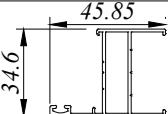
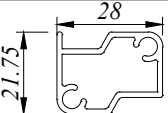
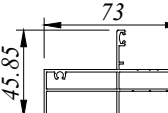
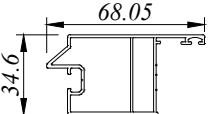
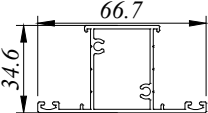
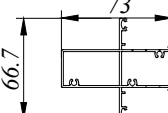
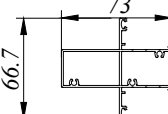
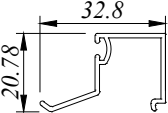
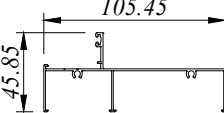
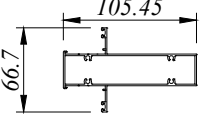
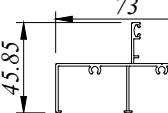
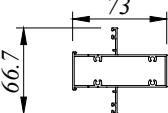
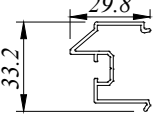
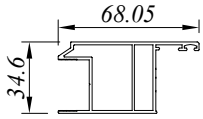
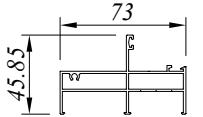
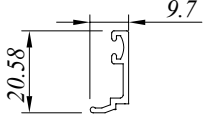
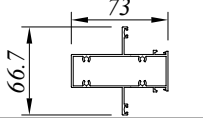
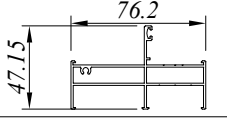
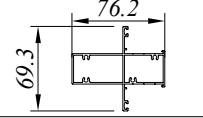
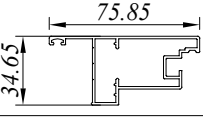
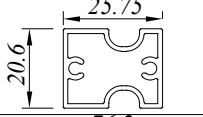
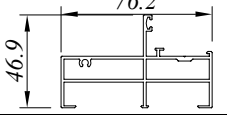
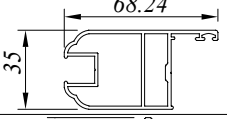
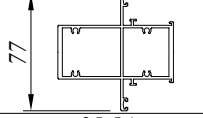
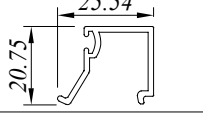
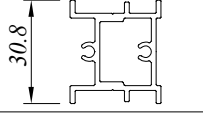


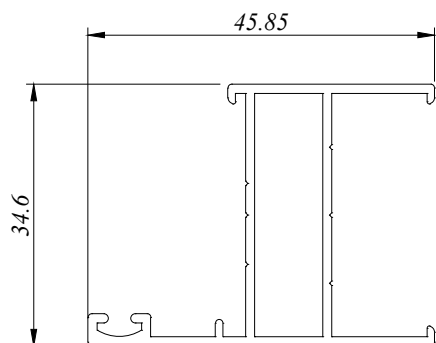
- MCW -
***M CASEMENT
WINDOW
9 SERIES***

PROFILE NO.	PICTURE OF PROFILE	WEIGHT (KG/M)	THICKNESS	PACKING IN BUNDLE (PCS)
			AREA PERIMETER	
MCW 91010		0.500	1.20 MM 219.778 MM	4
MCW 92006		0.410	1.40 MM 100.068 MM	4
MCW 92010		0.856	1.20 MM 328.452 MM	6
MCW 92020		0.790	1.30 MM 460.344 MM	4
MCW 92030		0.705	1.30 MM 254.774 MM	4
MCW 92031		1.088	1.30 MM 331.145 MM	4
MCW 92031 M		1.206	1.40 MM 330.745 MM	4
MCW 92040		0.245	1.20 MM 152.519 MM	20
MCW 92043		0.744	1.00 MM 463.472 MM	4
MCW 92044		1.229	1.20 MM 396.119 MM	2
MCW 92045		0.681	1.20 MM 389.685 MM	6
MCW 92047		1.018	1.20 MM 331.648 MM	4
MCW 92048		0.345	1.20 MM 205.677 MM	10

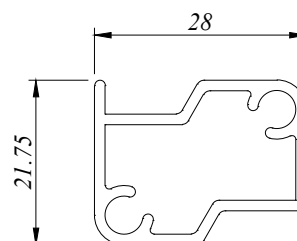
All Profiles are standard length 6.1 M for MCW Series

PROFILE NO.	PICTURE OF PROFILE	WEIGHT (KG/M)	THICKNESS	PACKING IN BUNDLE (PCS)
			AREA PERIMETER	
MCW 92049		0.878	1.40 MM 262.975 MM	4
MCW 92050		1.011	1.40 MM 330.889 MM	4
MCW 92051		0.138	1.40 MM 73.318 MM	10
MCW 92052		1.159	1.40 MM 342.418 MM	4
MCW 92053		0.990	1.30 MM 342.875 MM	4
MCW 92054		1.170	1.30M 342.744 MM	4
MCW 92055		0.891	1.30M 258.570 MM	4
MCW 92057		0.403	1.20 MM 104.602 MM	10
MCW 92058		1.142	1.45 MM 360.367 MM	6
MCW 92059		1.00	1.45 MM 249.321 MM	4
MCW 92060		1.832	1.65 MM 376.331 MM	4
MCW 92061		0.270	1.45 MM 136.255 MM	8
MCW 92062		0.571	1.45 MM 173.253 MM	4

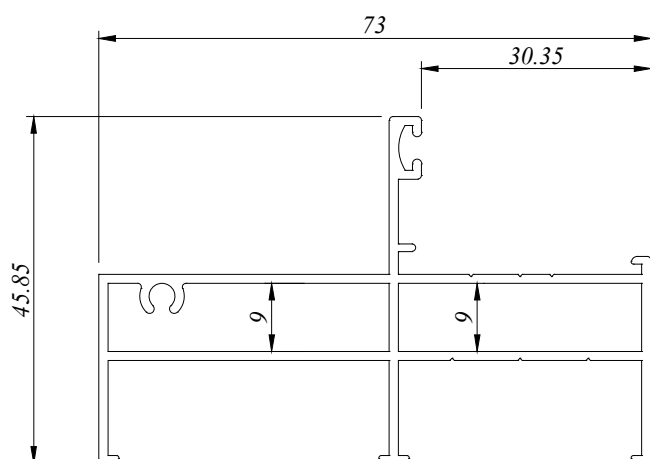
All Profiles are standard length 6.1 M for MCW Series



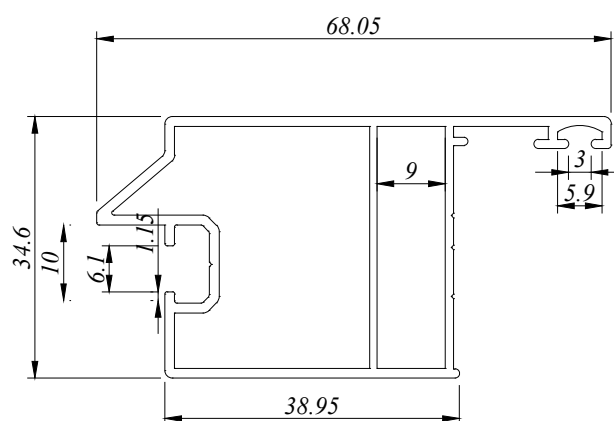
MCW 91010
0.500 Kg/M
AP : 219.778 MM



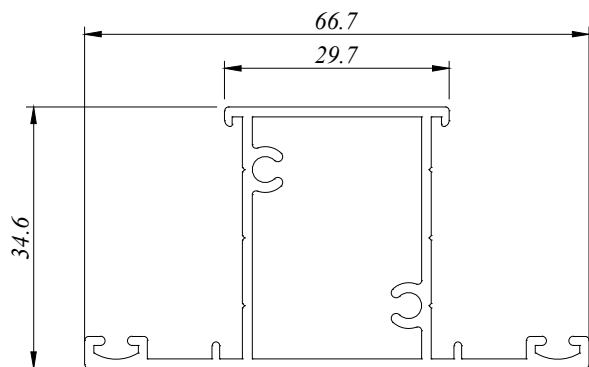
MCW 92006
0.410 Kg/M
AP : 100.068 MM



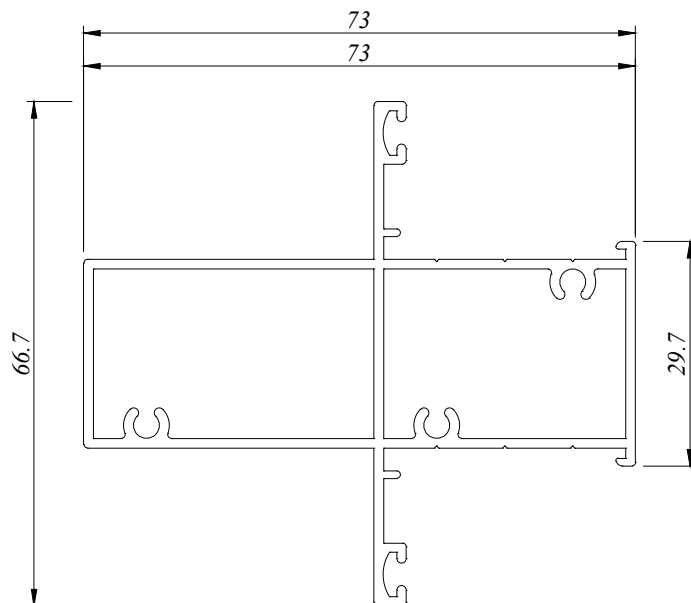
MCW 92010
0.856 Kg/M
AP : 328.452 MM



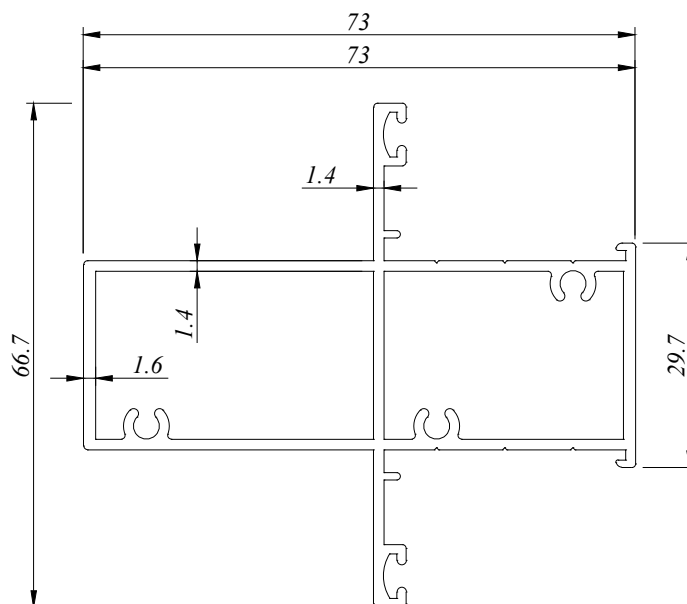
MCW 92020
0.790 Kg/M
AP : 460.344 MM



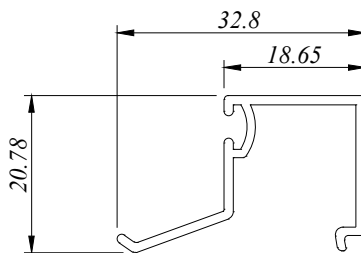
MCW 92030
0.705 Kg/M
AP : 254.774 MM



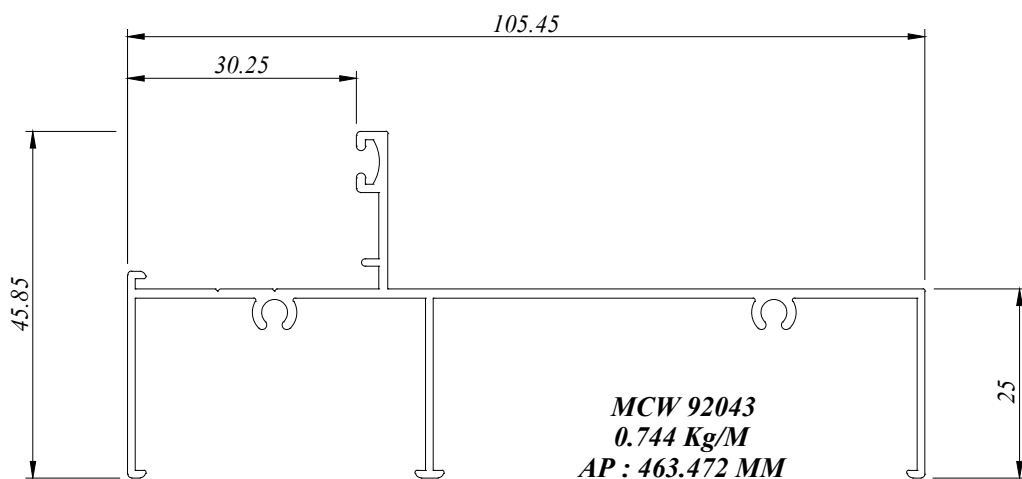
MCW 92031
1.088 Kg/M
AP : 331.145 MM



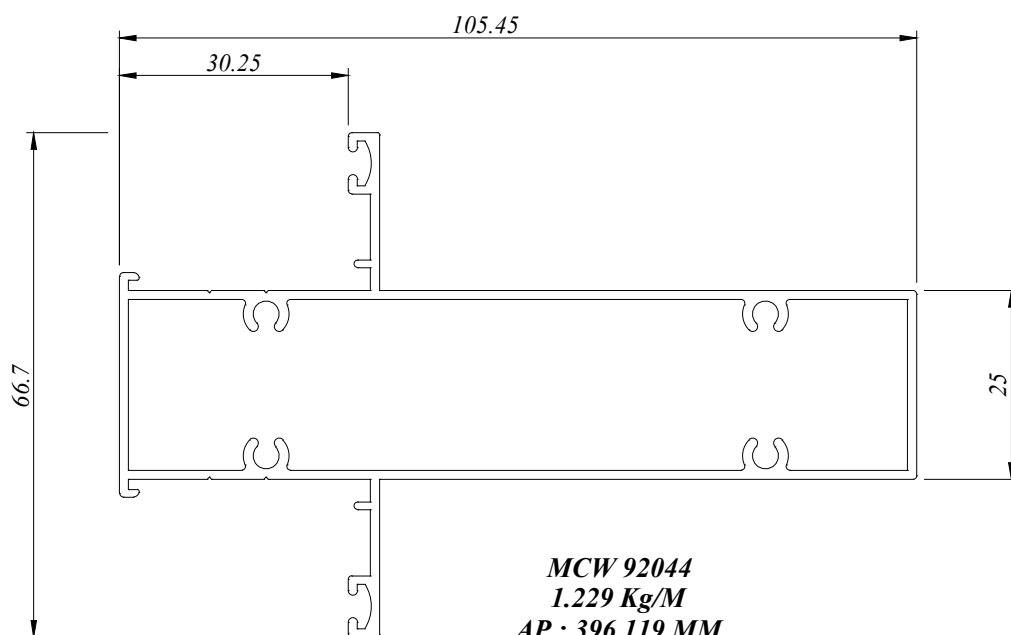
MCW 92031 M
1.206 Kg/M
AP : 330.745 MM



MCW 92040
0.245 Kg/M
AP : 152.519 MM



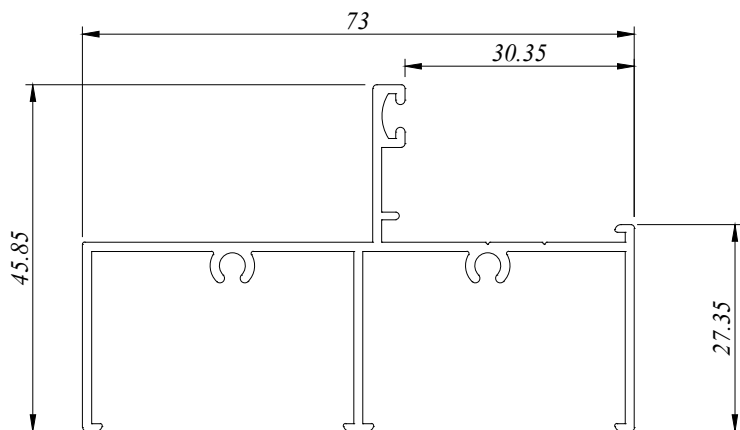
MCW 92043
0.744 Kg/M
AP : 463.472 MM



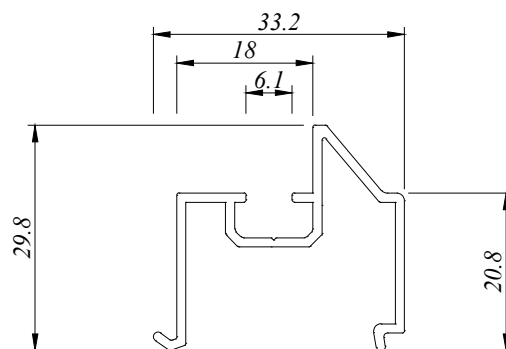
MCW 92044
1.229 Kg/M
AP : 396.119 MM

MCW - M Casement Window

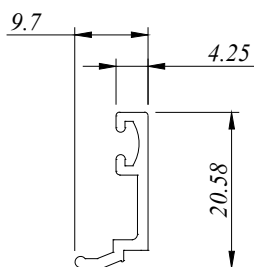
9 SERIES



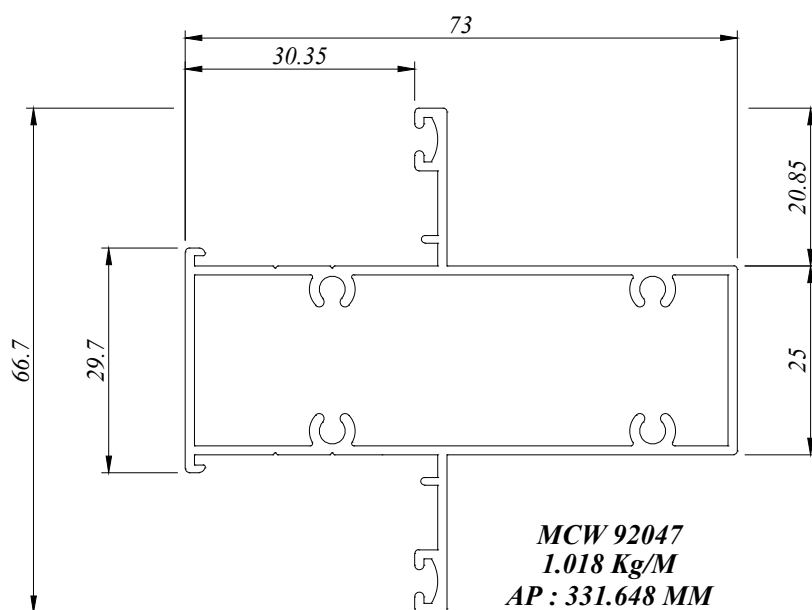
MCW 92045
0.681 Kg/M
AP : 389.685 MM



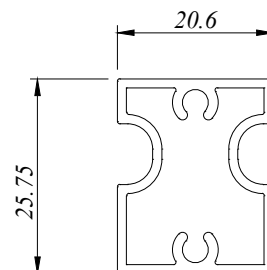
MCW 92048
0.345 Kg/M
AP : 205.677 MM



MCW 92051
0.138 Kg/M
AP : 73.3189 MM



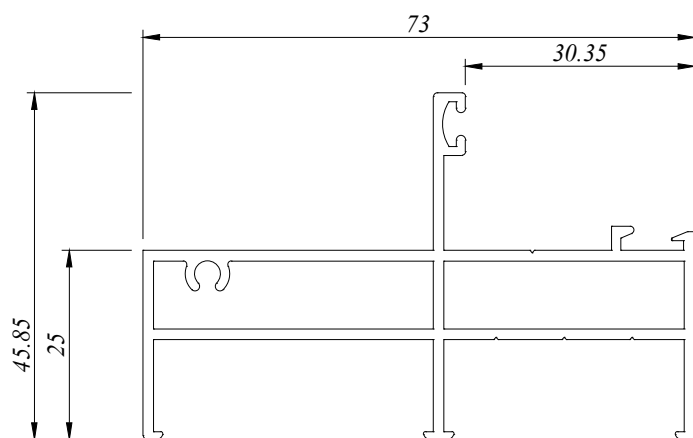
MCW 92047
1.018 Kg/M
AP : 331.648 MM



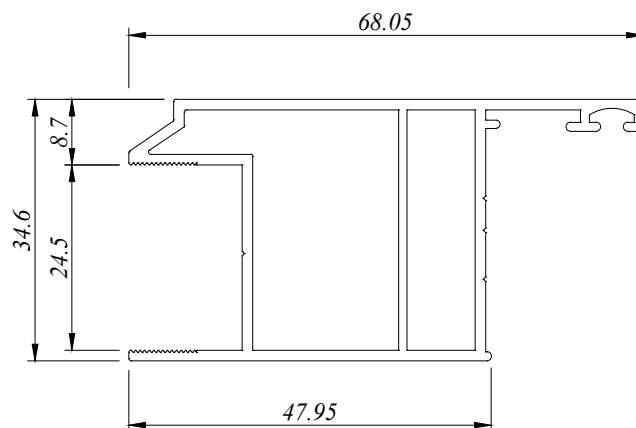
MCW 92057
0.403 Kg/M
AP : 104.602 MM

we made aluminium into shapes...

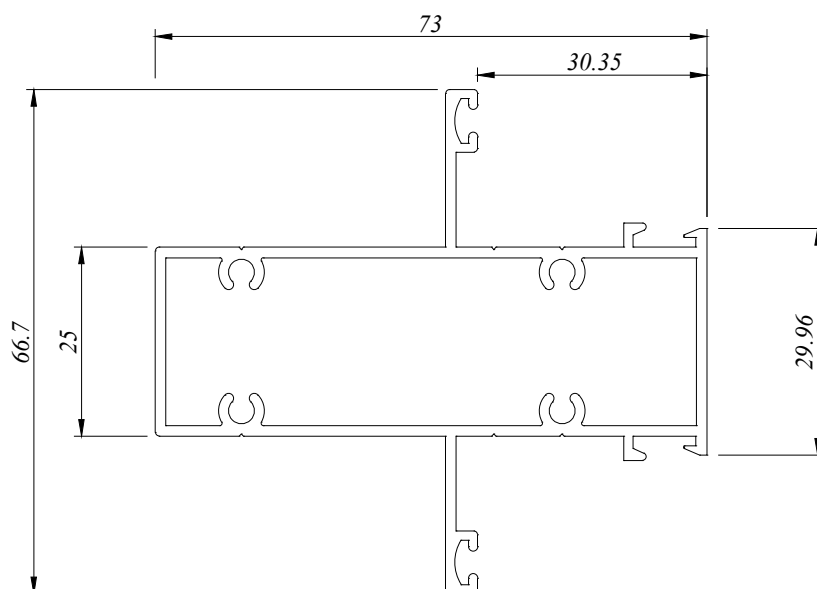
profile information



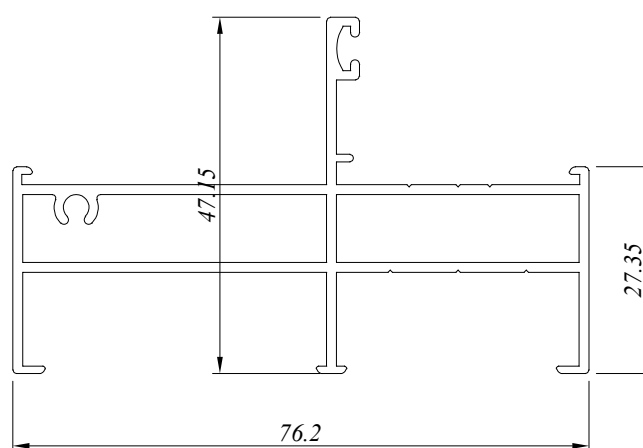
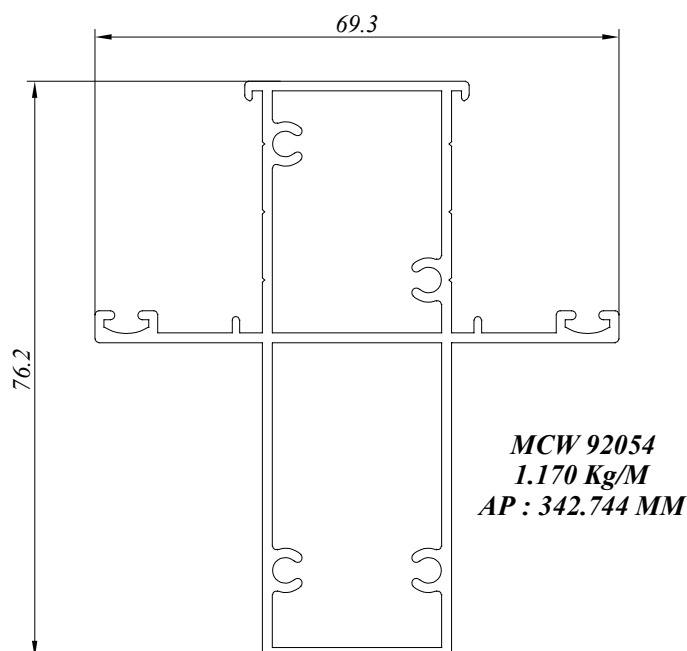
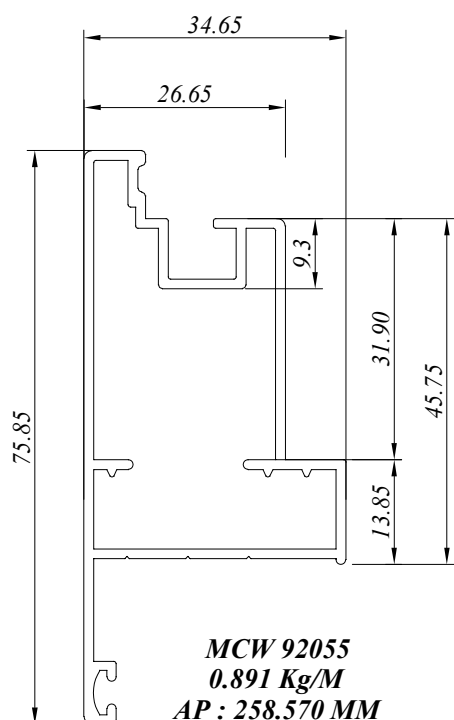
MCW 92050
1.011 Kg/M
AP : 330.889 MM

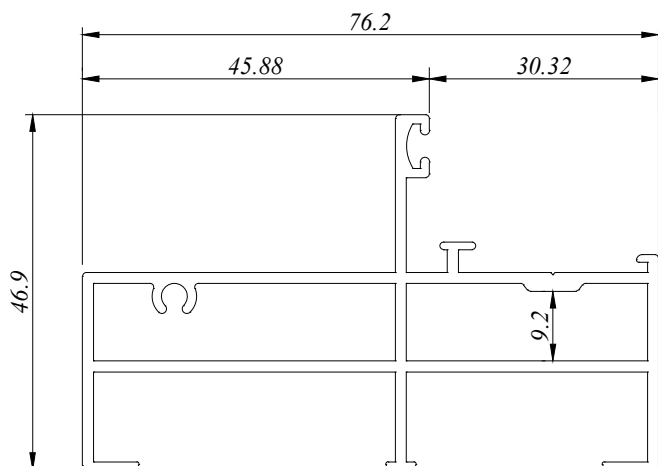


MCW 92049
0.878 Kg/M
AP : 262.975 MM

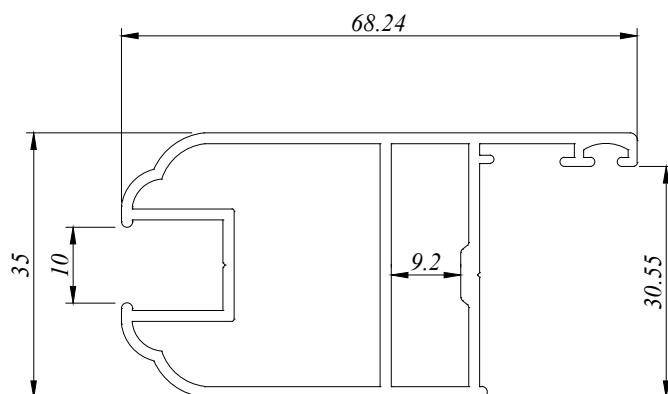


MCW 92052
1.159 Kg/M
AP : 342.418 MM

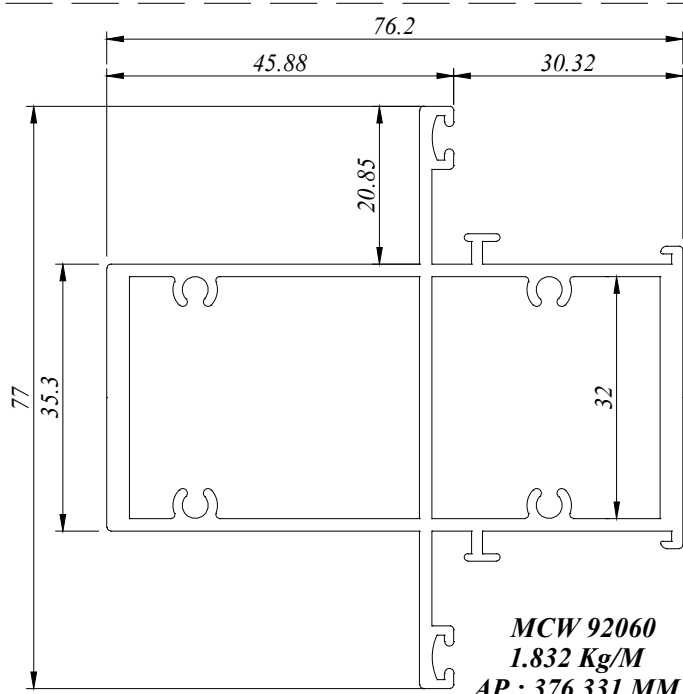




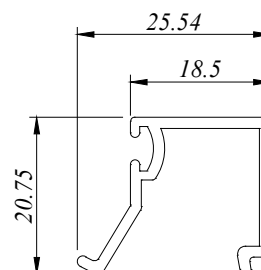
MCW 92058
1.142 Kg/M
AP : 360.367 MM



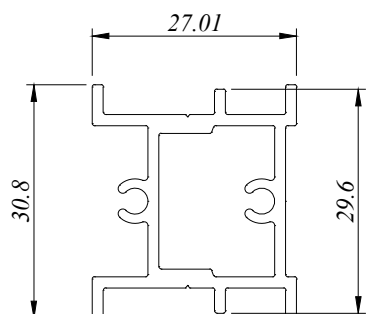
MCW 92059
1.00 Kg/M
AP : 249.321 MM



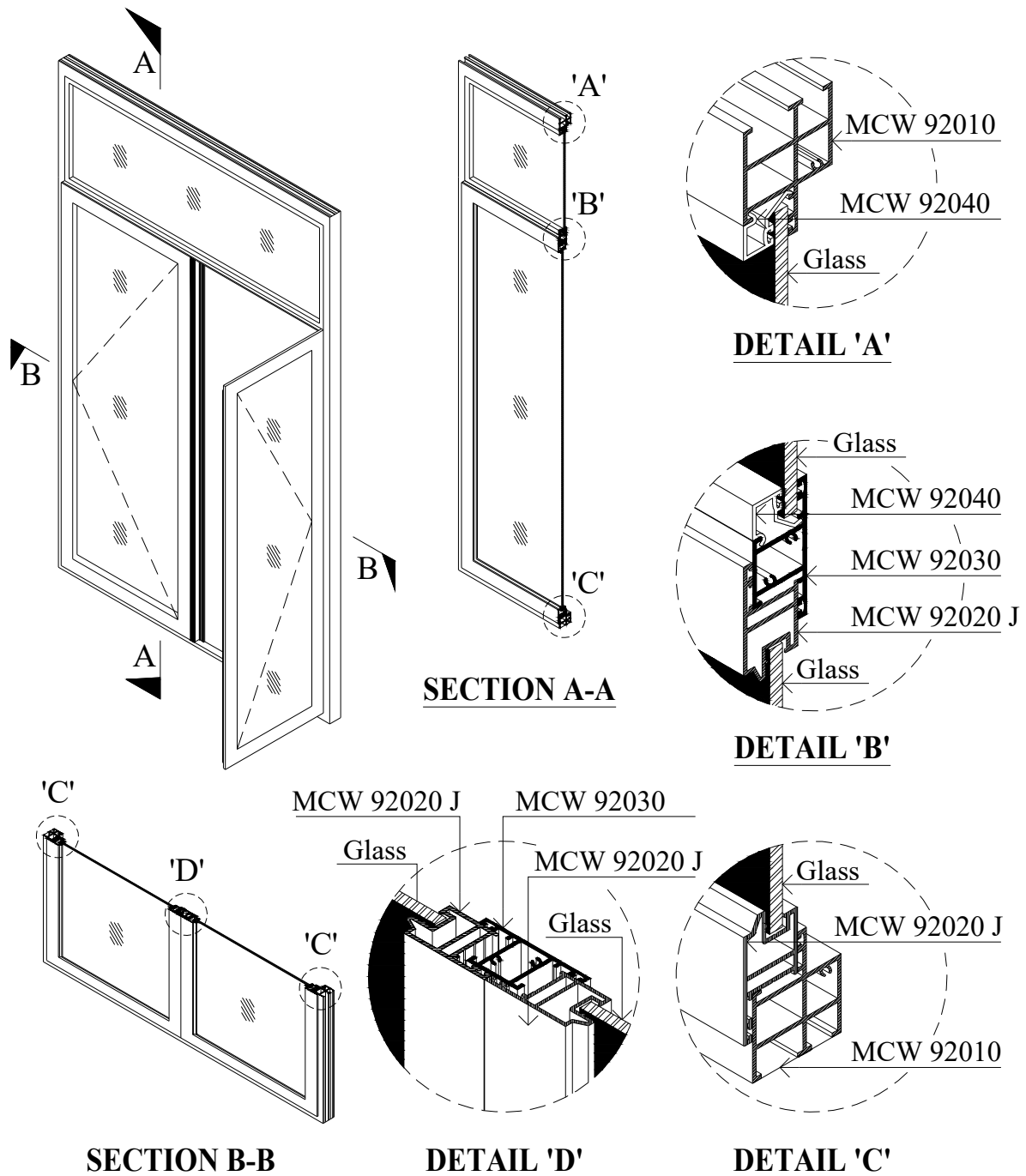
MCW 92060
1.832 Kg/M
AP : 376.331 MM

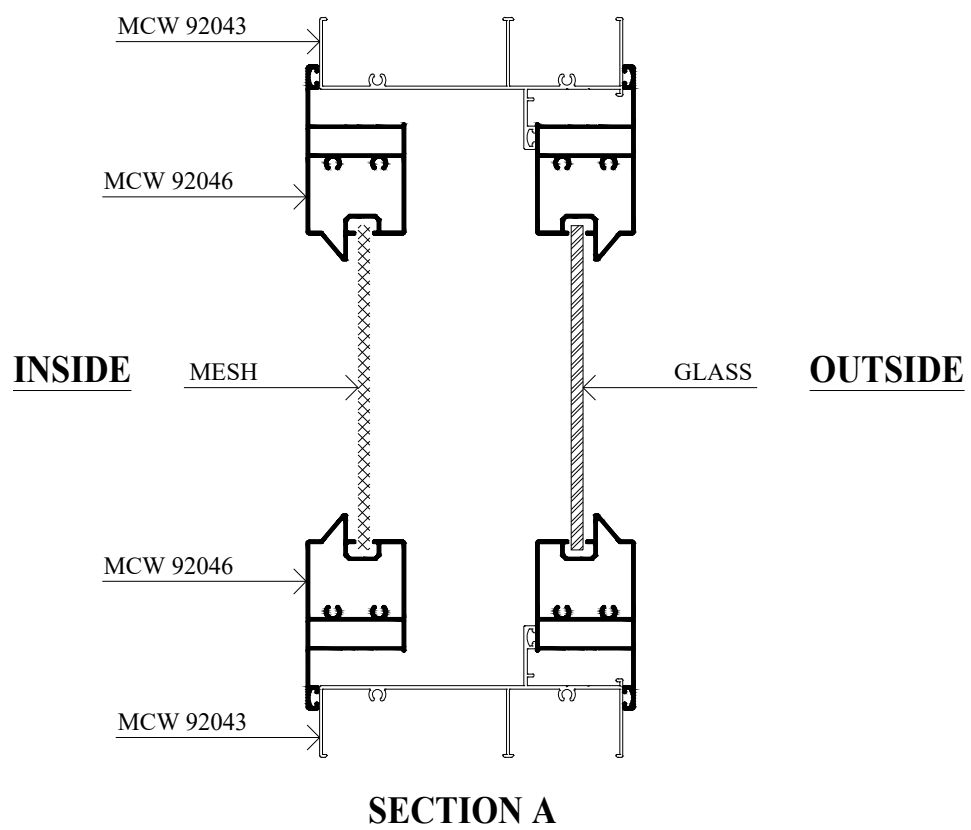
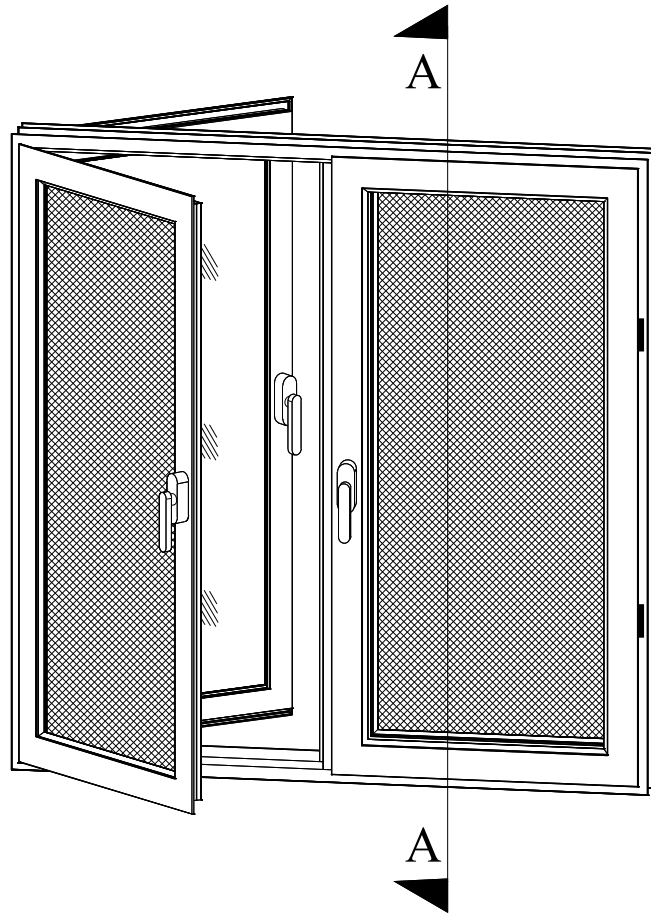


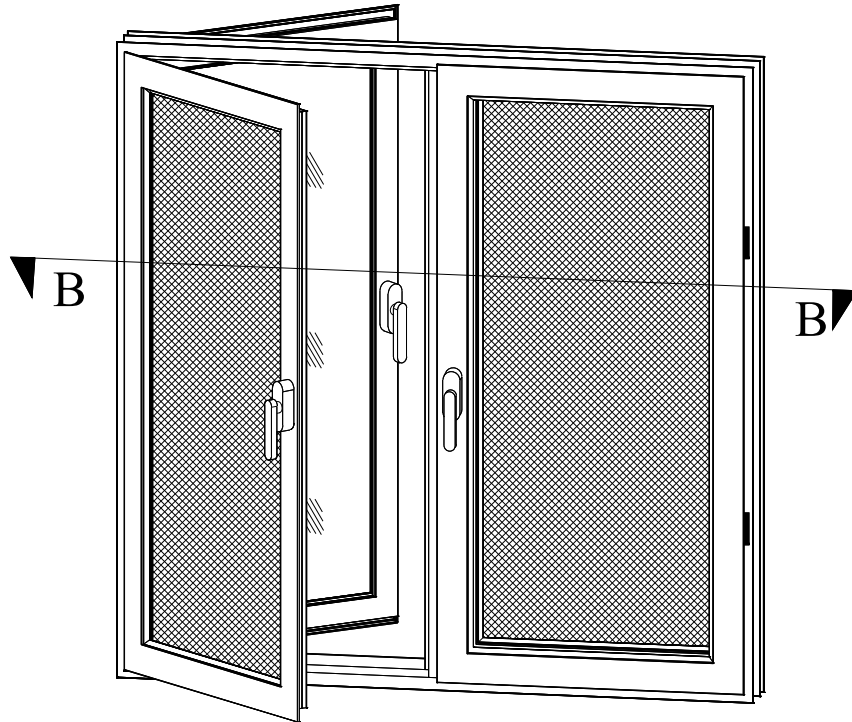
MCW 92061
0.270 Kg/M
AP : 136.255 MM



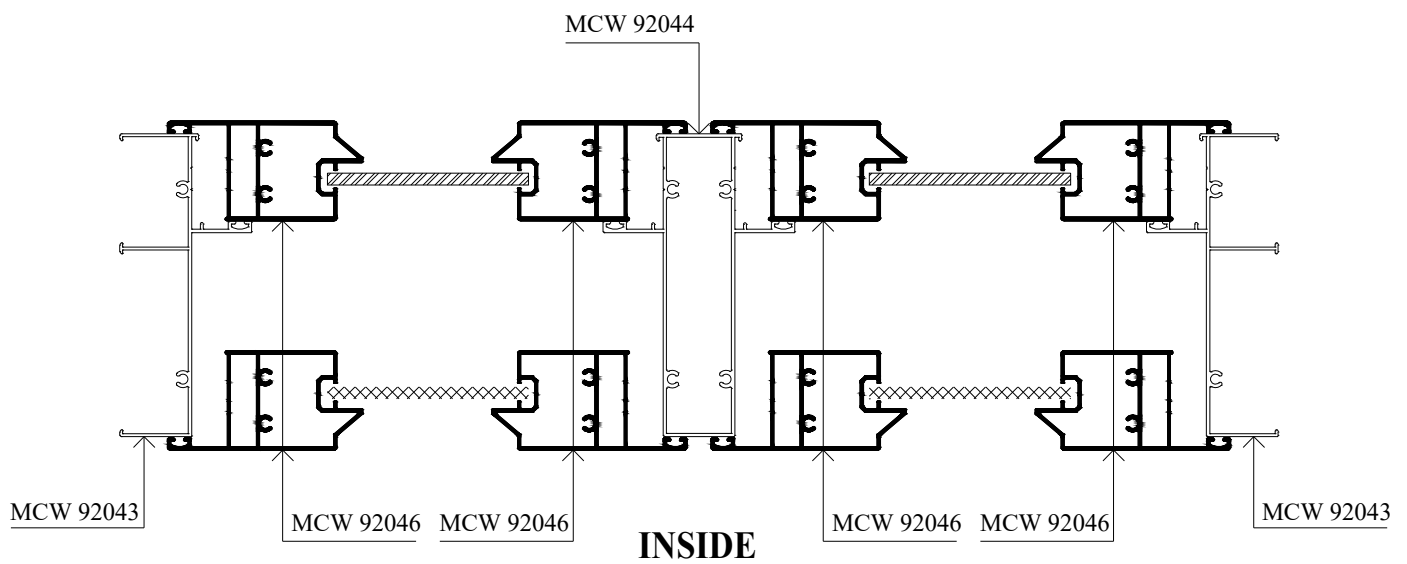
MCW 92062
0.571 Kg/M
AP : 173.253 MM







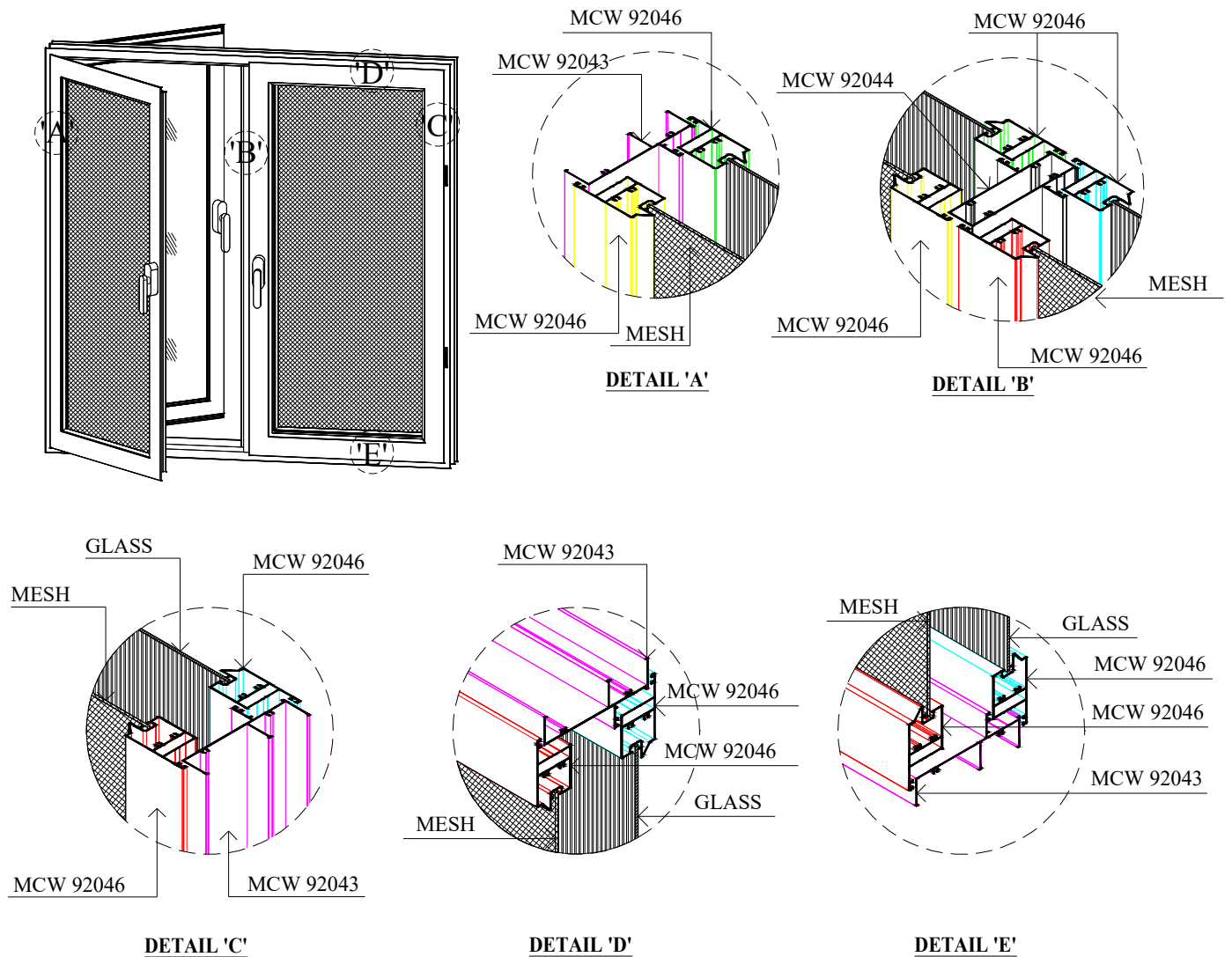
OUTSIDE



SECTION B

aluminium profiles component usage

M Casement Window - MCW9 Series



BP Aluminium Extrusion Sdn. Bhd.

No.15 & 16, 1C KKIP Selatan, Industrial Zone 2, KKIP,
88450, Jalan Sepanggar, Menggatal.



b_p_a_e@yahoo.com



www.bpaluminium.com

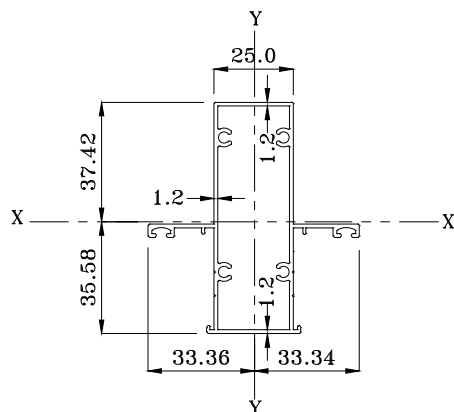
MCW-M Casement Window

SECTION NO. : MCW 92047

Alum. alloy : 6063-T5

Moment of inertia I_{xx} : 18.14cm⁴

Mod. of section Z_{xx} : 4.85cm³



Note:
Suffix xx denotes axis perpendicular to wind load

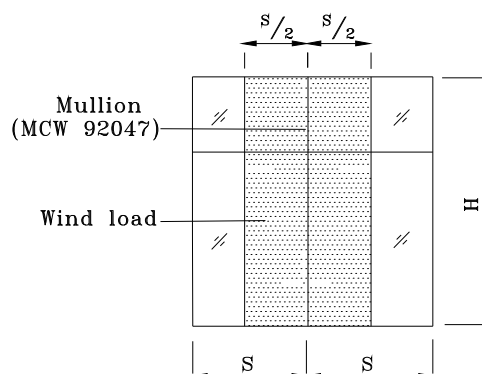
Mod. of elasticity : 70×10^3 Mpa

Design bend. stress : 83.75 Mpa

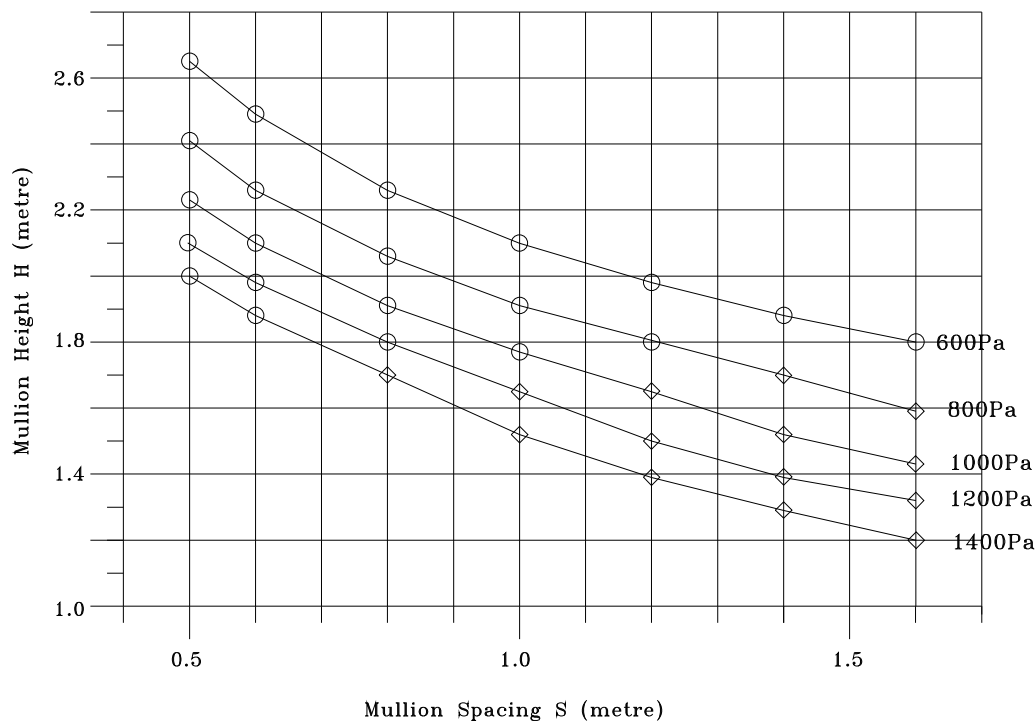
Defln. limit : $S_{pan}/175$, up to max. 20mm

Nature of anchor : Simply supported at both ends

Typical configuration of casement window



Wind Load Chart



Note:

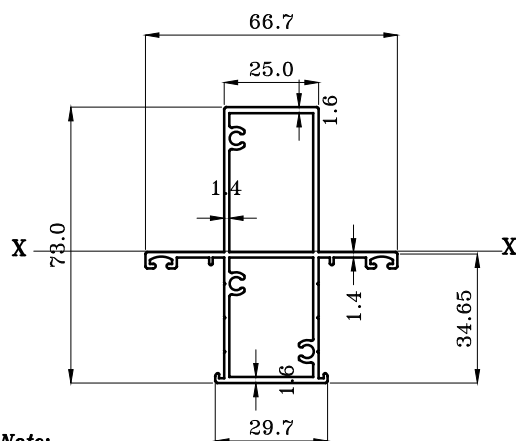
○ Deflection limit governs , ◇ Design bending stress governs

This chart is applicable to wind load pattern as shown only.

MCW - M CASEMENT WINDOW

Mullion - Section MCW 92031-M

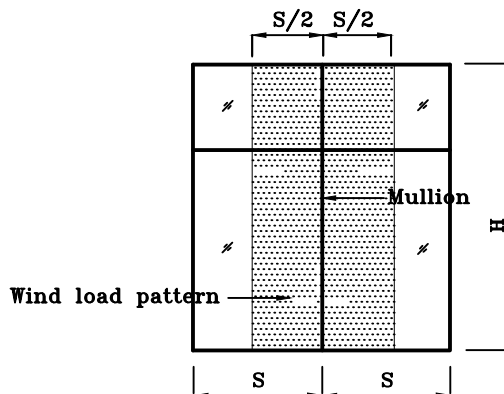
Alum. alloy : 6063-T5
 Moment of inertia I_{xx} : 21.0 cm⁴
 Mod. of section Z_{xx} : 5.5 cm³



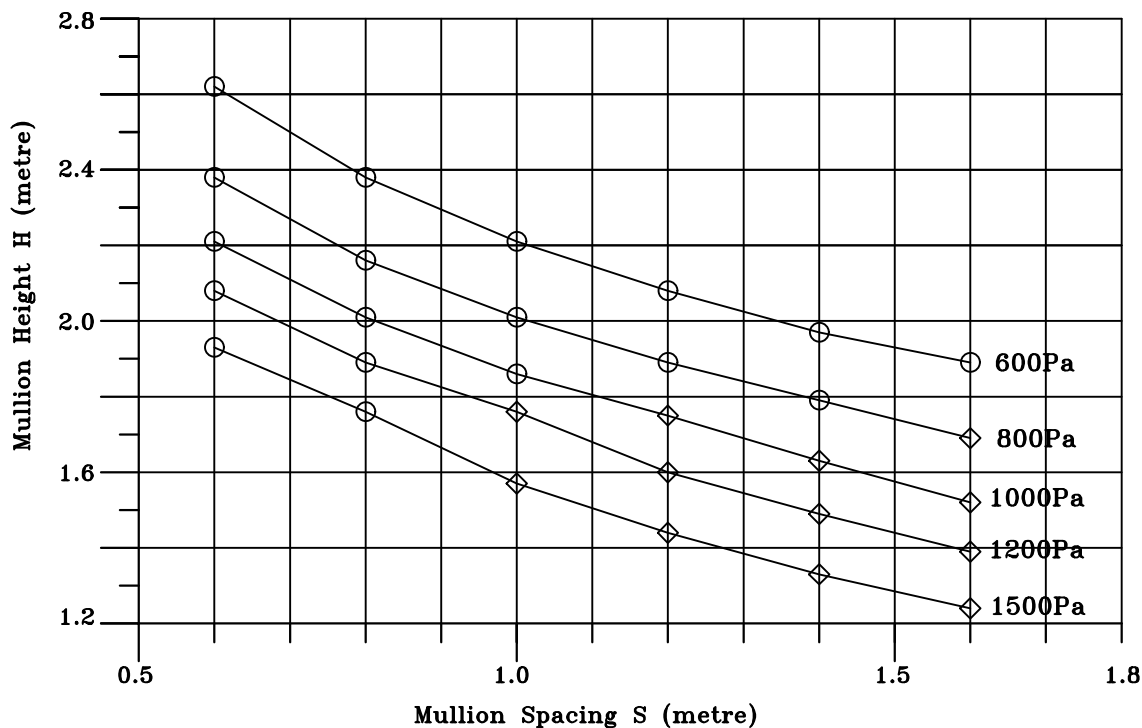
Note:
 Suffix xx denotes axis perpendicular to wind load

Mod. of elasticity : 70×10^3 Mpa
 Design bend. stress : 83.75 Mpa
 Defln. limit : Span/175, up to max. 20mm
 Nature of anchor : Simply supported at both ends

Typical configuration of window:



Wind Load Chart



Note:

○ Deflection limit governs , ◇ Design bending stress governs

Buckling has not been taken into account in this chart