

SLIM

Electrical cabinets for
industrial, civil and service
sector up to 630 A



GLAFER
Simple ideas for great projects | GROUP

SLIM

Electrical cabinets for industrial, civil and service sector up to 630 A

(IP30 – IP43, from FORM 1 to FORM 2).

Complete modularity of the cabinet divided by the cable housing with possibility of removing the frontal part.

Same internal accessories available for Quick, Easy 630 and Compact series thanks to the ModularDIN™ system that enables rapidity and precision of assembly of modular circuit breakers.

Main characteristics

- Monoblock structure made of sheet with a thickness of 1,5 mm.
- Degree of protection from IP30 (open version) to IP43 with blind door or transparent door with toughened glass.
- Frontal part completely removable.
- Possibility of side connection.
- Installation of circuit breakers of all leading manufacturers (ABB, Schneider,

Siemens, etc.).

- Epoxy powder coating after phosphating in RAL 7035 B (other colours on request).
- Patented and certified earth connection system.
- Full range of internal finishing accessories to provide solutions for any requirement.
- On request, stainless steel cabinet.



Typology



Cabinet: : monoblock structure made of welded sheet with a thickness of 1,5 mm



Cabinet with cable housing: monoblock structure made of welded sheet with a thickness of 1,2 mm, with internal cable housing for cables, terminal block or busbar system.



IP30 frame: : it is possible to replace the glass door with the IP30 frame (open version).



Cabinet with internal cable housing: monoblock structure made of welded sheet with a thickness of 1,2 mm, with internal cable housing for cables, terminal block or busbar system.



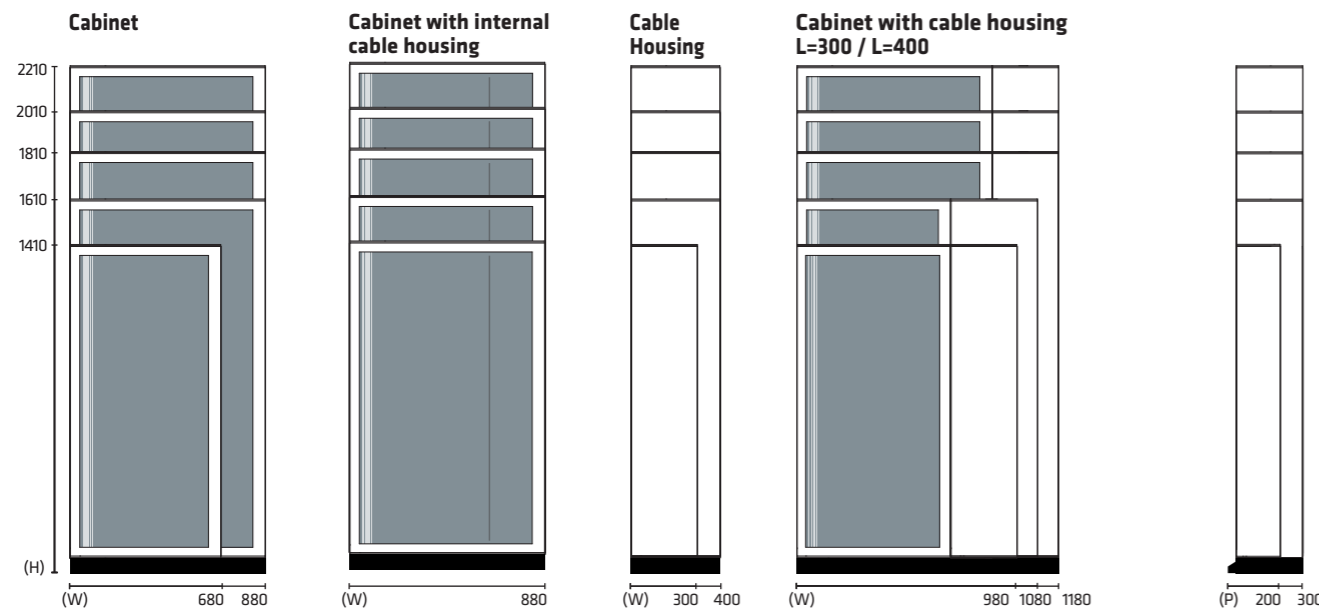
Cable housing: monoblock structure made of welded sheet with a thickness of 1,5 mm, which can be positioned near the cabinet.



Technical specifications

	Width (W) mm	Height (H) mm	Depth (D) mm	
Cabinet	680 (24 modules)	1410 / 1610 / 1810 / 2010 / 2210 (usable space = H - 210)	200 (usable space = 125) 300 (usable space = 218)	
	880 (36 modules)			
Cabinet with internal cable housing	880 (24 modules)			
Cabinet with cable housing	680 + 300 (24 modules)			
	680 + 400 (24 modules)			
	880 + 300 (36 modules)			
Cable housing	300			
	400			
Electrical data		Rated insulation voltage (U _i)	690 V	
	Voltage ratings	Rated operational voltage (U _e)	400 V	
		Rated impulse withstand voltage (U _{imp})	6 / 8 / 12 kV	
		Rated frequency (f _n)	50 / 60 Hz	
	Current ratings	Rated current (I _n)	Up to 630 A	
Rated short-time withstand current for 1 sec. (I _{sw})		25 kA		
Mechanical characteristics	IP degree of protection	Internal	Up to IP2X	
		External enclosure	From IP30 to IP43	
	Covers height (h)	150 / 200 / 300 / 400 / 500 / 600 / 700 / 800 / 900 / 1000		
	IK test (shock resistance)	IK09 glazed door		
		IK10 blind door		
	Access	From the front / Side		
	Execution	Form 1 / Form 2a		
	Material	Structure	Pickled plate, 15/10 mm thick	
		Accessories	Aluzinc® sheet steel, 15/10 mm thick	
	Powder coating	Standard	RAL 7035 B light grey (orange peel)	
On request		Powder RAL colours and stainless steel		
Plastic components	Halogen-free, flame retardants, self-extinguishing, CFC-free			

All Lafer cabinets have been designed to be used in indoor environments. In case of outdoor applications, customers should require the supply of the specific rain cover. Lafer shall not be held liable for any damage resulting from the non-observance of these guidelines



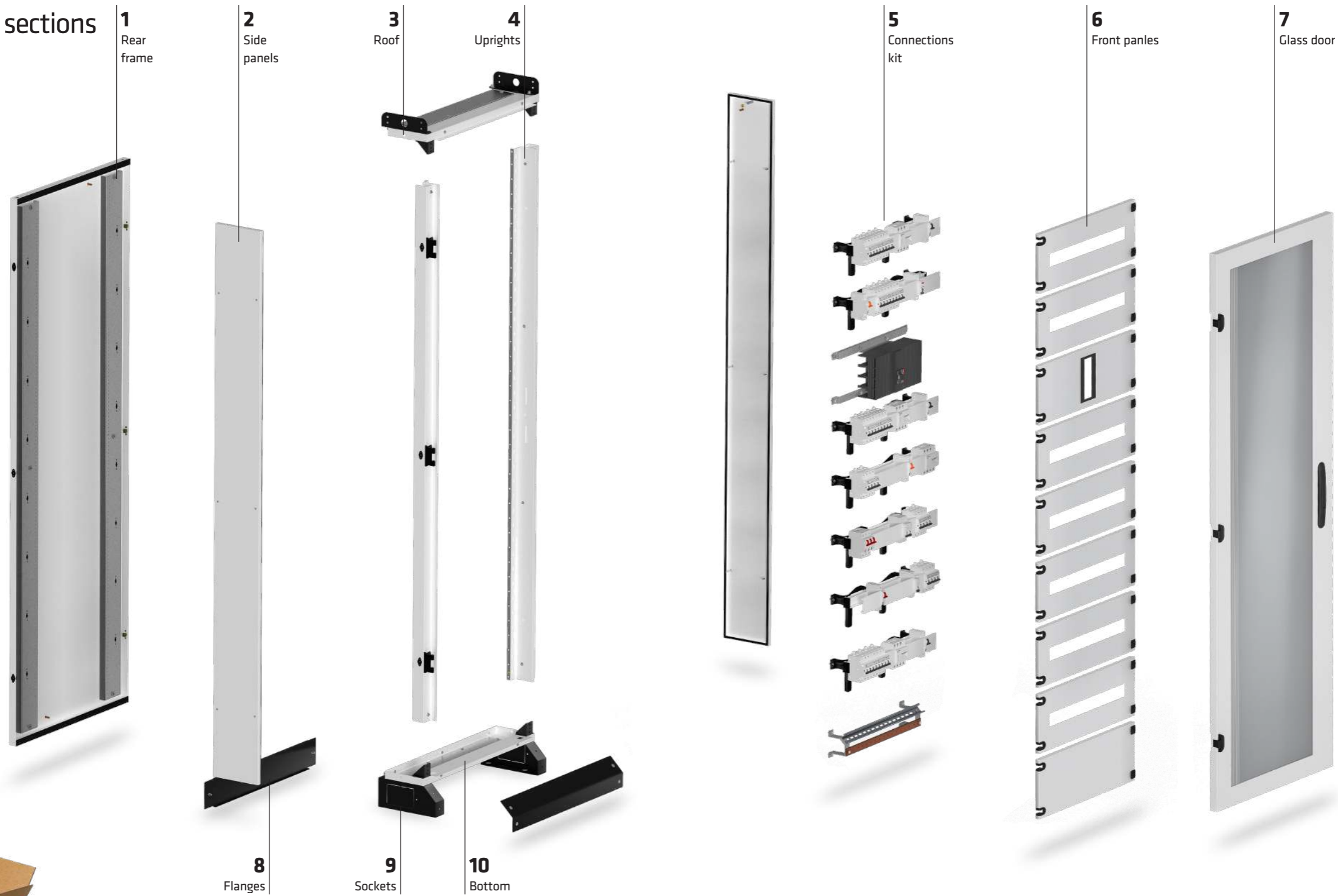
Certifications



Characteristics to be verified	Clause/Subclause		Design verification method	Test report n°
Degree protection of the assembly of enclosures	10.3	IP30	By test	EPT16AVM033754359 EUROFINS
		IP55	By test	
Mechanical impacts (IK)	10.2.6	IK9	By test	E EPT16AVM034154359 EUROFINS
		IK10	By test	EPT16AVM033854359 EUROFINS
Temperature rise limits	10.10.4.2	Single-compartment assemblies with rated current not higher than 630 A	Verification by calculation according to the method of power losses	
Clearances	10.4		By test	Lafer quality control protocol
Creepage distances	10.4		By test	Lafer quality control protocol
Verification of the short-circuit withstand of the protection circuit	10.5.3	Flat copper 60 kA	- By test - By comparison with a reference design	B0015061 CESI
Verification of the short-circuit withstand strength	10.11	Inclined flat copper busbar 16 kA	- By test - By comparison with a reference design	MP-95_001169 CESI

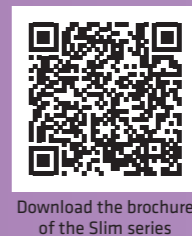


Constructive sections

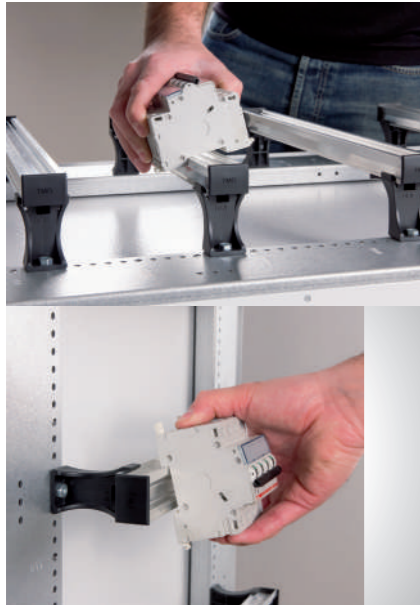


Slim panels are available as already **assembled panels**.

With Express delivery you receive your cabinet in a disassembled version in record time
All our products come with comprehensive instructions ensuring a straightforward assembly process!



Wiring modality



Wiring: possibility of horizontal and vertical wiring.



ModularDIN™ system: rapidity of assembly and disassembly of aluminium LDIN modular rails with the new joint system without screws. It is compatible with the most splitter blocks commercially available.



Cable ducting fastening: kit for fixing the cable ducting vertically and horizontally.

Outer details



Glass door: made of sheet 1,5 mm thick with grey toughened glass.



Door disassembly : it is possible to remove the door easily by taking out the outer pin hinge.

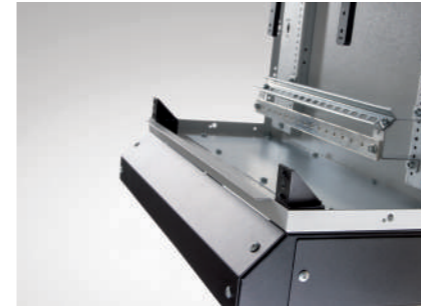


Holed covers: covers arranged with holes for devices and circuit breakers of any brand. According to the type of circuit breaker used, we supply a specific support kit.

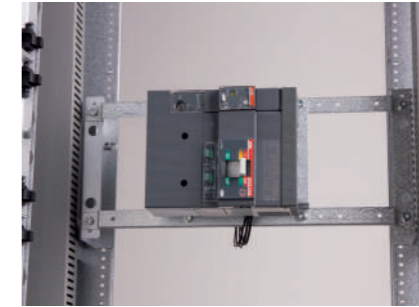


Hinges and locks: an exclusive system developed by Lafer that enables a quick opening and closing of covers through screws by ¼ turn. All covers are reversible: it is possible to invert the locks with the hinges in few seconds.

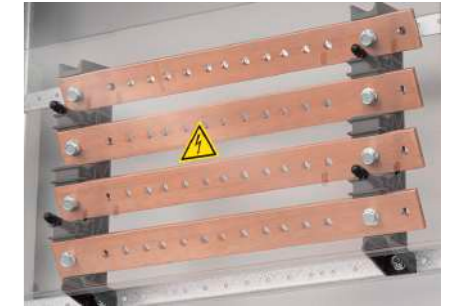
Inner details



Frontal part disassembly: rapidity of intervention for the maintenance.



Circuit breakers fastening: kit for fixing modular circuit breakers, disconnecting switches and moulded case circuit breakers of any brand.



Horizontal busbar system: busbar system up to 630 A.



Vertical busbar system: busbar system located in the cable housing L=300 and L=400 up to 630 A.



Vertical segregation: possibility to divide the cabinet between switches zone and busbars compartment.



Fixing bracket: terminal block cables and cable ducting.



Made in Italy



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