



## Distribution Pillars and Link Pillars

**For up to 10x DIN3 style vertical disconnects and other switchgear and control gear**

DS0024 R4 Distribution Pillars & Link Pillars Datasheet 09/2024

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Low voltage network switchgear assets are often located in publicly accessible places: on berms, in footpaths and driveways, in town centres, where public safety as well as operator safety is a paramount consideration.

Hiko Distribution Pillars and Link Pillars use extremely secure, robust, fully insulated, weatherproof Langmatz polycarbonate outdoor cabinets and DIN-style switchgear, including Weber EFEN E3 double break, fully enclosed disconnects.

They are fully compliant with the requirements of AS/ NZS 61439-1 and 61439-5, which includes particular requirements for LV switchgear in public places. In addition, Hiko has conducted extensive independent performance testing.

The result is a high level of assurance of LV asset safety that represents taking “all practicable steps” to protect the public and operators alike.

By contrast, aluminium or steel pillars deliver a lower level of assurance.

In terms of long-term reliability, the unique Langmatz polycarbonate two-piece cabinet has proven its worth for well over 25 years in installations throughout Europe, Australia and New Zealand, and in many networks is the only approved option. This is an enviable record that cannot be matched by GRP (glass reinforced polyester) cabinets.

The modular design of Hiko Distribution Pillars and Link Pillars enables a wide range of configurations, from single switch link pillars to double-bus distribution boards. With options available for ground plant and surface mount bases, the two-piece construction facilitates quick installation and secure, straightforward inspection throughout the life of the asset.

## Cabinet, Door Specification

Parameter	Test Method	Requirement	Comments
Impact resistance (all sides)	AS/NZS 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)	AS/NZS 61439-5	1,200 N for 5 minutes	
Distributed top load	AS/NZS 61439-5	8,500 N/m <sup>2</sup> for 5 minutes	
Torsional strength	AS/NZS 61439-5	2,000 N for 30 seconds	
Base mechanical strength	AS/NZS 61439-5	1,000 N	Pipe test
Heat resistance	AS/NZS 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	IP43	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	
Internal protective covers	Polycarbonate (transparent), PVC (grey)	
Busbar heat-shrink	Polyolefin	Colour coded

## Configurations

Maximum Number of Ways (Vertical Disconnects)		Width (mm)	Height Above Ground <sup>2</sup> (mm)	Depth (front to back) (mm)	Base Depth (below ground) (mm)
DIN2/3	DIN00				
3	7	460	1170	330	600
4	10	595			
6-7	14	795			
10	20	1120			

### Options

DIN-style switchgear (Weber / EFEN or third party brand)  
 Street lighting and other auxiliary supplies  
 MDIs / metering / monitoring  
 Other switchgear or control gear  
 Colour (as supplied: natural grey RAL 7035; Rainforest green (AS2700 G15) RAL 6003 and other colours available on request)  
 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. Nominal, using standard in-ground base; using surface mount base gives overall height 1200

### Other literature available on request

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