



ALBEPorta®



Performance Sliding Door **PSD02**

Designed and tested according to MS1017:2022



LB
ALUMINIUM
BERHAD
198501006093 (138535-V)

Product

ALBEPorta PSD02

Typical Technical Features

Inner Frame Thickness	: 1.30mm - 1.50mm
Inner Frame Depth	: 32.00mm
Inner Frame Width	: 50.00mm - 70.00mm
Outer Frame	: 2 & 3 Tracks
Outer Frame Depth	: 80.00mm - 130.00mm
Corner Joints	: Mortise Joints
Glazing Gap	: 12.00mm
Locking System	: Single-point & Multipoint



Other Features

Good Aesthetics

In-builts Fixed Panels

Performance Test

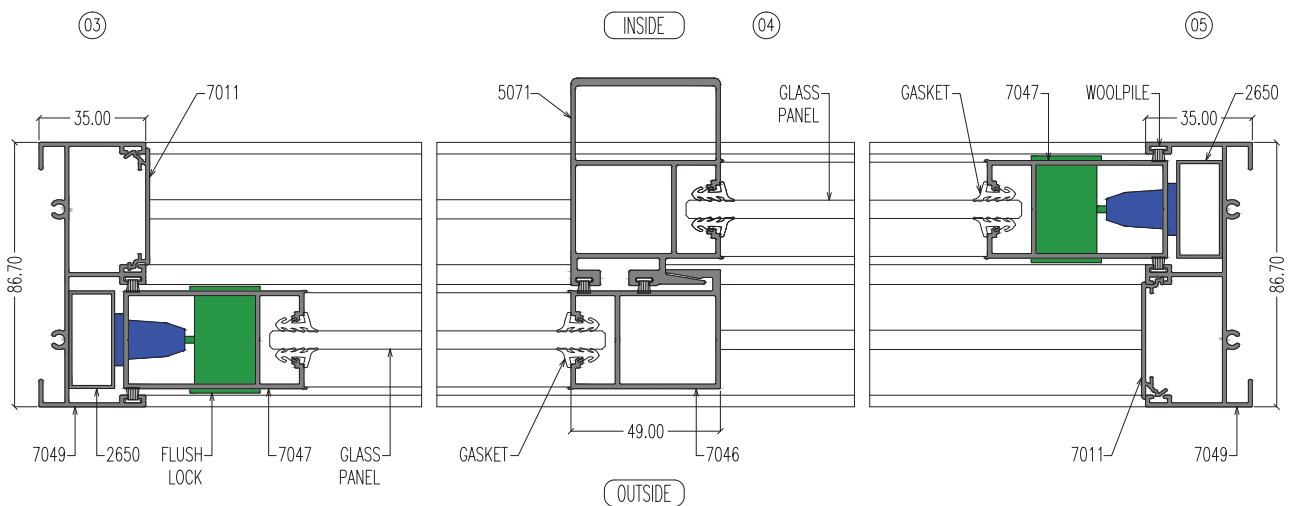
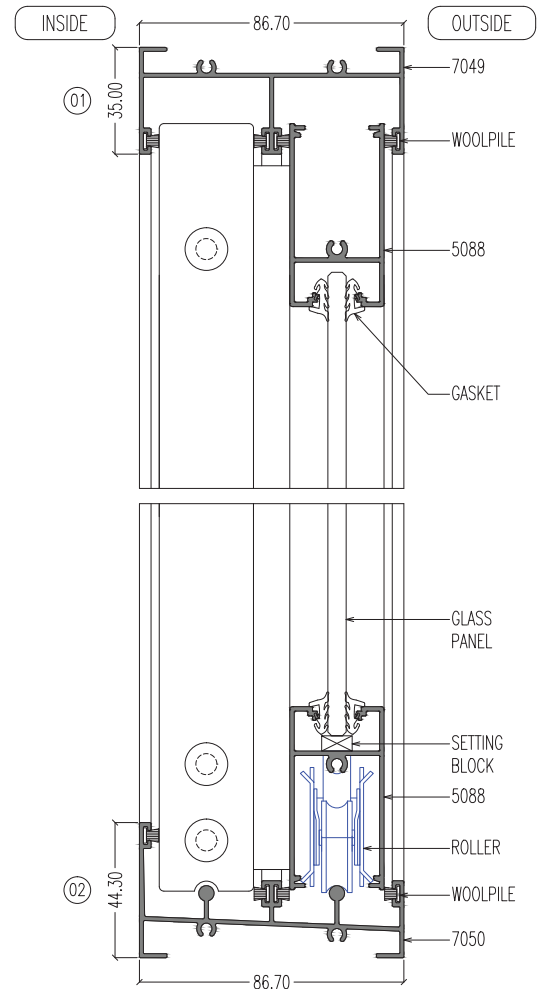
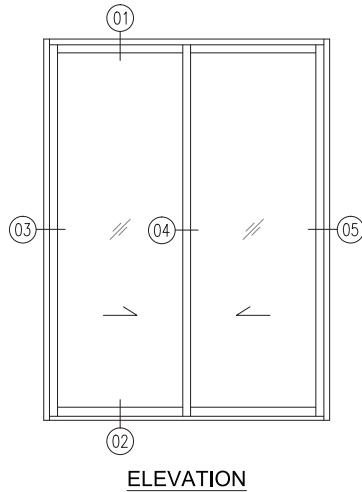
This sliding door suite had been tested in compliance to MS 1017:2022 performance test procedure for:-

1. 1200Pa windload : Passed
2. 180Pa air leakage : Passed
3. 240Pa water infiltration : Passed

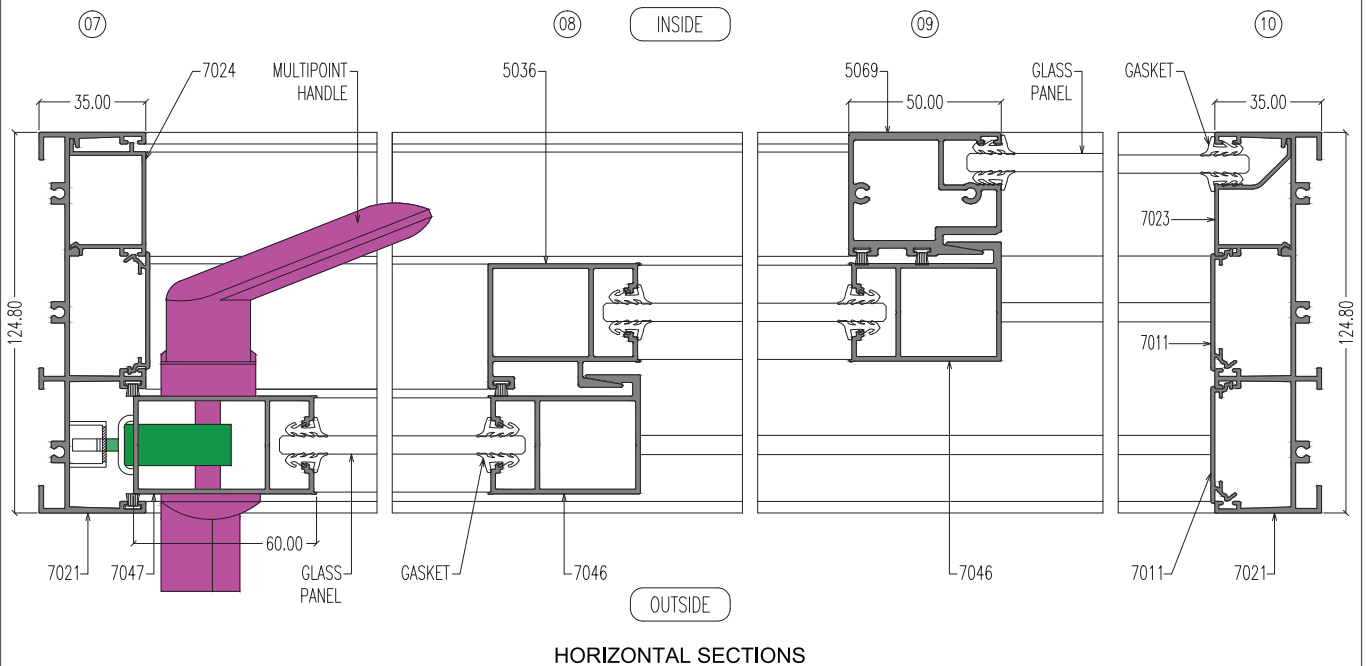
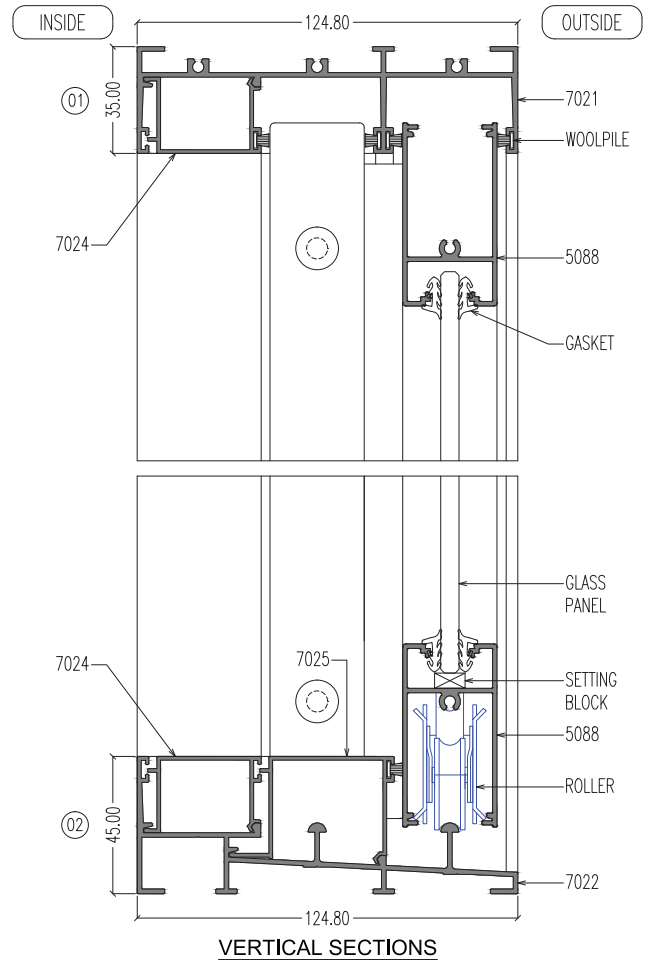
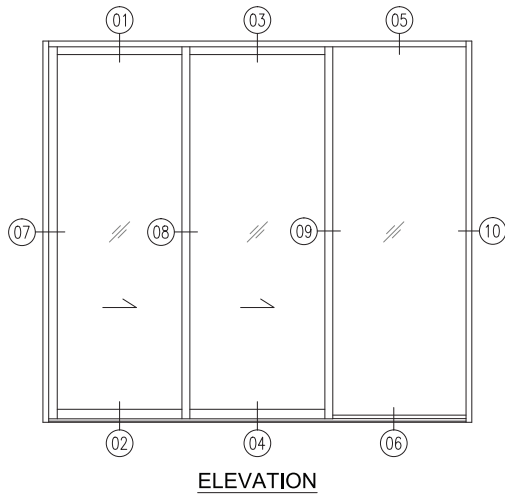
Note: Test report available upon request.



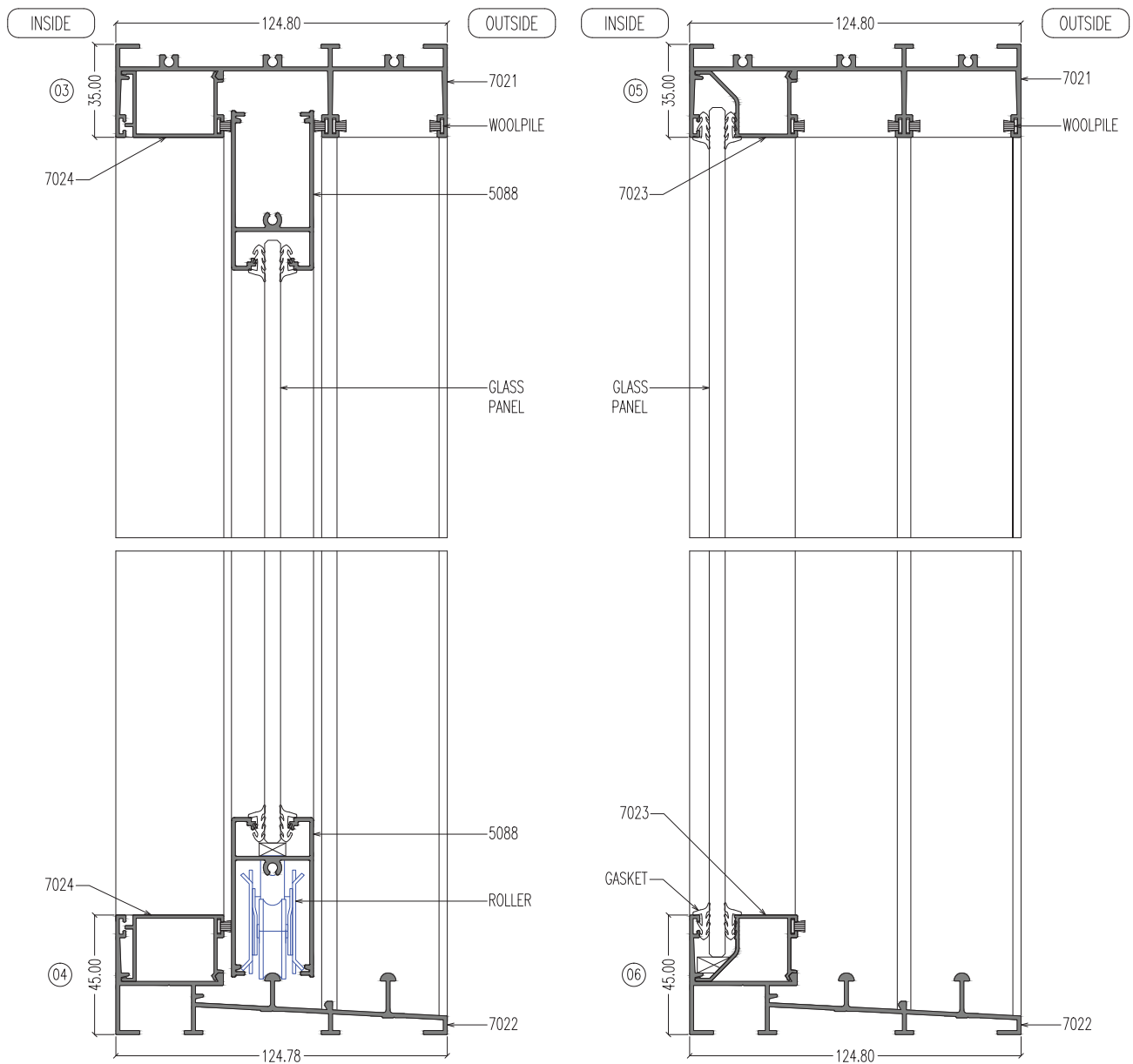
Typical Assembly Details



Typical Assembly Details

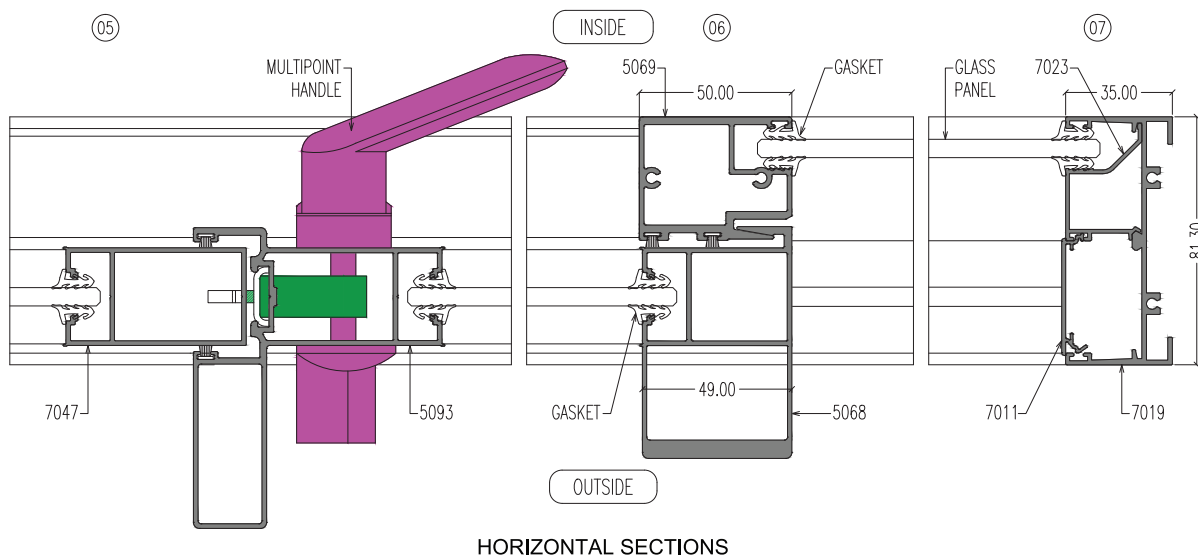
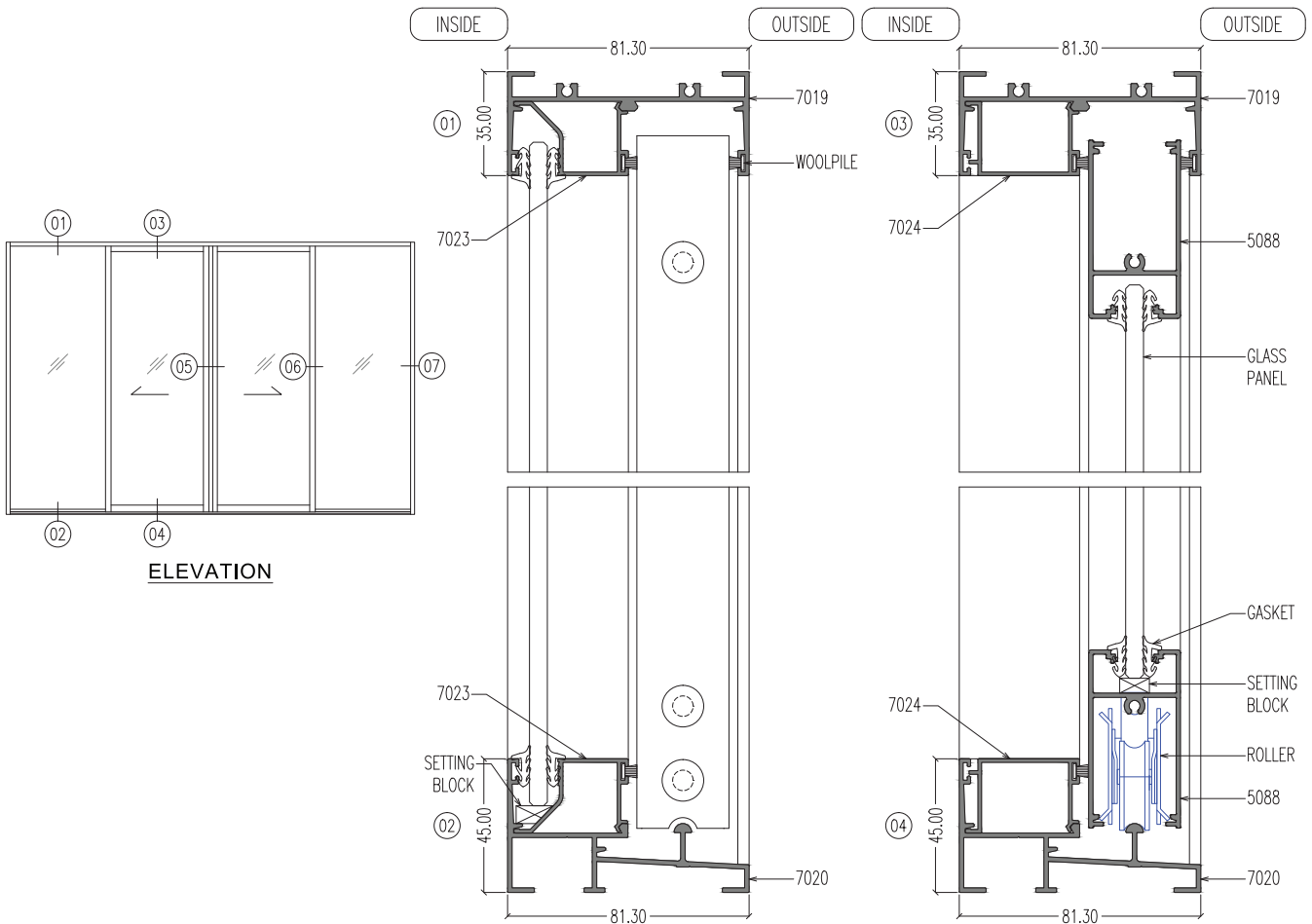


Typical Assembly Details



VERTICAL SECTIONS

Typical Assembly Details



Wind Load Chart

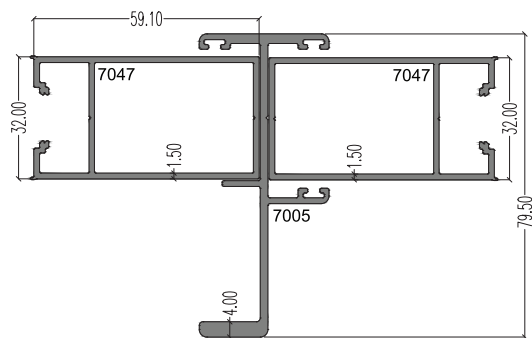
BUTTING STILE

Assembly of Sections 7047x2 & 7005

Alum. alloy : 6063-T5

Overall moment of inertia I_{xx} : 38.9 cm⁴

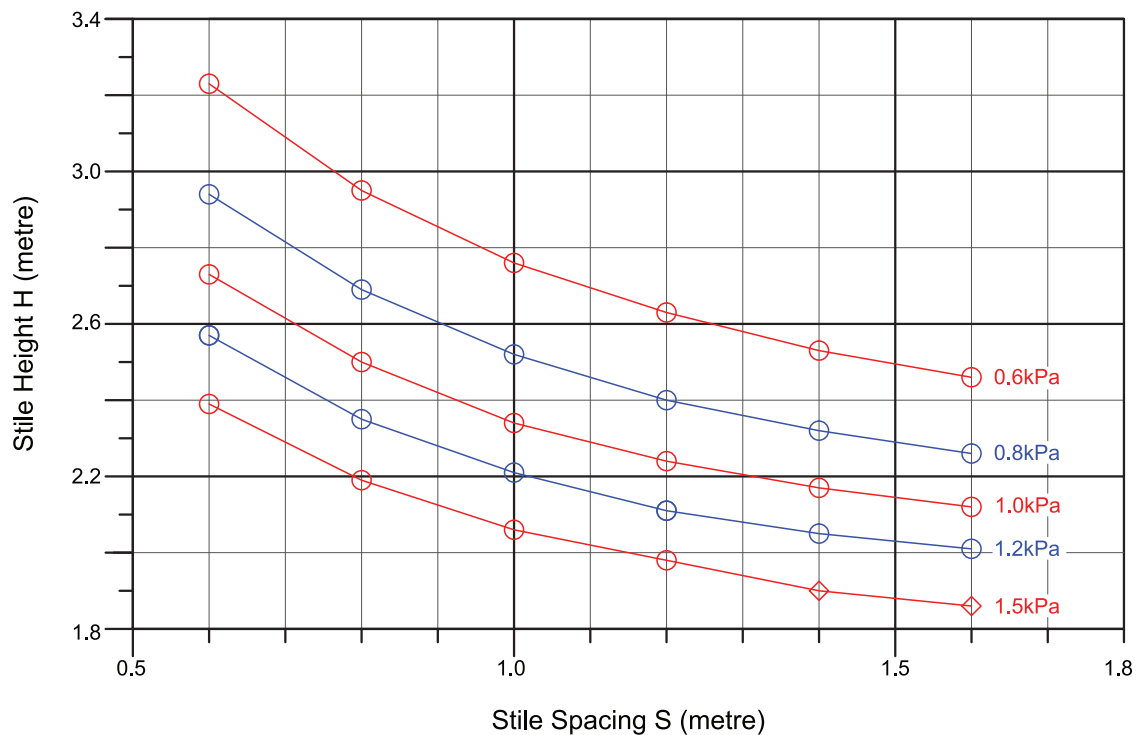
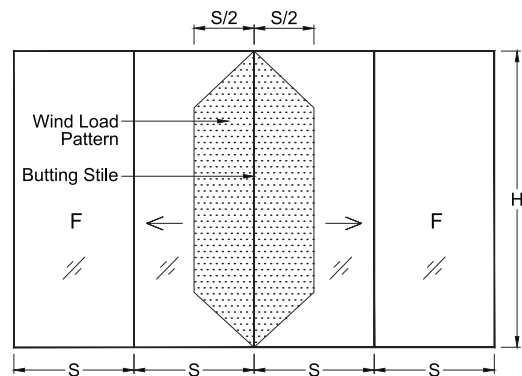
Overall moment of Resistance MR_{xx} : 777 Nm



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 door :



Note:
○ Deflection limit governs ◇ Moment of resistance governs
:- Buckling has not been taken into account in this chart
:- This windload chart is solely for reference only

Wind Load Chart

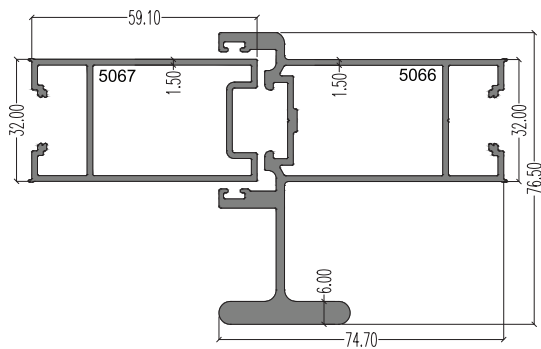
BUTTING STILE

Assembly of Sections 5066 & 5067

Alum. alloy : 6063-T5

Overall moment of inertia I_{xx} : 55.7 cm⁴

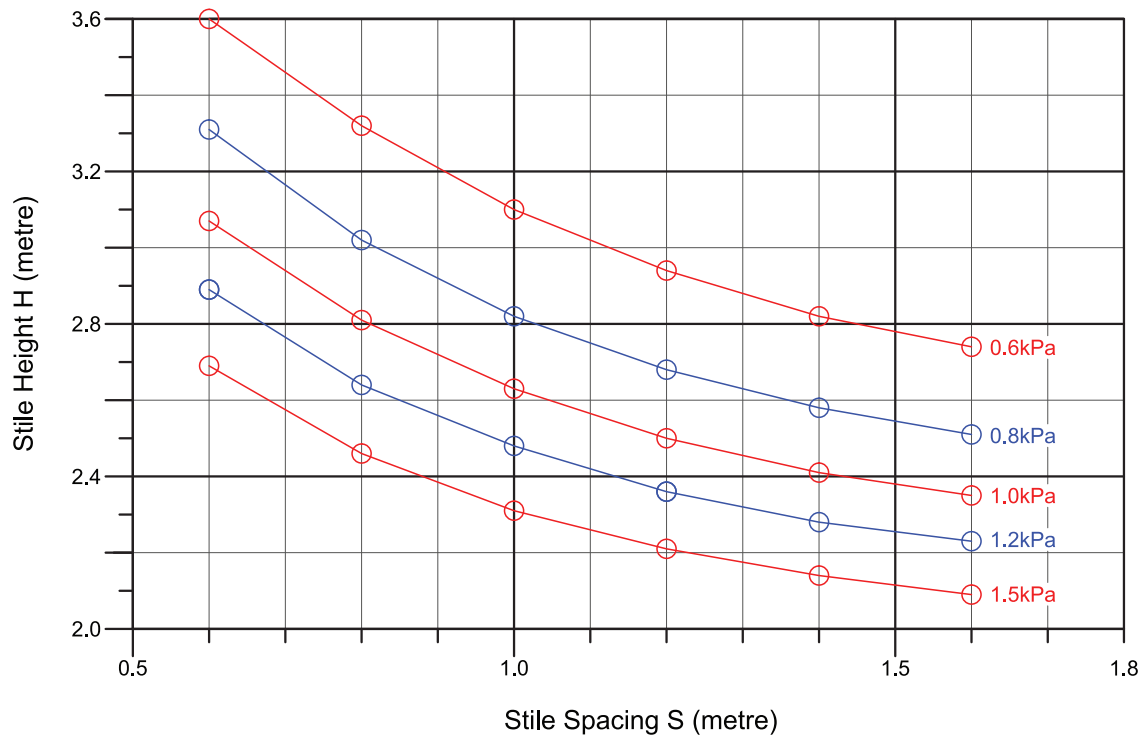
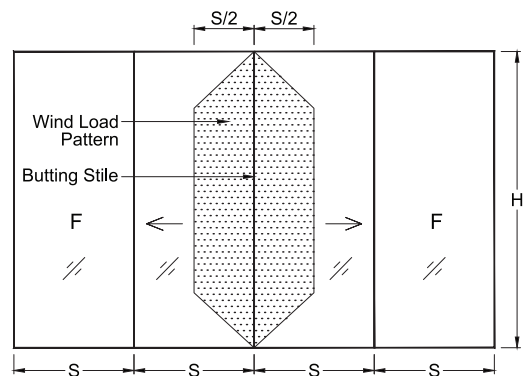
Overall moment of Resistance MR_{xx} : 1182 Nm



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 door :



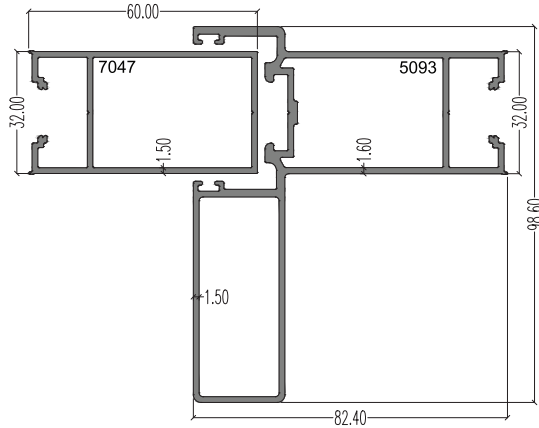
Note:
○ Deflection limit governs ◇ Moment of resistance governs
:- Buckling has not been taken into account in this chart
:- This windload chart is solely for reference only

Wind Load Chart

BUTTING STILE

Assembly of Sections 5093 & 7047

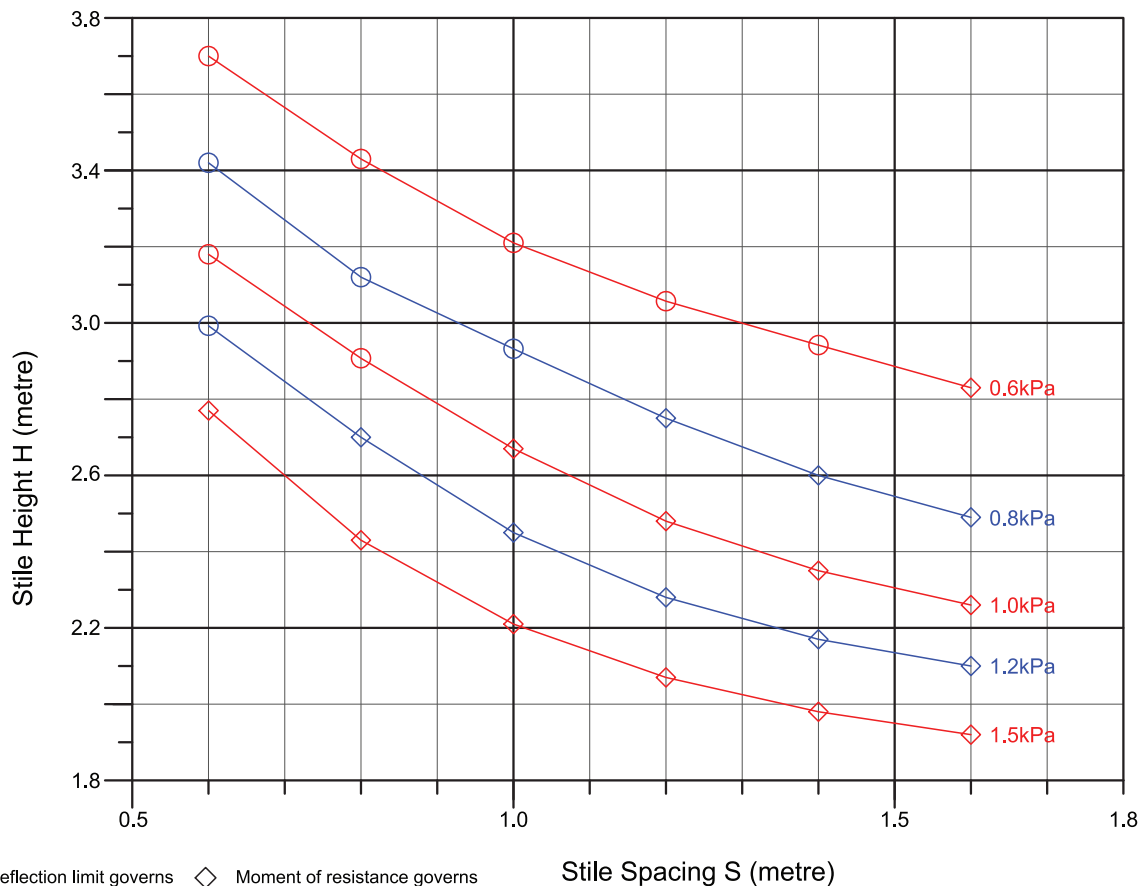
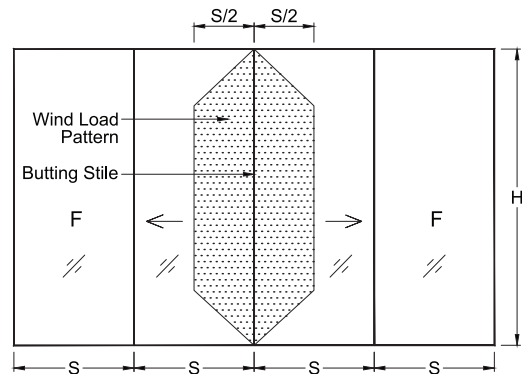
Alum. alloy : 6063-T5
 Overall moment of inertia I_{xx} : 61.9 cm^4
 Overall moment of Resistance MR_{xx} : 849 Nm



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

Typical configuration of sliding door :



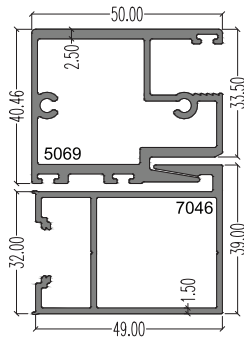
Note:
 ○ Deflection limit governs ◇ Moment of resistance governs
 :- Buckling has not been taken into account in this chart
 :- This windload chart is solely for reference only

Wind Load Chart

INTERLOCKING STILE

Assembly of Sections 5069 & 7046

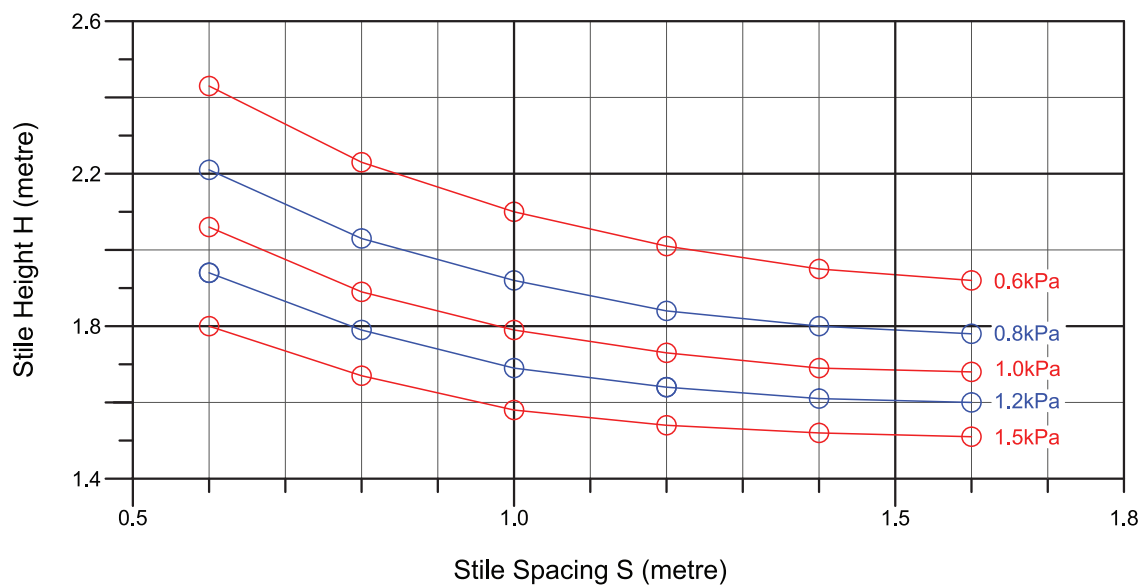
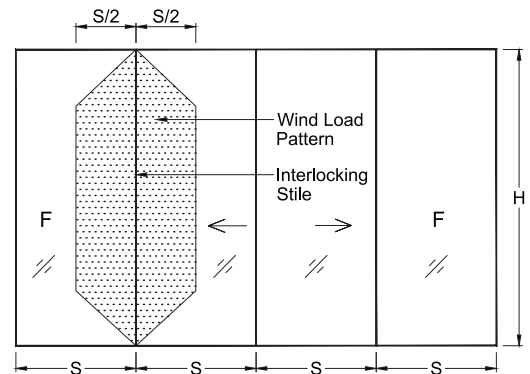
Alum. alloy : 6063-T5
 Overall moment of inertia I_{xx} : 16.4 cm^4
 Overall moment of Resistance MR_{xx} : 646 Nm



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

Typical configuration of sliding door :



Note:
 ○ Deflection limit governs ◇ Moment of resistance governs
 :- Buckling has not been taken into account in this chart
 :- This windload chart is solely for reference only

Wind Load Chart

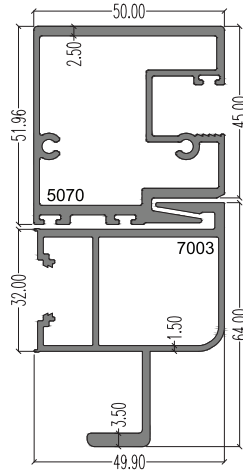
INTERLOCKING STILE

Assembly of Sections 5070 & 7003

Alum. alloy : 6063-T5

Overall moment of inertia I_{xx} : 37.7 cm^4

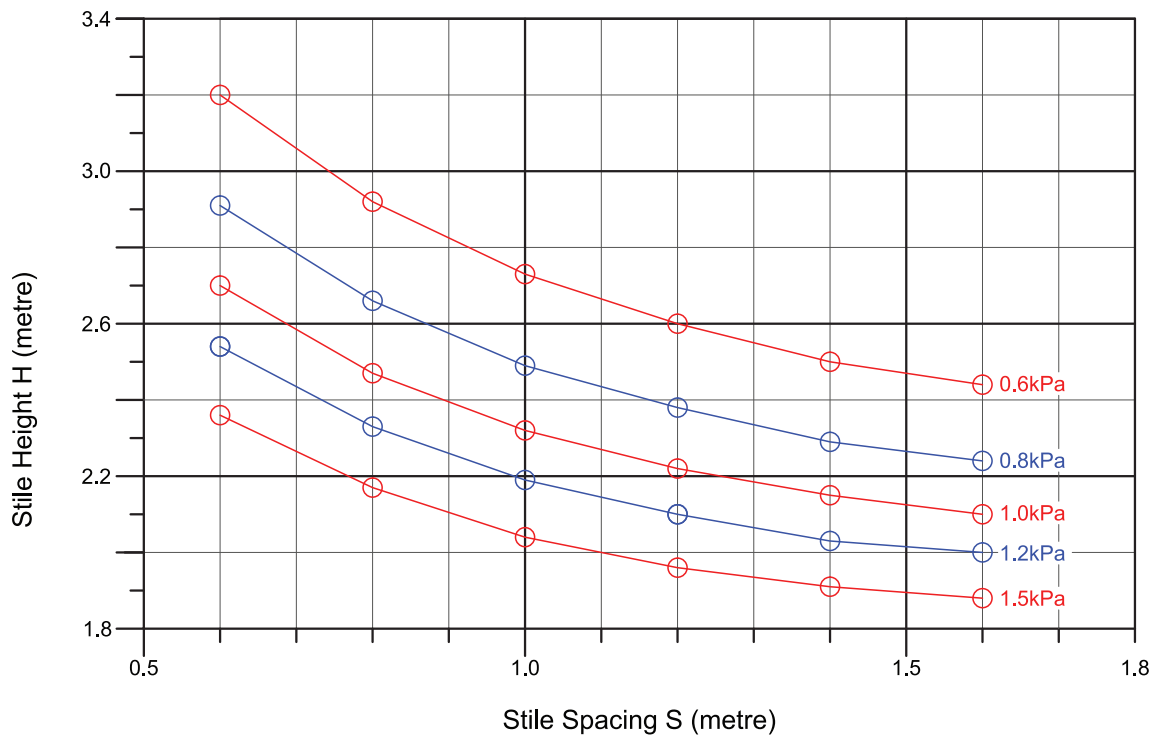
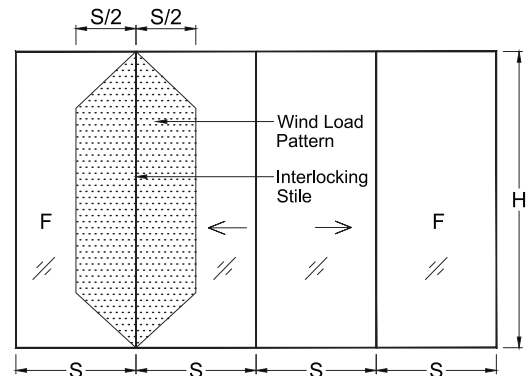
Overall moment of Resistance MR_{xx} : 859 Nm



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

Typical configuration of sliding door :



Note:
○ Deflection limit governs ◇ Moment of resistance governs
:- Buckling has not been taken into account in this chart
:- This windload chart is solely for reference only

Wind Load Chart

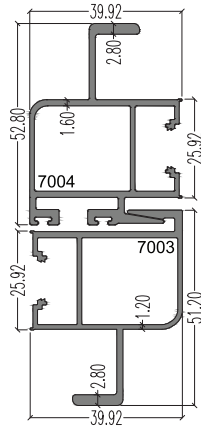
INTERLOCKING STILE

Assembly of Sections 7004 & 7003

Alum. alloy : 6063-T5

Overall moment of inertia I_{xx} : 41.2 cm⁴

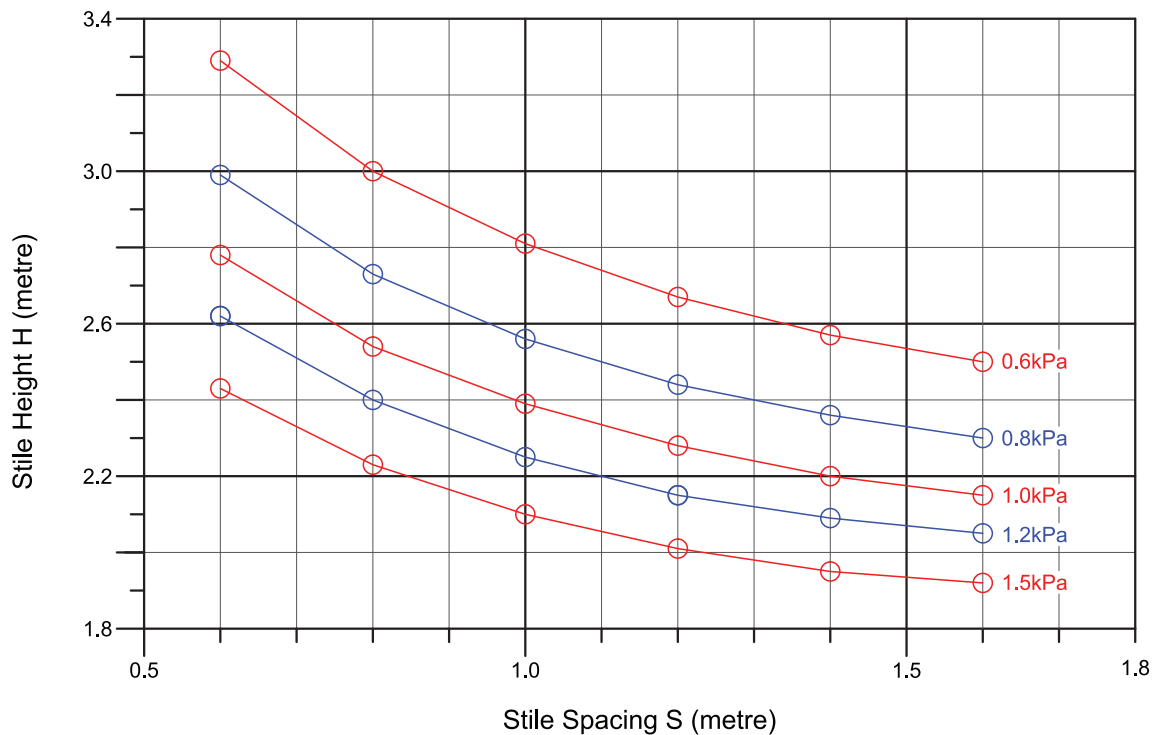
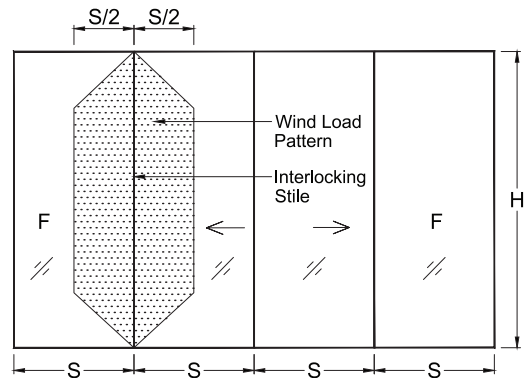
Overall moment of Resistance MR_{xx} : 847 Nm



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

Typical configuration of sliding door :



Note:
 ○ Deflection limit governs ◇ Moment of resistance governs
 :- Buckling has not been taken into account in this chart
 :- This windload chart is solely for reference only

Wind Load Chart

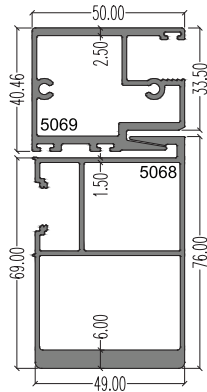
INTERLOCKING STILE

Assembly of Sections 5068 & 5069

Alum. alloy : 6063-T5

Overall moment of inertia I_{xx} : 61.0 cm⁴

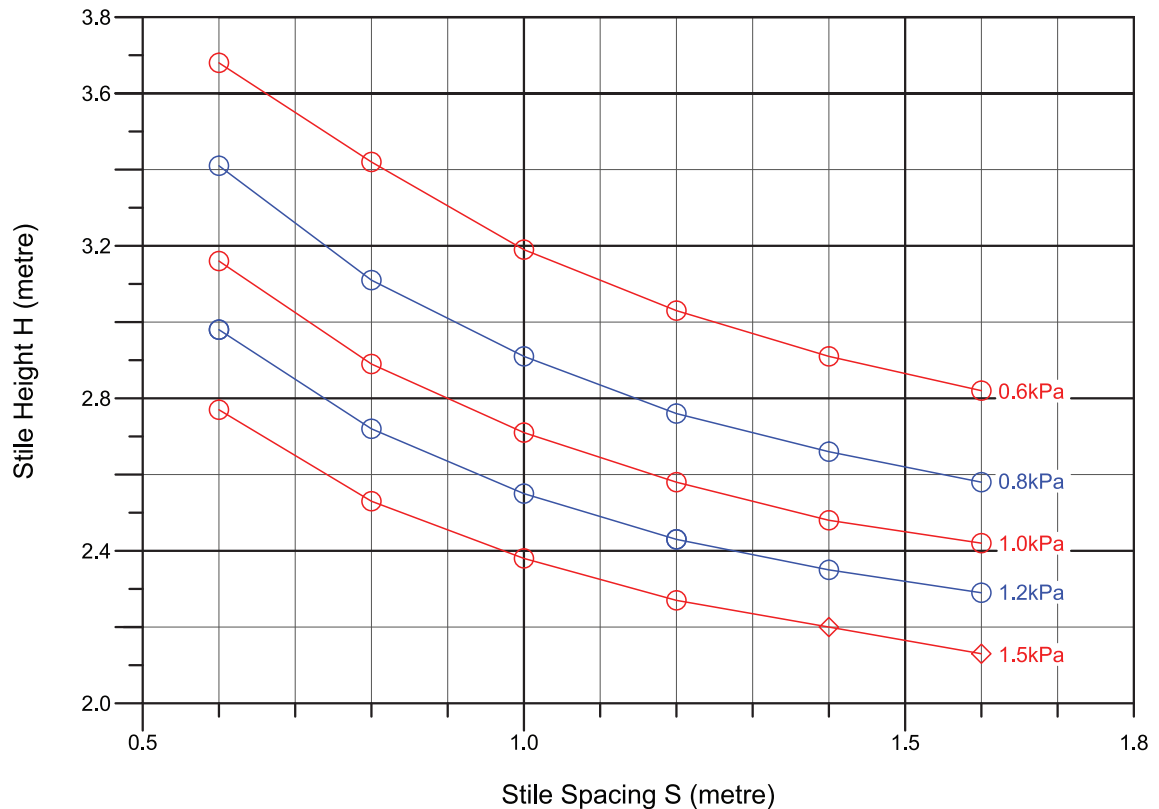
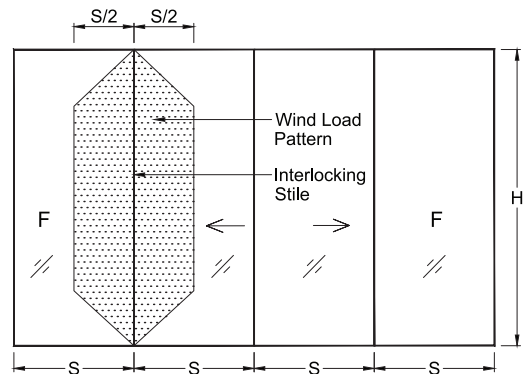
Overall moment of Resistance MR_{xx} : 1095 Nm



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 x 67 MPa
Deflection limit : $\text{Span}/175$, up to max. 20mm
Nature of anchor : Simply supported at both ends

Typical configuration of sliding door :



Note:
○ Deflection limit governs ◇ Moment of resistance governs
:- Buckling has not been taken into account in this chart
:- This windload chart is solely for reference only

Wind Load Chart

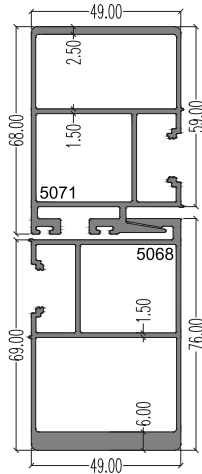
INTERLOCKING STILE

Assembly of Sections 5071 & 5068

Alum. alloy : 6063-T5

Overall moment of inertia I_{xx} : 85.2 cm⁴

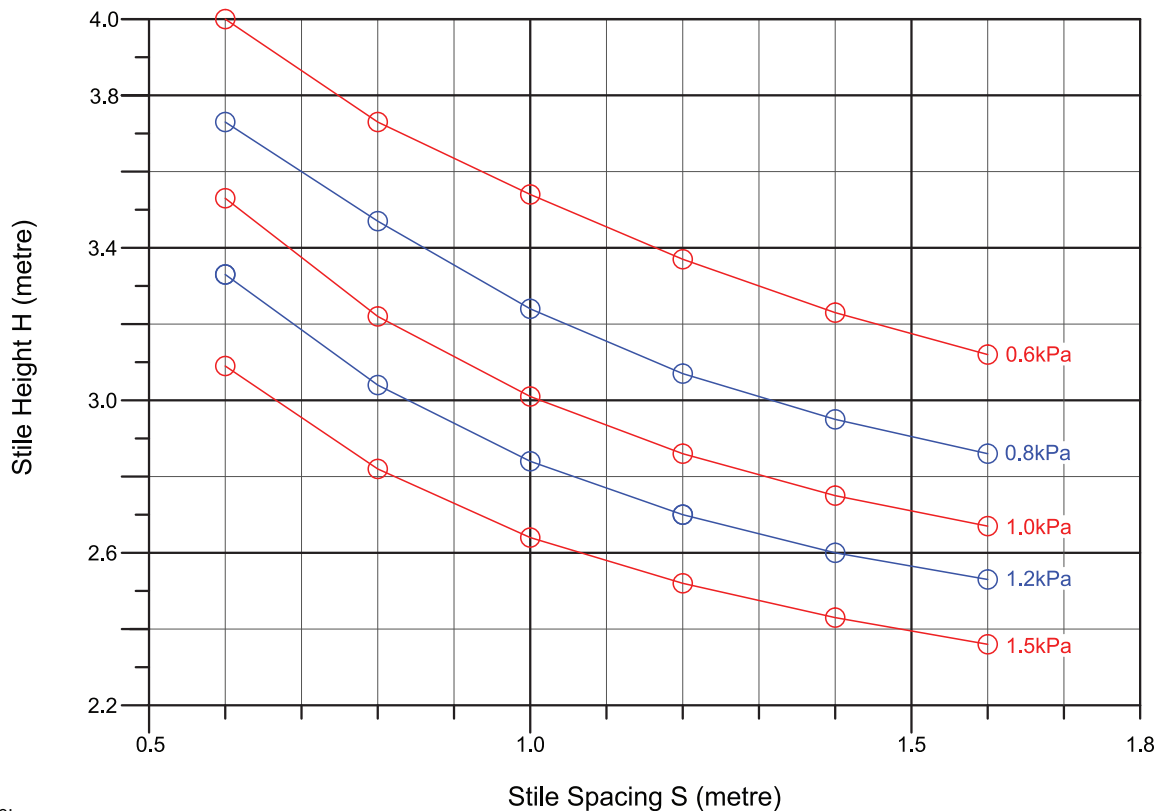
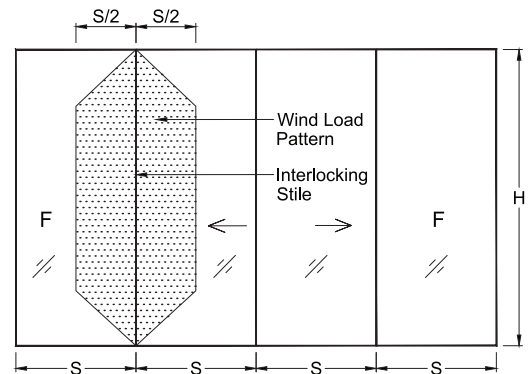
Overall moment of Resistance MR_{xx} : 1530 Nm



Note:
Suffix xx denotes axis perpendicular to wind load

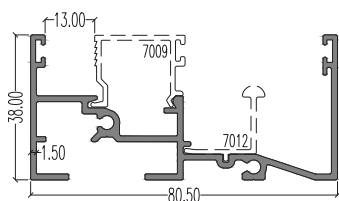
Mod. of elasticity : 70×10^9 N/m²
Design bend. stress : 1.25 x 67 MPa
Deflection limit : $\frac{\text{Span}}{175}$, up to max. 20mm
Nature of anchor : Simply supported at both ends

Typical configuration of sliding door :

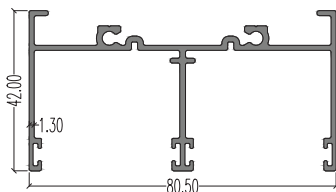


Note:
○ Deflection limit governs ◇ Moment of resistance governs
:- Buckling has not been taken into account in this chart
:- This windload chart is solely for reference only

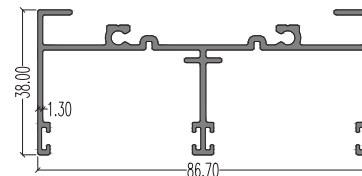
Sectional Details



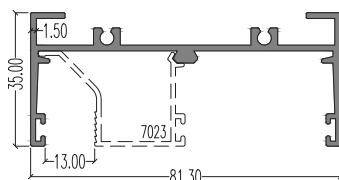
7013 (Top, Side & Bottom Outer)
LW : 1.012 kg/m
AP : 485.15 mm



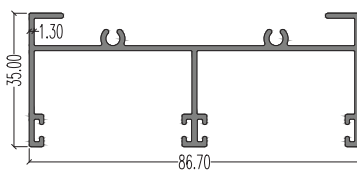
7044 (Top, Side & Bottom Outer)
LW : 0.934 kg/m
AP : 507.34 mm



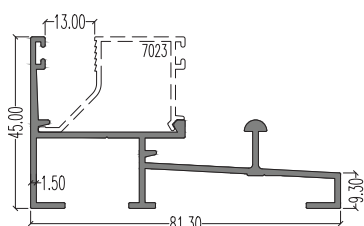
7045 (Top, Side & Bottom Outer)
LW : 0.954 kg/m
AP : 518.64 mm



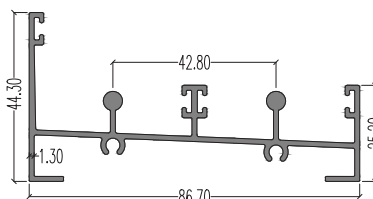
7019 (Top & Side Outer)
LW : 0.900 kg/m
AP : 407.78 mm



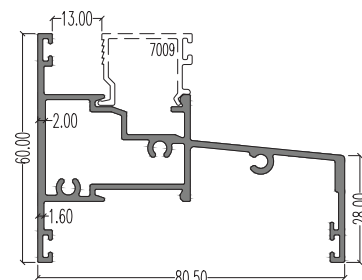
7049 (Top & Side Outer)
LW : 0.858 kg/m
AP : 474.48 mm



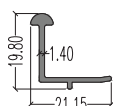
7020 (Bottom Outer)
LW : 0.902 kg/m
AP : 427.35 mm



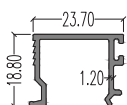
7050 (Bottom Outer)
LW : 0.984 kg/m
AP : 502.72 mm



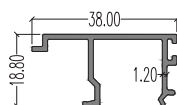
7015 (Top & Side Outer)
LW : 1.242 kg/m
AP : 432.70 mm



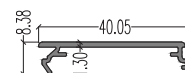
7012 (Attachment)
LW : 0.158 kg/m
AP : 81.82 mm
(For 7013, 7014, 7044 & 7045)



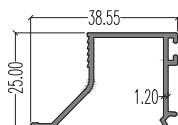
7009 (Beading)
LW : 0.240 kg/m
AP : 141.48 mm
(For 7013, 7014 & 7015)



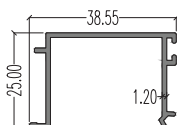
7010 (Capping)
LW : 0.303 kg/m
AP : 173.83 mm
(For 7013 & 7014)



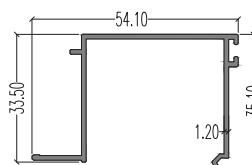
7011 (Capping)
LW : 0.193 kg/m
AP : 121.14 mm
(For 7013, 7014, 7019 & 7039)



7023 (Beading)
LW : 0.289 kg/m
AP : 178.28 mm
(For 7019, 7021 & 5133)

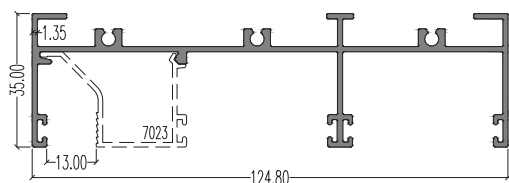


7024 (Capping)
LW : 0.312 kg/m
AP : 192.45 mm
(For 7019, 7021 & 5133)

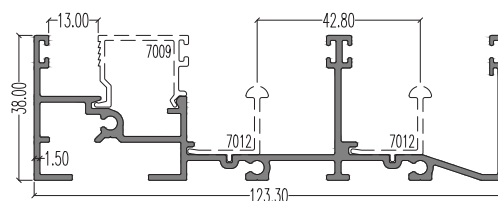


7025 (Capping)
LW : 0.423 kg/m
AP : 261.42 mm
(For 7022 & 5134)

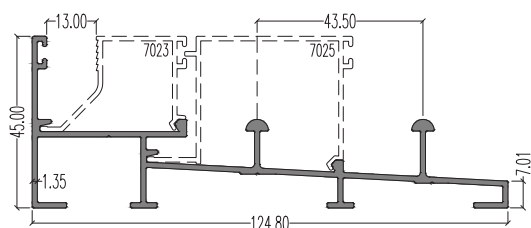
Sectional Details



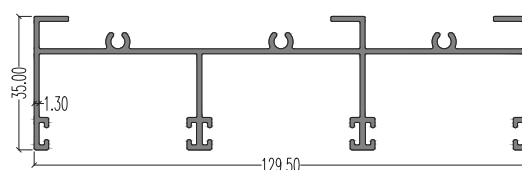
5133 (Top & Side Outer)
LW : 1.202 kg/m
AP : 611.13 mm



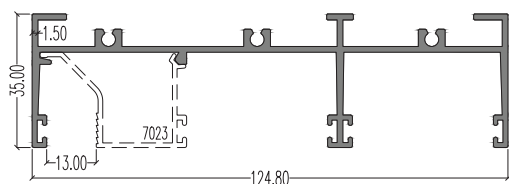
7014 (Top, Side & Bottom Outer)
LW : 1.498 kg/m
AP : 705.69 mm



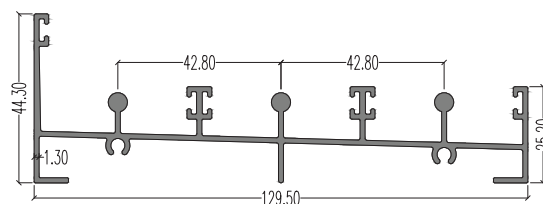
5134 (Bottom Outer)
LW : 1.137 kg/m
AP : 578.17 mm



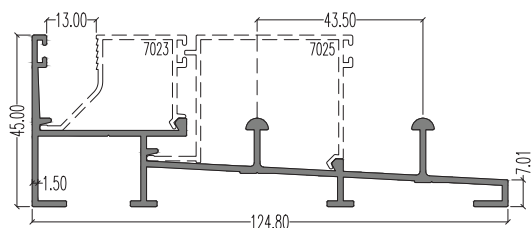
7039 (Top & Side Outer)
LW : 1.244 kg/m
AP : 685.21 mm



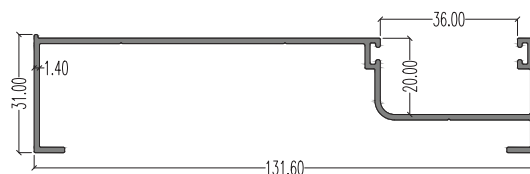
7021 (Top & Side Outer)
LW : 1.309 kg/m
AP : 611.89 mm



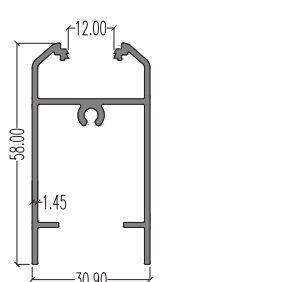
7040 (Bottom Outer)
LW : 1.352 kg/m
AP : 688.85 mm



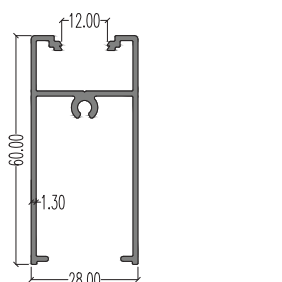
7022 (Bottom Outer)
LW : 1.239 kg/m
AP : 578.53 mm



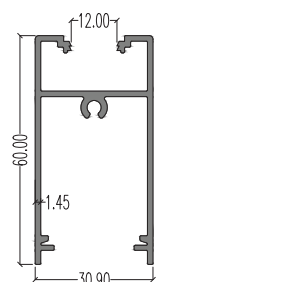
5089 (Side Outer)
LW : 0.892 kg/m
AP : 467.22 mm
(For 7039 & 7040)



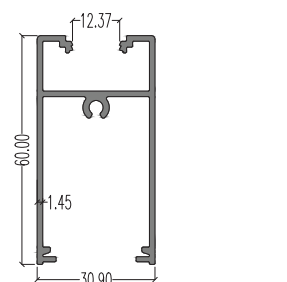
7006 (Top & Bottom Inner)
LW : 0.742 kg/m
AP : 358.85 mm



5012 (Top & Bottom Inner)
LW : 0.660 kg/m
AP : 358.72 mm

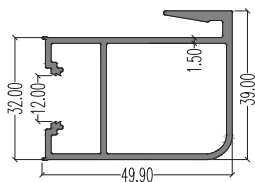


7082 (Top & Bottom Inner)
LW : 0.767 kg/m
AP : 377.66 mm

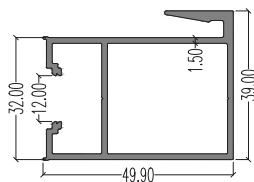


5088 (Top & Bottom Inner)
LW : 0.765 kg/m
AP : 376.42 mm

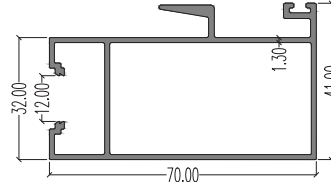
Sectional Details


7002 (Interlock)

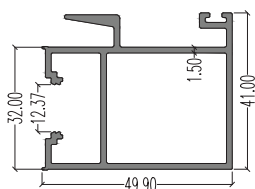
LW : 0.855 kg/m
AP : 278.73 mm
Ixx : 6.140 cm⁴
Iyy : 9.011 cm⁴


7046 (Interlock)

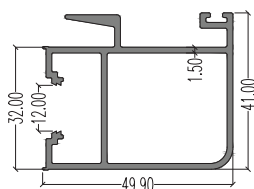
LW : 0.858 kg/m
AP : 278.76 mm
Ixx : 6.256 cm⁴
Iyy : 9.101 cm⁴


5011 (Interlock)

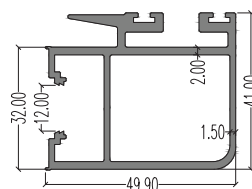
LW : 0.975 kg/m
AP : 355.07 mm
Ixx : 7.948 cm⁴
Iyy : 19.96 cm⁴


5036 (Interlock)

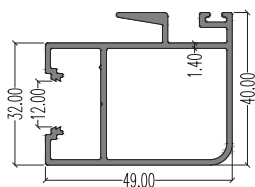
LW : 0.920 kg/m
AP : 315.73 mm
Ixx : 7.150 cm⁴
Iyy : 9.448 cm⁴


7017 (Interlock)

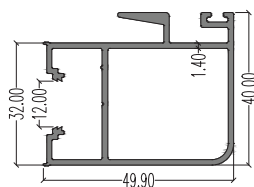
LW : 0.912 kg/m
AP : 315.38 mm
Ixx : 7.022 cm⁴
Iyy : 9.278 cm⁴


7018 (Interlock)

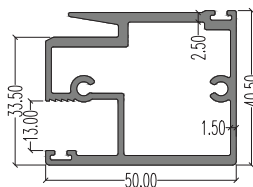
LW : 1.186 kg/m
AP : 345.95 mm
Ixx : 9.534 cm⁴
Iyy : 10.57 cm⁴


5039 (Interlock)

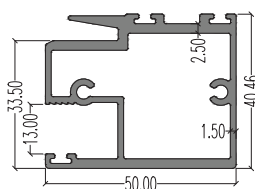
LW : 0.858 kg/m
AP : 308.75 mm
Ixx : 6.430 cm⁴
Iyy : 8.147 cm⁴


5095 (Inner)

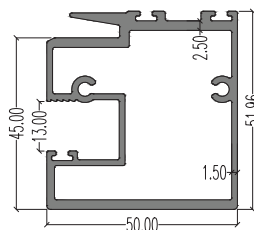
LW : 0.858 kg/m
AP : 312.55 mm
Ixx : 6.468 cm⁴
Iyy : 8.241 cm⁴


7007 (Interlock)

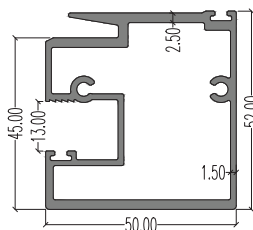
LW : 1.242 kg/m
AP : 262.65 mm
Ixx : 10.08 cm⁴
Iyy : 12.10 cm⁴


5069 (Interlock)

LW : 1.285 kg/m
AP : 274.86 mm
Ixx : 10.26 cm⁴
Iyy : 12.19 cm⁴

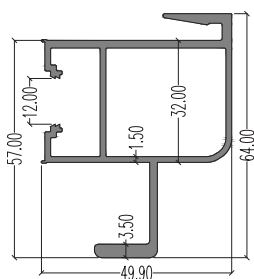

5070 (Interlock)

LW : 1.489 kg/m
AP : 299.86 mm
Ixx : 19.73 cm⁴
Iyy : 15.38 cm⁴

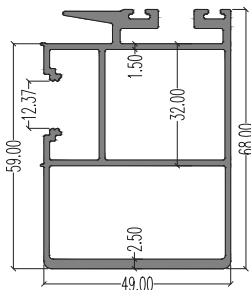

7008 (Interlock)

LW : 1.439 kg/m
AP : 285.65 mm
Ixx : 19.28 cm⁴
Iyy : 15.26 cm⁴

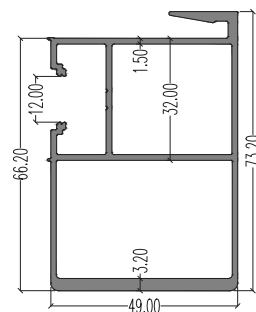
Sectional Details



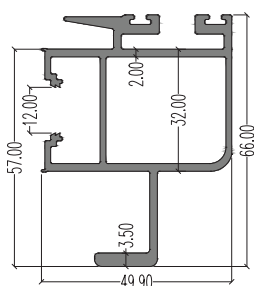
7003 (Interlock)
LW : 1.184 kg/m
AP : 354.16 mm
Ixx : 18.01 cm⁴
Iyy : 9.694 cm⁴



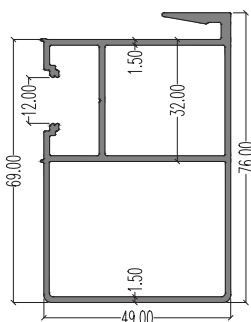
5071 (Interlock)
LW : 1.590 kg/m
AP : 397.55 mm
Ixx : 34.49 cm⁴
Iyy : 16.23 cm⁴



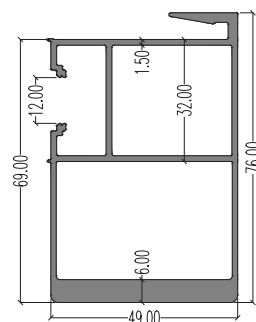
5140 (Interlock)
LW : 1.516 kg/m
AP : 345.29 mm
Ixx : 37.34 cm⁴
Iyy : 17.17 cm⁴



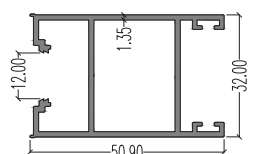
7004 (Interlock)
LW : 1.458 kg/m
AP : 419.28 mm
Ixx : 23.22 cm⁴
Iyy : 10.88 cm⁴



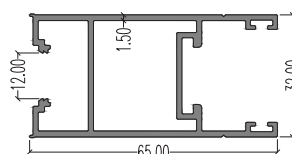
5096 (Interlock)
LW : 1.325 kg/m
AP : 350.67 mm
Ixx : 31.11 cm⁴
Iyy : 16.20 cm⁴



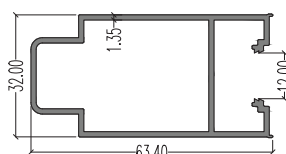
5068 (Interlock)
LW : 1.889 kg/m
AP : 350.45 mm
Ixx : 50.88 cm⁴
Iyy : 19.94 cm⁴



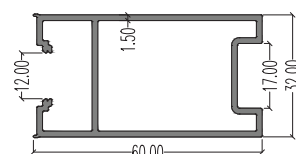
7027 (Intermediate)
LW : 0.717 kg/m
AP : 294.55 mm
Ixx : 4.383 cm⁴
Iyy : 6.399 cm⁴
(For Single Locking)



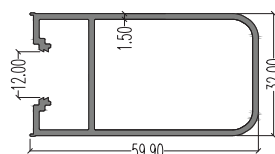
7083 (Intermediate)
LW : 0.930 kg/m
AP : 354.68 mm
Ixx : 5.848 cm⁴
Iyy : 12.28 cm⁴
(For Multipoint Locking)



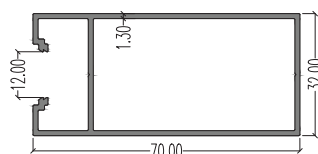
7028 (Intermediate)
LW : 0.755 kg/m
AP : 264.96 mm
Ixx : 4.358 cm⁴
Iyy : 11.75 cm⁴
(For 7027 & 7083)



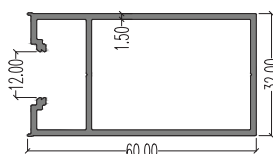
5067 (Intermediate)
LW : 0.855 kg/m
AP : 268.02 mm
Ixx : 5.244 cm⁴
Iyy : 12.54 cm⁴
(For 5066, 5090 & 5093)



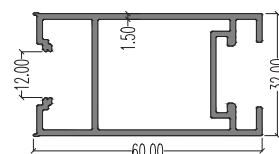
7001 (Inner)
LW : 0.789 kg/m
AP : 253.20 mm
Ixx : 4.897 cm⁴
Iyy : 11.55 cm⁴



5010 (Inner)
LW : 0.783 kg/m
AP : 276.13 mm
Ixx : 5.150 cm⁴
Iyy : 16.77 cm⁴

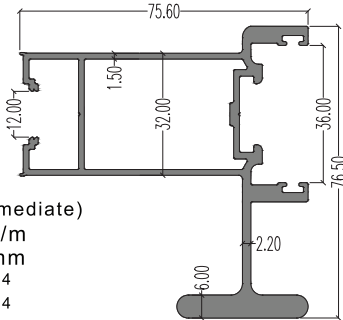


7047 (Inner)
LW : 0.798 kg/m
AP : 256.09 mm
Ixx : 5.072 cm⁴
Iyy : 12.18 cm⁴



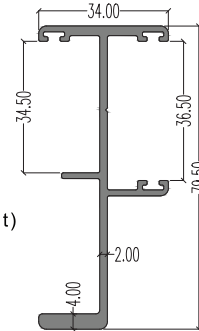
5087 (Side Inner)
LW : 0.912 kg/m
AP : 311.28 mm
Ixx : 5.565 cm⁴
Iyy : 12.51 cm⁴
(For Multipoint Locking)

Sectional Details



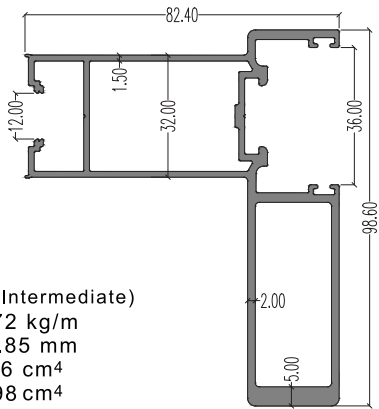
5066 (Intermediate)

LW : 2.023 kg/m
AP : 500.87 mm
Ixx : 50.54 cm⁴
Iyy : 32.88 cm⁴
(For SLD109K Lock)



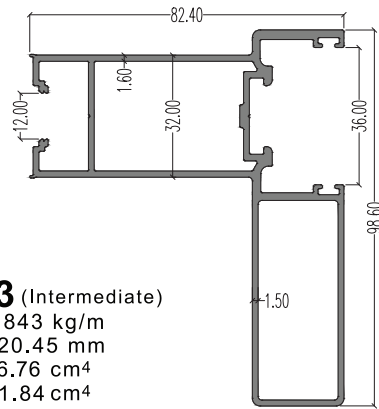
7005 (Attachment)

LW : 0.945 kg/m
AP : 338.90 mm
Ixx : 28.91 cm⁴
Iyy : 1.853 cm⁴
(For SLD109K Lock)



5090 (Intermediate)

LW : 2.172 kg/m
AP : 520.85 mm
Ixx : 82.46 cm⁴
Iyy : 45.98 cm⁴
(For CK & DSD Lock)



5093 (Intermediate)

LW : 1.843 kg/m
AP : 520.45 mm
Ixx : 56.76 cm⁴
Iyy : 41.84 cm⁴
(For CK & DSD Lock)

Accessories

Door Locksets



CKP8005



CK83
Single



CKP8005



CK84
Double



DSD9002

DSD 902 (With Key)
DSD 903 (Without Key)
DSD 904 (Dummy)



SLD109K with Key
(with Lockbar & Keeper)

Roller



RL006
(Rating: 65kg/panel)

RL007
(Rating: 100kg/panel)

Flush Locks



R5
Without Key



R6
With Key

Stopper



003

Hole Plugs



001 (PVC)

Woolpile



5 x 7
(300m/roll)



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