

Electrical Enclosure Accessories IP-WINDOOR-P

STEEL | TRANSPARENT DOORS | IP66

Polycarbonate

IP Enclosures offers steel transparent glazed doors engineered for compatibility with its range of electrical enclosures. Supplied as a standard accessory, transparent doors allow quick replacement by removing the existing door. The doors incorporate a transparent viewing window panel manufactured from polycarbonate material and are exclusively sold and available in the UK region to ensure compliance with applicable UK electronics and electrical standards.

Windows are manufactured using 4mm transparent solid polycarbonate sheet with UV protection. The material provides very high impact resistance, excellent optical clarity and good outdoor weatherability. It is suitable for a temperature range of -40°C to +120°C, is classified to EN 13501-1: B-s1,d0, indicating favourable fire reaction performance, and low smoke production. It has approximately 87% light transmission, and provides good resistance to dilute acids and mineral oils.

Protection: IP66

Standard: IEC/EN 60529, RoHS



Material:

- Enclosure Door: 1.5mm galvanised steel sheet
- Viewing Window Panel: 4.0mm Polycarbonate
- Enclosure Seal: Polyurethane

Door: The surface mounted door is made from 1.5mm galvanised steel sheet. It incorporates concealed, removable hinges with captive pins and is designed for a 110° opening.

Viewing Window Panel: The viewing window panel is made from 4.0mm transparent solid polycarbonate.

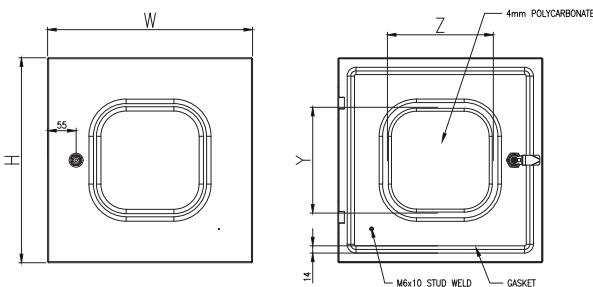
Seal: A high quality full perimeter seal provides excellent sealing over a long life. It is machine applied Polyurethane foamed in place (FIP).

Lock: 5mm Double Bit Quarter Turn Lock. A full range of locking solutions are available upon request.

Surface Treatment: UL approved AkzoNobel epoxy polyester powder coated with a textured finish. 80-120 micron average thickness. Colour RAL7035 Light Grey (standard electrical enclosure).



Image shown is for reference only.
See table below for the accurate sizes and specifications.



NOTE: 2D drawing is for reference only.
See CAD files for sizes and specifications.

Part Number	Enclosure Door Size	Viewing Panel Size	Weight	Lock
SKU	H x W (mm)	Y x Z (mm)	Kilogram (Kg)	Quantity (pc)
IP-4030WINDOOR-P	395H x 295W	204 x 134	2	1
IP-4040WINDOOR-P	395H x 395W	204 x 204	3	1
IP-4060WINDOOR-P	395H x 595W	204 x 404	4	1
IP-5030WINDOOR-P	495H x 295W	304 x 134	3	1
IP-5040WINDOOR-P	495H x 395W	304 x 204	3	1
IP-5050WINDOOR-P	495H x 495W	304 x 304	4	1
IP-6040WINDOOR-P	595H x 395W	404 x 204	4	2
IP-6060WINDOOR-P	595H x 595W	404 x 404	5	2

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Part Number	Enclosure Door Size	Viewing Panel Size	Weight	Lock
SKU	H x W (mm)	Y x Z (mm)	Kilogram (Kg)	Quantity (pc)
IP-7050WINDOOR-P	695H x 495W	504 x 304	5	2
IP-8040WINDOOR-P	795H x 395W	604 x 204	4	2
IP-8060WINDOOR-P	795H x 595W	604 x 404	6	2
IP-8080WINDOOR-P	795H x 795W	604 x 604	7	2
IP-10060WINDOOR-P	995H x 595W	804 x 404	7	2
IP-10080WINDOOR-P	995H x 795W	804 x 604	8	2
IP-12060WINDOOR-P	1195H x 595W	1004 x 404	8	2
IP-12080WINDOOR-P	1195H x 795W	1004 x 604	9	2

PROPERTIES	Method	Unit	Value
Material: 4mm Polycarbonate solid sheet			
General Properties			
Density	ISO 1183-1	gr/cm3	1.2
Water absorption saturation (water 23°C)	ISO 62	%	0.3
Water absorption equilibrium (50% humidity)	ISO 62	%	0.12
Mechanical Properties			
Tensile modulus	ISO 527-1,-2	Mpa	2350
Yield stress	ISO 527-1,-2	Mpa	65
Yield strain	ISO 527-1,-2	%	6.3
Nominal strain break	ISO 527-1,-2	%	>50
Stress at break	ISO 527-1,-2	Mpa	70
Strain at break	ISO 527-1,-2	%	120
Charpy impact stength	ISO 179-1	kJ/m2	No Break
Thermal Properties			
Vicat softening temperature	ISO 306	°C	148
Thermal conductivity 23°C	ISO 8302	W/mK	0.2
Electrical Properties			
Volume resistivity	IEC 60093	Ohm.cm	1,00E+14
Electrical strength	IEC 60243-1	kV/mm	34
Surface resistivity	IEC 60093	Ohm	1,00E+16
Dissipation factor - 100Hz	IEC 60250	10.-4	5