Electrical Enclosure Accessories IP-WINDOW

INSPECTION VIEWING WINDOW KITS | IP66 Transparent Polycarbonate

IP Enclosures WINDOW range of Inspection Viewing Window Kits provides safe visual inspection and monitoring of equipment within electrical enclosures without opening the door, reducing risk and enhancing safety. Supplied as complete kits, they are designed for quick and easy installation.
Viewing 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.

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

Protection: IP66

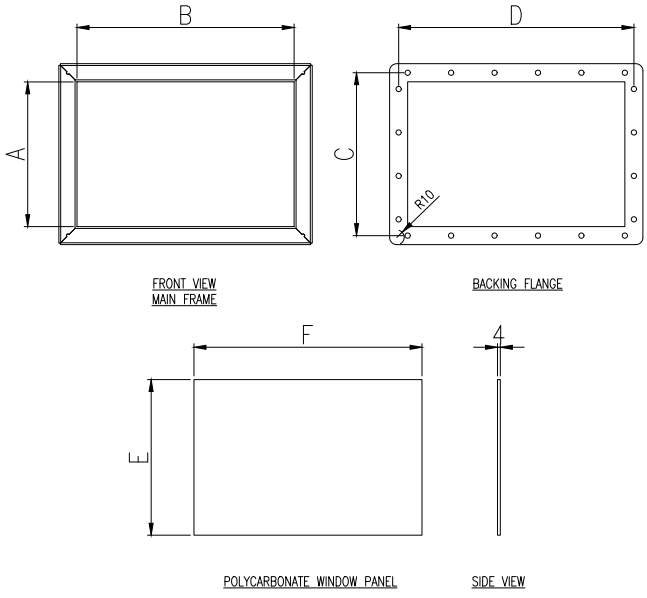
Standard: IEC/EN/AS60529

Material:
- Frame: Grade 316L stainless steel
- Backing Flange: Grade 316L stainless steel
- Viewing Window: 4.0mm Transparent solid polycarbonate

Frame: The frame is fabricated using Grade 316L stainless steel which provides durable and aesthetically finished surround to the viewing window.

Backing Flange: The backing flange is fabricated using Grade 316L stainless steel. M6 fasteners and gaskets are provided.

Viewing Window: The viewing window is manufactured from 4.0mm transparent solid polycarbonate, internally-mounted and provided with integral seal.



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

Part Number	Frame Opening Size	Backing Flange Size	Window Panel Size
	A x B (mm)	C x D (mm)	E x F (mm)
IP-WINDOW1212	125mm x 125mm	175mm x 175mm	140mm x 140mm
IP-WINDOW1220	125mm x 200mm	175mm x 250mm	140mm x 215mm
IP-WINDOW2030	200mm x 300mm	250mm x 350mm	215mm x 315mm

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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

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