

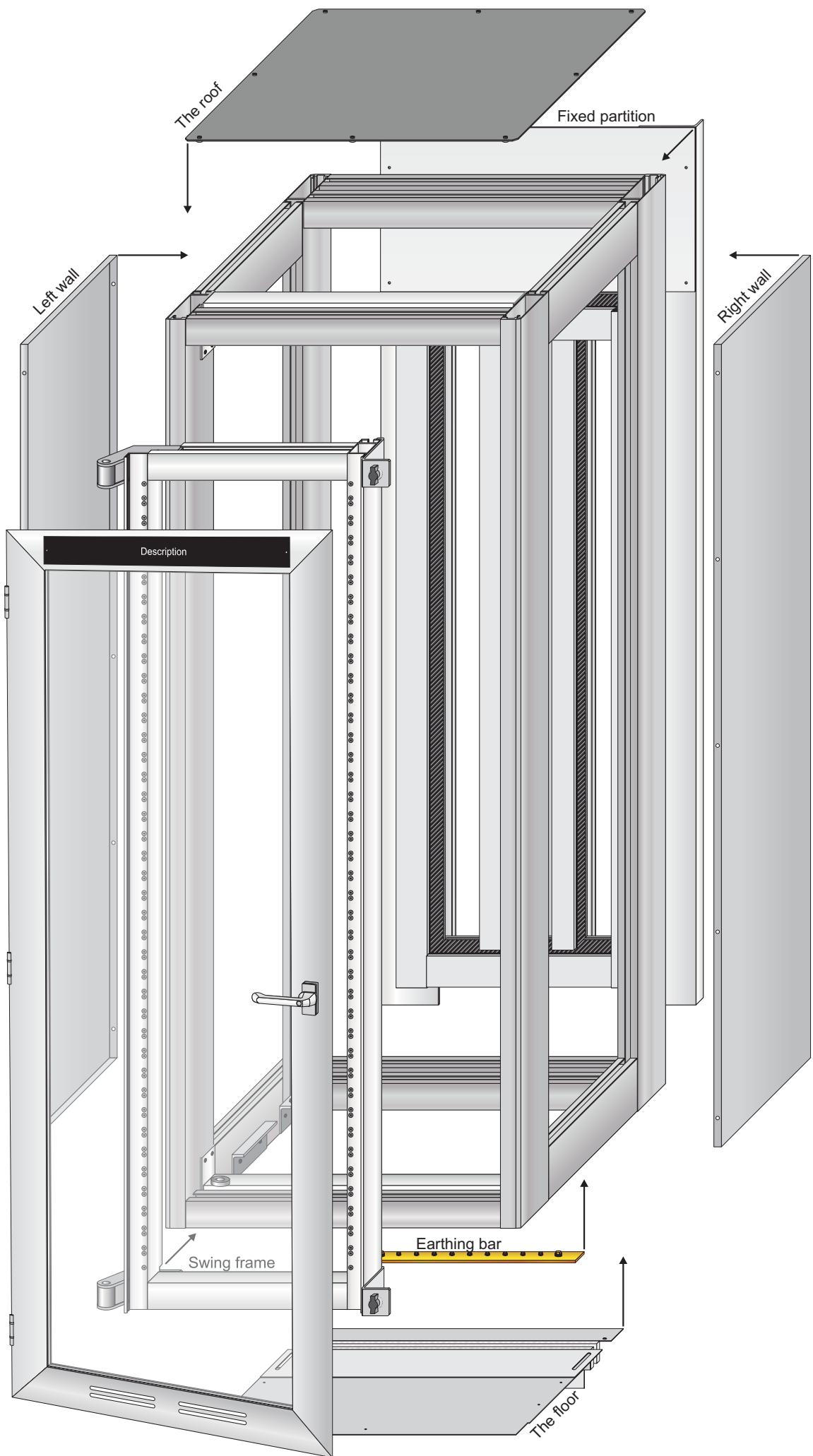
ZPrAE

Sp.z o.o.

ZPrAE Sp.z o.o.
ISO 9001
SZAFY ZABEZPIECZEN DLA ENERGETYKI
20-letnie doświadczenie
POLSKA



PROFIL-L CUBICLES



ZPrAE Sp. z o.o. specialises in production of protection equipment for power industry, control and measurement appliances, and professional cubicles, which are successfully used in substations, power plants and industrial facilities. Basing on many years of experience (thousands of cabinets installed in energetic facilities) we decided to present solutions that are mostly appreciated by our clients. Those represent only a slight part of our offer.

We are in position to design and produce constructions that fill individual needs of our Clients in respect of size, functions and colour. Our specialists are ready to advise on design and choice of cubicles to be used for different purposes and locations.

*All pictures in this document represent standard solutions of cubicles.
The symbol of telephone stands for possibility to order
different versions after prior telephone confirmation with our specialists.*



1. Application

The Profile-L cubicle is a stiff three-dimensional system, designed i.a. for power distribution substations and industrial automation systems. Our company offers cubicles "PROFIL-L" - type grouping the equipment or functions in one location, as an example:

- Protection systems designed for a particular object (overhead, block or cable lines, transformer, busbar, busbar coupler, earthing switches, voltage measurement – for all voltage levels) supplemented with:
 - Tele-controlling system
 - Signalling system
 - Control and measurement systems.
- Central signalling systems of substations
- Energy-measurement systems
- Digital registration of analog and bistable signals
- Auxiliary power supply devices, circuits of rectifiers, inverters, and generators
- Sets of transductors
- Control systems of production processes
- Control systems of substations
- Optical and telecommunication switches

2. Construction

The Profil-L cubicle is produced in a modern technology enabling multiple construction variants, depending on the equipment to be installed inside and customer requirements.

The framework of the cubicle is based on closed, thin-walled aluminium profiles, what guarantees low weight and high stiffness. This solution enables hiding all technological holes and strengthenings, resulting with high quality and aesthetics of a cabinet. All compounds of the cubicle are covered with oxygen layer Al_2O_3 or powder coated in RAL palette. The method of connecting of all elements allows vast choice of shapes and sizes of the cubicle.

The construction may be closed with glass or metal-plate doors, fixed walls, roof and the floor. The interior can be fitted with an individually designed hinged/fixed frame and/or a fixed partition. A plinth is used for anchoring the cubicle to ground in place of the cables entrance(for example over the cable duct).

The basic elements of the PROFIL-L cubicle are:

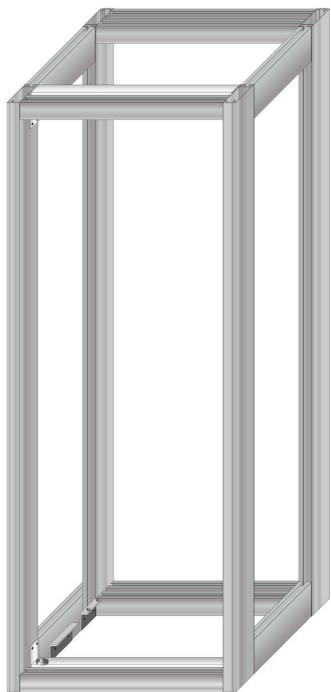
- frame of the construction
- doors
- side/rear walls
- roof
- floor
- swing frame
- fixed frame
- partitions
- plinth base
- optional equipment:
 - earthing buses
 - rails to ease the cable entrance
 - labels
 - lights
 - other

All the above elements can be mounted in different configurations and dimensions. The below points represent most typical solutions. Our philosophy of production differs from other producers, where it is the orderers responsibility, to specify in detail all the elements of the interior, including small fasteners. The Profile-L cabinet is delivered mounted and equipped accordingly to agreements made with the orderer or directly with the designer and the final customer. Our knowledge, and experience of many years of production of cubicles and complete cabinet sets for substations' control rooms enables us to prepare the cabinet accordingly to the expectations of the final customer.

3. Description of the elements of the “PROFIL-L” cabinet

3.1 The frame

The basic part of the cabinet is the frame, functioning as a backbone for all elements. The framework is constructed with aluminium profiles powder coated in a RAL palette. Most typical colours are the RAL 7035 and 7032.



The frame is always dedicated for a specific cubicle. It may be constructed in various versions according to size and type of the cabinet and fitting such as frames and partitions.

We offer cabinet in the following size ranges:

Height (H): 600 ÷ 2220 mm,

Width (W): 500 ÷ 1200 mm,

Depth (D): 300 ÷ 1000 mm.

The most typical cabinets' dimensions are:

Height (H): 2050 or 2220 mm,

Width (W): 800 mm,

Depth (D): 600, 750 or 800 mm

Powder coated in RAL 7035.

The catalogue nr of the construction:

FRAME OF THE PROFILE-L CUBICLE K x x							
SIZE			TYPE			Finish	
Height		mm/	Free-standing	K...x...x.../S		Painted RAL	3075
Width		mm/	Wall-mounted	K...x...x.../A		Painted RAL	
Depth		mm/					

Ordering example:

“Profil-L” K2220×800×800/S/RAL7035/

Stands for Frame 2220mm high, 800mm wide, 800mm deep, adjusted for mounting of front and rear door, painted in RAL 7035.

3.2 The Doors

The cabinet may be equipped with front and rear doors, or with the front door only. The doors are mounted to the frame with a butterfly hinge, and can be locked with a patent lock. The interior of the doors can be made of

Glass

Metal plate painted in RAL 7035

Metal plate powder coated in any RAL palette colour

Anodized aluminium plate (for example in order to mount switches or displays)

Vain (for example in order to mount mimic diagram)



The doors can be left- or right-opened (hinges), with an opening limiter as an option. For special purposes demanding separation of certain equipment (i.a. location of measurement instruments in one part of the cabinet) we offer a cabinet with two independent doors (for the upper and the bottom section separately). The front door are equipped with ventilation at the bottom as a standard.

The size of the door is always smaller than the frame by 90mm in height and 65mm in width. The size of the interior (ie. the size of a glass filling) is always smaller than the frame by 270 mm in height, and 245 mm in width.

As a standard we offer doors with dimensions:

external (H × W) 1960 mm × 735 mm and internal (H × W) 1780 × 550

(for cubicle H × W 2050 × 800), and

external (H × W) 2130 mm × 735 mm and internal (H × W) 1950 × 550

(for cubicle H × W 2220 × 800),

powder coated in RAL 7035 colour. Front door with ventilation at the bottom, fitted with glass, and back door fitted with steel painted in RAL 7035 left opened (hinges on the left-hand side)



Catalogue number of the doors:

DOORS D				
	Front F.		Back T.	
Side of the hinges	Left L/	Right P/	Left L/	Right P/
Glass S.	DS.F.L/	DS.F.P/	DS.T.L/	DS.T.P/
Metal plate in the colour of construction. M.	DM.F.L/	DM.F.P/	DM.T.L/	DM.T.P/
Anodized aluminium plate A.	DA.F.L/	DA.F.P/	DA.T.L/	DA.T.P/

Ordering example:

"Profil-L" K2220×800×800/S/RAL7035/DS.F.L/DM.T.L/

Stands for frame 2220mm high, 800mm wide, 800mm deep, adjusted for mounting of front and rear door, painted in RAL 7035. Front door with glass filling, hinges on the left-hand side, back door with metal filling, hinges on the left-hand side.

3.3 The walls

The cubicle can be assembled with side-walls mounted on both sides and the back (in case of wall mounted cubicles).



The walls are made of steel plates, galvanized, powder coated in the colour of the cabinet on the outer side, or any other accordingly to the RAL palette.

Standard free-standing cubicle (with front and back door) has two side-walls painted in the colour of the frame (RAL 7035).

Standard wall-mounted cubicle (with front door only) has two side-walls and a back wall painted in the colour of the frame (RAL 7035).



3.4 The roof

The cubicle can be assembled with a roof made of metal plate painted in RAL 7035.



The roof is installed on distance pieces enabling air flow through the cabinet. It is also possible to mount roof with a panel of two vents.

As a standard we offer metal plate roof painted in RAL 7015, mounted on distance pieces.



Catalogue number of walls and the roof

Walls S.			
Left L/	S.L/	Back T/	S.T/
Right P/	S.P/	Top (roof) G/	S.G/

Ordering example:

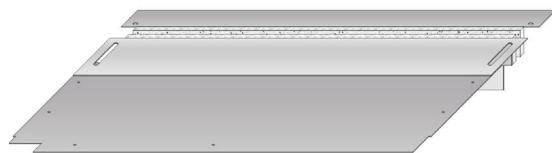
"Profil-L" K2220×800×800/S/RAL7035/DS.F.L/DM.T.L/S.L/S.P/S.G/

stands for frame 2220mm high, 800mm wide, 800mm deep, adjusted for mounting of front and rear door, painted in RAL 7035. Front door with glass filling, hinges on the left-hand side, back door with metal filling, hinges on the left-hand side. Equipped with left- and right- side walls and a roof.

3.5 The floor

Depending on internal fitting of the cubicle (frame, partitions) a variety of floors made of metal plate powder coated in RAL 7015 can be used. We offer floors in three standard versions:

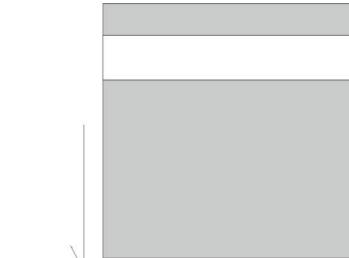
Metal plate floor with a cable entrance in the back, consisting of fixed element, and sliding element, enabling regulation of width of the cable entrance.



Regulated cable entrance
Floor - sliding element

Floor - fixed element

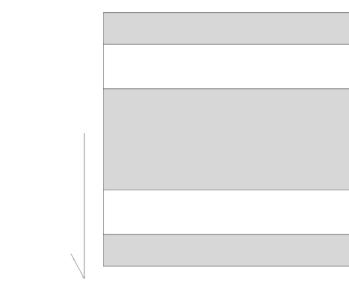
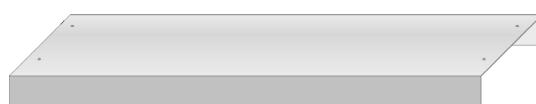
Metal plate floor with cable entrance in the back



Cable entrance

Floor

Metal plate floor with two cable entrances (at the front and in the rear).



Cable entrance

Floor

Cable entrance

As a standard we offer steel plate floor painted in RAL 7015, with a cable entrance in the back including the sliding element, enabling regulation of the entrance.



Catalogue number of the floor

Floor P			
Cable entrance	In the front F/	In the rear T/	Both sides D/
Regulated entrance R.	PR.F/	PR.T/	PR.D/
Not regulated entrance X.	PX.F/	PX.T/	PX.D/

Ordering example:

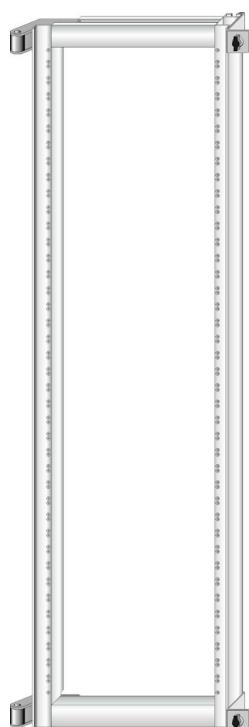
"Profil-L" K2220×800×800/S/RAL7035/DS.F.L/DM.T.L/S.L/S.P/S.G/PR.T/

stands for frame 2220mm high, 800mm wide, 800mm deep, adjusted for mounting of front and rear door, painted in RAL 7035. Front door with glass filling, hinges on the left-hand side, back door with metal filling, hinges on the left-hand side. Equipped with left- and right- side walls and a roof. Floor with a regulated cable entrance in the rear of the cabinet.

3.6 Swing frame

The 19" swing frame can be offered in two basic versions, and can be mounted at the front, in the rear or on both sides of the cubicle.

The 19" swing frame is made with aluminium profiles with steel reinforcements and hinges. The construction of the frame enables a significant load, and gives easy access to the back of the frame and to the interior of the cubicle. The frame is equipped with a ride-up roller facilitating locking the frame and decreasing load for the hinges when it is closed. It is used mainly for mounting of protection and auxiliary relays in racks, or control panels. The frame has inserted screwed rivets located for mounting of the EURO chassis', or accordingly to arrangement. In a typical cubicle sized 800mm width a 19" frame a diagonal hinges are used. In a cubicle sized 750mm width a 19" frame with straight hinges are used. Such frames can be used in 800mm-wide cabinets as well, in order to mount devices deeper than 360mm, what would prevent the frame with diagonal hinge from opening.

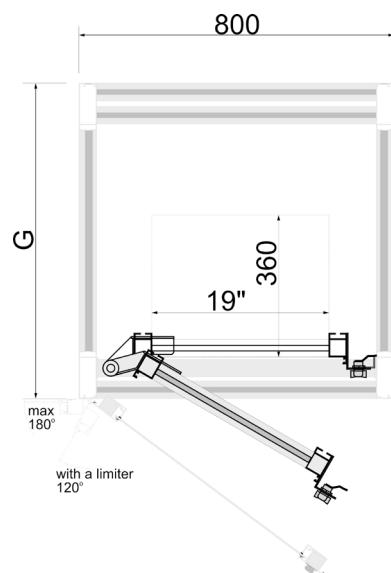


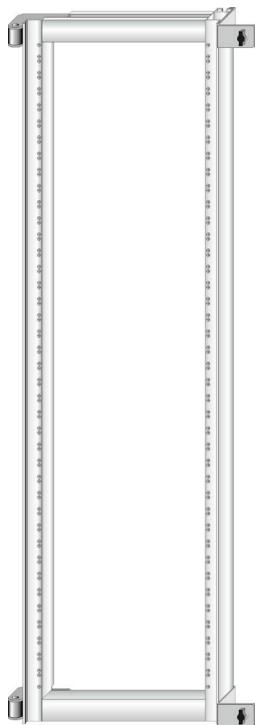
A 19" frame with a diagonal hinge.

Dimensions of the frame:

- Internal width 19", possible to be mounted in cabinets 800 mm wide.
- Maximal internal height is 260 mm less than height of the cubicle.

Maximal load of the frame is 130 kg.



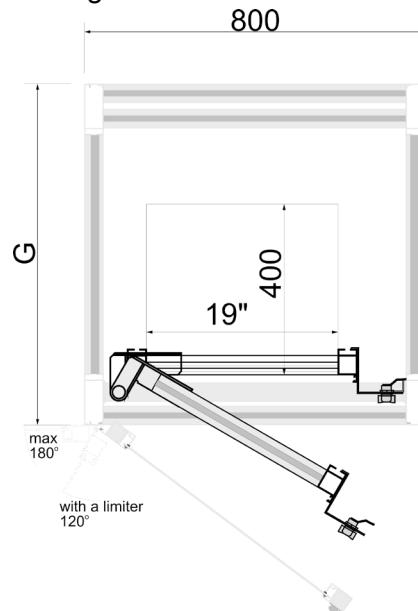


A 19" frame with a straight hinge

Dimensions of the frame:

- Internal width 19", possible to be mounted in cabinets
750 mm ÷ 800 mm wide
- Maximal internal height is 260 mm less than height of the cubicle

Maximal load of the frame is 130 kg.



As a standard we offer the internal dimensions of the frame of::

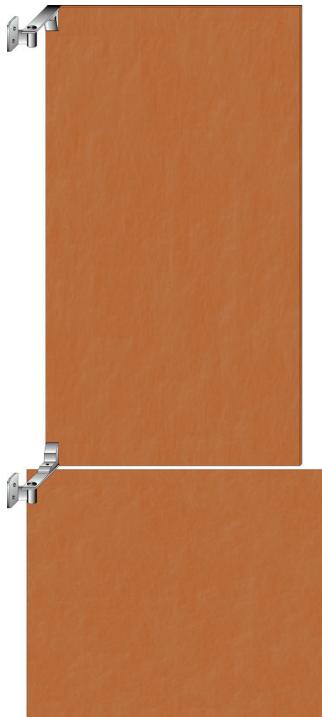
- 1790 × 450 mm (40U/19") for cabinet 2050×800 (H×W) – diagonal hinge.
- 1790 × 450 mm (40U/19") for cabinet 2050×750 (H×W) – straight hinge.
- 1960 × 450 mm(44U/19") for cabinet 2220×800 (H×W) – diagonal hinge.
- 1960 × 450 mm(44U/19") for cabinet 2220×800 (H×W) – straight hinge.

Maximal load of the frame is 130 kg.



Customized frame for measuring equipment – made with painted steel profiles, and textolite plates 5 mm thick. The frame is used for mounting of energy meters, hubs or any other devices prepared for plate mounting.

Customized frame for meters

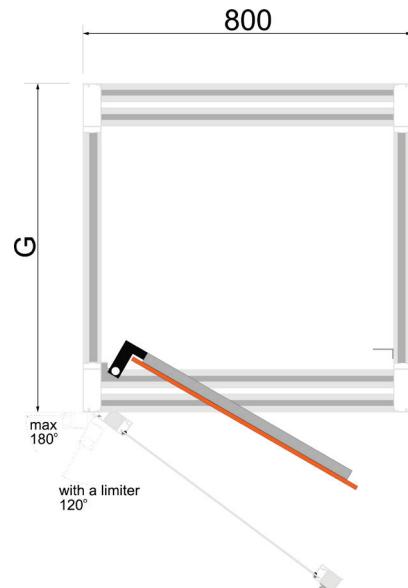


Dimensions of the frame for cabinet 2050mm high, and 800 mm wide.

- Upper part - swing 1340mm (H) × 650mm (W)
- Bottom part - fixed 370mm (H) × 710mm (W)

Other dimensions of frames are possible.

Maximal load of the frame is 30 kg.



A frame made in a standard version has dimensions 1340 × 650 mm or other accordingly to order.

Maximal load of a frame is 30 kg.



Catalogue number of the swing frame:

SWING FRAME R				
	In the front F.		In the rear T.	
Side of the hinge:	Left L/	Right P/	Left L/	Right P/
Swing 19" diagonal hinge US.	RUS.F.L/	RUS.F.P/	RUS.T.L/	RUS.T.P/
Swing 19" straight hinge UP.	RUP.F.L/	RUP.F.P/	RUP.T.L/	RUP.T.P/
Customized for metres UL.	RUL.F.L/	RUL.F.P/	RUL.T.L/	RUL.T.P/

Ordering example:

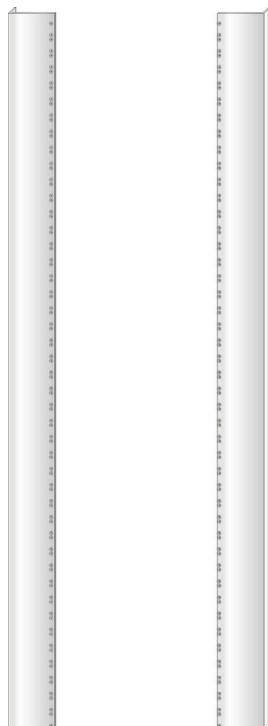
"Profil-L" K2220×800×800/S/RAL7035/DS.F.L/DM.T.L/S.L/S.P/S.G/PR.T/RUS.F.L/

stands for frame 2220mm high, 800mm wide, 800mm deep, adjusted for mounting of front and rear door, painted in RAL 7035. Front door with glass filling, hinges on the left-hand side, back door with metal filling, hinges on the left-hand side. Equipped with left- and right- side walls and a roof. Floor with a regulated cable entrance in the rear of the cabinet.

A 19" swing frame in the front of the cabinet, with diagonal hinges on the left-hand side.

3.7 Fixed frame

The fixed frame is made with aluminium profiles, and can be mounted at the front or in the rear or on both sides of the cubicle. It is an alternative for a swing frame in the front or a partition at the rear of the cubicle.

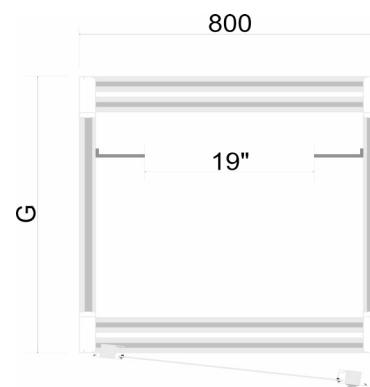


It enables mounting of devices in a 19" or 21" EURO-chassis.

The frame has inserted screwed rivets located for mounting of the EURO chassis, or accordingly to dimensions ordered.

Dimensions of the frame:

- Internal width 19", possible to be mounted in cabinets 600mm-800mm wide
- Internal width 21", possible to be mounted in cabinets 700mm-800mm wide
- Internal height can be 260mm less than height of the cubicle



As a standard we offer the internal dimensions of the frame of::

- $1980 \times 450\text{mm}$ (43U/19") for cabinet $2050 \times 800/750/600$ (H×W).
- $2150 \times 450\text{mm}$ (47U/19") for cabinet $2220 \times 800/750/600$ (H×W).
- $1980 \times 500\text{mm}$ (43U/21") for cabinet $2220 \times 800/750/600$ (H×W).
- $1960 \times 500\text{mm}$ (47U/21") for cabinet $2220 \times 800/750/600$ (H×W).



Catalogue number of the fixed frame:

FIXED FRAME R		
	In the front F/	In the rear T/
Fixed 19" ST19.	RST19.F/	RST19.T/
Fixed 21" ST21.	RST21.F/	RST21.T/

Ordering example:

"Profil-L" K2220x800x800/S/RAL7035/DS.F.L/DM.T.L/S.L/S.P/S.G/PR.T/RST19.F/

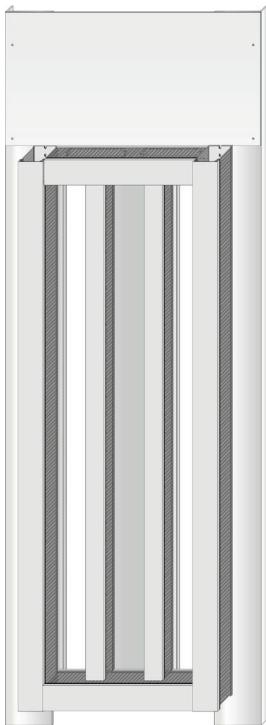
stands for frame 2220mm high, 800mm wide, 800mm deep, adjusted for mounting of front and rear door, painted in RAL 7035. Front door with glass filling, hinges on the left-hand side, back door with metal filling, hinges on the left-hand side. Equipped with left- and right- side walls and a roof. Floor with a regulated cable entrance in the rear of the cabinet.

A 19" fixed frame in the front of the cabinet.

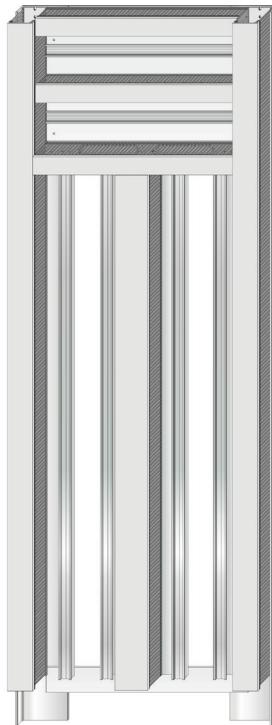
3.8 Fixed partitions

The cubicle can be equipped with a fixed partition, enabling mounting of terminal blocks, electric devices, or devices in chassis. A cabinet may contain one or two partitions, mounted in any place, accordingly to the clients order.

The partition is made in three basic versions:

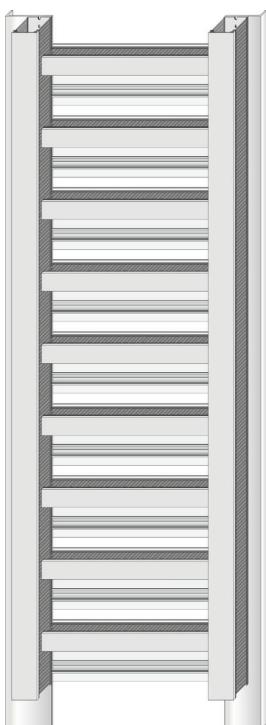
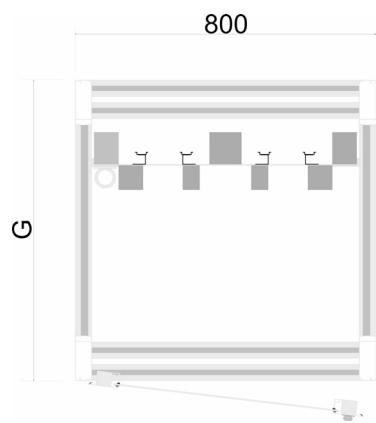


Interior of the cubicle



Back of the cubicle

Honeycombed partition with vertical bars for mounting plate-mounted or chassis-mounted electrical devices and four vertical terminal blocks. Made of aluminium and steel profiles. The surface for mounting the devices is made from anodized aluminium. Use of Honeycombed partition is reasonable only for free standing cubicles (with doors in the back).

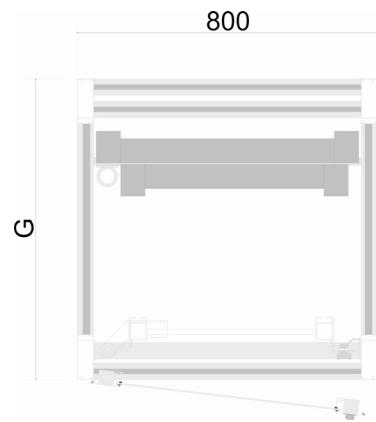


Interior of the cubicle

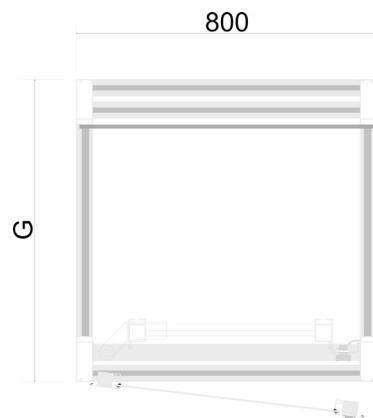


Back of the cubicle

Honeycombed partition with horizontal bars for mounting plate-mounted or chassis-mounted electrical devices and four horizontal terminal blocks. Made of aluminium profiles. The surface for mounting devices is made from anodized aluminium. Use of Honeycombed partition is reasonable only for free standing cubicles (with doors in the back).



A full, one-side plate for mounting plate-mounted electrical devices and terminal blocks is used in a wall standing cubicles. The partition is made of anodized aluminium, and used mainly in the rear of a wall standing cabinet.



The cable ducts well as TS-bars represent additional equipment and should be ordered separately. We are in position to mount cable ducts and TS-bars inside of the cabinet accordingly to clients individual needs. We are ready to give advice and professional help in planning the arrangement of devices as well as cable crossings inside of the cabinet.



Catalogue number of the fixed partition

FIXED PARTITION M		
	In the front of cabinet F/	In the rear of cabinet T/
Honeycombed partition with vertical bars AP.	MAP.F/	MAP.T/
Honeycombed partition with horizontal bars AW.	MAW.F/	MAW.T/
Full mounting plate PP.	MPP.F/	MPP.T/

Ordering example:

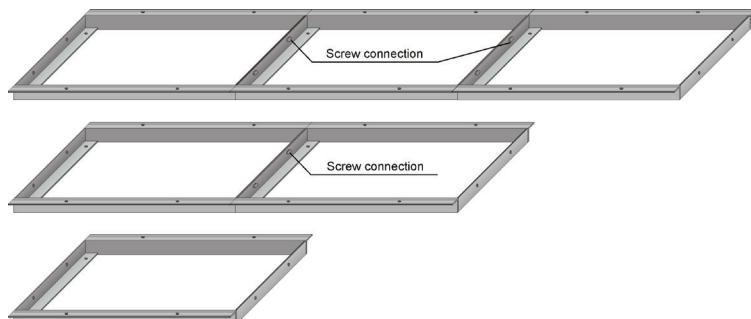
“Profil-L” K2220×800×800/S/RAL7035/DS.F.L/DM.T.L/S.L/S.P/S.G/PR.T/MAP.T/

stands for frame 2220mm high, 800mm wide, 800mm deep, adjusted for mounting of front and rear door, painted in RAL 7035. Front door with glass filling, hinges on the left-hand side, back door with metal filling, hinges on the left-hand side. Equipped with left- and right- side walls and a roof. Floor with a regulated cable entrance in the rear of the cabinet.

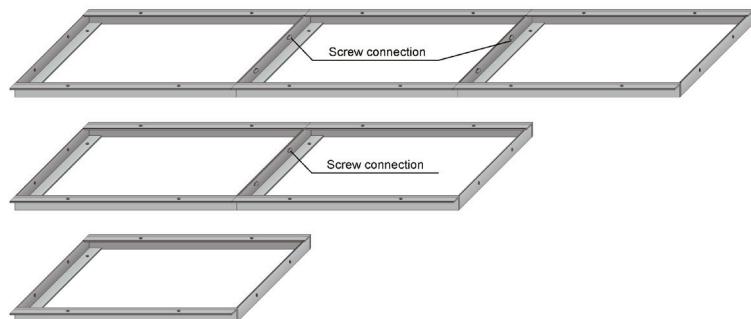
A fixed partition for mounting the terminal blocks horizontally in the rear of the cabinet.

3.9 The Plinth base

An additional element delivered on clients demand, is a plinth base facilitating anchoring the cubicle in a place of installation. The plinth is made in two versions: for a free-standing and a wall-standing cubicles. If the cabinets are to be lined-up it is possible to screw the plinths into multi-station sets.



Plinth base for free-standing cubicles



Plinth base for wall-standing cubicles

Catalogue number of the plinth base.

COKÓŁ C			
Single plinth for free-stand. cubicle W1/	CW/		Single plinth for wall-stand. cubicle P1/

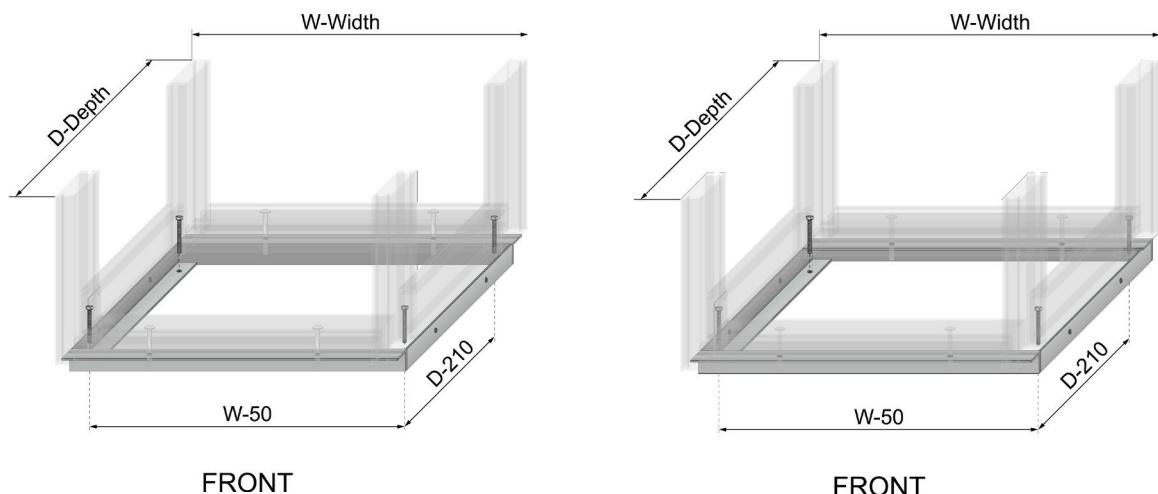
Ordering example:

"Profil-L" K2220×800×800/S/RAL7035/DS.F.L/DM.T.L/S.L/S.P/S.G/PR.T/MAP.T/CW1/

stands for frame 2220mm high, 800mm wide, 800mm deep, adjusted for mounting of front and rear door, painted in RAL 7035. Front door with glass filling, hinges on the left-hand side, back door with metal filling, hinges on the left-hand side. Equipped with left- and right- side walls and a roof. Floor with a regulated cable entrance in the rear of the cabinet. A fixed partition for mounting the terminal blocks horizontally in the rear of the cabinet.

Cubicle delivered along with a single plinth base for free-standing cubicle.

The below pictures present method of mounting the cubicle to the plinth base.



We can provide detailed pictures with dimensions of the plinth base and ways of anchoring the cubicle to the ground.



3.10 Additional equipment

Additionally, our cabinet may be equipped with:



A cooper rail earthing the cubicle



A cooper rail earthing the frame of a cubicle



A rail supporting mounting of the cables in the cable entrance

	• No. •	
•	DESCRIPTION	•
•		•

Labelling plates for the doors and cubicle
(can be engraved accordingly to clients demands)

Catalogue number of additional equipment:

ADDITIONAL EQUIPMENT E				
Earthing bar of the cubicle EUK/	EUK/			
Earthing bar of the swing frame. EUR/	EUR/			
Rail supporting cable mounting. EWK/	EWK/			
Labelling plates ETO/	ETO/			
Work light if the interior ELO/	ELO/			
Panel of 2 vents in the roof EPW/	EPW/			

Ordering example:

**"Profil-L" K2220x800x800/S/RAL7035/DS.F.L/DM.T.L/S.L/S.P/S.G/PR.T/MAP.T/CW1/CW1/EUK/EUR/
Ewk/ETO/**

stands for frame 2220mm high, 800mm wide, 800mm deep, adjusted for mounting of front and back door, painted in RAL 7035. Front door with glass filling, hinges on the left-hand side, back door with metal filling, hinges on the left-hand side. Equipped with left- and right- side walls and a roof. Floor with a regulated cable entrance in the rear of the cabinet. A fixed partition for mounting the terminal blocks horizontally in the rear of the cabinet. Cubicle delivered along with a single plinth base for free-standing cubicle.

Additionally equipped with: earthing bars of cubicle and the swing frame, a rail supporting mounting of the cables in the cable entrance, and a labelling plate.

4. Customized solutions

Apart from standard versions we can undertake to deliver custom cubicles, or equipped with special electrical devices.

Among the custom electrical equipment we can offer:

- Full wire tubing of the cubicle with high-end cable ducts
- A flexible hose for arrangement of wire between the swing frame and a fixed plate
- Inserting screw rivets in the partition
- Internal light of the cabinet
- Vents on the roof of the cabinet
- Installation of fuse carriers, sockets, auxiliary relays, and terminal blocks.

We can offer as well all internal electrical connections, using the accessories of reputable companies (Weidmüller, Phoenix, Wago, Tehalit)

5. Ordering

In order to facilitate placing an order for a cubicle you may use the "ORDERING FORMULAR" attached. It enables configuring the cabinet and easy defining the ordering number. In case of doubt or when ordering customized cabinets, please contact us by phone or in person.

The list of basic types of "Profil-L" cubicles prepared by us may be an additional facilitation for ordering. This allows a simple determination of the cabinet type, without need to fill the "ORDERING FORMULAR" or placing the ordering code. We have chosen basic dimensions and versions of cubicles as well as the additional equipment.

LIST OF BASIC TYPES OF „Profil-L“ CUBICLES				
Type	Size (H×W×D)	Cabinet	Front of the cubicle	Rear of the cubicle
111	2050×800×800	Free-standing	Swing frame 19" 40U	Honeycombed partition with vert. bars
112	2050×800×800	Free-standing	Swing frame 19" 40U	Honeycombed partition with hor. bars.
113	2050×800×800	Free-standing	Fixed frame 19" 43U	Fixed frame 19" 43U
124	2050×800×800	Wall-standing	Swing frame 19" 40U	Full mounting plate
324	2050×800×600	Wall-standing	Swing frame 19" 40U	Full mounting plate
411	2220×800×800	Free-standing	Swing frame 19" 44U	Honeycombed partition with vert. bars
412	2220×800×800	Free-standing	Swing frame 19" 44U	Honeycombed partition with hor. bars.
413	2220×800×800	Free-standing	Fixed frame 19" 47U	Fixed frame 19" 47U
424	2220×800×800	Wall-standing	Swing frame 19" 44U	Full mounting plate
624	2220×800×600	Wall-standing	Swing frame 19" 44U	Full mounting plate

Standard colour of the cabinet types above is RAL 7035, their equipment: front door with glass filling, and rear door with metal plate (for free-standing), with hinges on the left-hand side; the enforced swing frame used, with a diagonal hinge on the left-hand side; side and back walls (for wall-standing), the roof and floor with regulated cable entrance. All equipped with plinth base, earthing bar and a rail to support mounting of cables in the entrance.

ORDERING FORMULAR - page 1

ORDERING CARD OF THE PROFILE-L CUBICLE									
Client 0			Sign 0						
No. of Order: 0			Volume: 5 pcs.						
Construction of PROFIL-L K x x									
Dimensions			Type		Finish				
Height 0	mm/	600 to 2400	Free-standing	W/	Paint RAL 0				
Width 0	mm/	400 to 1200	Wall-standing	P/	7035				
Depth 0	mm/	240 to 1000			7032				
DOOR									
			In the front		In the rear				
Side of the hinges		Left	Right	Left	Right				
Glass		DS.F.L/	DS.F.P/	DS.T.L/	DS.T.P/				
Metal plate in the colour of construction		DM.F.L/	DM.F.P/	DM.T.L/	DM.T.P/				
Anodized aluminium plate		DA.F.L/	DA.F.P/	DA.T.L/	DA.T.P/				
WALLS									
	Left	S.L/	Back	S.T/	Top (roof)	S.G/			
	Right	S.P/							
FLOOR									
		Cable entrance	In the front	In the Rear	Both sides				
		Regulated entrance	PR.F/	PR.T/	PR.D/				
		Not regulated entrance	PX.F/	PX.T/	PX.D/				
SWING FRAME									
		Zawias ze strony	Left	Right	Left	Right			
		Swing 19" diagonal hinge	RUS.F.L/	RUS.F.P/	RUS.T.L/	RUS.T.P/			
		Swing 19" straight hinge	RUP.F.L/	RUP.F.P/	RUPT.L/	RUPT.P/			
		Customized for metres	RUL.F.L/	RUL.F.P/	RUL.T.L/	RUL.T.P/			
FIXED FRAME									
			In the front		In the rear				
		Fixed 19"	RST19.F/		RST19.T/				
		Fixed 21"	RST21.F/		RST21.T/				
FIXED PARTITION									
			In the front		In the rear				
		Honeycombed part. with vert. bars	MAP.F/		MAP.T/				
		Honeycombed part. with hor. bars	MAW.F/		MAW.T/				
		Full mounting plate	MPP.F/		MPP.T/				
PLINTH BASE									
			For a free standing cubicle		For a wall standing				
		Single plinth (for one cubicle)	CW/		CP/				
ADDITIONAL EQUIPMENT									
		Earthing bar of the cubicle	EUK/						
		Earthing bar of the swing frame	EUR/						
		Rail supporting cable mounting	EWK/						
		Labelling plates	ETO/						
		Work light of the interior	ELO/						
		Pannel of 2 vents in the roof	EPW/						
ADDITIONAL REMARKS									
Prepared by:				Tel.:					
Date:				e-mail:					

ORDERING FORMULAR - page 2

Attachment 1	Order No.
Small labelling Plate (on the construction) 35×80 mm	pcs.
Big labelling plate (no the door) 60×560 mm	pcs.

Pcs.

PROFIL-L



OFFER



RSH-3, RSH-3S - tripping
RS-6, RPD-2, RPP-4, RPP-6 - interposing
RMS-2 - signalling
RCW-3, RCDW-1 - circuit continuity monitoring
RKO-3 - power supply circuit continuity monitoring
RB-1, RBS-1, RBS-2 - bistable
RT-22 - time
RUT-2, RUT-3 - time-voltage
RJT-1, RJT-3 - time-current
RKU-1, RKS-1 - final controlling
LZ-1, LZ-2 - operation counters
RPZ-1 - supply source switching
GPS-1 - time synchronisation
MDD-6, MDS-12 - Diode modules
PH-XX, PS-XX - Modules of switches, pushbuttons and control lamps
Relay racks

Busbar protections and breaker failure protections type TSL-9r, TSL-11

Auxiliary and signalization relays

Reserve Central Signalling System type MSA-9, MSA-12, MSA-24

Protection relays type AZT-9, APP-9

Disturbance recorder RZS-9

Energy measurement system and event recorder ZRZ-28

Load Resistors for measuring transformers

DC and AC auxiliary power supply switchgears

Cubicle-contained sets of control and supervision protections

Modular power supplies, measuring suitcases, measuring and registering system RFQ-8

PROFIL-L cubicles

Periodical and post-failure tests, as well as repairs and overhauls of busbar protections TSL

Servicing, string-up and post assembly tests