ALBENestra®

Performance Casement Window

PCW03

Designed and tested according to MS832:2022

LB ALUMINIUM BERHAD
198501006093 (138535-V)

ALBENestra®

PERFORMANCE CASEMENT WINDOW PCW03

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

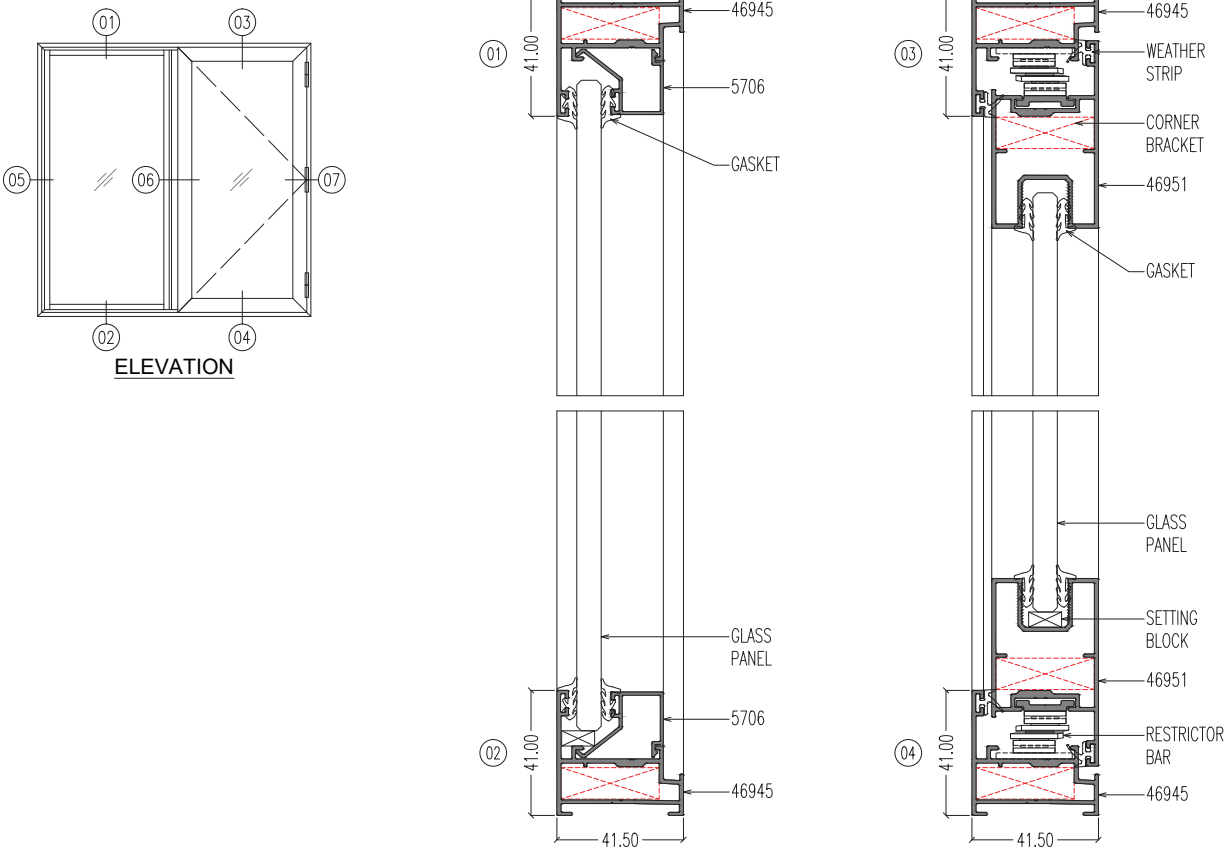
Performance Test

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

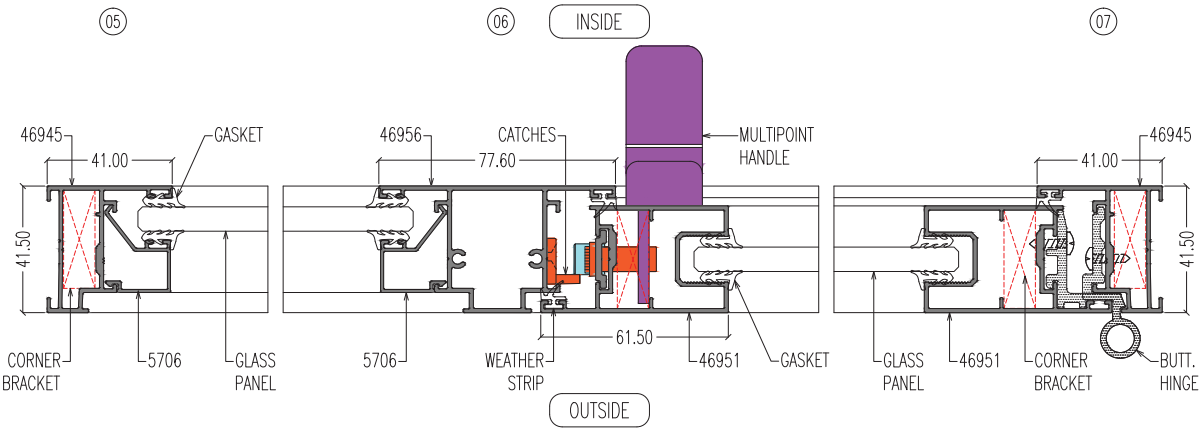
1. 1500Pa windload	:	Passed
2. 300Pa air leakage	:	Passed
3. 450Pa water infiltration	:	Passed

Note: Test report available upon request.

Typical Assembly Details

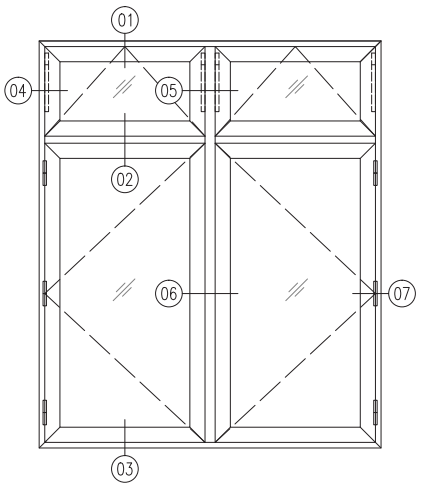


VERTICAL SECTIONS

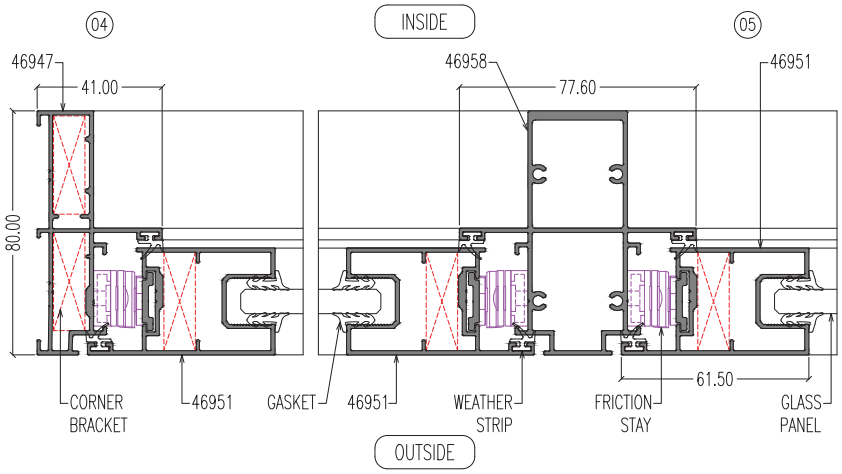


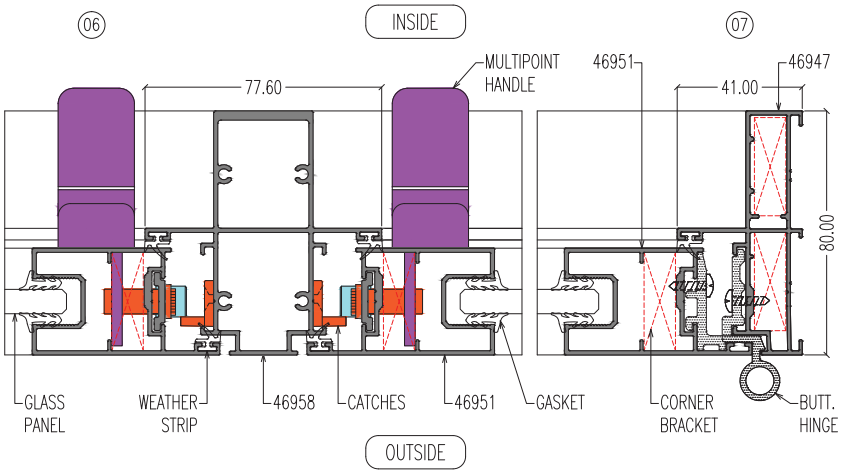
HORIZONTAL SECTIONS

Typical Assembly Details

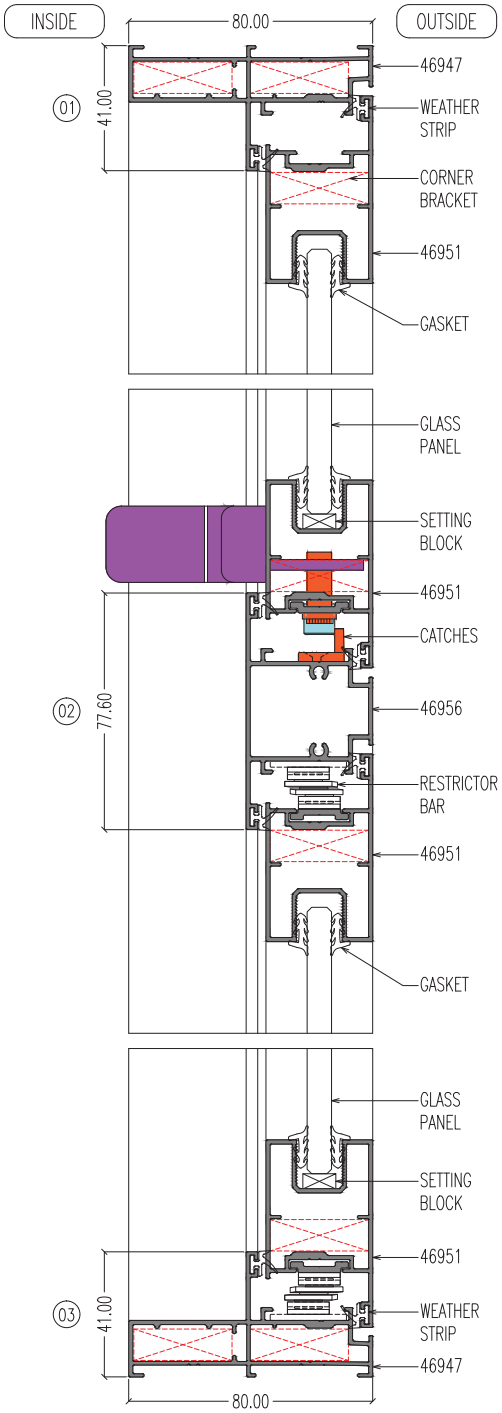


ELEVATION





HORIZONTAL SECTIONS

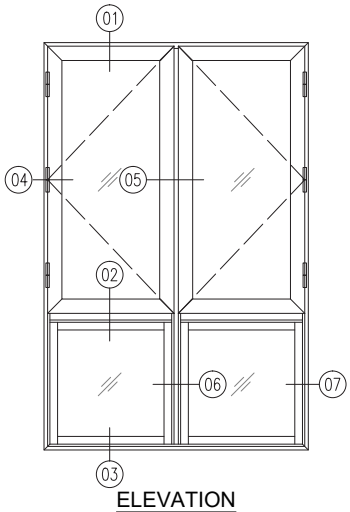


VERTICAL SECTIONS

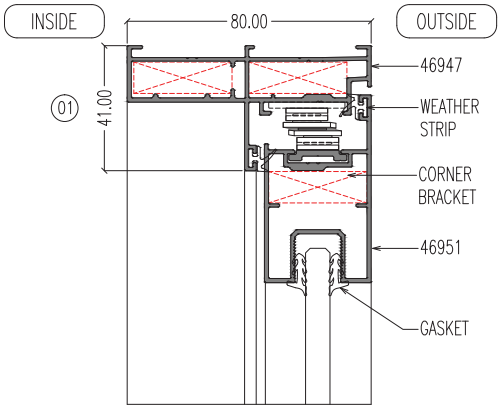
PERFORMANCE CASEMENT WINDOW
PCW03

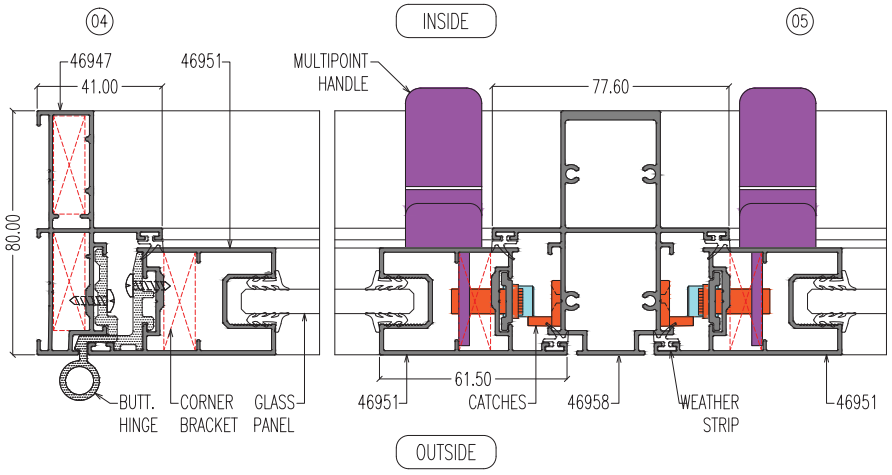
Typical Assembly Details

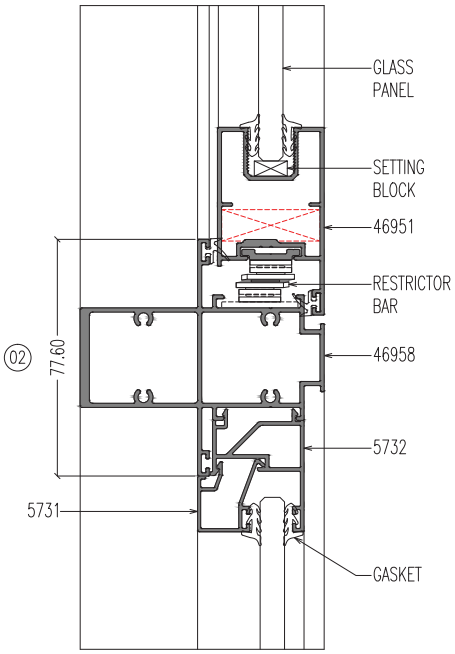
(Internal Beading)

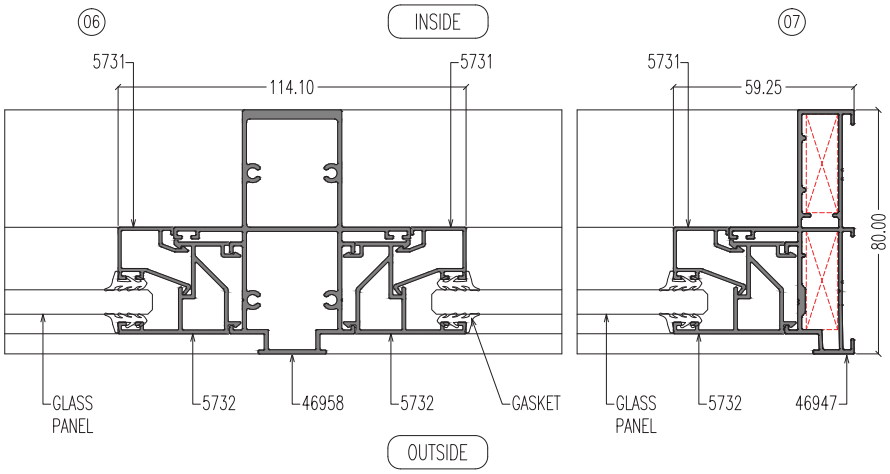


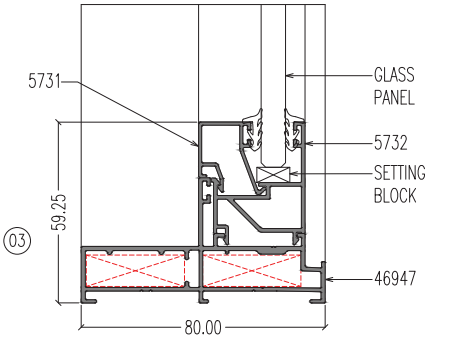
ELEVATION







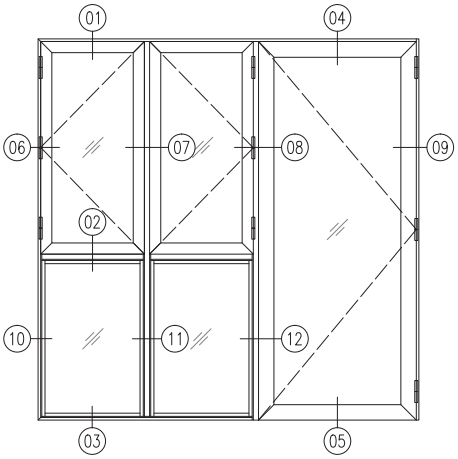




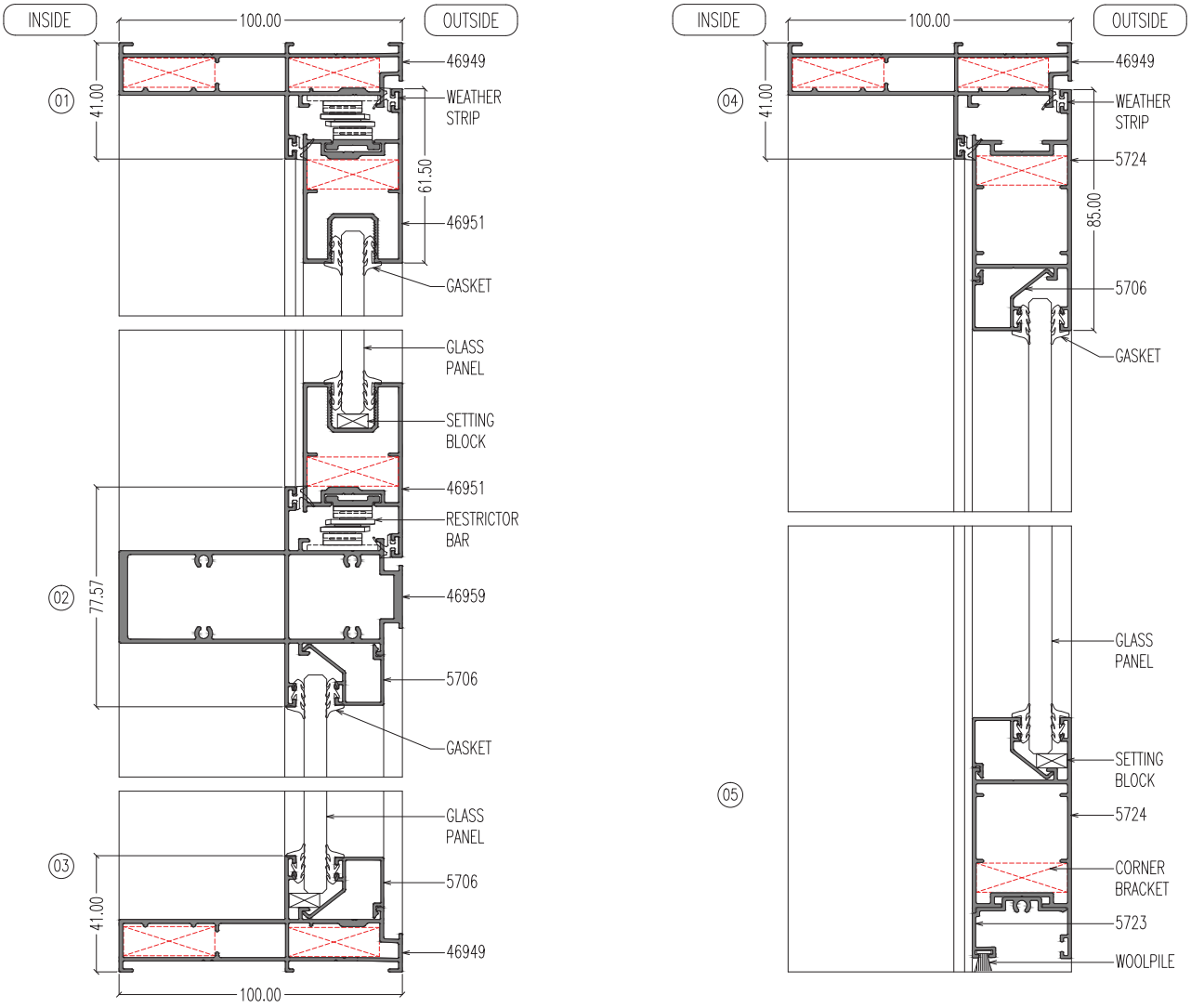
HORIZONTAL SECTIONS

VERTICAL SECTIONS

Typical Assembly Details

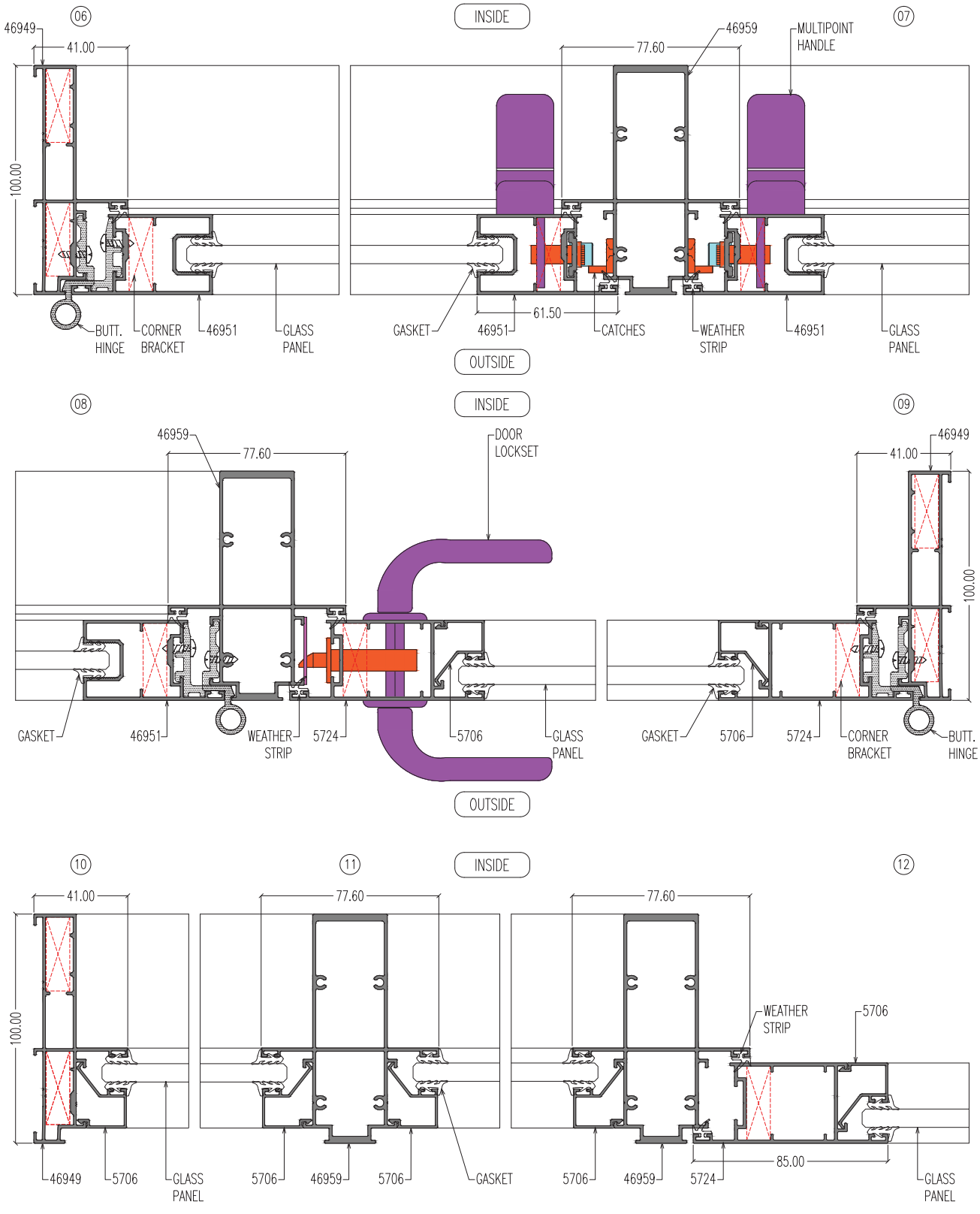


ELEVATION



VERTICAL SECTIONS

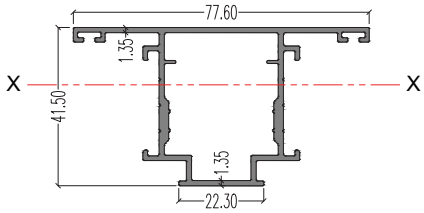
Typical Assembly Details



HORIZONTAL SECTIONS

Wind Load Chart

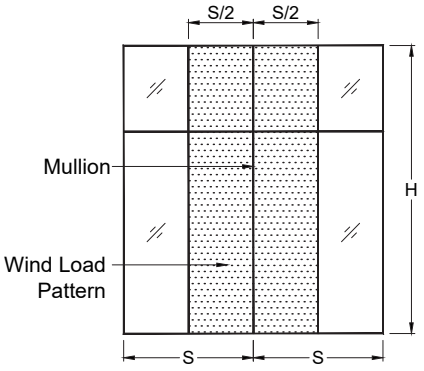
MULLION SECTION		: 46946
Alum. alloy		: 6063-T5
Moment of inertia	Ixx	: 7.6 cm^4
Mod. of section	Zxx	: 3.0 cm^3

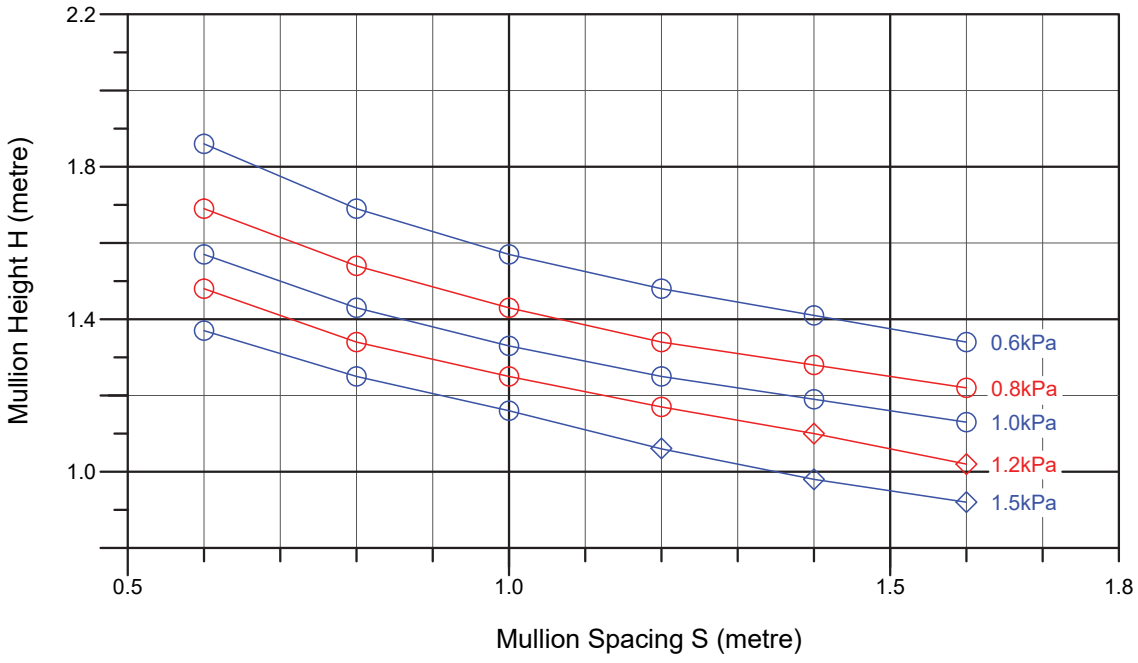


Note:
Suffix xx denotes axis perpendicular to wind load

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

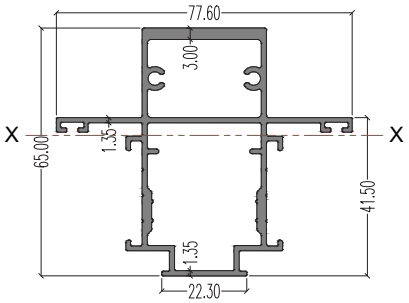
:- Buckling has not been taken into account in this chart

:- This windload chart is solely for reference only

PERFORMANCE CASEMENT WINDOW
PCW03

Wind Load Chart

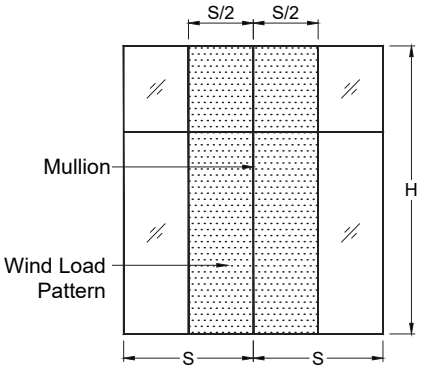
MULLION SECTION		: 46954
Alum. alloy		: 6063-T5
Moment of inertia	Ixx	: 21.0 cm^4
Mod. of section	Zxx	: 5.7 cm^3

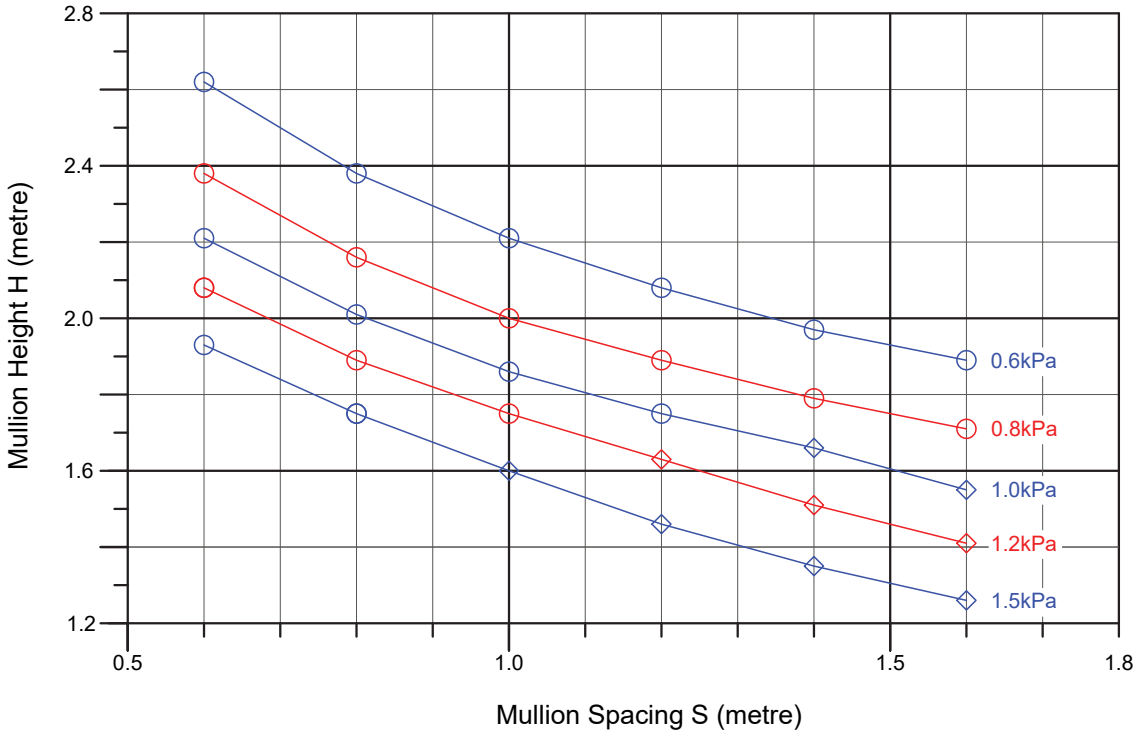


Note:
Suffix xx denotes axis perpendicular to wind load

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

Typical configuration of window:





Note:

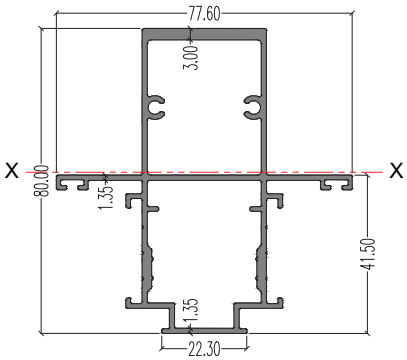
◯ Deflection limit governs , ◇ Design bending stress governs

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

:- This windload chart is solely for reference only

Wind Load Chart

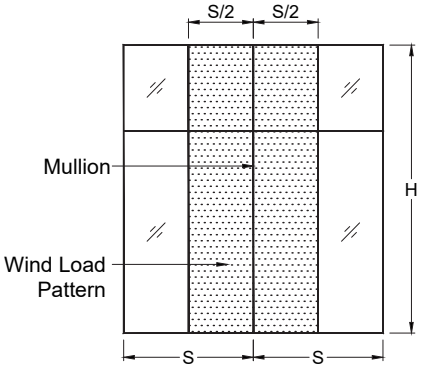
MULLION SECTION		: 46948
Alum. alloy		: 6063-T5
Moment of inertia	Ixx	: 34.6 cm^4
Mod. of section	Zxx	: 8.2 cm^3

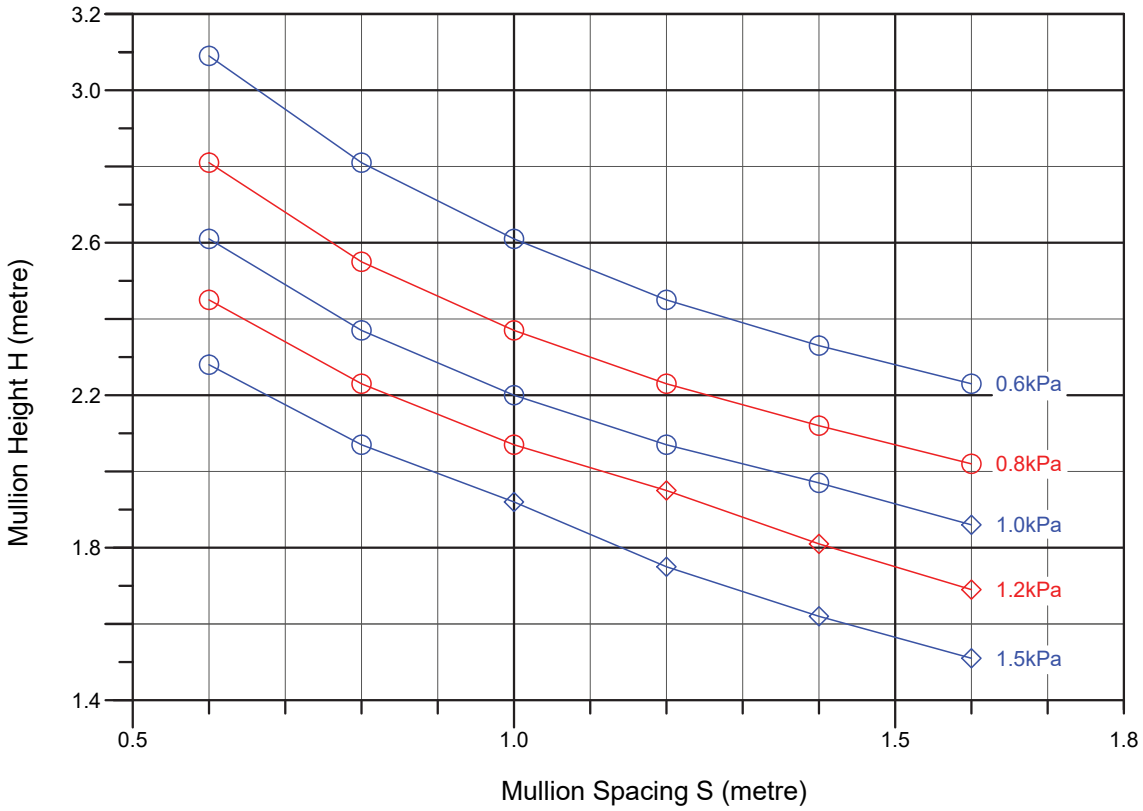


Note:
Suffix xx denotes axis perpendicular to wind load

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

Typical configuration of window:





Note:

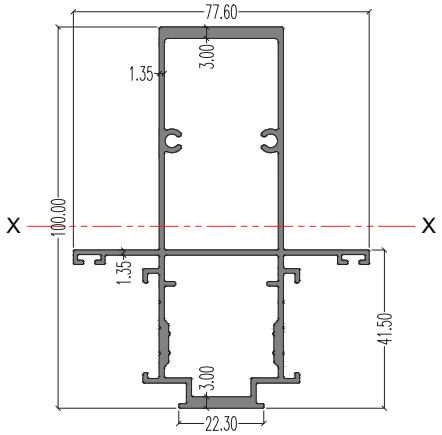
◯ Deflection limit governs , ◇ Design bending stress governs

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

:- This windload chart is solely for reference only

Wind Load Chart

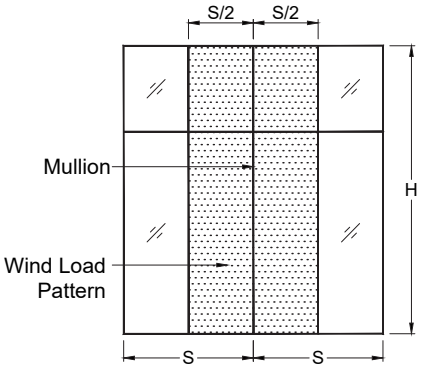
MULLION SECTION		: 46950
Alum. alloy		: 6063-T5
Moment of inertia	Ixx	: 67.2 cm^4
Mod. of section	Zxx	: 12.9 cm^3

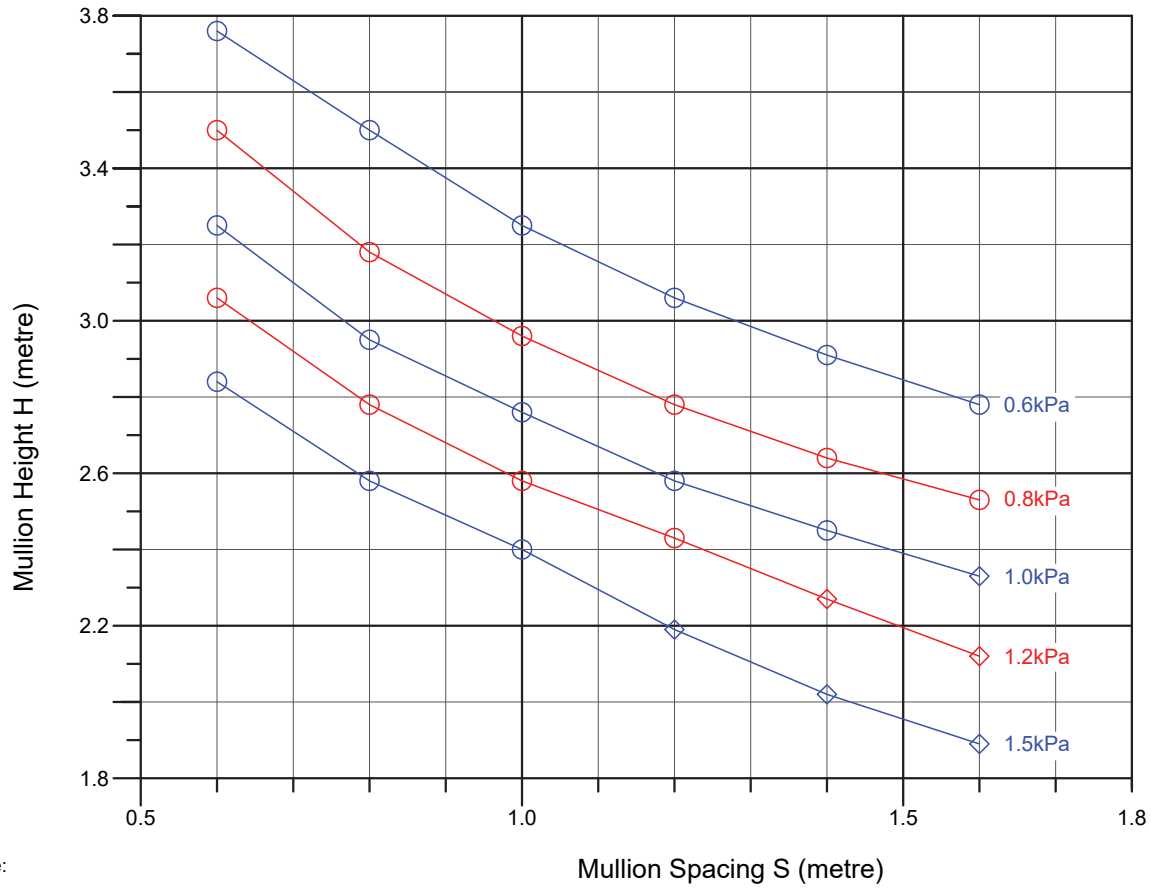


Note:
Suffix xx denotes axis perpendicular to wind load

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

Typical configuration of window:





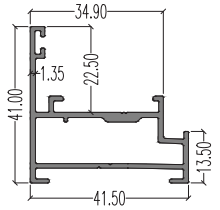
Note:

◯ Deflection limit governs , ◇ Design bending stress governs

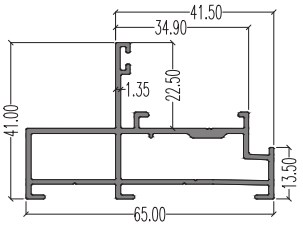
:- Buckling has not been taken into account in this chart

:- This windload chart is solely for reference only

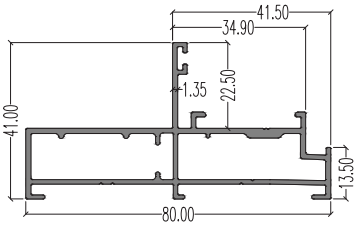
Sectional Details



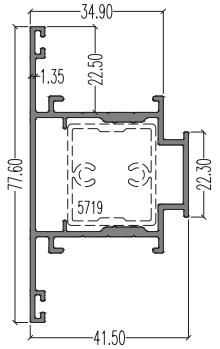
46945 (Outer)
LW : 0.599 kg/m
AP : 227.81 mm



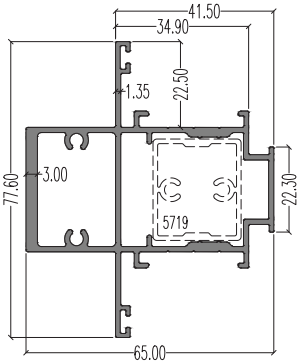
46953 (Outer)
LW : 0.826 kg/m
AP : 289.00 mm



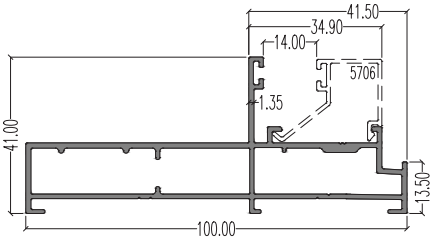
46947 (Outer)
LW : 0.938 kg/m
AP : 315.69 mm



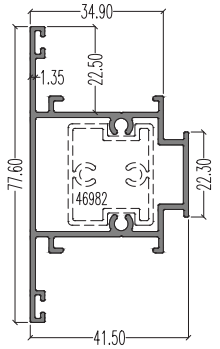
46946 (Mullion)
LW : 0.915 kg/m
AP : 322.10 mm
Ixx : 11.51 cm⁴
Iyy : 7.581 cm⁴



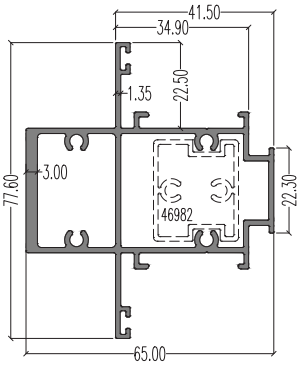
46954 (Mullion)
LW : 1.410 kg/m
AP : 368.42 mm
Ixx : 14.24 cm⁴
Iyy : 21.00 cm⁴



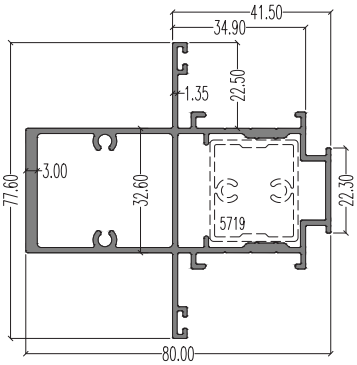
46949 (Outer)
LW : 1.069 kg/m
AP : 356.18 mm



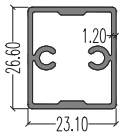
46956 (Mullion)
LW : 0.896 kg/m
AP : 321.38 mm
Ixx : 11.34 cm⁴
Iyy : 7.52 cm⁴



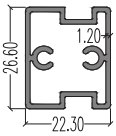
46957 (Mullion)
LW : 1.385 kg/m
AP : 367.69 mm
Ixx : 14.02 cm⁴
Iyy : 20.92 cm⁴



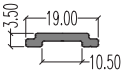
46948 (Mullion)
LW : 1.520 kg/m
AP : 398.42 mm
Ixx : 15.23 cm⁴
Iyy : 34.61 cm⁴



5719 (Bracket)
LW : 0.428 kg/m
AP : 97.68 mm
Ixx : 1.328 cm⁴
Iyy : 1.135 cm⁴
(For 46946, 46954, 46948 & 46950)

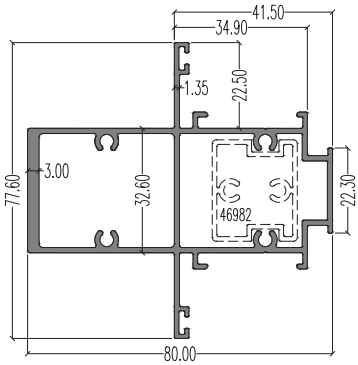


46982 (Bracket)
LW : 0.448 kg/m
AP : 107.94 mm
Ixx : 1.196 cm⁴
Iyy : 1.075 cm⁴
(For 46956, 46957, 46958 & 46959)

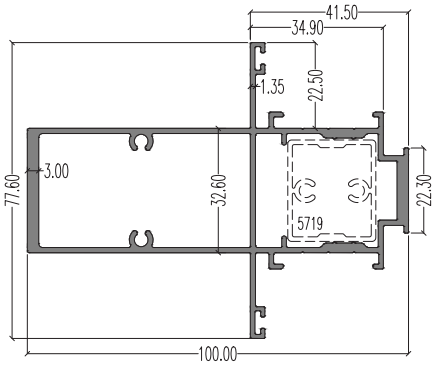


6219 (Slide Bar)
LW : 0.117 kg/m
AP : 45.58 mm

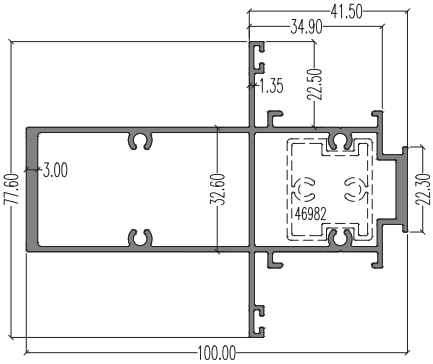
Sectional Details



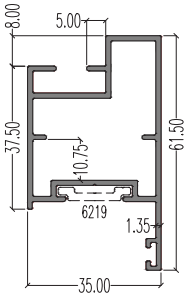
46958 (Mullion)
LW : 1.495 kg/m
AP : 397.69 mm
Ixx : 15.01 cm⁴
Iyy : 34.45 cm⁴



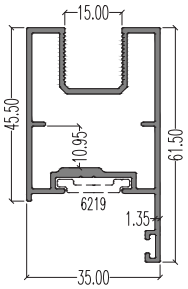
46950 (Mullion)
LW : 1.735 kg/m
AP : 438.59 mm
Ixx : 16.59 cm⁴
Iyy : 67.15 cm⁴



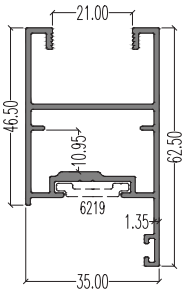
46959 (Mullion)
LW : 1.710 kg/m
AP : 437.86 mm
Ixx : 16.37 cm⁴
Iyy : 66.88 cm⁴



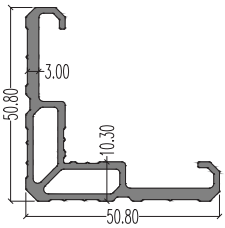
46955 (Inner)
LW : 0.774 kg/m
AP : 262.73 mm
(For Friction Stay Only)



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

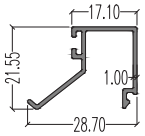


46952 (Inner)
LW : 0.826 kg/m
AP : 311.15 mm



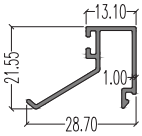
5714 (Corner Bracket)
LW : 0.955 kg/m
AP : 240.10 mm

14mm Gap



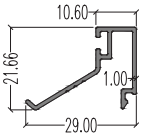
5706 (Beading)
LW : 0.209 kg/m
AP : 150.65 mm

18mm Gap



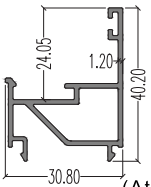
5705 (Beading)
LW : 0.207 kg/m
AP : 149.07 mm

21mm Gap



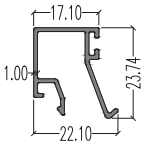
46980 (Beading)
LW : 0.201 kg/m
AP : 145.52 mm

For Internal Beading



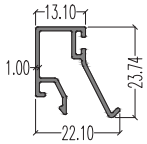
5732 (Attachment Beading)
LW : 0.447 kg/m
AP : 206.42 mm

14mm Gap



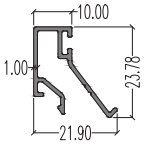
5731 (Beading)
LW : 0.226 kg/m
AP : 162.89 mm

18mm Gap



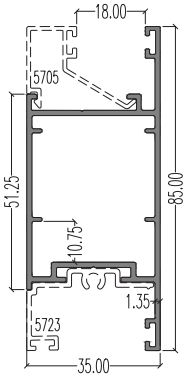
5733 (Beading)
LW : 0.216 kg/m
AP : 155.53 mm

21mm Gap

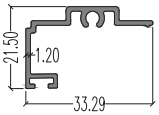


46981 (Beading)
LW : 0.207 kg/m
AP : 150.34 mm

For Swing Door Frames



5724 (Inner)
LW : 0.872 kg/m
AP : 312.78 mm



5723 (Attachment)
LW : 0.251 kg/m
AP : 151.97 mm

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

MP930S

Corner Bracket

MP580A
(31.5mm)

Friction Stays

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

8", 12", 16" SS304
Side Hung

Butt. Hinge

MP95

Door Lockset

LH216

Restrictor Bars

CB08, CB12

CB04

Lockcam

MP950
(10mm, 12mm)

Push Rod

MP941KS (L22 mm)

Weather Strip

PLG 5903
Suntoprene
(100m / roll)

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