



## Langmatz Polycarbonate Equipment Cabinets For LV network switchgear, telecoms, traffic control and general

DS0004 R4 Langmatz Cabinets 05/2026

**Langmatz reinforced polycarbonate equipment cabinets are made from an extremely robust, heat resistant, flame retardant, corrosion-resistant and weather resistant engineering thermoplastic structural foamed polycarbonate.**

This material has excellent impact strength and is resistant to chemicals, oils and greases including cracking from solvents and aerosols. It is completely safe to handle, cut, drill and tap. It is also fully recyclable.

Langmatz polycarbonate cabinets have proven their worth for well over 25 years and in installations throughout Europe, Australia and NZ. Polycarbonate is a long-lasting, weather-resistant material, unlike GRP (glass reinforced polyester) which is not generally suitable for New Zealand outdoor applications.

For LV network switchgear applications, where cabinets are often located in publicly

accessible places, assurance of safety is provided by compliance with IEC 61439-5. Safety and security are assured by the absence of exposed fixings, and the hinged lockable doors with fully insulated lock and 5-point latching. All mounting screws and fixings are 316 grade stainless steel. The lifetime of the doors is the same as the lifetime of the cabinet.

Mounting points are provided for fastening of vertical or horizontal DIN standard disconnects and fuse holders that withstand all normal forces applied during cable fastening and the installation / removal of fuses.

Ground planted and surface mount cabinets are available in a range of colours. Cabinets can be pre-fitted with busbars, mounting panels and equipment as required.

## Cabinet, door specifications

Parameter	Test method	Requirement	Comments
Impact resistance (all sides)	IEC 61439-5	15 kg sandbag from 1 m height	
		2 kg steel ball from 1 m height	
		5 kg sharp point from 0.4 m (20 J)	
Lateral tensile strength (top edge)	IEC 61439-5	1,200 N for 5 minutes	
Distributed top load	IEC 61439-5	500 N/m <sup>2</sup> for 5 minutes	
Torsional strength	IEC 61439-5	2,000 N for 30 seconds	
Base mechanical strength	IEC 61439-5	1,000 N	Pipe test
Heat resistance	IEC 61439-5	100°C / 125°C	3.2 mm rod dent impact test / 2 kg steel ball point test
Ingress protection rating (cabinet)	DIN 40050	IP44	When installed in accordance with instructions <sup>1</sup>
Ingress protection rating (lock)	DIN 40050	IP65	Waterproof and dust proof
Flame resistance	UL 94	V1	Burning stops within 30 seconds, no flaming drips
Flame resistance (surface)	DIN 53483 Part 3	K1 / 8 mm	Flame does not reach measuring mark at 150 mm
Flame resistance (edge)	DIN 53483 Part 2	F1 / 8 mm	
Dielectric strength	DIN 53481 Part 4.2.2	30 kV/mm	
Chemical resistance	-	Resistant to hydrocarbons including oil, grease, petrol	
Weather resistance	EN 50298 and 60439-5	No change in resistance	
	ISO 4892-2 Process A	>70% retained flexural strength	

## Materials

Component	Material	Comments
Cabinet, door	Structural, foamed polycarbonate	Zero residual stress
Fixings	Stainless steel 316 / 1.4301	
Tie-bars	Galvanised steel	

## Product Information

Hiko Code <sup>2</sup>	Cabinet				In-ground base			Surface mount base	
	Max. number of ways (vertical disconnects)		Width	Height above base	Depth (front to back)	Height above ground	Depth below ground	Height above ground	
	DIN2/3	DIN00	(mm)	(mm)	(mm)	(mm)	(mm)	Hiko Code <sup>2</sup>	(mm)
LA460CAB	3	7	460	870	330	300	600	LA460SMB	330
LA595CAB	5	10	595					LA595SMB	
LA795CAB	7	14	795					LA795SMB	
LA1120CAB	10	20	1120					LA1120SMB	

### Accessories

Door stay: LAA0005 (door stay)  
Black door handle: LAA0004 (black handle)

### Colour

Refer to note 2; other colours available on request

### Options

Pre-fitted with busbars, neutral-earth bar Street lighting and other auxiliary supplies MDIs / metering / monitoring Identification / warning labels to network requirements  
Locking arrangements  
Inspection window

### Notes

1. On request, cabinets can be supplied with degree of protection up to IP54  
2. Colour: add suffix GY for Grey RAL 7038; add suffix GN for rainforest green (AS2700 G15) RAL 6003; add "A" for anti-graffiti formula

### Other literature available on request

Reports, drawings, technical data sheets, installation instructions, O&M guidelines

