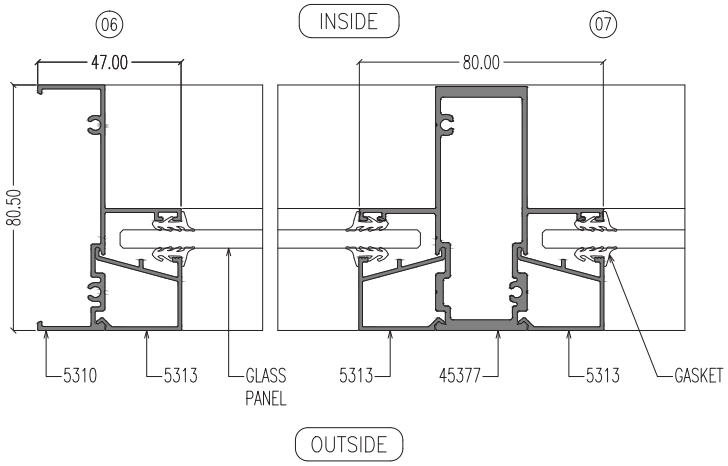
HORIZONTAL SECTIONS

Typical Assembly Details

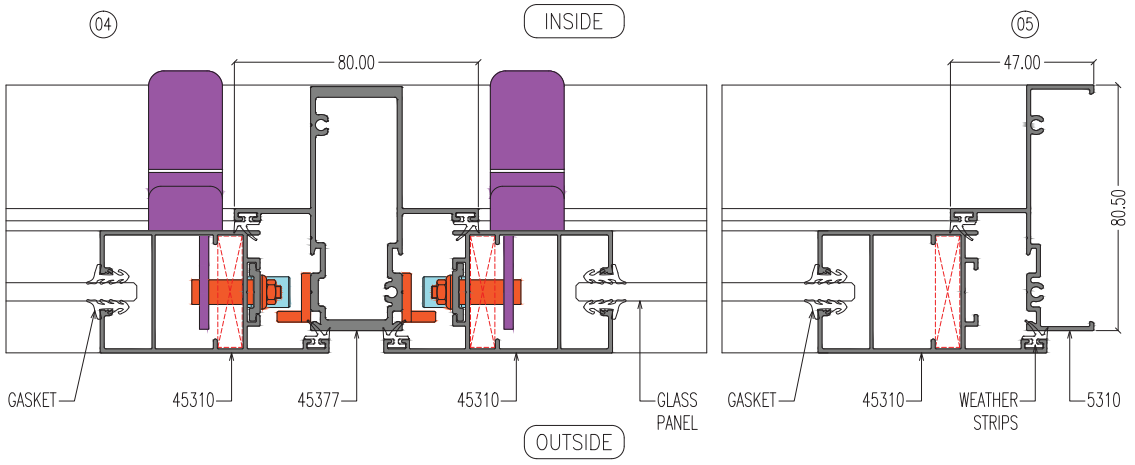


ELEVATION





VERTICAL SECTIONS



HORIZONTAL SECTIONS

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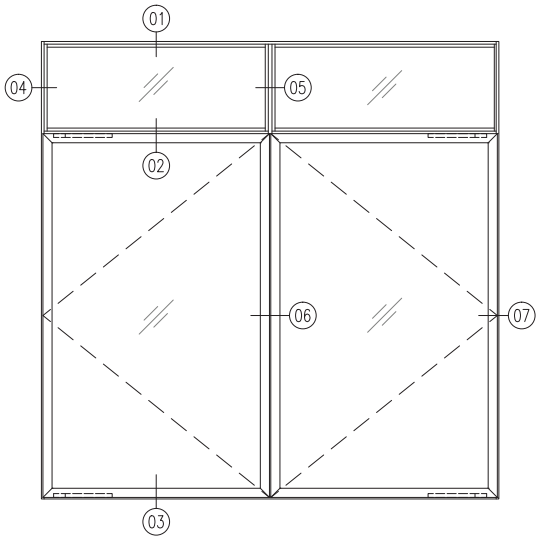
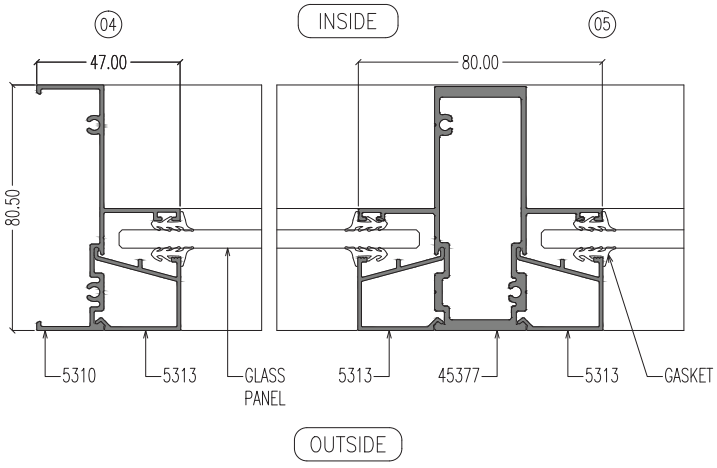
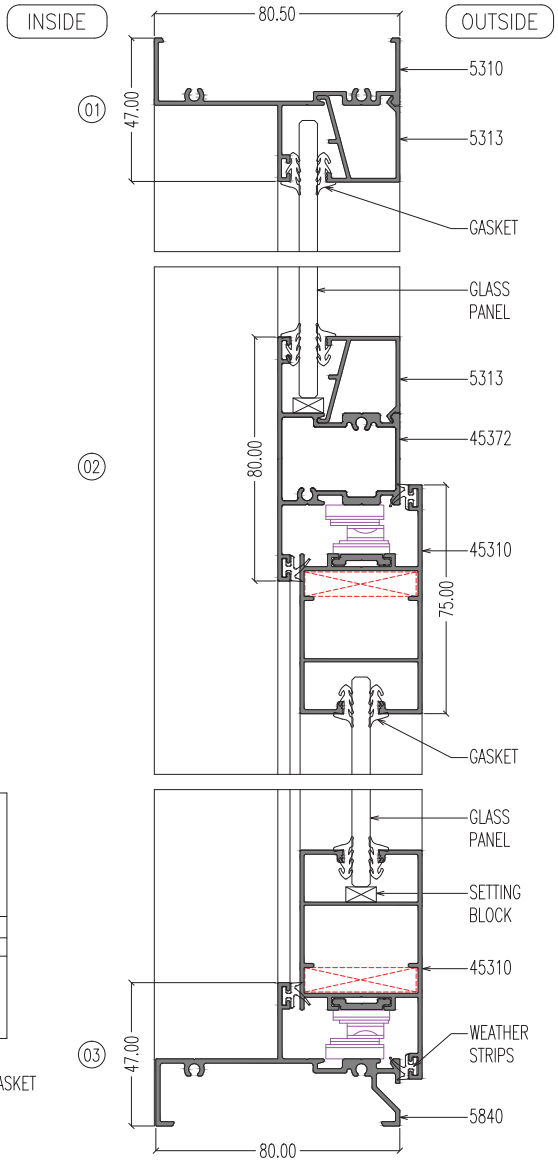
PERFORMANCE CASEMENT WINDOW
SCW02

Typical Assembly Details

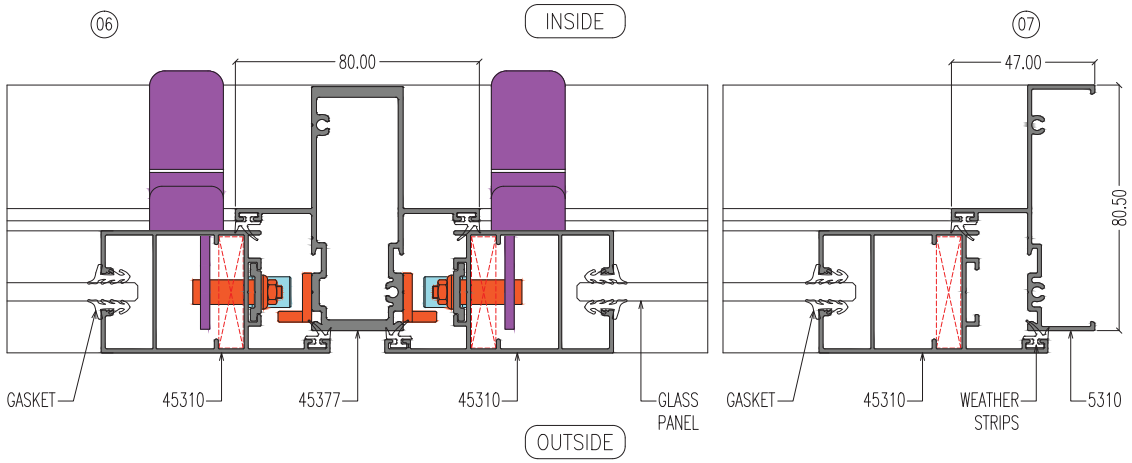


ELEVATION





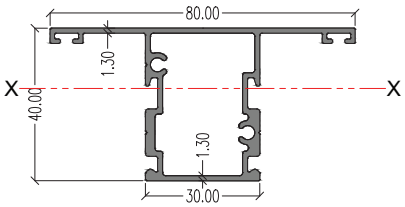
VERTICAL SECTIONS



HORIZONTAL SECTIONS

Wind Load Chart

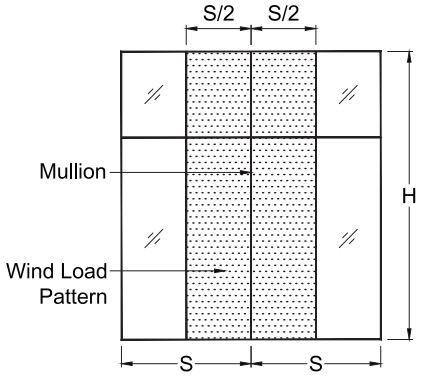
MULLION SECTION		: 45372
Alum. alloy		: 6063-T5
Moment of inertia	Ixx	: 7.4 cm^4
Mod. of section	Zxx	: 3.1 cm^3

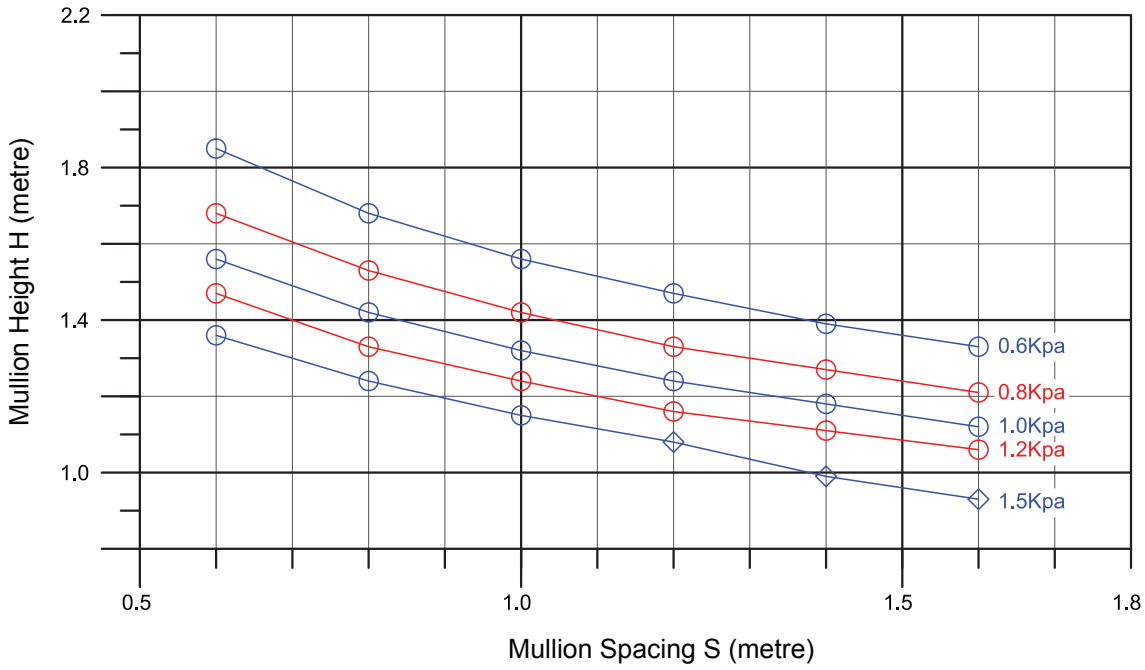


Note:
Suffix xx denotes axis perpendicular to wind load

Mod. of elasticity	: 70 x 10^9 N/m^2
Design bend. stress	: 1.25 x 67^6 N/m^2
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

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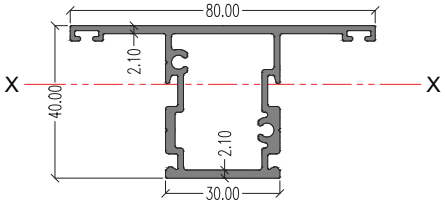
PERFORMANCE CASEMENT WINDOW
SCW02

Wind Load Chart

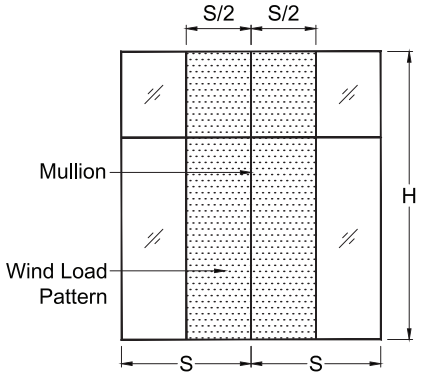
MULLION SECTION		: 45376
Alum. alloy		: 6063-T5
Moment of inertia	Ixx	: 9.4 cm^4
Mod. of section	Zxx	: 3.8 cm^3

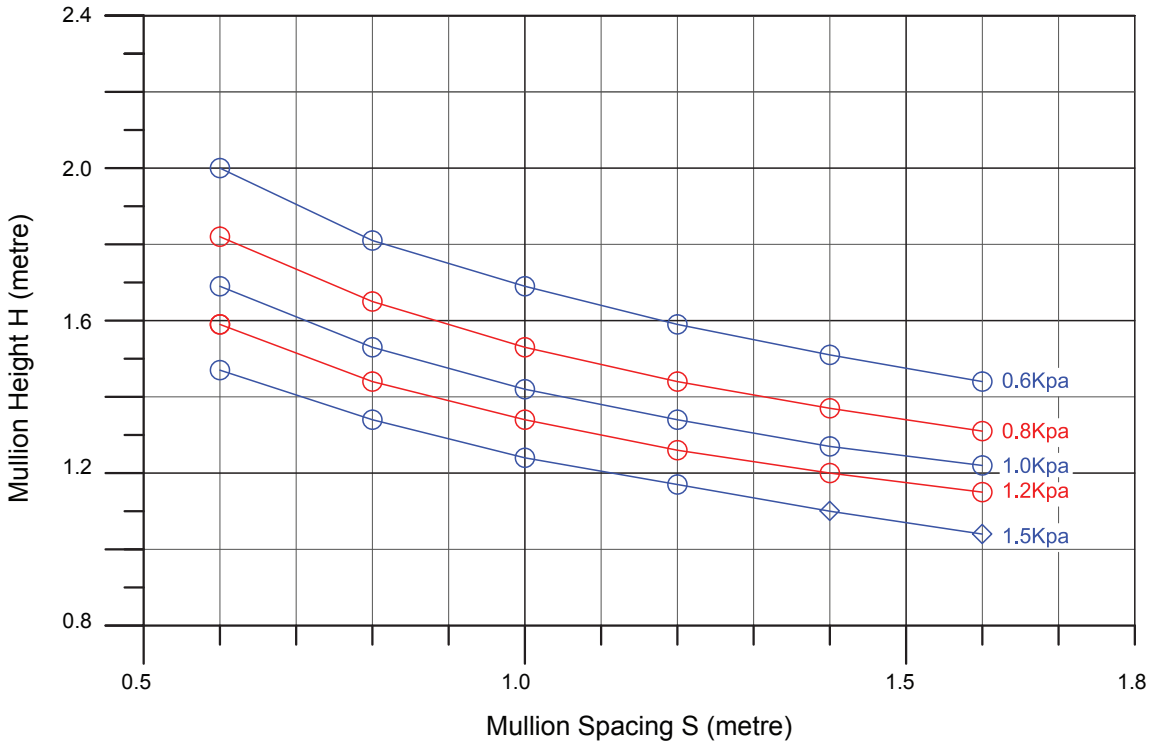


Note:
Suffix xx denotes axis perpendicular to wind load

Mod. of elasticity	:	70 x 10^9 N/m^2
Design bend. stress	:	1.25 x 67^6 N/m^2
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

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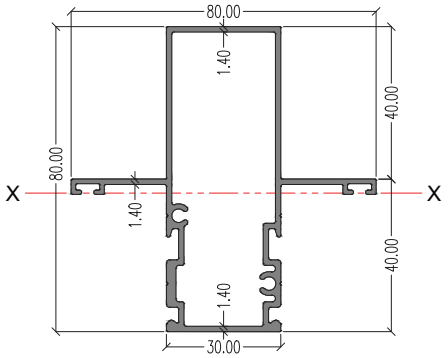
PERFORMANCE CASEMENT WINDOW
SCW02

Wind Load Chart

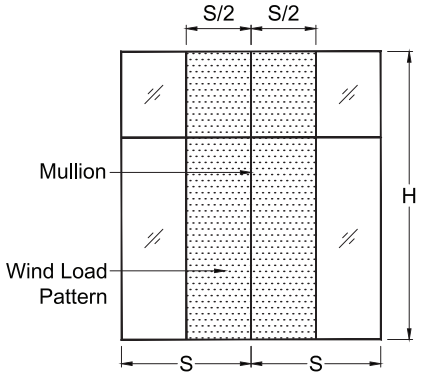
MULLION SECTION		: 45373
Alum. alloy		: 6063-T5
Moment of inertia	Ixx	: 27.6 cm^4
Mod. of section	Zxx	: 6.3 cm^3

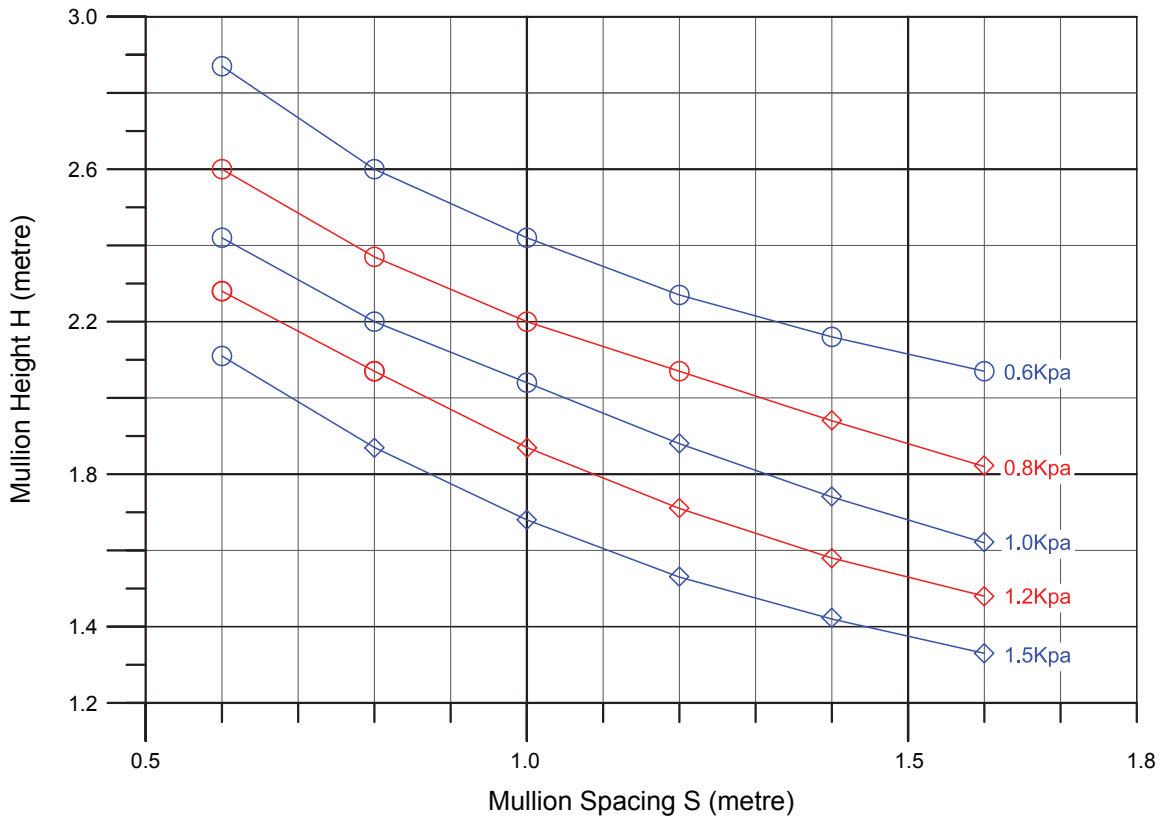


Note:
Suffix xx denotes axis perpendicular to wind load

Mod. of elasticity	:	70 x 10^9 N/m^2
Design bend. stress	:	1.25 x 67^6 N/m^2
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

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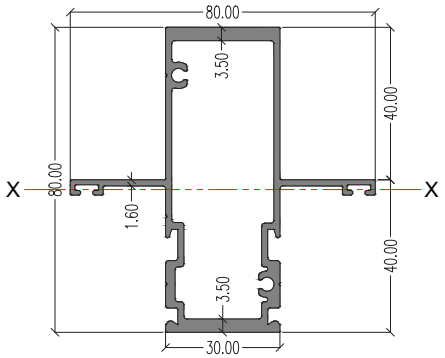
Wind Load Chart

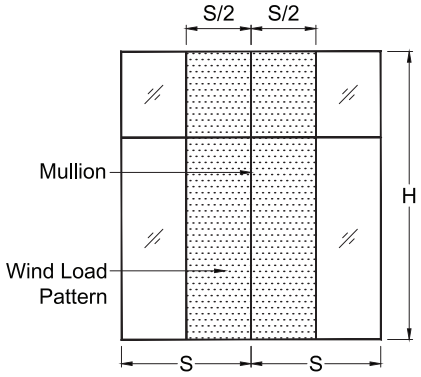
MULLION SECTION		: 45377
Alum. alloy		: 6063-T5
Moment of inertia	Ixx	: 45.2 cm^4
Mod. of section	Zxx	: 10.8 cm^3

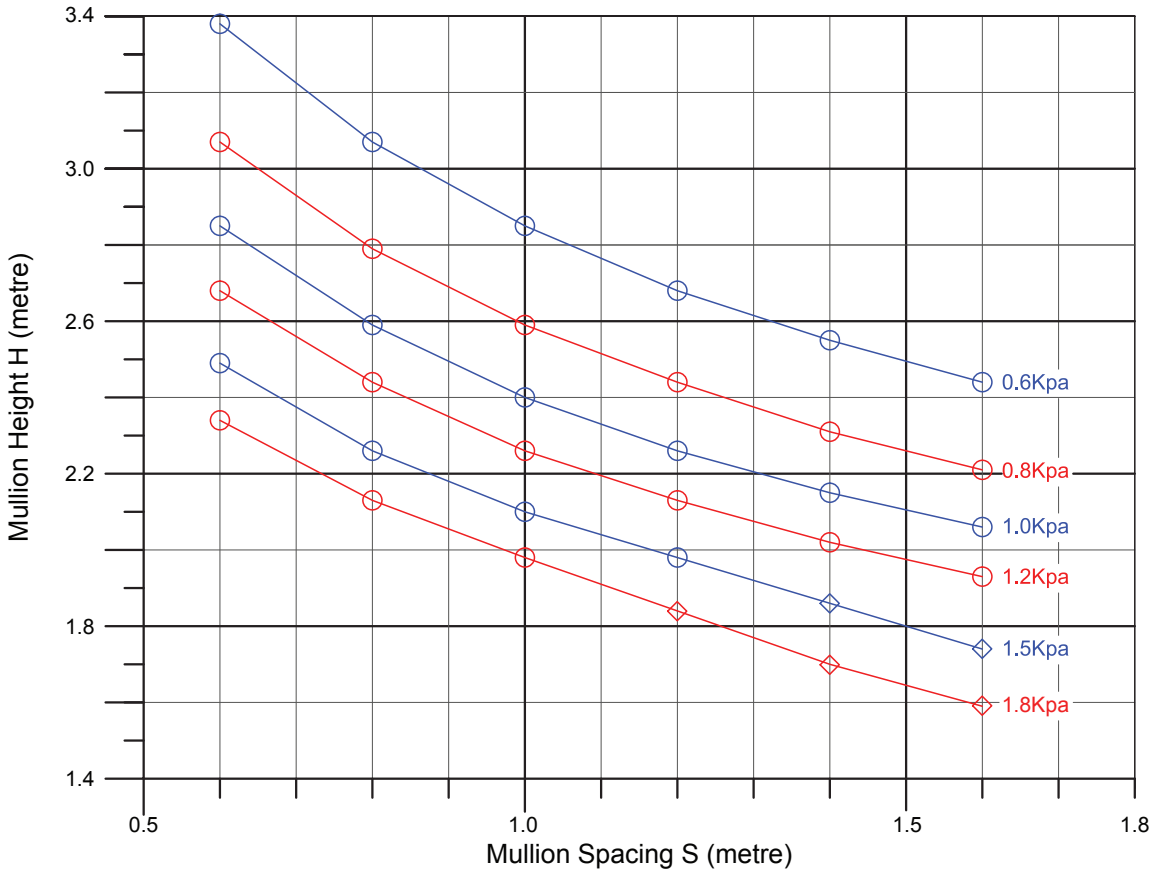


Note:
Suffix xx denotes axis perpendicular to wind load

Mod. of elasticity	: 70 x 10^9 N/m^2
Design bend. stress	: 1.25 x 67^6 N/m^2
Deflection limit	: $^{Span}/_{175}$, up to max. 20mm
Nature of anchor	: Simply supported at both ends

Typical configuration of window:





Note:

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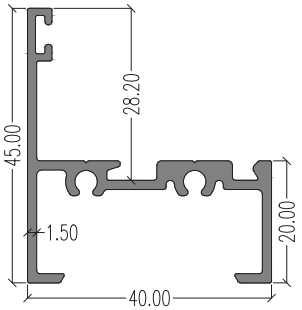
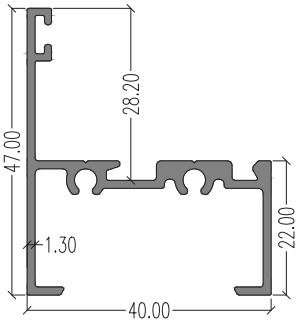
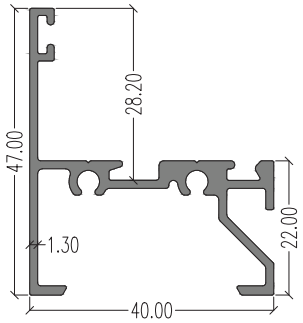
Sectional Details



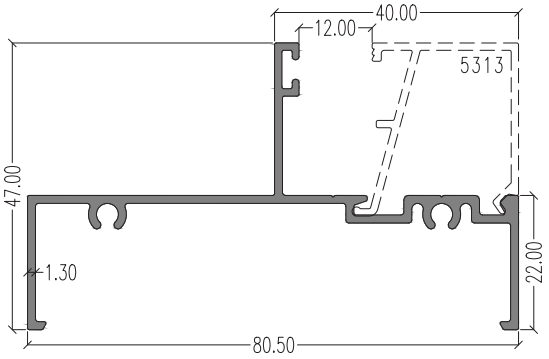
5321 (Outer)
LW : 0.607 kg/m
AP : 274.19 mm



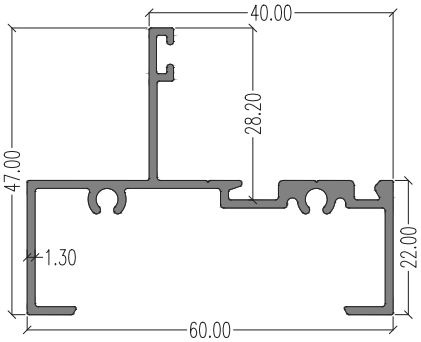
45312 (Outer)
LW : 0.562 kg/m
AP : 283.73 mm



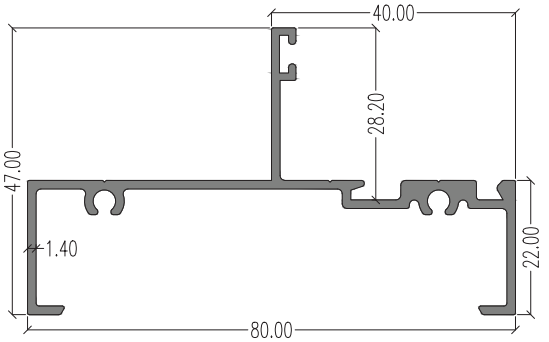
5319 (Bottom Outer)
LW : 0.607 kg/m
AP : 294.73 mm



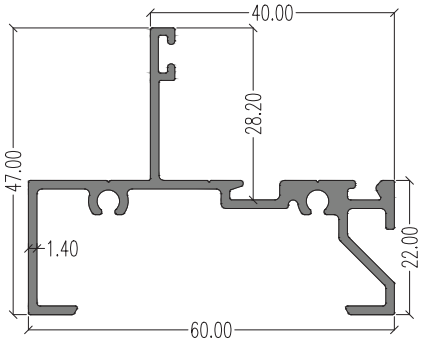
5310 (Outer)
LW : 0.672 kg/m
AP : 365.03 mm



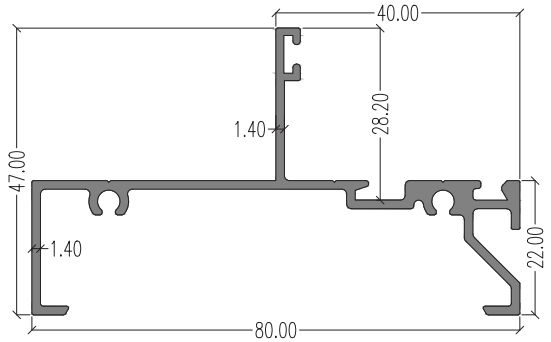
45379 (Outer)
LW : 0.651 kg/m
AP : 337.85 mm



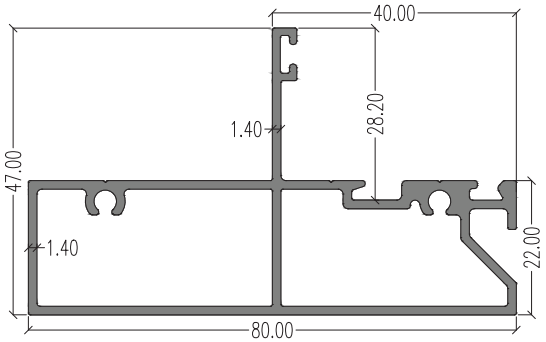
5838 (Outer)
LW : 0.760 kg/m
AP : 369.03 mm



45380 (Bottom Outer)
LW : 0.726 kg/m
AP : 346.65 mm



5840 (Bottom Outer)
LW : 0.786 kg/m
AP : 380.05 mm



46231 (Bottom Outer)
LW : 1.120 kg/m
AP : 302.31 mm

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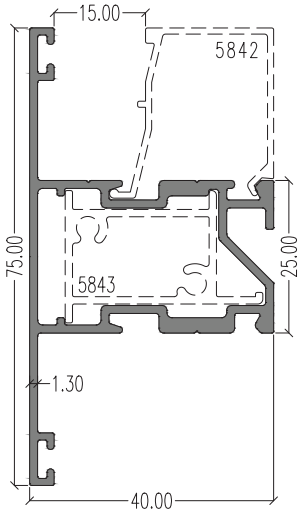
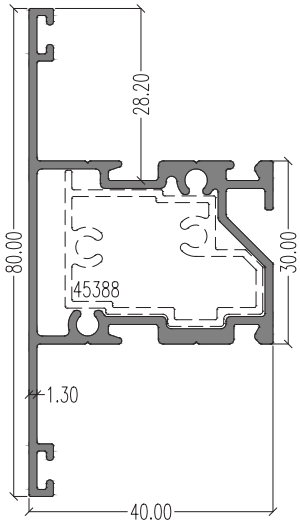
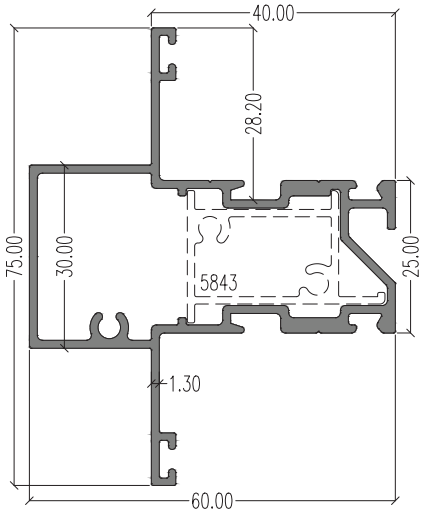
Sectional Details



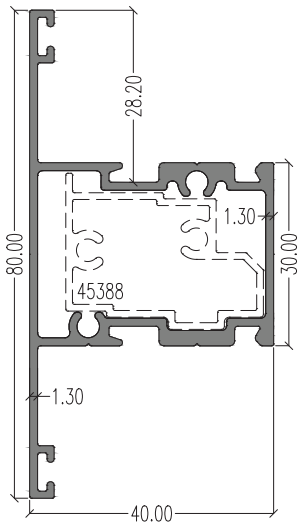
45371 (Transom)
LW : 0.869 kg/m
AP : 310.09 mm
Ixx : 8.696 cm⁴
Iyy : 6.749 cm⁴



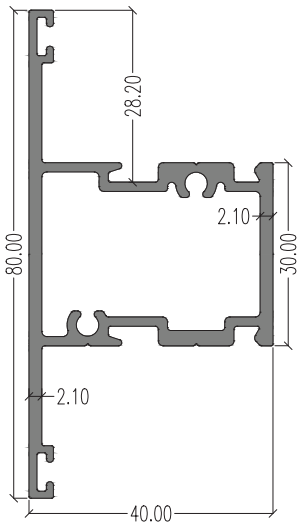
45387 (Transom)
LW : 0.941 kg/m
AP : 320.35 mm
Ixx : 11.26 cm⁴
Iyy : 7.40 cm⁴



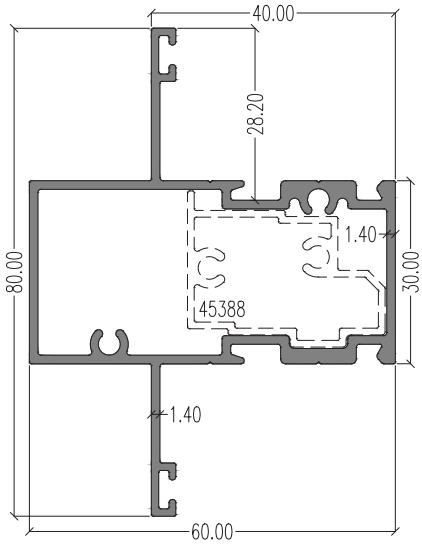
45381 (Transom)
LW : 1.070 kg/m
AP : 350.30 mm
Ixx : 10.12 cm⁴
Iyy : 13.45 cm⁴



45372 (Mullion)
LW : 0.921 kg/m
AP : 300.50 mm
Ixx : 11.25 cm⁴
Iyy : 7.375 cm⁴

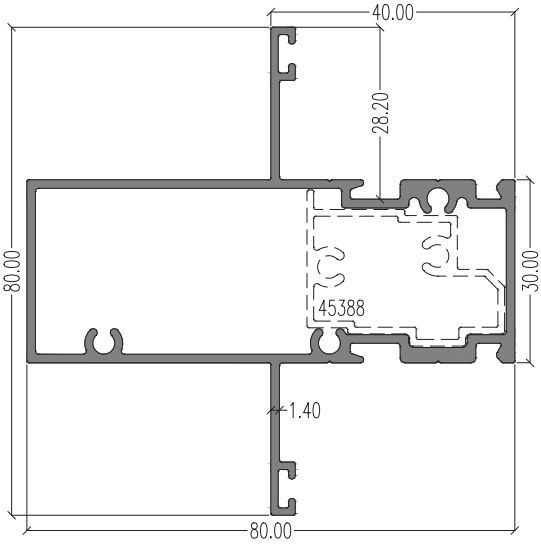


45376 (Mullion)
LW : 1.143 kg/m
AP : 297.30 mm
Ixx : 13.14 cm⁴
Iyy : 9.378 cm⁴

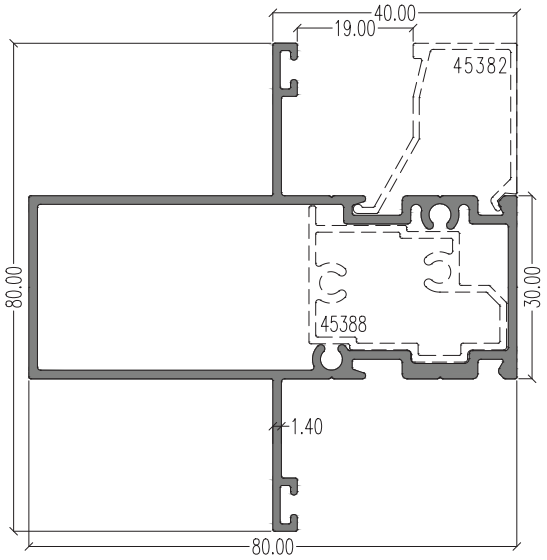


45378 (Mullion)
LW : 1.116 kg/m
AP : 340.17 mm
Ixx : 12.59 cm⁴
Iyy : 14.69 cm⁴

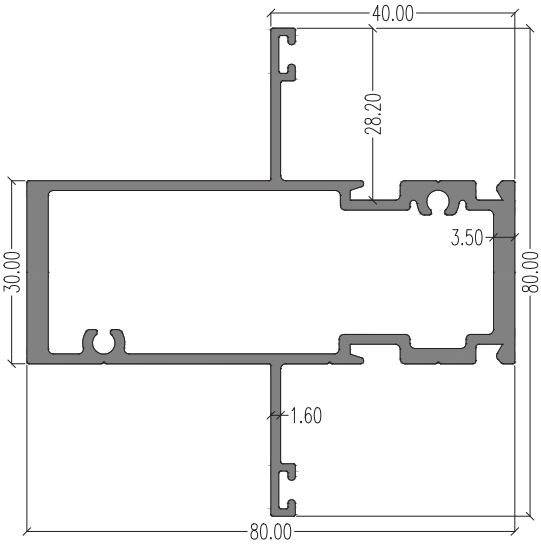
Sectional Details



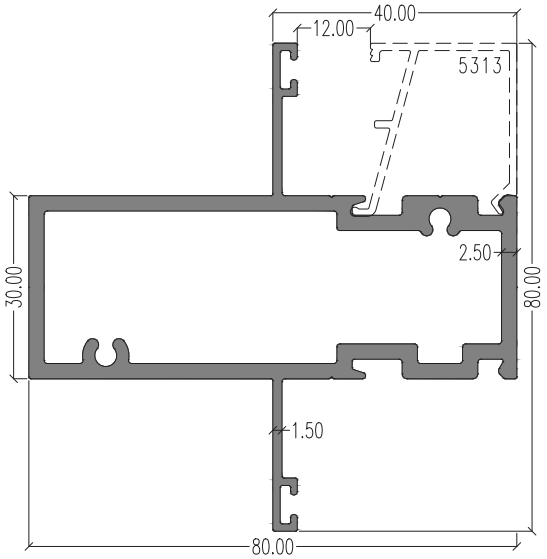
45389 (Mullion)
LW : 1.292 kg/m
AP : 380.17 mm
Ixx : 13.85 cm⁴
Iyy : 29.05 cm⁴



45373 (Mullion)
LW : 1.245 kg/m
AP : 380.17 mm
Ixx : 13.60 cm⁴
Iyy : 27.59 cm⁴



45377 (Mullion)
LW : 1.659 kg/m
AP : 380.94 mm
Ixx : 15.37 cm⁴
Iyy : 45.21 cm⁴



45362 (Mullion)
LW : 1.897 kg/m
AP : 379.55 mm
Ixx : 16.73 cm⁴
Iyy : 45.15 cm⁴

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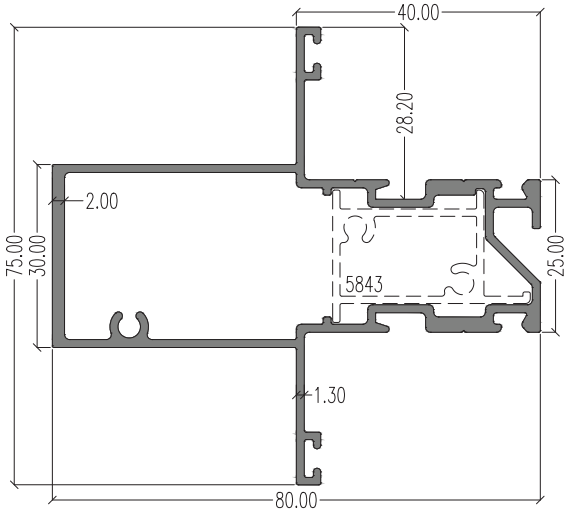
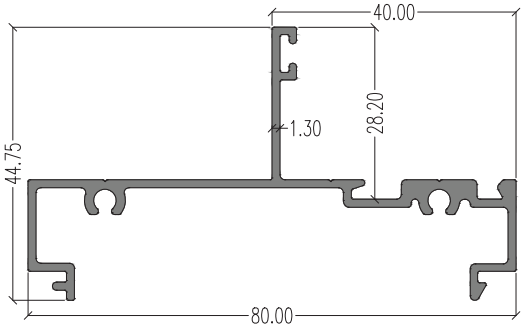
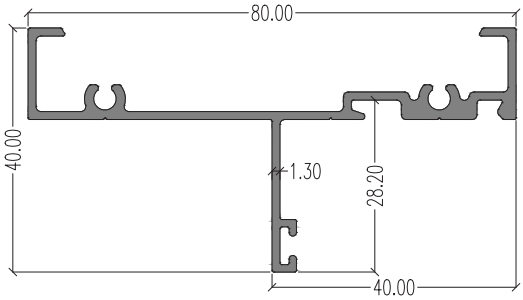
Sectional Details



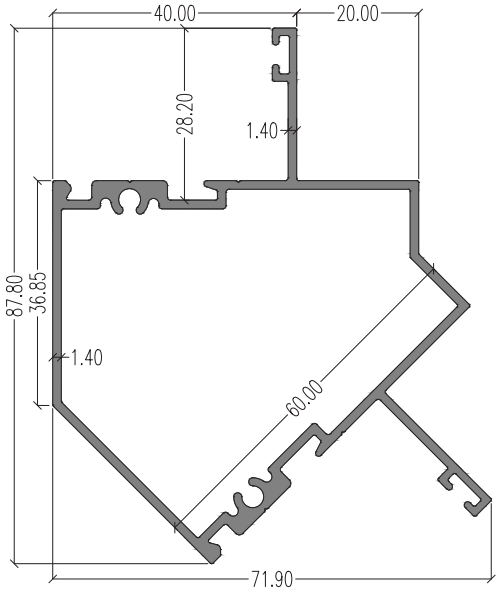
45370 (Transom)
LW : 1.263 kg/m
AP : 390.68 mm
Ixx : 11.32 cm⁴
Iyy : 29.97 cm⁴



45390 (Mullion)
LW : 0.737 kg/m
AP : 370.73 mm
Ixx : 2.235 cm⁴
Iyy : 19.06 cm⁴

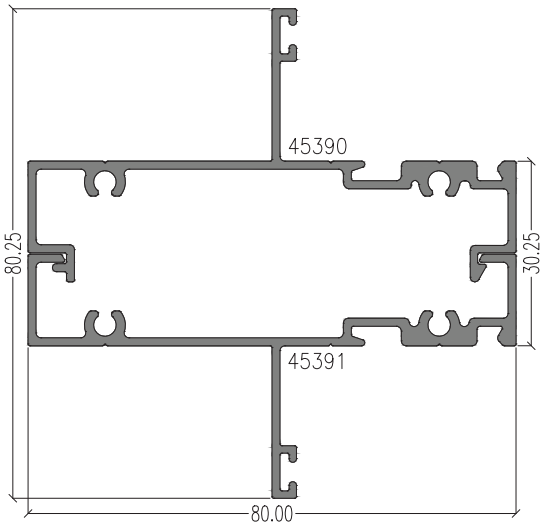


45391 (Mullion)
LW : 0.681 kg/m
AP : 340.70 mm
Ixx : 1.724 cm⁴
Iyy : 16.71 cm⁴

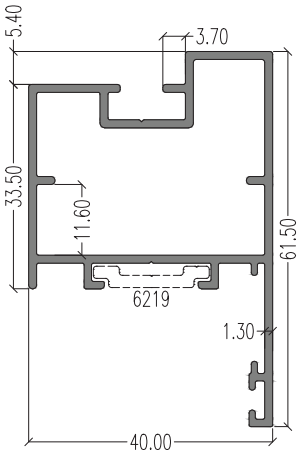


45384 (Corner Frame)
LW : 1.240 kg/m
AP : 379.52 mm
Ixx : 25.39 cm⁴
Iyy : 21.11 cm⁴

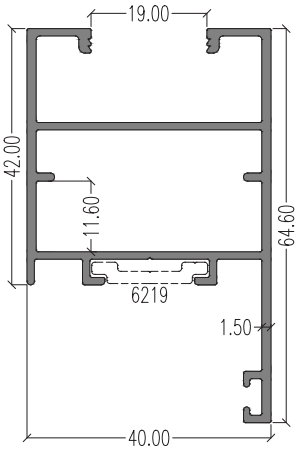
Assembly of 45390 & 45391



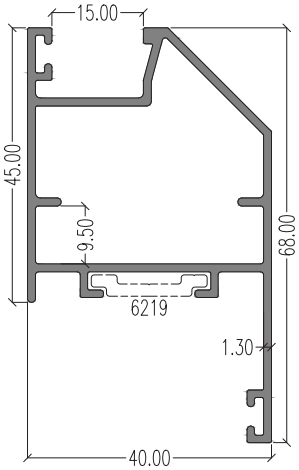
Sectional Details



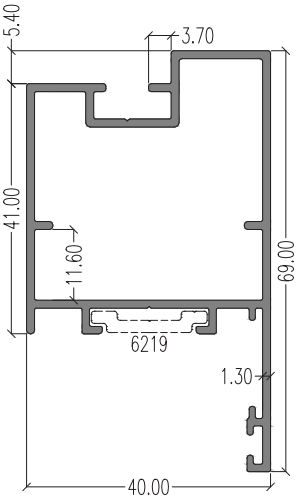
45331 (Inner)
LW : 0.773 kg/m
AP : 276.36 mm



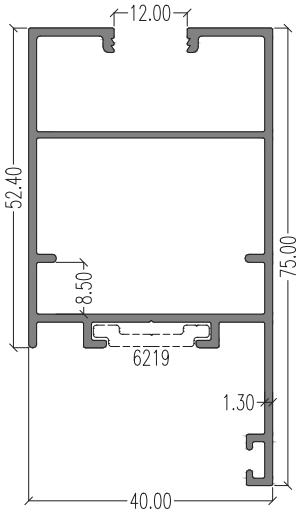
45383 (Inner)
LW : 0.847 kg/m
AP : 334.50 mm



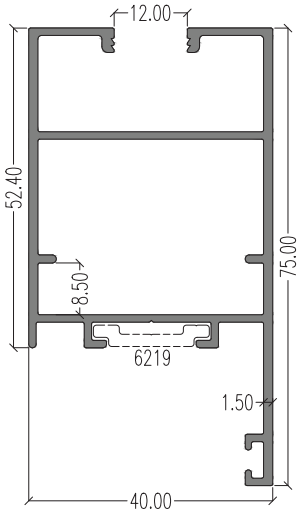
45358 (Inner)
LW : 0.804 kg/m
AP : 293.28 mm



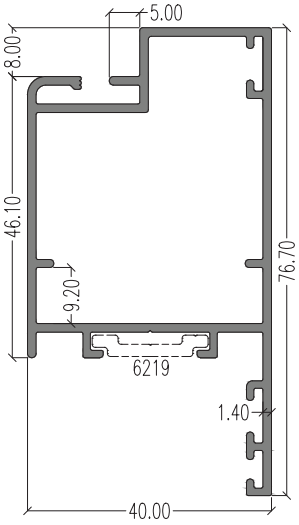
45307 (Inner)
LW : 0.826 kg/m
AP : 291.36 mm



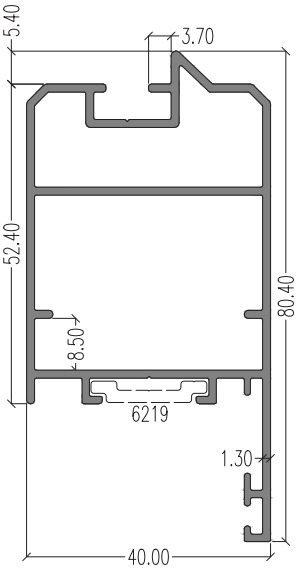
45310 (Inner)
LW : 0.889 kg/m
AP : 372.86 mm



5312 (Inner)
LW : 0.954 kg/m
AP : 372.50 mm



6287 (Inner)
LW : 0.972 kg/m
AP : 321.99 mm

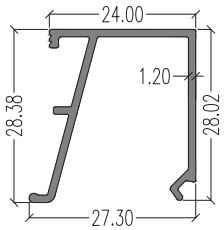


5377 (Inner)
LW : 1.021 kg/m
AP : 312.10 mm

All design are properties of LB Aluminium Berhad

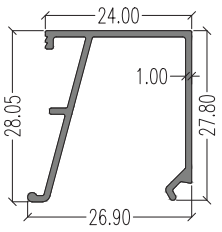
Sectional Details

12mm Gap



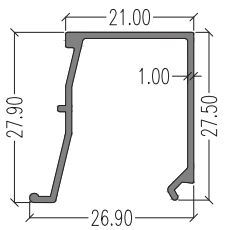
5313 (Beading)
LW : 0.287 kg/m
AP : 176.59 mm

12mm Gap



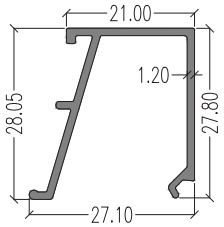
45308 (Beading)
LW : 0.244 kg/m
AP : 176.23 mm

15mm Gap



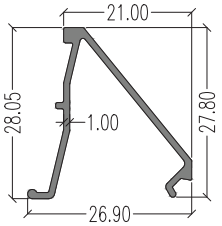
5842 (Beading)
LW : 0.233 kg/m
AP : 163.07 mm

15mm Gap



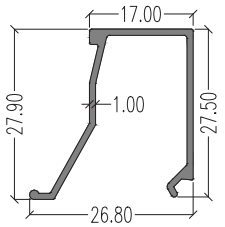
5323 (Beading)
LW : 0.275 kg/m
AP : 167.77 mm

15mm Gap

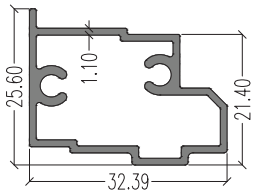


45309 (Beading)
LW : 0.204 kg/m
AP : 140.22 mm

19mm Gap

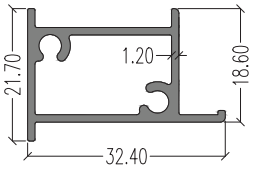


45382 (Beading)
LW : 0.222 kg/m
AP : 155.36 mm



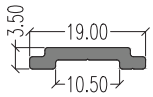
45388 (Bracket)
LW : 0.409 kg/m
AP : 111.70 mm

(For 45372, 45373, 45378, 45387 & 45389)

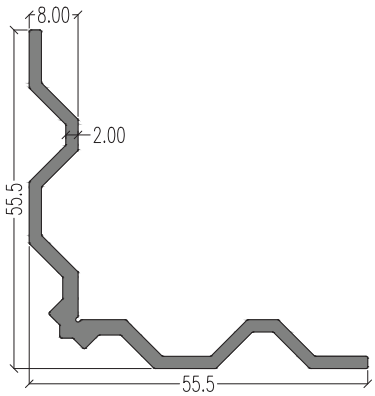


5843 (Bracket)
LW : 0.366 kg/m
AP : 113.70 mm

(For 45370, 45371 & 45381)



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



6905 (Corner Bracket)
LW : 0.681 kg/m
AP : 232.60 mm

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SCW02

Accessories

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CH100 Single-Point

CH200 Single-Point

MPH3903 Multi-Point
Single Fork

MPH3707A Multi-Point
Single/Double Fork

MPH3701A Multi-Point
Single/Double Fork

Catches

MP930S

Weather Strip

PLG 3785
Suntoprene
(153m / roll)

Friction Stay

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

8", 12", 16", SS304
Side Hung

Push Rod

MP943KS (L30mm)

Corner Bracket

MP580A

Lockcam

MP950
(10mm, 12mm)

Restrictor Bar

CB8, CB12

CB04

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198501006093 (138535-V)

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)
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