logstrup

www.logstrup.com

Logstrup Modular System



Low voltage – High quality since 1958

Logstrup-Steel is a family-owned panel board design and manufacturing company owned and run by Per Løgstrup for more than four decades. The company was founded in 1958 by his father, Jørgen Løgstrup.

Jørgen Løgstrup was one of the pioneers to introduce a modular and configurable enclosure system for electrical panels: the Logstrup Modular System.

For over half a century, Logstrup has improved and perfected the invention, and today, the system is one of the highest-quality low-voltage products on the market.

Always aiming for the best quality, the Logstrup Modular System meets and exceeds a wide range of national standards, international standards and safety regulations. It is one of the most rigid solutions in its class, and a valid option for high-impact industries and demanding environments.

Our focus on quality is also reflected in our commitment to continually updating our production methods with state of the art industrial technology. This enhances the quality of our products, augments our production capacity, minimises our environmental footprint, and ensures improved safety and working conditions for our 350+ employees.



Logstrup certificates and values

Logstrup has been ISO9001/14001/45001 certified for many years. We are proving our commitment to the health and safety of our staff, the quality of our products and services, always with the aim of minimising environmental impact.

Our three management standards provide an excellent framework to help improve best practices within our organisation and help us exceed customer expectations.

Continuous improvement and sustainability are at heart whenever we innovate our product, expand our production facilities or train our partners worldwide.

Logstrup values the importance of co-operation and the long-term relationships with our customers.

This also applies to our supply chain. Environmental responsibility is a crucial focal point in today's industry and should be seen as more partnership opportunities as we all strive to offer the best solution to our customers.



State-of-the-art production line

The unique profiles of our framework, corrosion-protected standard components, non-welded corners on our doors and cover plates make the Logstrup Modular System last for generations.

As we strive for excellence, we continuously keep our production methods up to date with state of the art industrial technologies. Our recent milestone includes implementing a new 70-metre long, fully automated, primarily solar-powered production line that only consists of punch, bend and corner former technologies.

Continuously replacing old, heavy and dangerous production processes with modern technologies makes each day a step forward in our collective journey to secure high-quality products, a healthier working environment for our employees and a greener environmental footprint.

Around 95 % of the components used for the Logstrup Modular System are proudly produced in-house.







The Logstrup Switchgear and Controlgear System is a comprehensive modular system allowing the user to create a wide range of Switchboards and Motor Control Centres. Key benefits include:

- Minimal downtime, reliable supply and easy repair
- Re-configuration of units while live
- Interchangeability of different unit types
- Scalability and option for upgrades and extensions
- Free choice of devices and switchgear from major brands
- ProfiBus and DeviceNet and other industrial bus systems
- Compact design, up to 40 units per section

The system can be supplied in loose part kits or mechanically assembled and is suitable for a broad spectrum of industries including:

- Chemical
- Pharmaceutical
- Marine/Offshore
- Petrochemical
- Building Services
- Power Stations
- Paper Mills
- Water Treatment Plants
- Car Industry
- Mining Industry
- Energy
- Datacentre
- Commercial Buildings
- Oil & Gas
- Infrastructure

Logstrup can provide a full customisation service to customer specification in painted, stainless steel or Aluzinc using the latest 3D technology.

- 3D Concept model
- 3D Visualisation and Walk Through
- Detailed design
- CAD/CAM manufacturing
- Precision welding
- Choice of colours and textures

The Logstrup Switchgear and Controlgear System achieves the highest safety standards:

- Test verifications acc. IEC 61439-1&2
- Internal arc test acc. IEC/TR 61641
- Section Arc Protection Barriers
- Unit Arc Protection
- Thermographic inspection areas
- Mechanical safety interlocks
- IP20 internal protection

The Logstrup framework and cladding system provides the most robust flexible system available:

- High strength 5 bend profile
- 2mm Aluzinc material
- Modular in 3 axes
- Doors in 1.5mm or 2.0mm
- IP44 standard (IP54 optional)
- Special colours available
- Customised cut-out's

The busbar system forms the main power distribution within an assembly and is one of the critical elements determining the assembly's operational reliability and safety. Features of the system include:

- Main busbars in top or bottom of panel
- 2, 3 or 4 bar systems up to 8,500A
- Separate compartments, IP20
- Distribution bars up to 2000A
- Internal arc barriers (optional)







The Logstrup Switchgear and Controlgear System is available in a wide variety of configurations to cover all applications

- Fixed
- Removable (RMU)
- Withdrawable (MDU/WDU)
- Accommodates components from many manufacturers
- Inline
- Front Access
- Rear Access

Fixed Units

- Steel compartmentation up to Form 4
- Adjustable depth mounting plates
- Sizes: 4 widths, 16 heights, 6 depths
- Front or rear access

Removable Units

- High protection against contact with live parts
- Starters and feeders up to 800A, 500kW
- Fixed or hinged front cover
- Coding system
- Unique safety interlocking mechanism
- Fully re-configurable while live
- Sizes: X = 3, 4. Y = 1, 1½, 2, 2½, 3, 3½, 4.
- Up to 10 units per section

Mini-Withdrawable

- High personal protection
- Rating up to 80A, 55kW, 690V
- Aux control is compatible to all industrial automation networks
- Front or rear access
- Removable interface box
- Interface box can be pre-wired
- Fully re-configurable while live
- Coding system
- DeviceNet & ProfiBus compatible
- Sizes: X = 1, 1½, 2, 3. Y = 1
- Up to 40 units per section

Withdrawable Units

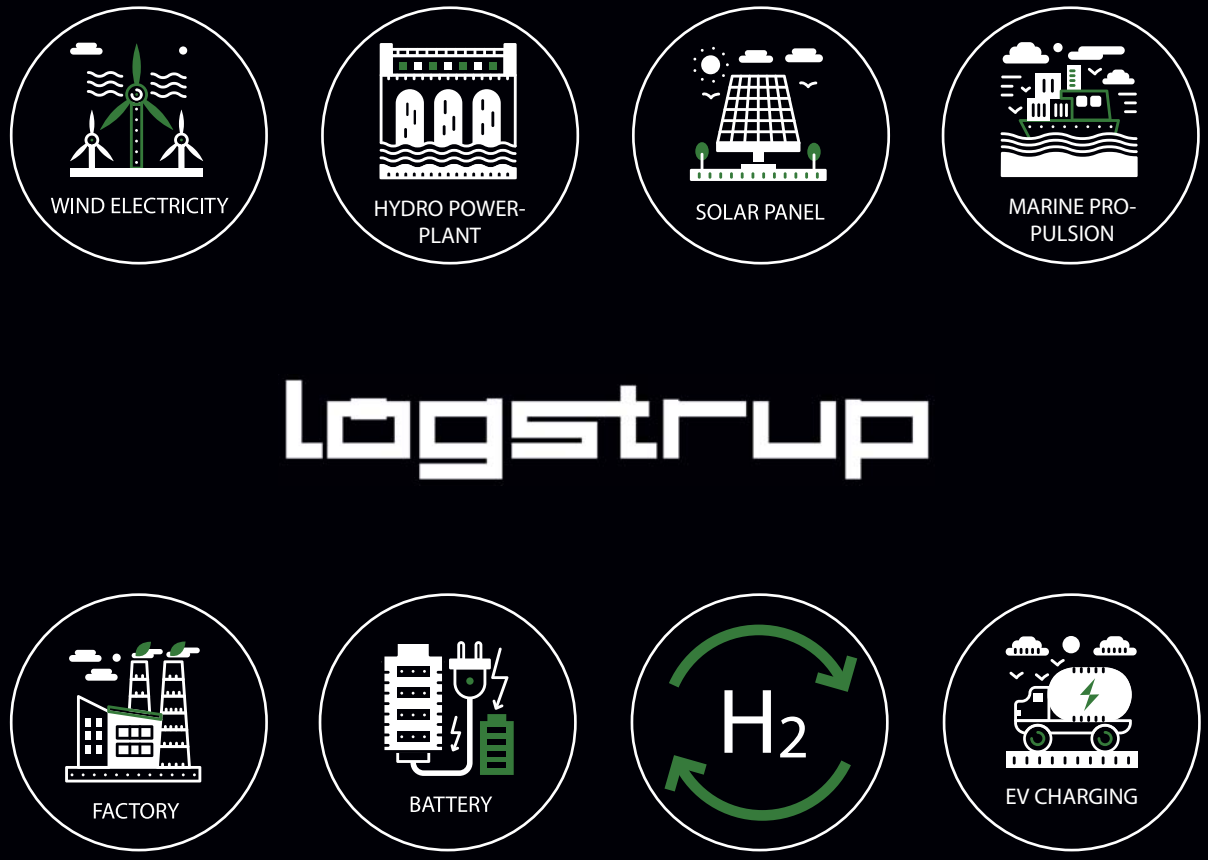
- High operational safety
- Rating up to 800A, 500 kW, 690V
- Aux control compatible: RJ45, Profibus etc.
- Fully re-configurable while live
- Coding system
- Shutter system available
- Safe operation IP20 protection in all positions
- Fixed or hinged drawer front
- Test, isolated and operational position with maintained IP54
- Compliant to French Service Index IS333
- Sizes: X = 3 or 4. Y = ½, 1, 1½, 2, 2½, 3, 3½, 4.
- Up to 20 units per section

Inline Units

- Accepts ABB Slimline Products
- Accepts Jean Muller Sasil Products
- Rating 160-630A
- Fully re-configurable while live
- Modular design
- Easy installation
- High operational safety
- High protection against contact
- High breaking capacity
- High short-circuit strength
- Up to 36 units per stack

Power to X solutions

Logstrup is your perfect partner in Power to X solutions due to high flexibility and due to high strengths.
We are with you all the way from production, storage and distribution to consumption.





Logstrup is a major supplier to the marine and offshore industries for the following:

- Main switchboards
- Motorcontrol centres (Fixed/Withdrawable)
- Control panels
- Bridge control consoles
- Water-cooled drive panels

Logstrup is a major supplier to all types of vessels:

- Container vessels
- Private yachts
- Tankers
- Cruise liners
- Tug boats
- Ferries
- Offshore platforms
- Deepwater construction vessels

Logstrup Marine & Offshore Panels incorporate advanced features to ensure optimum use of space on the vessel while still maintaining the correct temperature within the panels.

- Front or rear access
- Ventilation front and back
- Raised roofs to IP31
- Interlacing of phases
- Fitting of stainless steel in busbar area to reduce magnetic effect

Logstrup provides customised solutions for Bridge Control Consoles using the latest 3D technology.
Services include:

- 3D Concept Model
- 3D Visualisation
- Detailed design
- CAD/CAM manufacturing
- Precision welding
- Manufactured in mild or stainless steel
- Choice of individual coating colours and finish





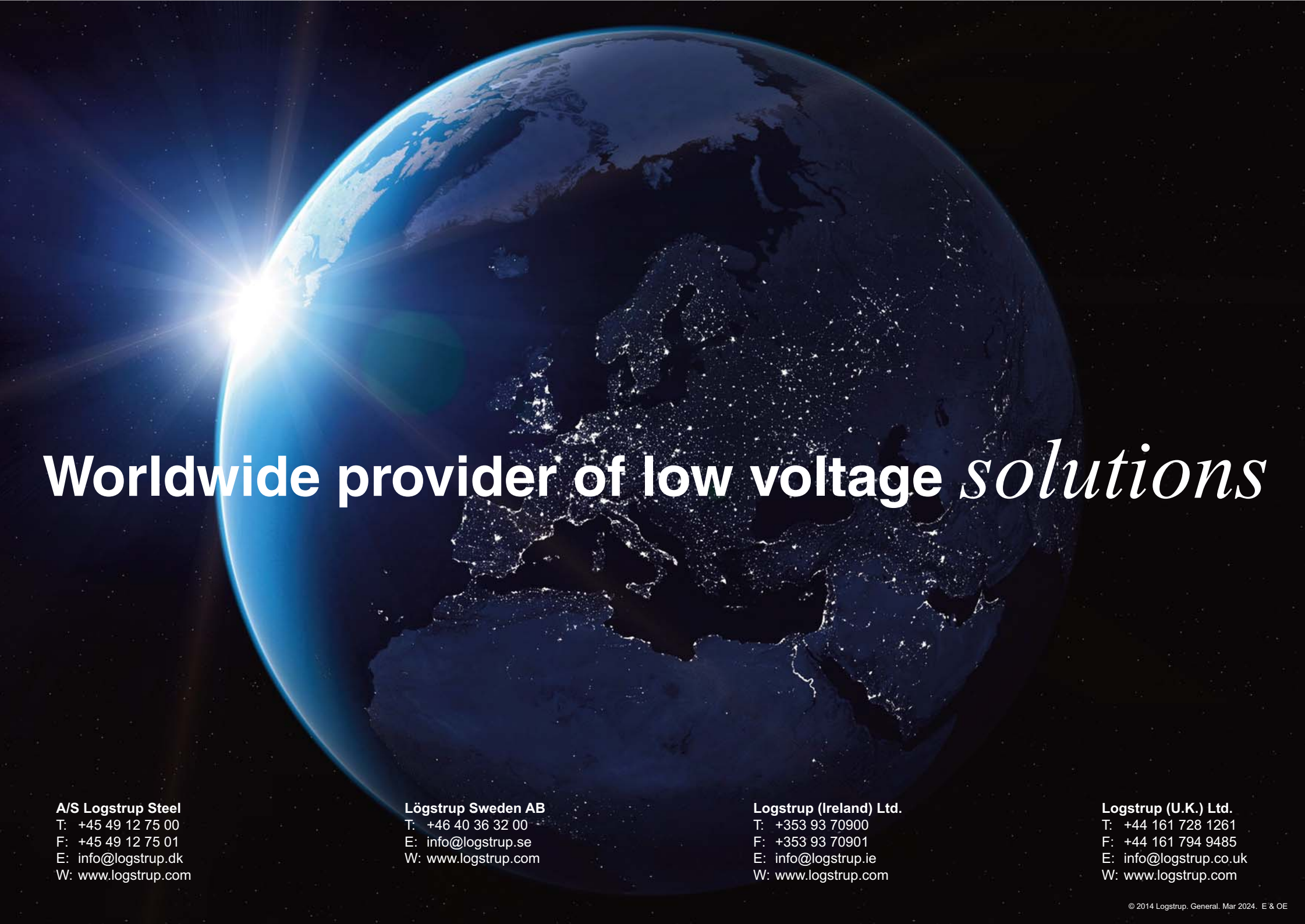
“Technical

Reference Standards		Power Switchgear and Controlgear Assemblies Type test verifications and compliance	EN/IEC 61439-2/1 BS/IEC 61439-2/1 IEC 62208 IEC 60529 & IEC 62262 IEC TR 61641, Ed. 3 CSA-22-2 No. 31 & 14, UL 508A DNV / LR / ABS / MIL-S-901D		
Electrical Data	Rated Voltages	Rated operational voltage (U_e) Rated insulation voltage (U_i) Rated impulse withstand voltage (U_{imp})	Up to 1000V 1000V 8kV		
	Rated Currents	**Main Busbar System, Horizontal & Vertical**			
		Rated current (I_{nc})	up to	8500	A (main busbar)
		Rated Peak withstand current (I_{pk})	up to	363	kA
		Rated Short-time withstand current (I_{cw})	up to	165	kA 1 sec
		Distribution Busbars, Fixed System			
		Rated current (I_{nc})	up to	2000	A
		Rated Peak withstand current (I_{pk})	up to	220	kA
		Rated Short-time withstand current (I_{cw})	up to	100	kA 1 sec
		Rated Conditional withstand current (I_{cc})	up to	150	kA
		Distribution Busbars, Withdrawable & Removable System			
		Rated current (I_{nc})	up to	1800	A
		Rated Peak withstand current (I_{pk})	up to	154	kA
		Rated Short-time withstand current (I_{cw})	up to	100	kA 1 sec
		Rated Conditional withstand current (I_{cc})	up to	100	kA
		Resistance against internal arcing faults:			
		Arcing Class C			
		Short-circuit current under self-extinguishing arcing conditions ($I_{ps\ arc}$)		100	kA
		Permissible short-circuit current under arcing conditions ($I_{p\ arc}$)		100	kA
		Permissible arc duration (t_{arc})		500	ms
		Conditional short-circuit current under arcing conditions ($I_{pc\ arc}$)		100	kA

Note: All rated values are subject to configuration

Information”

Mechanical Data	Internal Separation	EN/IEC 61439-2/1 BS/IEC 61439-2/1	Up to Form 4A and 4B Form 4B Type 1 to 7
	Degree of Protection	IEC 60529 IEC 62262	Up to IP55 (IP56) Up to IK 10
	Corrosion Class	ISO 12944-2	Standard C3, up to C5-M
	Marine Vibration Seismic Qualification Navy Schock Test	DNV Standard No. 2.4, IEC 60068-2-6 & 2-64 IEC 60068-3-3 MIL-S-901D	1 g r.m.s 2-100Hz Performance Level II, Up to: AG5, Richter Scale >7 Grade A, Class II, Type A (+30g)
	Materials	Doors & Plates Framework Mounting Plates Internal Plates Stainless Steel (optional) Rear Plates Top Plates Plinth	Painted Steel 1.5mm or 2.0mm Painted Steel or Aluzinc 2.0mm Aluzinc 2.0mm Aluzinc 1.0mm - 2.0mm ANSI 304 160/80 Aluzinc 1.5mm Painted Steel 1.5mm or 2.0mm Aluzinc 1.5mm High strength steel 2.5mm with Magnelis coating
	Colour	Doors & Plates Plinth Powder coating is optional / Colours and coating thickness available on request	RAL 7035 Fine Structure, 60-80µ RAL 9005 Fine Structure, 60-80µ
	Dimensions (mm)	All sizes possible in steps of 190 mm, the original modular size of Logstrup modules	
	Service Conditions	Installation Ambient Temperature Relative Humidity Altitude	Indoor (Outdoor available on request) 0°C to +40°C Max 50% at 40°C ≤2000m



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