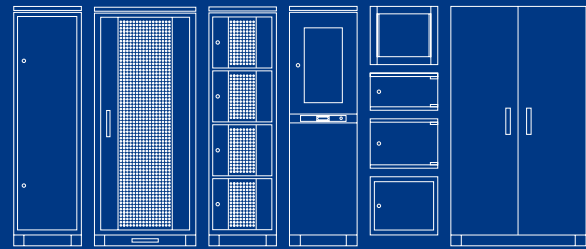
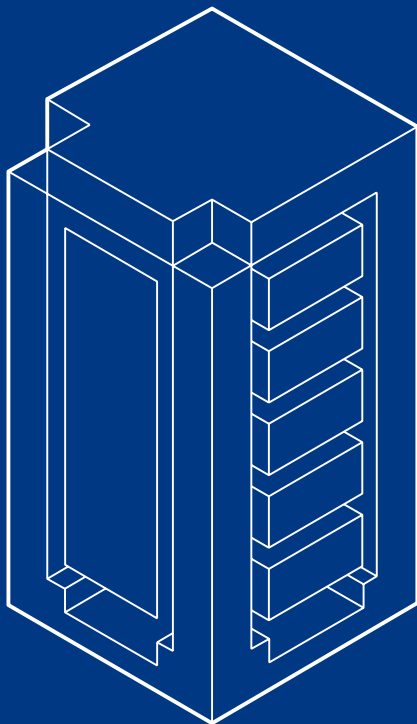


Data communication and industrial enclosures



ZPAS

G R O U P



ZPAS Group

The ZPAS Group, pursuing shared goals and business philosophy, integrates the product offer of ZPAS S.A. and ZPAS-NET sp. z o.o. The idea is reflected in our motto “solutions for connections”, which refers to advantages of our products, benefits of using them, a superb system of communication with our customers, partnership, technical consulting and high level of customer service, from the moment of first contact until order fulfilment. The motto thus reflects our attitude to clients whose requirements we wish to satisfy, offering them top-quality services.

We have achieved a strong status in the industry over 39 years of our business activity. As a manufacturer, we operate in accordance with our well-established reputation as a reliable business partner providing customers with topquality products, short lead times and very reasonable prices.

Electronic communication products (elements of IT, telecommunications and power systems) must demonstrate parameters and features capable of meeting rigorous high-tech requirements. Our primary goal is to supply such products.

Our capital is not limited to modern machines. We also boast of highly qualified staff. Our employees are young, creative and innovation-minded. They also make the best use of vast industry experience acquired over more than 30 years by specialists who have worked for our company ever since its beginnings. Advanced technologies and wellplanned organisation of all manufacturing processes are supported by INFOR ERP LN, our IT system.

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ZPAS S.A.

Floor-standing cabinets

Wall-mounted cabinets

DATA COMMUNICATION ENCLOSURES
 Supplementary accessories
 Open racks

STRUCTURED
 CABLING

Floor-standing cabinets

Supplementary accessories

INDUSTRIAL ENCLOSURES
 Wall-mounted cabinets

CONTROL
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ABOUT THE COMPANY

ZPAS S.A.

Since the very beginning of its business activity in 1973, ZPAS has produced a variety of industrial cabinets and enclosures. Initially, the Company operated as the Experimental Department of the Power System Automation Institute (IASI) in Wrocław, to become a part of the Research and Manufacturing Centre for Power System Automation (CNPAE). After 1989, the management of the Company undertook actions aimed at privatisation, which resulted in the establishment of a private joint-stock company at the end of 1991. In 2004, a part of the ZPAS S.A. business was spun off into ZPAS-NET, a daughter company which took over a section of the Company's production.

In June 2007, ZPAS S.A. put into operation a new manufacturing plant occupying an area of 10,000 m², located on the premises of the Nowa Ruda Industrial Park in Nowa Ruda-Słupiec. The plant, equipped with an automatic Salvagnini cutting and bending line for metal sheet processing and an automatic powder paint facility, focuses on large lot production. It also accommodates a finished goods warehouse.

Products manufactured by the ZPAS Group are mainly used as protection devices in advanced telecom, IT and electric power systems. Thanks to new technologies and design solutions, the Company has succeeded in developing a uniform and comprehensive product portfolio. ZPAS and ZPAS-NET products make it possible to join the previously separated groups of products in the IT, telecommunications and power industries.

Currently, the ZPAS Group markets a very broad range of equipment (mainly enclosures) designed for important functions in a variety of industries using electronic communication. Detailed information is available at www.zpas.pl.

Quality and the environment

The ZPAS Group holds the ISO 9001 Quality Assurance System Certificate and the ISO 14001 Environmental Management System certificate.



ABOUT THE COMPANY



ZPAS manufacturing plant in Przygórze



Bird's eye view of the manufacturing plant in Przygórze

Sales agencies

The Company has around a dozen sales agencies all over Poland. A detailed list is available on the Company's website.

ZPAS products are also sold abroad through a distribution network in: Austria, Belarus, Belgium, Bosnia and Herzegovina, Cyprus, Denmark, France, Germany, Great Britain, Greece, Hungary, Iceland, Italy, Kazakhstan, Kyrgyzstan, Latvia, Lithuania, Luxembourg, Malta, Morocco, the Netherlands, Norway, Portugal, Russia, Slovenia, Spain, Sweden, Switzerland and the Ukraine. Detailed information is available on request from the ZPAS Group Marketing Department.

ZPAS offers:

- 19" and 21" data communication enclosures (including server cabinets, telecommunications cabinets, EMC enclosures and others -- both in free-standing and wallmounted versions)
- empty power cabinets (without electrical devices)
- customised cabinets
- universal control desks
- products made of stainless acid-resistant steel

ZPAS-NET offers:

- structural cabling systems
- fibre optic distribution frames and accessories
- telecommunications accessories
- ZPAS Control Oversee telecom and IT systems
- DataCenter integration of equipment and systems
- aluminium outdoor telecom cabinets
- dispatch and control desks
- mimic boards
- prefabrication of power supply, protection, control and automatics cabinets

ABOUT THE COMPANY



Automatic sheet metal shearing machine

Production

At present, ZPAS S.A. has two manufacturing plants located in Przygórze and Nowa Ruda-Słupiec. The newer plant, located on the premises of the Nowa Ruda Industrial Park in Nowa Ruda-Słupiec, specialises in large lot production of standard items, while the plant in Przygórze focuses on manufacturing customised products, piece production and short-run production. Przygórze is also the main headquarters of ZPAS S.A. and the seat of the management of the ZPAS Group.



Laser shearing machine



Hall housing bending brakes

ABOUT THE COMPANY



ZPAS manufacturing plant in Nowa Ruda - Stupiec



Automatic cutting and bending line for metal sheet processing



Gasket casting machine



Assembly of data communication cabinets

REFERENCES



Collocation racks DSR installed in the internet server room by OVH in Paris (France)



Installation of servers in SZB cabinets in OVH's internet server room in Paris



SZB SE cabinets in the server room of the Wrocław University of Technology



Server room equipped with SZB SE cabinets. Installation was performed by MCP Ltd. from Kraków, Poland (<http://www.mcp.pl>)

REFERENCES



Main distribution room in the Stock Exchange Warsaw building. The whole system is designed and manufactured on the basis of SZB cabinets. Installation performed by ALMA S.A. from Poznań (Poland) - <http://www.alma.biz.pl>



SZB and SZB SE cabinets
Installed in server rooms
of TV Cyfrowy Polsat in Warsaw
(www.cyfrowypolsat.pl)



Stub-end station in the branch of Telefonía Polska - Zachód Sp. z o.o. in Stargard Szczeciński. Installation designed and manufactured using SZB cabinets, performed by VECTOR Sp. z o.o. from Gdynia (Poland) - <http://www.vector.com.pl>



SZB cabinets installed in the headquarters of BPT "TELBANK" S.A. in Warsaw (Poland)

In many places in Poland, it is possible to see enclosures produced by ZPAS S.A. with installed equipment and elements of structural cabling which are parts of data communication systems. There are placed in:

- Bank Spółdzielczy,
- Bank Zachodni,
- Stock Exchange in Warsaw,
- Lukas Bank,
- NASK Warsaw and Wrocław
- Politechnika Wrocławska (Technical University in Wrocław),
- Polish Olympic Committee in Warsaw,
- PKP (Polish Railways),
- Airport in Wrocław,
- PKO bank,
- PKN Orlen petrol stations,
- TVP (Polish TV),
- Cable TV,
- TV Polsat in Warsaw,
- TVN24 in Warsaw,
- ZUS (Polish social insurance company).

REFERENCES



Motorway toll gates delivered under a cooperation agreement to Ascom MultiToll Solutions SAS, France. The scope of delivery included the provision of enclosures together with electric system installation. The toll gates were put up at the motorway entry in the south of France.

GUARANTEE



ZPAS offers 5 years guarantee for its elements. Post-guarantee service is provided without a time limit.

FLOOR-STANDING CABINETS



SZB, OTS1



SZB PC



SZE2 PC



SZB SE



SZB SEI



DSR



SZU



SJB

SZB 19" CABINET

Standard universal data communication cabinet

- Designed for indoor applications.
- Offered in 40 size variations (see the chart on page 15), of which 11 variations are in constant sale from our warehouse.
- Individual configuration:
 - multiple door, panel, roof options for maximum flexibility,
 - possibility to join cabinets in a row,
 - levelling feet, castor or plinth options,
 - multiple alternative cable entry options (brush, foam),
 - 21" mounting profiles also possible (in 800 mm wide cabinets),
 - individual configuration using simple coding.
- Wide range of supplementary accessories: shelves, drawers, fan units, power strips, blanking plates etc.
- Flexibility in manufacturing tailor-made cabinets.

Scope of delivery

Cabinet in basic configuration*
(cat. no. WZ-SZB-xxx-17AA-11-0000-011):

- frame,
- safety glass front door,
- two side panels,
- steel rear door shortened with 3 U module panel with brush strip, lockable,
- standard roof, raised, with perforated sides,
- 2 pairs of 19" mounting profiles,
- earthing bar and cables,
- cabinet placed on levelling feet.

*) Other configurations - see page 15.

Technical data

Material:

Frame, side panels, solid steel door, roof, mounting profiles - sheet steel

Door with glass - sheet steel, acrylic glass

Glass door - mineral safety glass

Glass door with metal sides - mineral safety glass, sheet steel

Protection degree:

IP 20 in accordance with EN 60529

(does not apply to brush cable entries).

On request, IP 41 can be achieved.

Surface finishing:

Frame, roof, panels, doors, plinth - textured powder paint, light grey (RAL 7035). All other colour options on request.

Mounting profiles - Al-Zn coated.

Outriggers for 800 mm wide cabinets - galvanised.

Maximum load capacity: see chart on page 15



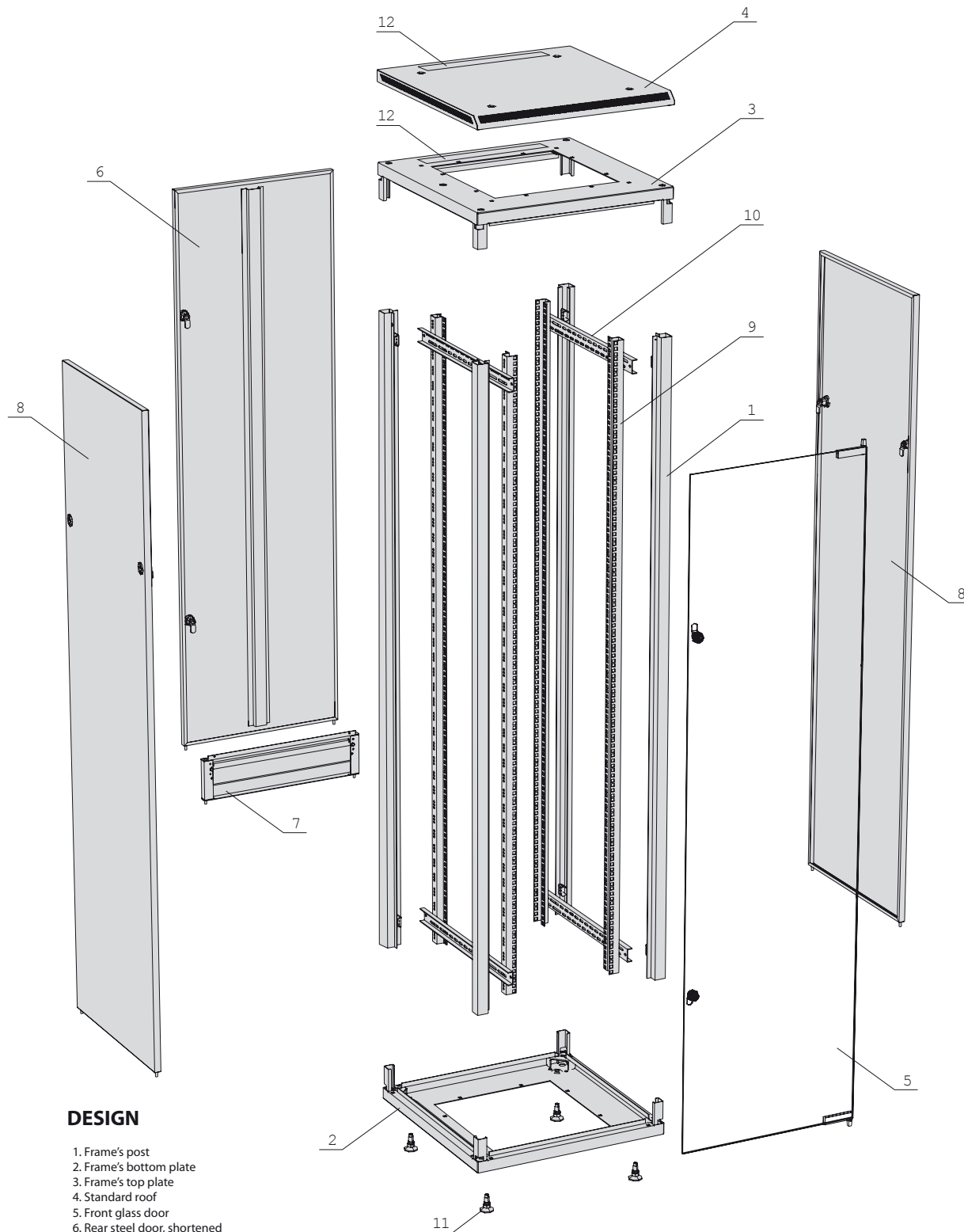
SZB cabinets in the basic configuration, 600 and 800 mm wide



SZB 19" CABINET

SZB cabinet 42 U, 600x600 mm in basic configuration

Other available configurations are presented on pages 15-18.

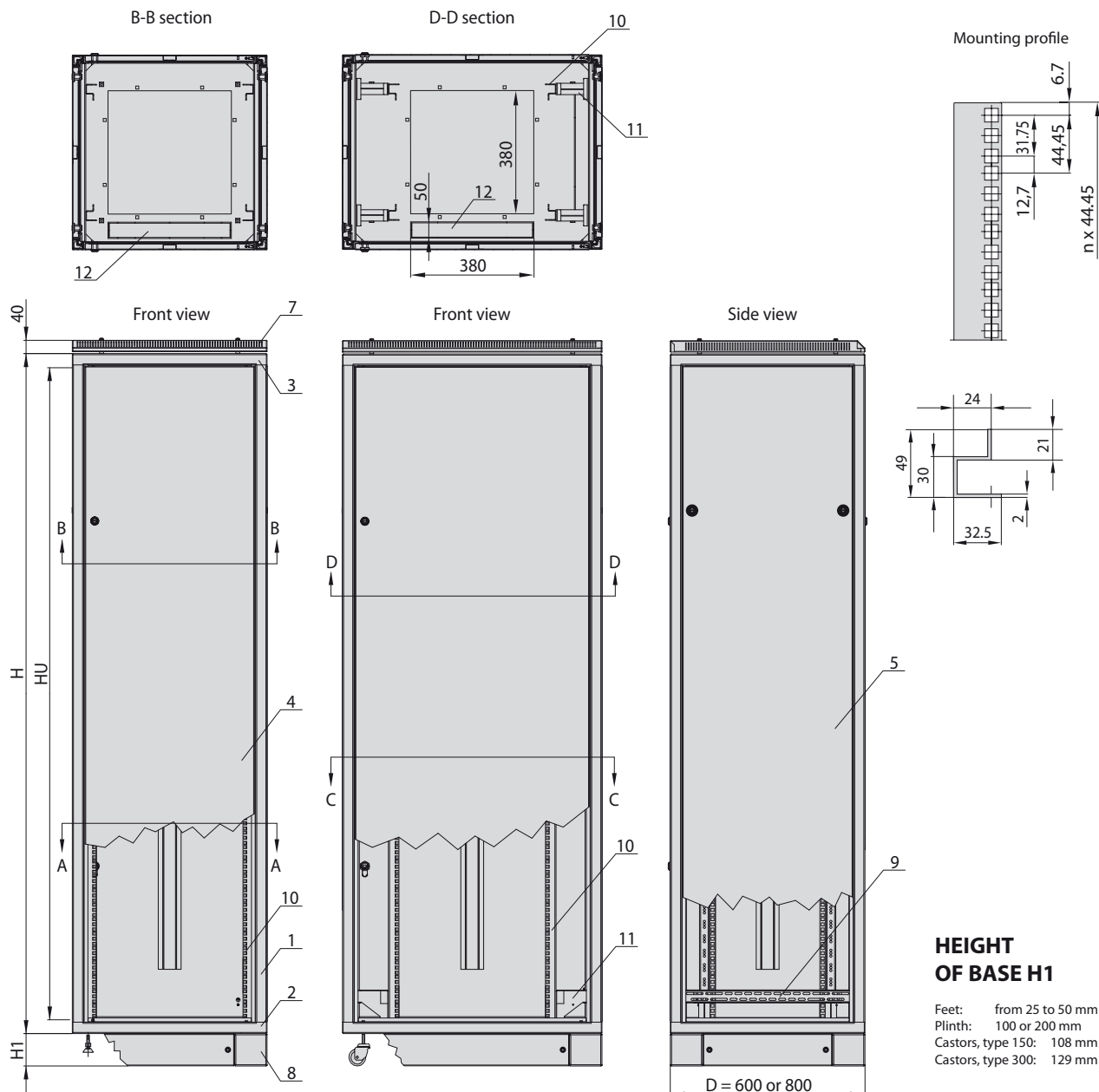


DESIGN

1. Frame's post
2. Frame's bottom plate
3. Frame's top plate
4. Standard roof
5. Front glass door
6. Rear steel door, shortened
7. 3 U module with brush strip
8. Steel side panel
9. Mounting profile
10. C-profile
11. Adjustable feet
12. Knock-out blanking plate



SZB 19" CABINET



DESIGN

1. Frame's post
2. Frame's bottom plate
3. Frame's top plate
4. Front door
5. Side panel
6. Rear door or panel
7. Roof
8. Base (plinth, adjustable feet or castors)
9. C-profile
10. Mounting profile
11. Outrigger
12. Knock-out blanking plate

Notes:
 Cable opening in the top plate of the cabinet is covered with a knock-out blanking plate (12).
 The same solution can be found in the roof of the cabinet (see the picture of a standard roof on page 18).
 Blanking plates for openings in the top and bottom plate - see pages 82-83.

Maximum door opening angle: 110°



SZB 19" CABINET

Reference chart

Total width W [mm]	Total depth D [mm]	Reference number									
		5	17	145	53	149	153	157	89	101	113
800	800	5	17	145	53	149	153	157	89	101	113
	600	6	18	146	54	150	154	158	90	102	114
600	800	9	21	147	57	151	155	159	93	105	117
	600	10	22	148	58	152	156	160	94	106	118
Usable height HU [U = 44.45 mm]		45 U	42 U	39 U	36 U	33 U	30 U	27 U	24 U	18 U	15 U
Frame height H [mm]		2096	1963	1830	1696	1563	1430	1296	1163	896	763

Note:

- Cabinet options in the red shaded fields are available in constant supply from ZPAS S.A.'s warehouse (this refers to cabinets with the following configuration: frame, four adjustable mounting profiles, two side panels, front glass door, lockable steel rear door shortened with 3 U module panel with brush strip, standard roof with perforation, four levelling feet, earthing bar and earthing cables for the doors and side panels - cat. no. WZ-SZB-xxx-17AA-11-0000-011).
- Lead time of other cabinets to be agreed upon with ZPAS Sales Department.

Catalogue number of SZB cabinet

Reference number specifies the cabinet's overall dimensions (see reference chart). Zeros should be added before single-digit or double-digit numbers.

Roof type:
 0 - without roof
 1 - standard roof
 2 - roof with extra perforation
 3 - tight roof IP 41
 4 - roof with opening for blanking/cable entry plate
 For a detailed description of roof types, go to pages 18 and 82.

WZ-SZB - XXX - XXXX - XX - XXXX - 011

Base type:
 0 - without any base (cabinet set directly on bottom plate)
 1 - levelling feet
 2 - castors - type 150 (see page 80)
 3 - castors - type 300 (see page 80)
 4 - plinth 100 mm
 5 - plinth 100 mm with levelling option
 6 - plinth 200 mm
 7 - plinth 200 mm with levelling option

Configuration of plinth's sides:
 Four digits which specify plinth side type.
 Four zeros (0000) should be entered for cabinet without any plinth.

Each side can be:

1 - solid		:	:
2 - with perforation		:	:
3 - with double perforation*		:	:
4 - with a brush opening		:	:
5 - with two brush openings		:	:
6 - with a brush opening and perforation*		:	:

*) Only for plinths 200 mm in height.
 For a detailed descriptions of plinths, see pages 78-79.

Door or panel type:
 0 - without door or without panel
 1 - glass door with single-point locks
 2 - solid steel door with single-point locks
 7 - solid steel, shortened door with single-point locks + 1 piece of 3 U module panel with brush strip, mounted under the shortened door
 G - steel door with glass and three-point rod-latch lock with swing handle*
 H - solid steel door with three-point rod-latch lock with swing handle*
 I - perforated steel door (type A) with single-point locks
 L - perforated steel door (type A) with three-point rod-latch lock with swing handle*
 P - perforated steel door (type C) with single-point locks**
 S - perforated steel door (type C) with three-point rod-latch lock with swing handle**
 Z - glass door with metal sides and three-point rod-latch lock with swing handle*
 A - solid steel panel with single-point locks
 U - perforated steel panel (type A) with single-point locks
 Y - perforated steel panel (type C) with single-point locks**

*) Only as a front or rear door for cabinets higher than 18 U.
 **) Only for 42 and 45 U cabinets.
Perforation types (A, C) - see page 17

NOTE:
 The delivery of a standard SZB cabinet (except for elements listed in cat. no.) includes the following: four mounting profiles, earthing bar and earthing cables for doors and panels.

Example:
 The cat. no. WZ-SZB-018-1AAA-14-2422-011 means SZB cabinet, usable height 42 U, width 800 mm, depth 600 mm. The cabinet is equipped with front glass door, two removable side panels and removable rear panel. The top is covered with the standard roof. Cabinet is situated on 100 mm plinth. Rear side of the plinth with brush opening for cable entry, all other sides are perforated. Doors, panels and roof are earthed. Cabinet interior is equipped with four mounting profiles installed to the frame by means of 8 outriggers.

Ordering instruction

1. When ordering the SZB cabinet, please provide the appropriate **catalogue number according to the above information**, which specifies the overall dimensions, type of doors, panels, roof and base.
2. The next step is to specify **catalogue numbers of supplementary accessories** (such as: shelves, blanking plates, power strips, fan units etc. - see pages 77-121). Supplementary accessories are delivered in separate packaging including fixing hardware. On request it is also possible to mount supplementary accessories in the cabinet.

Maximum load capacity for SZB cabinets

Base type	Maximum weight of equipment mounted in cabinet
levelling feet	1000 kg
castors - type 150	150 kg
castors - type 300	500 kg
plinth	1000 kg

FLOOR-STANDING CABINETS



EXAMPLES OF SZB CABINETS



Note: Symbols given in square parentheses [] refer to diagrams on page 15 - Door and panel types.

EXAMPLES OF SZB CABINETS



[P] Perforated steel door (type C) with single-point locks



[S] Perforated steel door (type C) with three-point rod-latch lock with swing handle



[7] Solid steel, shortened door with single-point locks + 1 piece of 3 U module panel with brush strip, mounted under the shortened door

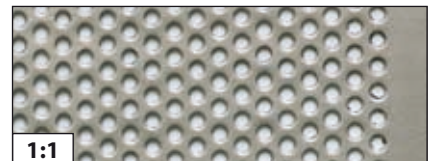


[Z] Glass door with metal sides and three-point rod-latch lock with swing handle



3 U module panel mounted in 600 mm wide cabinet

Perforation types for doors and panels



1:1

Perforation type A
clearance 30%



1:1

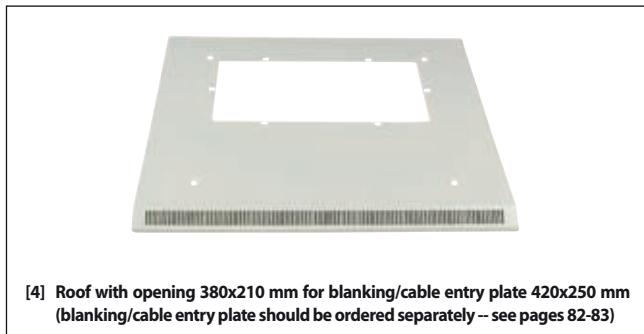
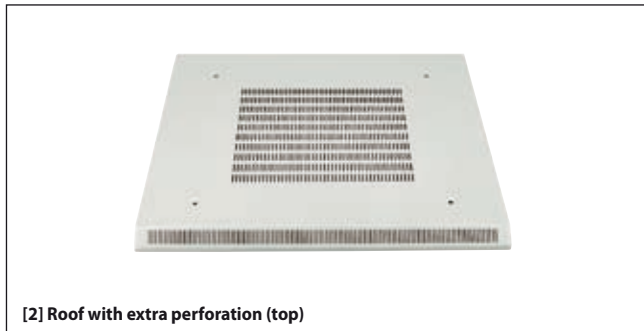
Perforation type C
clearance 80%

Note:

Symbols given in square parentheses [] refer to diagrams on page 15 - Door and panel types.



ROOF TYPES FOR SZB CABINETS



Note:

Numbers given in square parentheses [] refer to diagrams on page 15 – Roof types.

EXAMPLES OF NON-STANDARD SZB CABINETS



EXAMPLES OF NON-STANDARD SZB CABINETS



SZB cabinet 1000 mm wide, double-sectioned. Left section equipped with 19" mounting profiles. Right section with mounting angles in 300 mm spacing.



SZB cabinet 600 mm wide with double-wing door



Double-section SZB cabinet with air conditioner



OTS1 19" CABINET

Data communication cabinet for on-site assembly

- Designed for indoor applications.
- Offered in 10 different overall dimensions immediately available from the ZPAS warehouse.
- Delivered disassembled, assembly manual included.
- Quick configuration enhanced by easy coding system (see page 23).

Scope of delivery

- screwed frame (bottom plate, top plate, 4 posts, 4 C-profiles),
- glass front door or no door (dependant on configuration),
- 2 side panels or no side panels (dependant on configuration),
- steel rear, shortened door or no door (dependant on configuration),
- 3 U module panel with a brush strip, for assembly under or above the shortened rear door (only where rear door included),
- standard roof (with cable opening in the rear , the opening covered with a knock-out blanking plate),
- 2 pairs of mounting profiles in 19" spacing,
- 8 outriggers for mounting profiles fixing (only in 800 mm wide cabinets),
- earthing bar,
- earthing cables for the rear door and side panels (dependant on configuration),
- 4 levelling feet,
- assembly manual,
- cardboard packaging.

Technical data

Material:

Frame, side panels, steel door, roof, mounting profiles - sheet steel
Glass door - safety glass

SProtection degree:

IP 20 in accordance with EN 60529
(does not apply to brush cable entry).

Surface finishing:

Frame, roof, side panels, rear door - textured powder paint, light grey (RAL 7035). All other colour options on request.

Mounting profiles - Al-Zn coated.

Outriggers for 800 mm wide cabinets - galvanised.

Maximum load capacity:

see chart on page 23



Cabinet OTS1 42 U, 800 x 800 mm



OTS1 19" CABINET

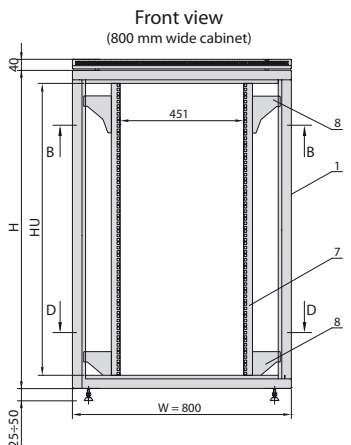
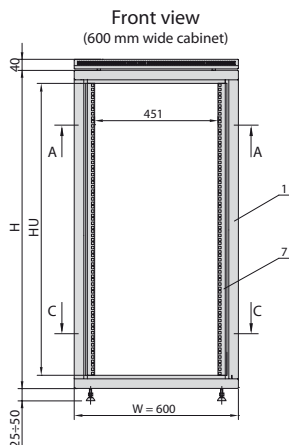
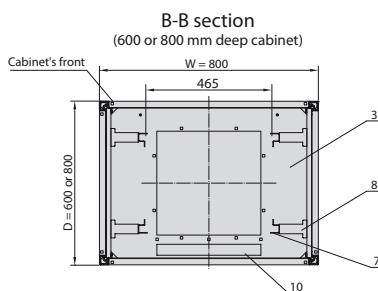
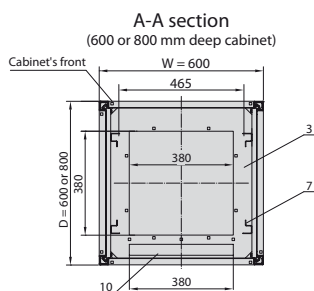
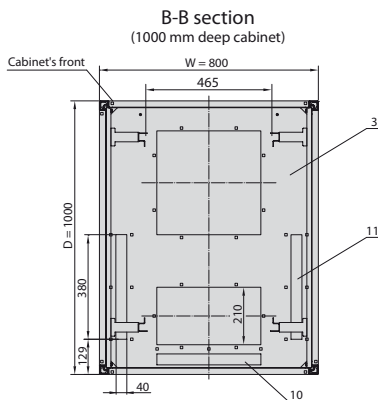
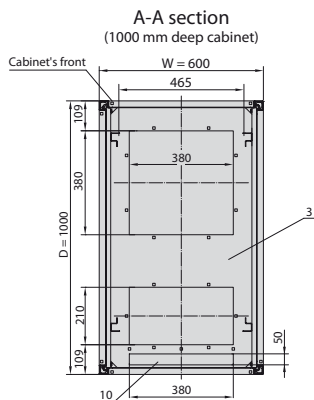


Cabinet OTS1 24 U, 600 x 800 mm



OTS1 19" CABINET

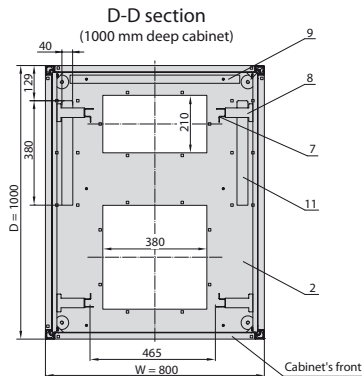
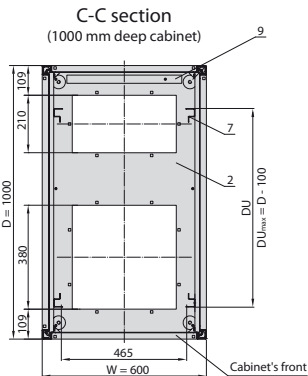
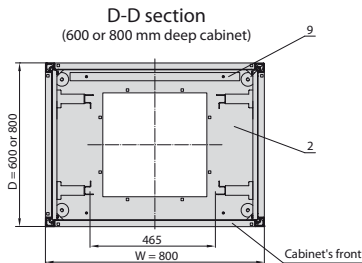
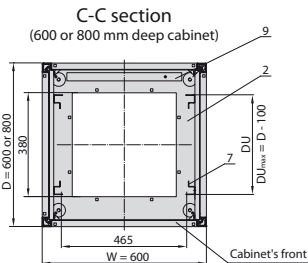
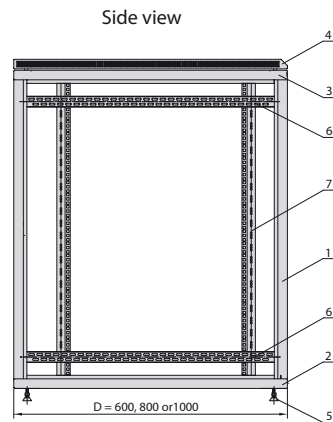
FLOOR-STANDING CABINETS



DESIGN

1. Frame's post
2. Frame's bottom plate
3. Frame's top plate
4. Roof
5. Adjustable feet
6. C-profile
7. Mounting profile
8. Outrigger
9. Earthing strip
10. Knock-out rear blanking plate
11. Knock-out side blanking plate

Note:
The cabinet in the drawing is shown without any panels or doors.

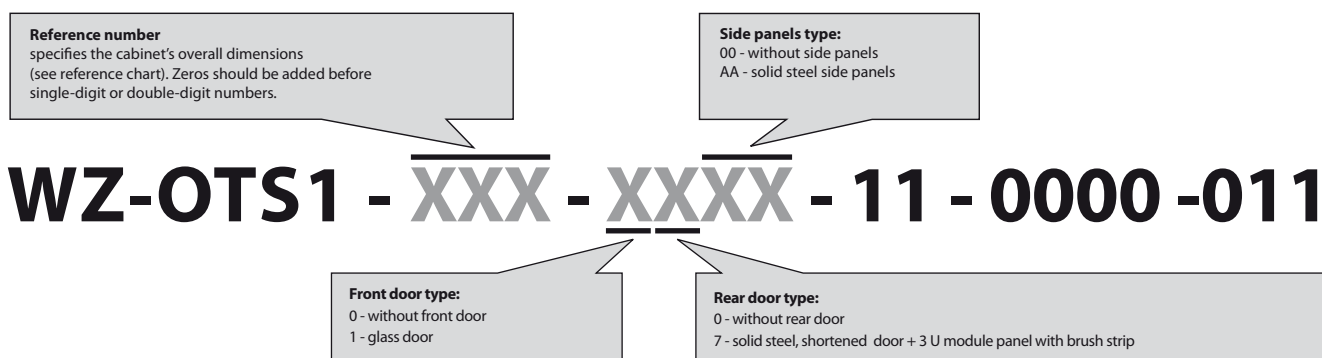


OTS1 19" CABINET

Reference chart

Total width W [mm]	Total depth D [mm]	Reference number	
800	1000	7	31
	800	8	-
	600	9	-
600	1000	10	34
	800	11	35
	600	12	36
Usable height HU [U = 44.45 mm]		42 U	24 U
Frame height H [mm]		1963	1163

Catalogue number of OTS1 cabinet



Ordering instruction

- When ordering the OTS1 cabinet, please provide the appropriate **catalogue number according to the above information**.
- The next step is to specify catalogue numbers of supplementary accessories (such as: plinth, castors, shelves, blanking plates, power strips, fan units etc.). Supplementary accessories are delivered in separate packaging including fixing hardware.

Maximum load capacity for OTS1 cabinets

Base type	Maximum weight of equipment mounted in cabinet
levelling feet	1000 kg
castors - type 150*	150 kg
castors - type 300*	500 kg
plinth*	1000 kg

*) Supplementary accessories

DOORS AND SIDE PANELS FOR OTS1, SZB, SZB SE, SZB SEI CABINETS

Since the OTS1 cabinets are sold unassembled, and their individual parts are packed in separate cartons, it is possible to place separate orders for doors and side panels only. These elements also fit in cabinets SZB, SZB SE and SZB SEI of appropriate dimensions.

Reference chart

For cabinet		Catalogue number		
Height [U = 44.45 mm]	Width / Depth [mm]	Glass door	Solid steel, shortened door + 3 U module panel with brush strip	Steel side panels (2 pieces)
42 U	1000	—	—	WZ-3503-11-07-011-2SZT
	800	WZ-SB02-00-02-000	WZ-3503-09-04-011-3U	WZ-3503-11-08-011-2SZT
	600	WZ-SB02-00-14-000	WZ-3503-09-27-011-3U	WZ-3503-11-09-011-2SZT
24 U	1000	—	—	WZ-3503-11-67-011-2SZT
	800	WZ-SB02-00-08-000	WZ-3503-09-19-011-3U	WZ-3503-11-68-011-2SZT
	600	WZ-SB02-00-20-000	WZ-3503-09-42-011-3U	WZ-3503-11-69-011-2SZT

Other doors - see page 39



SZB PC 19" COMPUTER CABINET

Designed for computer equipment protection

- Designed for indoor applications.
- The design enables selective admission of access to each section of the cabinet through the use of locks with different cylinders.
- Wide range of supplementary accessories: keyboards, shelves, drawers, fan units, power strips, blanking plates etc.
- Optional cable entries.
- Easy coding system enables quick configuration (see page 26).
- Non-standard versions on customer's request.

Scope of delivery

Standard configuration*

(cat.no. WZ-SZBPC-xxx-17AA-11-0000-4-011):

- frame with fixed universal keyboard drawer,
- two side panels,
- double front door: lower - solid, upper - with Plexiglas,
- steel rear door, shortened with 3 U module panel with brush strip,
- standard roof,
- 2 pairs of 19" mounting profiles,
- earthing bar and cables,
- set on levelling feet.

*) For other configurations see chart on page 26.



SZB PC cabinet 600 mm wide



Technical data

Material:

Frame, side panels, roof, solid door, mounting profiles
- sheet steel
Door with glass - sheet steel, mineral safety glass

Protection degree:

IP 20 in accordance with EN 60529
(does not apply to brush cable entries).

Surface finishing:

Frame, roof, panels, doors, plinth
- textured powder paint, light grey (RAL 7035).
All other colour options on request.

Mounting profiles - Al-Zn coated.

Outriggers - galvanised.

Maximum load capacity:

As given for SZB cabinets – see chart on page 15.



SZB PC 19" COMPUTER CABINET



SZB PC cabinet 800 mm wide with vertical masking panels, mounted on a plinth



SZB PC 19" COMPUTER CABINET

Reference chart

Total width W [mm]	Frame depth D [mm]	Reference number			
		1	5	9	13
800	800	1	5	9	13
	600	2	6	10	14
600	800	3	7	11	15
	600	4	8	12	16
Usable height HU [U = 44.45 mm]		45 U	42 U	39 U	36 U
Frame height H [mm]		2096	1963	1830	1696

Catalogue number of SZB PC cabinet

Reference number
specifies the cabinet's overall dimensions
(see reference chart). Zeros should be added
before single-digit or double-digit numbers.

front doors:
1 - upper: with a glass panel,
lower: solid
2 - upper and lower
with a glass panel

Roof type:
1 - standard roof
2 - roof with extra perforation
3 - tight roof IP 41
4 - roof with opening for blanking/cable entry plate
For a detailed description of roof types,
go to pages 18 and 82.

WZ-SZBPC - XXX - XXXX - XX - XXXX - X - 011

REAR

LEFT SIDE

RIGHT SIDE

Door or panel type:

- 0 - without door or without panel
- 1 - glass door
- 2 - steel door
- 3 - steel door with perforation
- 4 - steel door with Plexiglas
- 5 - steel door with Plexiglas and perforation
- 7 - steel door, shortened + 1 pc. of 3 U module panel with brush strip
- 9 - steel door, shortened + 2 pcs. of 3 U module panels with brush strip
- A - steel panel
- C - steel side panel, shortened + 1 pc. of 3 U module panel with brush strip
- E - steel side panel, shortened + 2 pcs. of 3 U module panels with brush strip

Base type:

- 0 - without any base (cabinet set directly on bottom plate)
- 1 - levelling feet
- 2 - castors - type 150 (see page 80)
- 3 - castors - type 300 (see page 80)
- 4 - plinth 100 mm
- 5 - plinth 100 mm with levelling option
- 6 - plinth 200 mm
- 7 - plinth 200 mm with levelling option

FRONT

REAR

LEFT SIDE

RIGHT SIDE

Configuration of plinth's sides:

Four digits which specify plinth's side type.
Four zeros (0000) should be entered for cabinet without a plinth.

Each side can be:

- 1 - solid
- 2 - with perforation
- 3 - with double perforation*
- 4 - with a brush opening
- 5 - with two brush openings
- 6 - with a brush opening and perforation*

*) Only for plinths 200 mm.

For a detailed descriptions of plinths, see pages 78-79.

Type of drawer and keyboard:

- 1 - drawer with touchpad keyboard
- 2 - drawer with trackball keyboard
- 3 - drawer with keyboard without pointing device
- 4 - universal drawer without keyboard

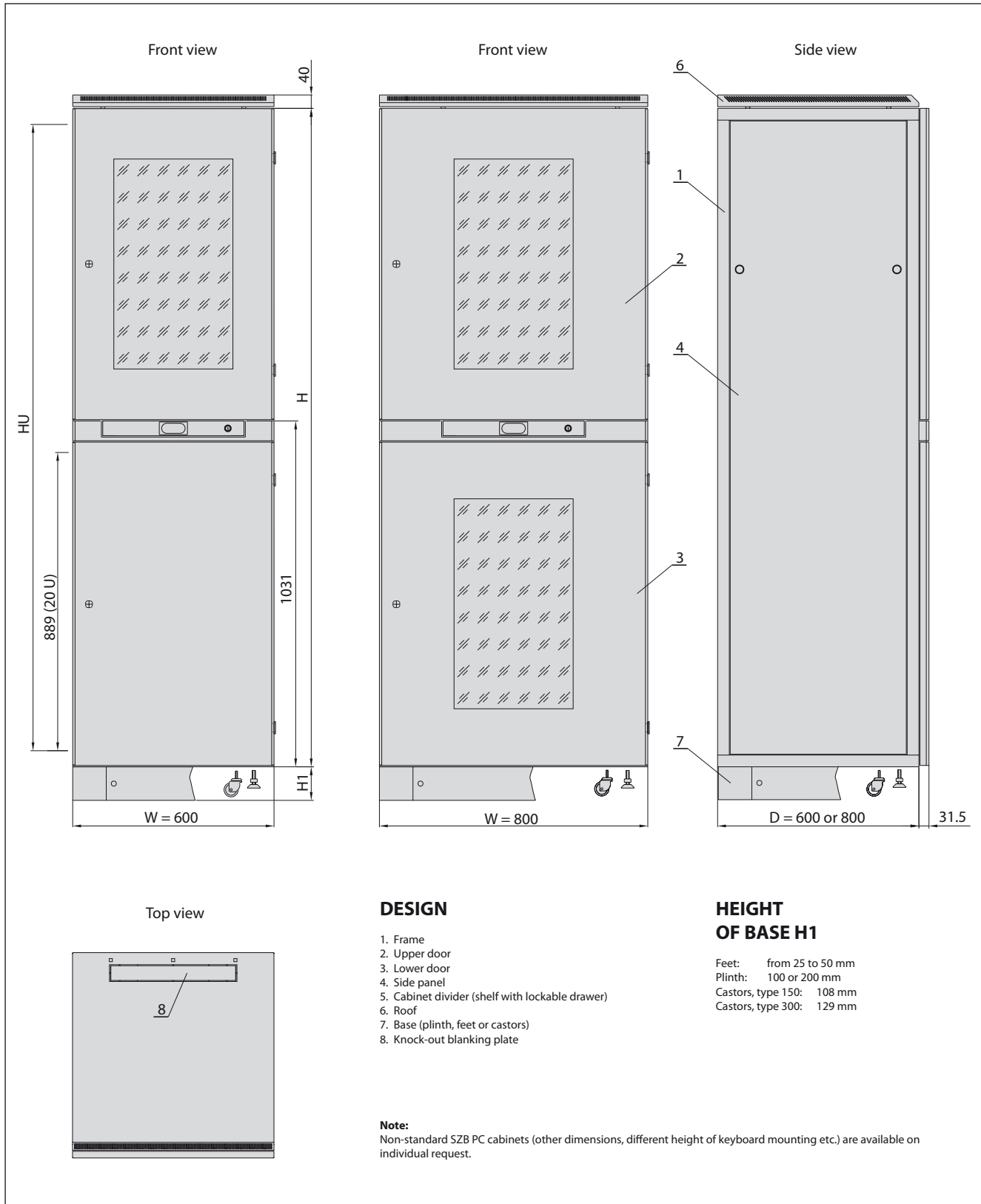
For detailed description of drawers and keyboards, see page 86.

Note:

- The delivery of a standard SZB PC cabinet (except for elements listed in cat. no.) includes the following: four mounting profiles, earthing bar and earthing cables for doors and panels.
- Monitor housing and other equipment shall be ordered separately.



SZB PC 19" COMPUTER CABINET



Ordering instruction

1. When ordering the SZB PC cabinet, please provide the appropriate **catalogue number according to the above information**, which specifies the overall dimensions, type of doors, panels, roof, base and the type of keyboard drawer.
2. The next step is to specify **catalogue numbers of supplementary accessories** (such as: shelves, blanking plates, power strips, fan units etc. - see pages 77-121). Supplementary accessories are delivered in separate packaging including fixing hardware. On request it is also possible to mount supplementary accessories in the cabinet.



SZE2 PC 19" COMPUTER CABINET - IP 54

Designed for computer equipment requiring antidust protection

- Designed for protection of computer equipment used in industrial areas.
- The design enables selective admission of access to each section of the cabinet through use of locks with different cylinders.
- Design based on modified frame of the SZE2 cabinet.
- Easy baying in rows with SZE2 and SZE2 PC cabinets
- Possibility of using supplementary accessories designed for SZE2 (page 154-177) and equipment for 19" installations.
- Possibility to manufacture cabinet frame, door, panels, supplementary roof and plinth of stainless sheet steel (on individual request).
- Non-standard versions on customer's request.

Scope of delivery

- frame set on 100 mm plinth,
- 2 pairs of 19" mounting profiles,
- 2 flushed side panels,
- double front door with 3-point (rod-lath) lock and patent cylinder (upper door with glass, lower door solid),
- door for keyboard part with one-point lock,
- rear panel,
- universal drawer for keyboard,
- solid blanking plate for top including sealing gasket,
- sliding gland plates for adjustable cable entry.

Technical data

Material:

Frame, side panels, solid steel door, plinth, mounting profiles - sheet steel
 Door with glass - sheet steel, acrylic glass

Protection degree:

IP 54 in accordance with EN 60529

Surface finishing:

Frame, door, panels, plinth
 - textured powder paint with thick structure, light grey (RAL 7035). All other colour options on request.

Mounting profiles – Al-Zn coated

Maximum load capacity:

The maximum weight of equipment mounted in SZE2 PC cabinets is 600 kg.



Roof - supplementary accessories (see page 156)



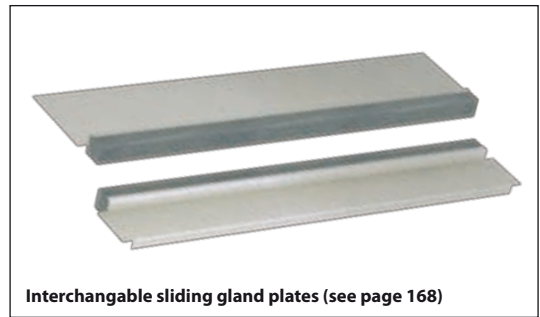
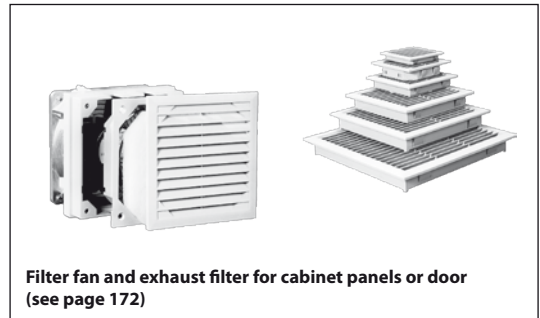
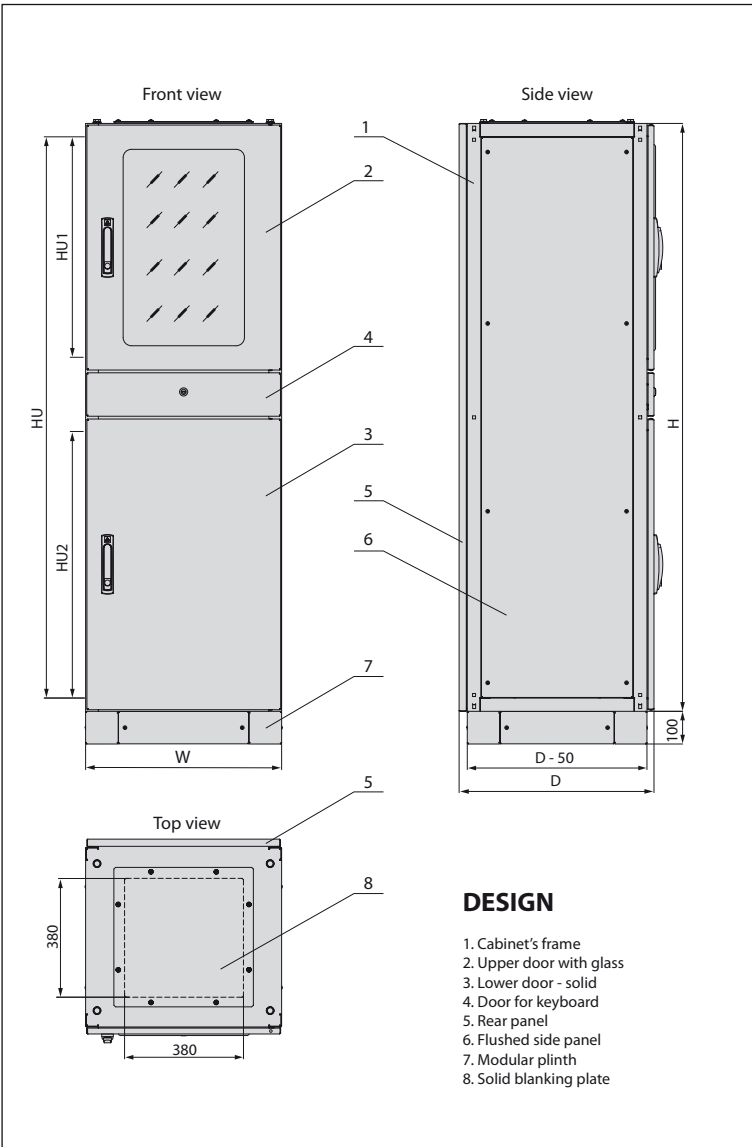
Reference chart

Width W [mm]	Depth D [mm]	Catalogue number		
		WZ-3004-00-06-011	WZ-3004-00-04-011	WZ-3004-00-02-011
600	600	WZ-3004-00-06-011	WZ-3004-00-04-011	WZ-3004-00-02-011
	800	WZ-3004-00-05-011	WZ-3004-00-03-011	WZ-3004-00-01-011
Usable height of cabinet HU [U=44,45 mm]	complete cabinet HU	33 U	38 U	42 U
	upper part HU1	10 U	15 U	19 U
	lower part HU2	18 U	18 U	18 U
Total height of cabinet without plinth H [mm]		1600	1800	2000



SZE2 PC 19" COMPUTER CABINET - IP 54

SZE2 PC cabinet equipped with keyboard housing. The housing insures IP 64 of the cabinet at open door of the keyboard part.



Note:
The opening in the bottom plate of the SZE2 PC cabinet is identical as in the SZE2 cabinet (see page 150).



SZB SE 19" SERVER CABINET

Offers protection of installed equipment in server rooms

- Offered in 28 different overall dimensions, including 6 types immediately available from the ZPAS S.A. warehouse.
- Expanded configuration system:
 - multiple door, panel, roof options for maximum flexibility,
 - possibility to join cabinets in a row,
 - possibility of optional cable entry,
 - easy coding system enables quick configuration of the cabinet.
- Possibility of controlling ventilating air flow by application of proper type of doors, side panels and fan units.
- Wide range of supplementary accessories: shelves, drawers, fan units, power strips, blanking plates etc.
- Non-standard cabinets are available on individual customer's request.

Scope of delivery

The cabinets immediately available from the manufacturer's warehouse – see page 31.

For other cabinet versions, see page 33.

Technical data

Material:

Sheet steel

Protection degree:

IP 20 in accordance with EN 60529
(does not apply to brush cable entries).

Surface finishing:

Frame, roof, panels, doors, plinth
- powder paint, light grey (RAL 7035) or black (RAL 9005).
All other colour options on request.
Mounting profiles - Al-Zn coated.
Outriggers - galvanised.

Maximum load capacity:

See chart on page 33.



Cabinet SZB SE 42 U, 600x1000 mm, colour: RAL 7035, set on levelling feet, door with perforation type C, two pairs of mounting profiles in 19" spacing
- cat. no. WZ-SZBSE-006-5711-11-0000-2-011



SZB SE 19" SERVER CABINET

Cabinets immediately available from the manufacturer's warehouse



Cabinet SZB SE 42 U, 800x1000 mm, colour: RAL 9005, set on levelling feet, door with perforation type C, two pairs of mounting profiles in 19" spacing
- cat. no. WZ-SZBSE-005-5711-11-0000-2-161

Reference chart

Height [U = 44.45 mm]	Width [mm]	Depth [mm]	Catalogue number	
			Cabinet finished in RAL 7035	Cabinet finished in RAL 9005
47 U	800	1000	WZ-SZBSE-001-5711-11-0000-2-011	WZ-SZBSE-001-5711-11-0000-2-161
	600	1000	WZ-SZBSE-002-5711-11-0000-2-011	WZ-SZBSE-002-5711-11-0000-2-161
45 U	800	1000	WZ-SZBSE-003-5711-11-0000-2-011	WZ-SZBSE-003-5711-11-0000-2-161
	600	1000	WZ-SZBSE-004-5711-11-0000-2-011	WZ-SZBSE-004-5711-11-0000-2-161
42 U	800	1000	WZ-SZBSE-005-5711-11-0000-2-011	WZ-SZBSE-005-5711-11-0000-2-161
	600	1000	WZ-SZBSE-006-5711-11-0000-2-011	WZ-SZBSE-006-5711-11-0000-2-161

Scope of delivery

- cabinet frame,
- perforated front and rear steel door (perforation type C - see page 32) with three-point rod-latch lock with swing handle,
- two side panels made of unperforated steel sheets,
- standard roof (with 1 or 3 cable openings covered with knock-out blanking plates):
600 mm cabinets – 1 opening, 800 mm cabinets – 3 openings; for details, go to page 82),
- three pairs of mounting profiles, spaced at 19",
- earthing strip and cables,
- levelling feet.

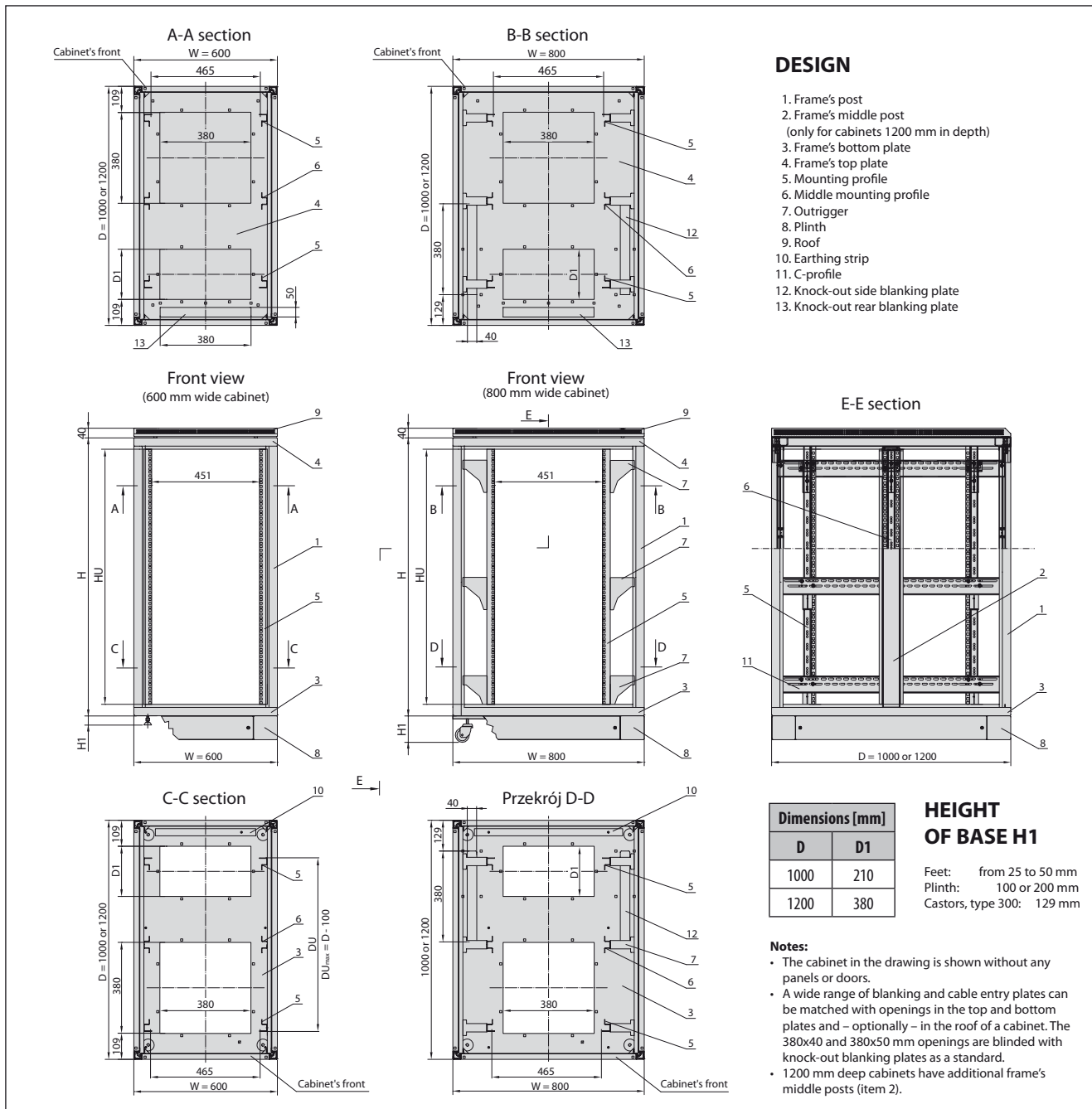
Note

The table above lists selected cabinet versions only, which are immediately available from the warehouse. When ordering cabinets with different overall dimensions or a different configuration of components (items available on demand), please use the coding system provided on page 33.



SZB SE 19" SERVER CABINET

FLOOR-STANDING CABINETS



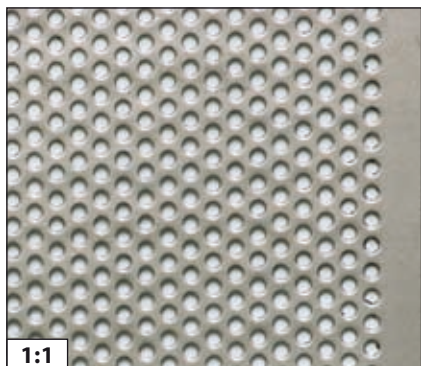
Dimensions [mm]	
D	D1
1000	210
1200	380

HEIGHT OF BASE H1

Feet: from 25 to 50 mm
 Plinth: 100 or 200 mm
 Castors, type 300: 129 mm

- Notes:**
- The cabinet in the drawing is shown without any panels or doors.
 - A wide range of blanking and cable entry plates can be matched with openings in the top and bottom plates and – optionally – in the roof of a cabinet. The 380x40 and 380x50 mm openings are blinded with knock-out blanking plates as a standard.
 - 1200 mm deep cabinets have additional frame's middle posts (item 2).

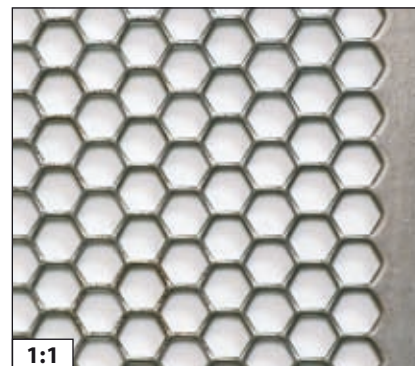
Perforation types for doors and panels



Perforation type A
clearance 30%



Perforation type B
clearance 69%



Perforation type C
clearance 80%



SZB SE 19" SERVER CABINET

Reference chart

Width W [mm]	Depth D [mm]	Reference number						
		1	3	5	7	9	11	13
800	1000	1	3	5	7	9	11	13
	1200	21	23	25	27	29	31	33
600	1000	2	4	6	8	10	12	14
	1200	22	24	26	28	30	32	34
Usable height HU [U = 44.45 mm]		47 U	45 U	42 U	39 U	36 U	33 U	24 U
Frame height H [mm]		2186	2096	1963	1830	1696	1563	1163

Note: Cabinet versions marked in red are immediately available from the manufacturer's warehouse – see page 31.

Catalogue number of SZB SE cabinet

Reference number specifies the cabinet's overall dimensions (see reference chart). Zeros shall be added before single-digit or double-digit numbers.

LEFT SIDE **RIGHT SIDE**

Side panel types:
 0 - without any panel
 1 - solid steel panel
 2 - perforated steel panel (fine perforation)

Roof types:
 1 - standard roof
 2 - roof with openings for blanking or cable entry plates

For a detailed description of roofs, see page 82.

Cabinet's colour:
 011 - RAL 7035
 161 - RAL 9005

WZ-SZBSE - XXX - XXXX - XX - XXXX - X - XXX

Front door types:
 0 - without door
 1 - solid steel door
 2 - steel door with perforation type A
 3 - glass door
 4 - glass door with perforated metal sides, rod-lath lock and swing handle
 5 - steel door with perforation type C, equipped with rod-lath lock and swing handle (the door is available only for the following cabinets: 42, 45 and 47 U)
 6 - steel door with perforation type B, equipped with rod-lath lock and swing handle

Base types:
 0 - without any base
 1 - levelling feet
 2 - castors - type 300 (see page 80)
 3 - plinth, 100 mm high
 4 - plinth, 200 mm high

FRONT **REAR** **LEFT SIDE** **RIGHT SIDE**

Configuration of plinth sides
 Four digits which specify plinth side type.
 Four zeros (0000) should be entered for cabinets without a plinth.

Each side can be:

1 - solid	.....	.....	.....
2 - with perforation	.....	.....	.....
3 - with double perforation*	.....	.....	.....
4 - with a brush opening	.....	.....	.....
5 - with two brush openings*	.....	.....	.....
6 - with a brush opening and perforation*	.....	.....	.....
7 - with a pull out stabiliser**	.....	.....	.....

*) Only for plinths 200 mm in height
 **) Only as a front side for 100 mm plinths

For a detailed description of plinths, see pages 78-79.

Layout of mounting profiles or mounting angles inside the cabinet:
 1 - two pairs of 19" mounting profiles and one pair of middle mounting profiles
 2 - two pairs of 19" mounting profiles
 3 - two pairs of 19" mounting angles

*) 3 U module panel with a brush strip

NOTES:

- The delivery of standard SZB SE cabinets (except for elements listed in the catalogue no.) includes an earthing strip and earthing cables for doors and side panels.
- Blanking and cable entry plates for the top plate, bottom plate and roof, as well as other elements of supplementary accessories, must be ordered separately.

Instructions for ordering SZB SE 19" cabinets

- When ordering a SZB SE cabinet, please provide the appropriate **catalogue number according to the above system** which specifies overall dimensions of the cabinet, types of doors, panels, roof and base, the layout of mounting profiles or angles, and the colour.
- The next step is to specify **catalogue numbers of supplementary accessories** (such as shelves, blanking plates, power strips, fan units etc. – see pages 77-121). Supplementary accessories are delivered in separate packaging together with fixing hardware.

Maximum load capacity for SZB SE cabinets

Base type	Maximum weight of equipment mounted in cabinet
levelling feet	1360 kg*
castors - type 300	500 kg
plinth	1360 kg*

*) For loads between 1000 - 1360 kg, the cabinet bottom plate should be fitted with additional reinforcement at levelling feet - see page 81



EXAMPLES OF SZB SE CABINETS

FLOOR-STANDING CABINETS



Cabinets with door and panels with perforation type A

EXAMPLES OF SZB SE CABINETS



SZB SEI 19" SERVER CABINET

Server cabinet for on-site assembly

- Designed for indoor applications.
- Offered in 4 different overall dimensions immediately available from the ZPAS warehouse.
- Delivered disassembled, assembly manual included.
- Quick configuration enhanced by easy coding system (see page 39).

Scope of delivery

- screwed frame (bottom plate, top plate, 4 posts, C-profiles for mounting profiles fixing; cabinet 24 U supplied with four pieces of C-profiles, cabinet 42 U supplied with six pieces of C-profiles),
- front steel door with perforation type B (see page 38) or no front door (dependant on configuration),
- 2 solid steel side panels or no side panels (dependant on configuration),
- rear steel door with perforation type B (see page 38) or no front door (dependant on configuration),
- standard roof (with 1 or 3 cable openings, the openings covered with a knock-out blanking plate),
- 2 pairs of mounting profiles in 19" spacing,
- 8 or 12 outriggers for mounting profiles fixing (only in 800 mm wide cabinets),
- earthing bar,
- earthing cables for the door and side panels (dependant on configuration),
- 4 levelling feet,
- assembly manual,
- cardboard packaging.

Technical data

Material:

Sheet steel

Protection degree:

IP 20 in accordance with EN 60529

Surface finishing:

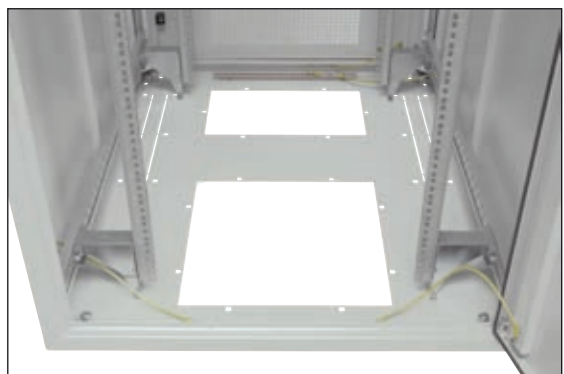
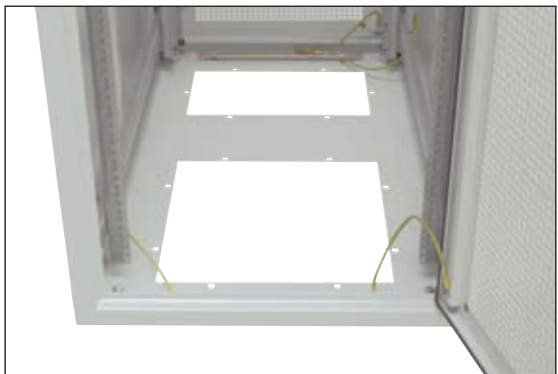
Frame, roof, side panels, door - powder paint, light grey (RAL 7035) or black (RAL 9005). All other colour options on request.
 Mounting profiles - Al-Zn coated.
 Outriggers for 800 mm wide cabinets - galvanised.

Maximum load capacity:

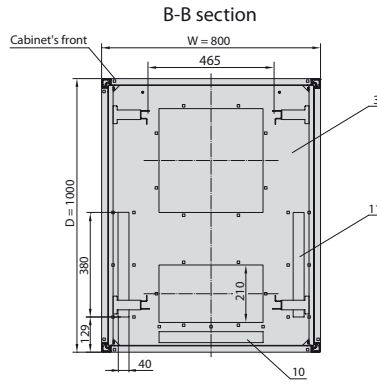
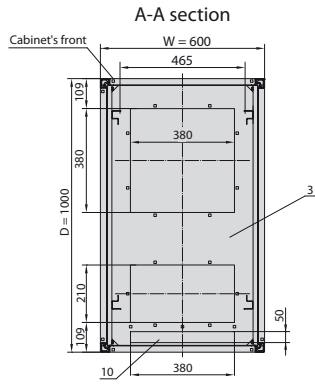
see chart on page 39



SZB SEI 19" SERVER CABINET



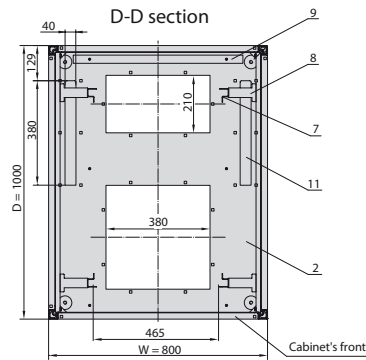
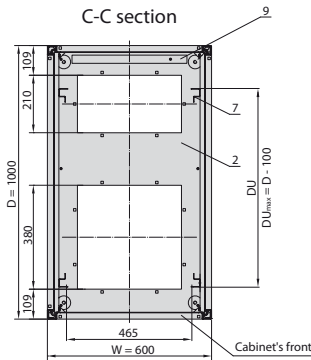
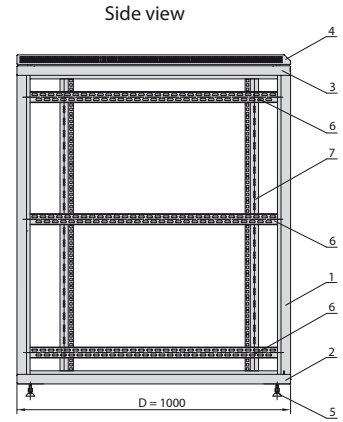
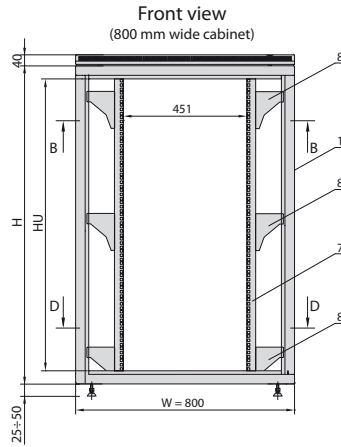
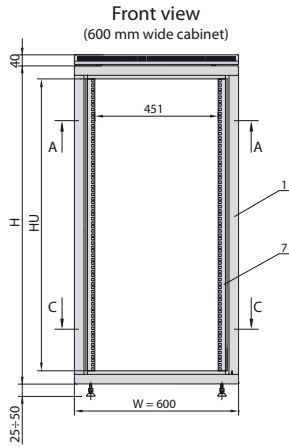
SZB SEI 19" SERVER CABINET



DESIGN

1. Frame's post
2. Frame's bottom plate
3. Frame's top plate
4. Roof
5. Adjustable feet
6. C-profile
7. Mounting profile
8. Outrigger
9. Earthing strip
10. Knock-out rear blanking plate
11. Knock-out side blanking plate

Note:
The cabinet in the drawing is shown without any panels or doors.



Perforation used in the doors



1:1



Perforation type B
clearance 69%

SZB SEI 19" SERVER CABINET

Reference chart

Total width W [mm]	Total depth D [mm]	Reference number	
800	1000	5	13
600	1000	6	14
Usable height HU [U = 44.45 mm]		42 U	24 U
Frame height H [mm]		1963	1163

Catalogue number of SZB SEI cabinet

Reference number
specifies the cabinet's overall dimensions
(see reference chart). Zeros should be added before
single-digit or double-digit numbers.

Side panels type:
00 - without side panels
AA - solid steel side panels
with single-point locks

Cabinet's colour:
011 - RAL 7035
161 - RAL 9005

WZ-SZBSEI - XXX - XXXX - 11 - 0000 - 2 - XXX

Front door type:
0 - without front door
6 - perforated steel door (type B) with three-point rod-latch lock with swing handle

Rear door type:
0 - without rear door
1 - perforated steel door (type B) with three-point rod-latch lock with swing handle

Ordering instruction

- When ordering the SZB SEI cabinet, please provide the appropriate **catalogue number according to the above information**.
- The next step is to specify catalogue numbers of supplementary accessories (such as: plinth, castors, middle mounting profiles, shelves, blanking plates, power strips, fan units etc.). Supplementary accessories are delivered in separate packaging including fixing hardware.

Maximum load capacity for SZB SEI cabinets

Base type	Maximum weight of equipment mounted in cabinet
levelling feet	1000 kg
castors - type 150*	150 kg
castors - type 300*	500 kg
plinth*	1000 kg

*) Supplementary accessories

DOORS AND SIDE PANELS FOR SZB SEI, SZB SE, OTS1, SZB CABINETS

Since the SZB SEI cabinets are sold unassembled, and their individual parts are packed in separate cartons, it is possible to place separate orders for doors and side panels only. These elements also fit in cabinets SZB SE, OTS1 and SZB of appropriate dimensions.

Reference chart

For cabinet		Catalogue number			
Height [U = 44.45 mm]	Width / Depth [mm]	Perforated steel door (type B) with three-point rod-latch lock with swing handle		Steel side panels (2 pieces)	
		RAL 7035	RAL 9005	RAL 7035	RAL 9005
42 U	1000	—	—	WZ-3503-11-07-011-2S2T	WZ-3503-11-07-161-2S2T
	800	WZ-5205-82-05-011	WZ-5205-82-05-161	—	—
	600	WZ-5205-82-06-011	WZ-5205-82-06-161	—	—
24 U	1000	—	—	WZ-3503-11-67-011-2S2T	WZ-3503-11-67-161-2S2T
	800	WZ-5205-82-17-011	WZ-5205-82-17-161	—	—
	600	WZ-5205-82-18-011	WZ-5205-82-18-161	—	—

Other doors - see page 23



DSR 19" COLOCATION CABINET

Allows for placing multiple independent servers in one cabinet

Colocation cabinets are typically used for indoor applications. They are specially designed to protect equipment installed inside and provide it with appropriate ventilation. There is one standard overall dimension with 6 different combination options for the colocation cabinets.

When designing DSR cabinets, ZPAS applied unique design principles normally found in tailor made cabinets with ventilation systems.

Main features:

- Front and rear door made of perforated sheet steel, offered in 3 standard heights of 47 U, 23 U, 11 U. The rear of the cabinet can be also fitted with perforated sheet.
- Colocation cabinets come with steel perforated side panels, these side panels can double up as cabinet dividers when cabinets are bayed together.
- Doors and panels are fitted with standard single point locks; multiple point locks can be applied on request.
- Individual compartments are separated with horizontal dividers that are fixed directly to the frame. Each compartment has its own set of 19" mounting profiles and split cable ducts. These ducts are on both sides of the cabinet. Cable entry points are possible from either the top or bottom of the cabinet.
- Both top and bottom plate have 380x210 mm opening that might be used either for a fan unit or cable entry. These access points can be covered using various blanking plates. Additionally there are 2 slim, side cable openings. For top cable leading it is necessary to use roof with cable openings instead of the solid roof.

Technical data

Material:
Sheet steel

Protection degree:
IP 20 in accordance with EN 60529.

Surface finishing:
Frame, roof, panels, doors, plinth
- textured powder paint, light grey (RAL 7035).
All other colour options on request.
Mounting profiles and cable ducts - Al-Zn coated.

Maximum load capacity:
The maximum weight of equipment mounted in DSR cabinets is 600 kg.



DSR cabinets bayed together

Scope of delivery

Cabinet in standard configuration*
(cat. no. WZ-DSR-00x-x600-11-011):

- frame,
- horizontal dividers (quantity dependent on number of compartments within the cabinet),
- individual front door for each compartment,
- rear single panel for the full height of the cabinet,
- 2 pairs of 19" mounting profiles for each compartment,
- cable ducts (does not refer to cabinet without any compartments),
- solid roof,
- levelling feet,
- earthing cables.

*) Other configurations -- see instructions on page 43.



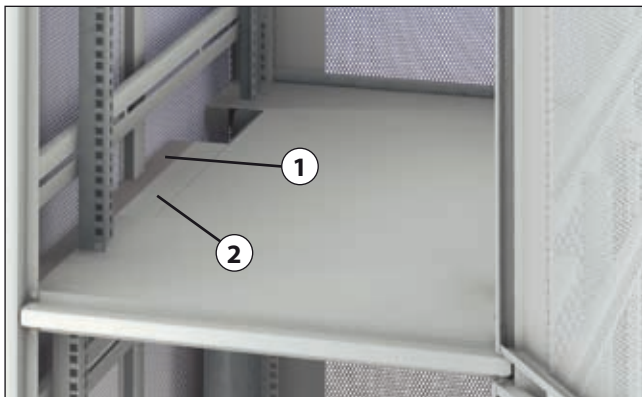
DSR 19" COLOCATION CABINET



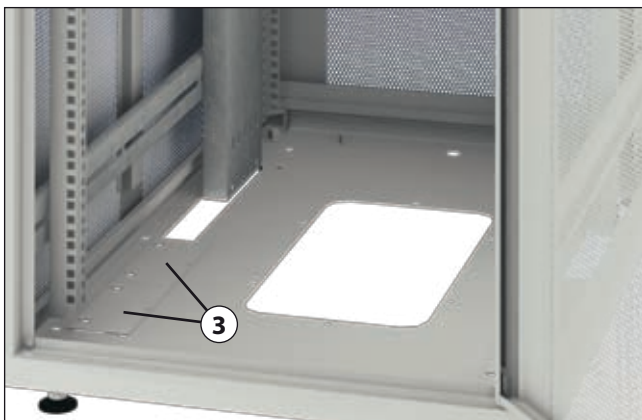
DSR cabinet with two compartments



DSR cabinet with four compartments, cable ducts lead from the bottom



Supplementary accessories: 1 - self-adhesive insert
2 - cable opening cover



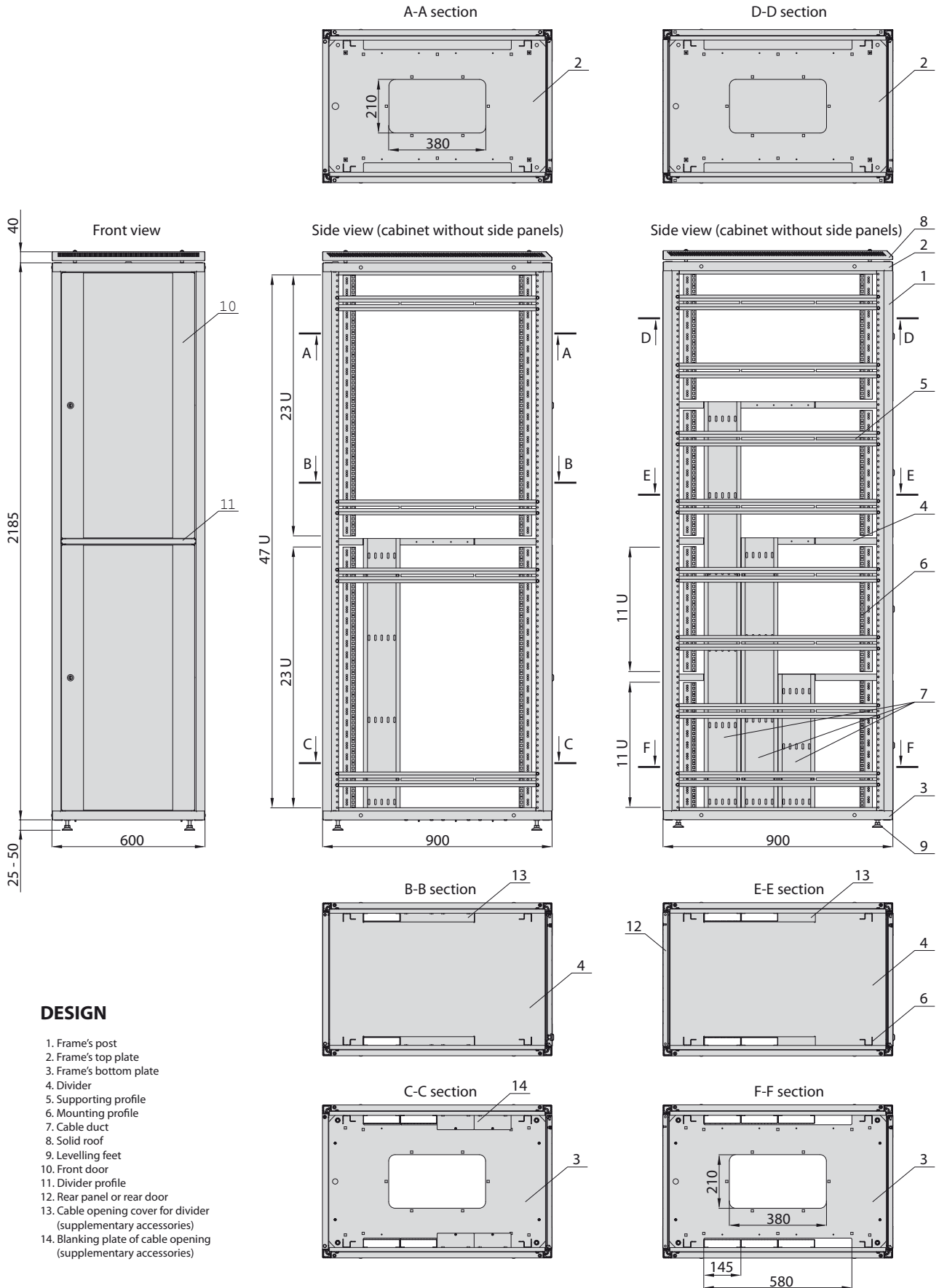
Supplementary accessories: 3 - blanking plate for cable opening



DSR cabinet with four compartments, cable ducts lead from the top, roof with cable openings



DSR 19" COLOCATION CABINET



DESIGN

- 1. Frame's post
- 2. Frame's top plate
- 3. Frame's bottom plate
- 4. Divider
- 5. Supporting profile
- 6. Mounting profile
- 7. Cable duct
- 8. Solid roof
- 9. Levelling feet
- 10. Front door
- 11. Divider profile
- 12. Rear panel or rear door
- 13. Cable opening cover for divider (supplementary accessories)
- 14. Blanking plate of cable opening (supplementary accessories)



DSR 19" COLOCATION CABINET

Catalogue number of DSR cabinet

Split of cabinet's interior:

NOTES:
Height of horizontal dividers is 1 U.
Each compartment has individual 19" mounting profiles.

Type of side panel:

Type of roof:

WZ-DSR - 00 \bar{X} - $\bar{X}\bar{X}\bar{X}\bar{X}$ - $\bar{X}\bar{X}$ - 011

Split of front and rear door/panel:

Perforated door

NOTES:
Split of front and rear door/panel does not have to match with interior split of the cabinet.
Normally doors are fitted with single point locks without handle.
On request it is possible to use handle locking system.
As a standard, doors and panels have perforation with 30% clearance (perforation type A).
Perforation with larger clearance is available on request (types B or C – see page 32).

Type of base:

- 1 - levelling feet
- 2 - 100 mm plinth
- 3 - 100 mm plinth with levelling option
- 4 - 200 mm plinth
- 5 - 200 mm plinth with levelling option

NOTES:
For a detailed description of plinths, see pages 78-79.

Ordering instruction

1. When ordering the DSR cabinet, please provide the appropriate **catalogue number according to the above information**, which specifies the interior split of the cabinet, as well as type of doors, panels, roof and base.
2. The next step is to specify **catalogue numbers of supplementary accessories** (such as: blanking plates, power strips, fan units etc. - see pages 77-121). Supplementary accessories are delivered in separate packaging including fixing hardware.

Supplementary accessories:

Cable opening cover for DSR divider
- page 97

Self-adhesive insert of DSR divider
- page 97

Blanking plate of cable opening
- page 97

Earthing bar
- page 96
Set of fixing/spacer bolt
- page 96



SZU 19"/21" TELECOMMUNICATION CABINET

Universal telecommunication cabinet

- Designed according to the ETS 300 119-2 and IEC 917-2-1 standards.
- Depending on mounting profiles used, it makes it possible to install equipment in 19" or 21" spacing.
- Application of 21"-19" adapters allows installation of both 19" and 21" appliances in one cabinet.
- Possibility to set the cabinet on adjustable feet hidden in the bottom plate of the frame. Adjustment range 15 mm.
- Insertion of cables into the cabinet from the top and from the bottom through maximally enlarged openings in the top and bottom plate.
- Side panels additionally protected from the inside against disassembly from the outside.

Scope of delivery

- cabinet's frame
- mounting profiles in 19" or 21" spacing. In cabinets 800 and 600 mm deep there are two pairs of mounting profiles; with just one pair in cabinets 300 mm deep.
- two side panels
- front door
- rear door or rear panel
- eight cable bars
- earthing bar
- two perforated blanking plates (in the top and the bottom plate)
- ESD antistatic earthing band

Technical data

Material:

Steel sheet

Surface finishing:

Frame, panels, metal door - powder painted in RAL 7035.
Application of other colours on request.
Mounting profiles and blanking plates in the top and bottom plate - Al-Zn coated

Maximum load capacity:

The maximum weight of equipment mounted in SZU cabinet is 250 kg



SZU 21" cabinet with metal perforated door

Available types of front and rear door:

- glass door with two single locks
- metal perforated door with three point lock
- rear door can be changed for rear panel

Supplementary accessories ordered separately (see pages 98):

- adapters for fixing 19" appliances on 21" mounting profiles
- lifting eyes

Catalogue number of SZU cabinet

Reference number
defining dimensions of the cabinet
(see reference chart)

Types of mounting profiles:
1 - 19" mounting profiles
2 - 21" mounting profiles

WZ-SZU - 00X - XXAA - X0 - 011

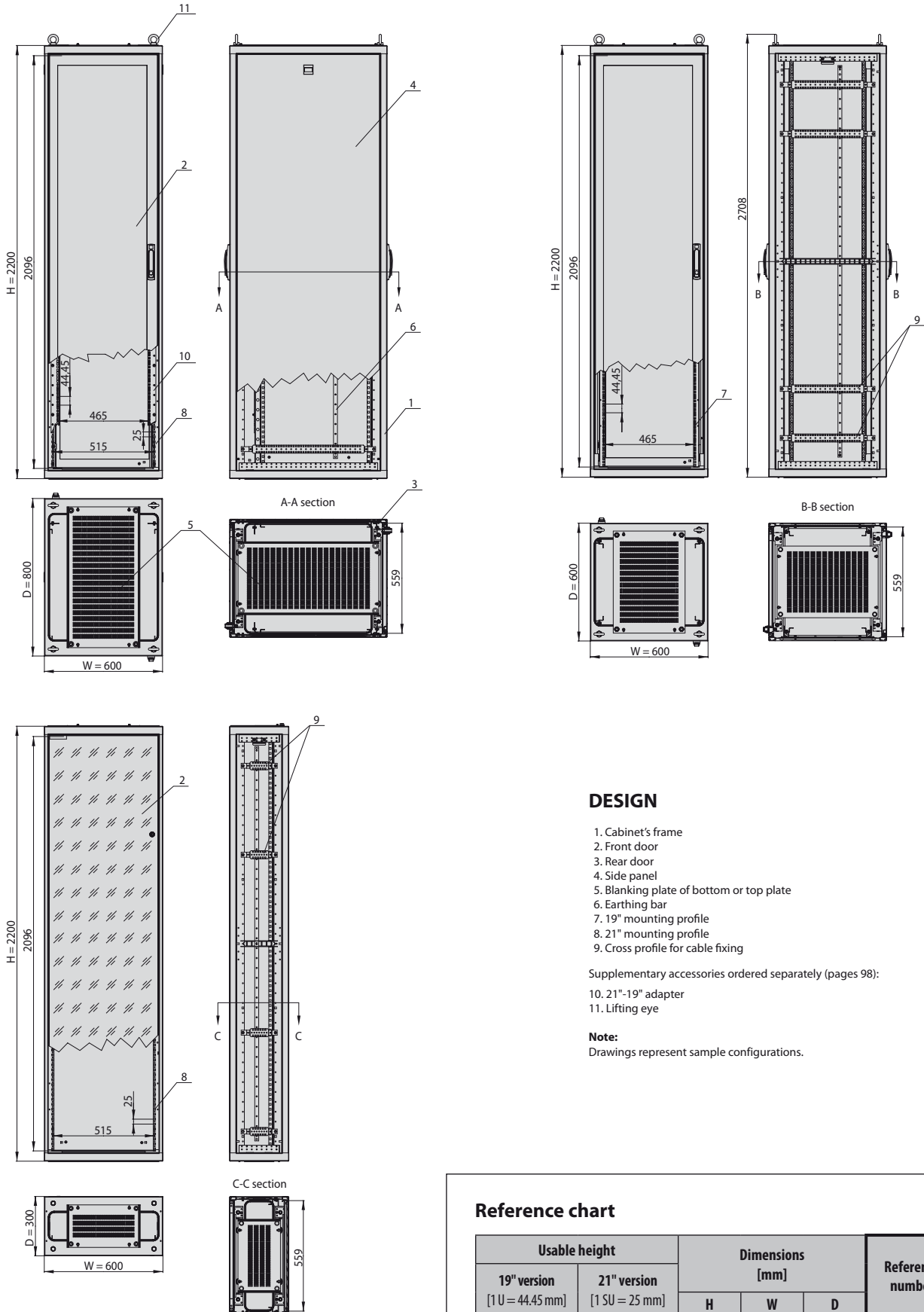
Type of front door:
1 - glass door with two single locks
2 - metal perforated* door with rod-lath lock

Type of rear door or rear panel:
1 - glass door with two single locks
2 - metal perforated* door with rod-lath lock
A - solid metal panel



*) Perforation type C - see page 32

SZU 19"/21" TELECOMMUNICATION CABINET



DESIGN

1. Cabinet's frame
2. Front door
3. Rear door
4. Side panel
5. Blanking plate of bottom or top plate
6. Earthing bar
7. 19" mounting profile
8. 21" mounting profile
9. Cross profile for cable fixing

Supplementary accessories ordered separately (pages 98):

10. 21"-19" adapter
11. Lifting eye

Note:

Drawings represent sample configurations.

Reference chart

Usable height		Dimensions [mm]			Reference number
19" version [1 U = 44.45 mm]	21" version [1 SU = 25 mm]	H	W	D	
47 U	83 SU	2200	600	800	1
				600	2
				300	3



SJB 19" CABINET

Data communication cabinet for office applications

- SJB cabinets are perfect solution for small network systems installed in offices.
- The design of the cabinet is based on a self-supporting body with no frame.
- Desktop made of furniture board gives the cabinet a sophisticated look and allows it to blend in with the existing interior decor.

Technical data

Materials:

Body, rear panel, mounting angles - sheet steel
 Door - safety glass
 Desktop - MDF board

Protection degree:

IP 20 in accordance with EN 60529.

Surface finishing:

Body and rear panel – powder paint, RAL 7035 or RAL 9005.
 Other colour options available on request.

Mounting angles – Al-Zn coated.

Desktop colour:

As a standard option, cabinets are supplied with desktops made of Calvados-laminated MDF board. Other desktop colours or materials are available on request.

Scope of delivery:

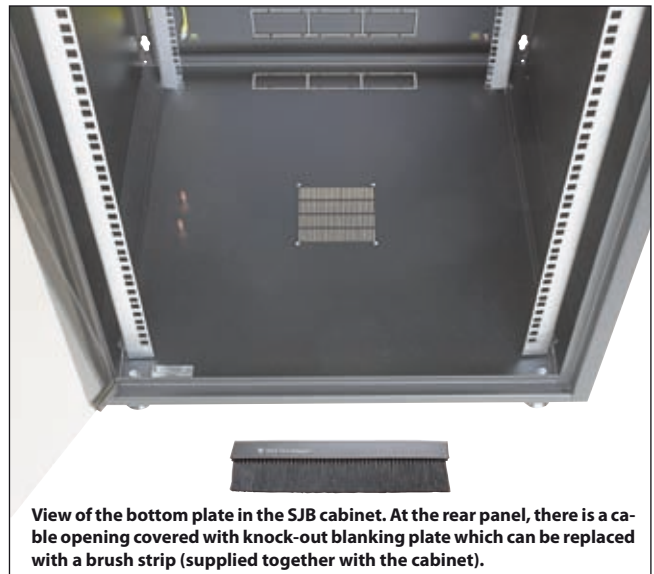
- cabinet body with safety glass door and removable rear panel,
- desktop made of furniture board,
- 2 pairs of mounting angles spaced at 19",
- brush strip for the cable opening (instead of knock-out blanking plate).

Supplementary accessories (ordered separately):

- earthing elements (page 69),
- shelves, drawers, power strips etc. (pages 84-121),
- desktop elevation kit.



SJB 15 U cabinet finished in RAL 9005



View of the bottom plate in the SJB cabinet. At the rear panel, there is a cable opening covered with knock-out blanking plate which can be replaced with a brush strip (supplied together with the cabinet).

Desktop elevation kit for SJB cabinet

The kit makes it possible to elevate the desktop by 19 mm over the top plate, thus increasing air flow through the cabinet, and enables fan mounting to the top plate.

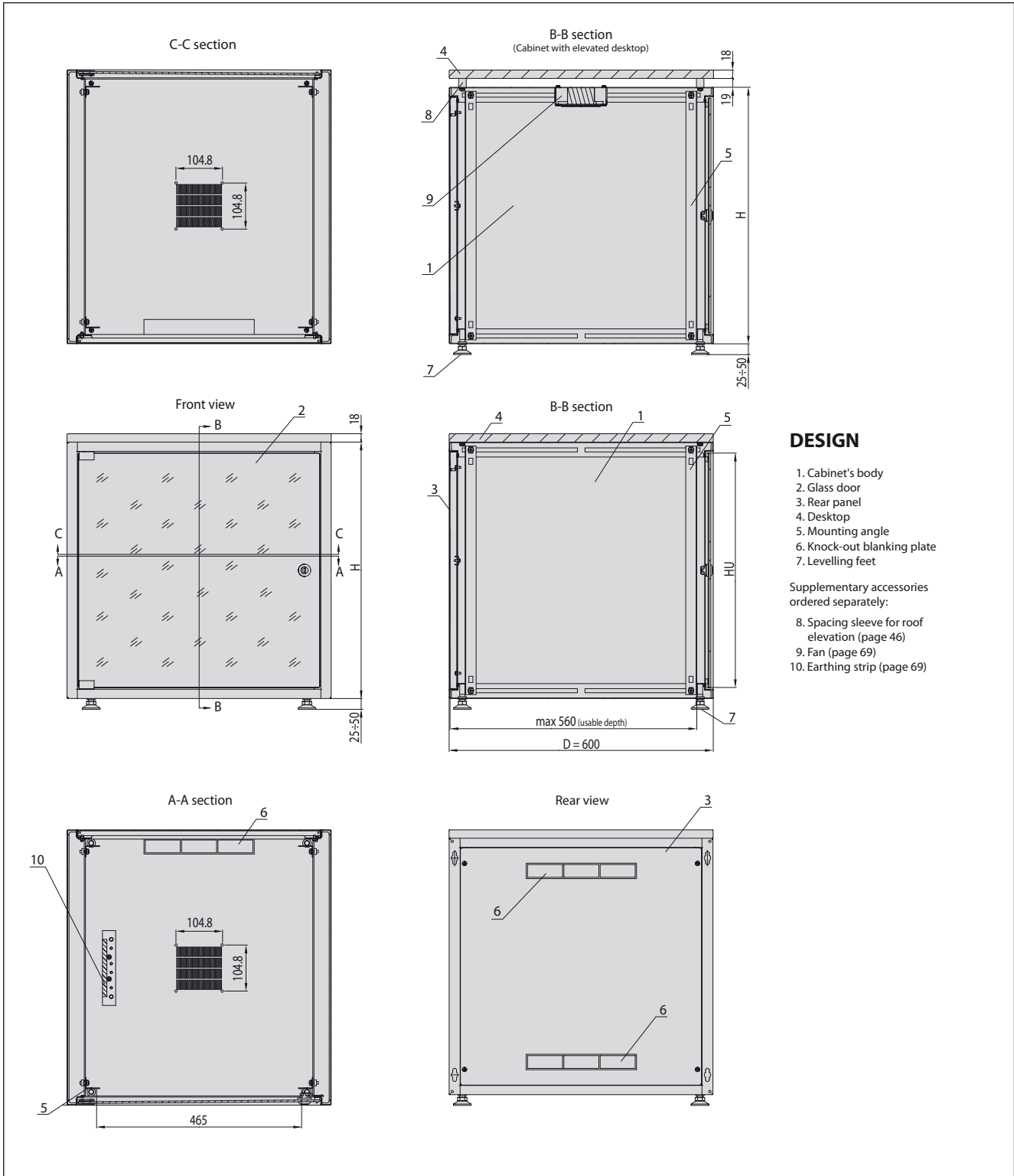
Scope of delivery:

Set: 4 screws M6x30, 4 washers, 4 spacing sleeves.

Package	Catalogue number
1 set	WZ-3987-90-00-000



SJB 19" CABINET



DESIGN

1. Cabinet's body
 2. Glass door
 3. Rear panel
 4. Desktop
 5. Mounting angle
 6. Knock-out blanking plate
 7. Levelling feet
- Supplementary accessories ordered separately:
8. Spacing sleeve for roof elevation (page 46)
 9. Fan (page 69)
 10. Earthing strip (page 69)

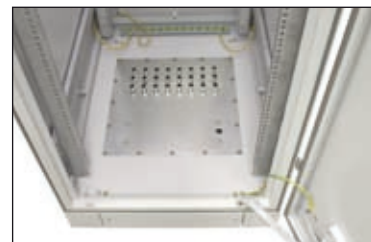
Reference chart

Total width W [mm]	Total depth D [mm]	Body height H [mm]	Usable height HU [U = 44.45 mm]	Maximum load capacity [kg]	Catalogue number	
					Cabinet finished in RAL 7035	Cabinet finished in RAL 9005
600	600	871	18 U	45	WZ-3987-01-04-011	WZ-3987-01-04-161
		737	15 U	38	WZ-3987-01-03-011	WZ-3987-01-03-161
		604	12 U	30	WZ-3987-01-02-011	WZ-3987-01-02-161
		515	10 U	30	WZ-3987-01-01-011	WZ-3987-01-01-161



EXAMPLES OF CUSTOMISED CABINETS

FLOOR-STANDING CABINETS



Cabinet 19" conforming to EMC requirements, designed for the installation of devices emitting electromagnetic waves



EXAMPLES OF CUSTOMISED CABINETS



Certificate of electromagnetic protection

Cabinet 19" conforming to EMC requirements, designed for the installation of devices emitting electromagnetic waves



EXAMPLES OF CUSTOMISED CABINETS



Enclosure for a gas treatment station delivered to CS CLEAN SYSTEMS AG.
Design protected by copyright.



19" cabinet without a door, equipped with voltage supply unit and a fan unit



Cabinets can be equipped with telecommunication or electric devices in accordance with customer's project or designed by ZPAS.

WALL-MOUNTED CABINETS AND FRAMES

SD2



SJ2



SU



SW



SWJ



SKI2



SJK



RNO



RN



SU 19" CABINET

Wall-mounted single-section cabinet with removable side panels

- Designed for indoor applications.
- Available in 6 usable heights and 3 depths (see reference chart).
- The design of the cabinet is based on dismantlable frame with safety glass or steel front door and removable rear and side panels.
- Standard version is equipped with two adjustable 19" mounting angles, a knock-out blanking plate and a brush opening (potential cable entry point).
- The rear and side panels, as well as steel door, are provided with earthing connections.
- Cabinets can be fastened directly to the wall without using any brackets - convenient internal access to wallfixing screws.
- Easy change of door opening direction and cable opening layout by rotating by 180°.
- Wide range of supplementary accessories: shelves, drawers, fan kit, power strips etc.
- Cabinet can be equipped with additional rear adjustable 19" mounting angles or mounting profiles.

Technical data

Material:

Frame, rear and side panels, mounting angles - sheet steel
 Door - safety glass or sheet steel

Surface finishing:

Frame and mounting angles – Al-Zn coated. Steel door, side panels and rear panel – textured powder paint, light grey (RAL 7035).
 All other colour options on request.

Protection degree:

IP 20 in accordance with EN 60529
 (does not apply to brush cable entries).

Scope of delivery

Cabinets are packed in cardboard boxes. In the packing there is a template for drilling holes in the wall.



SU cabinet 12 U high with safety glass door



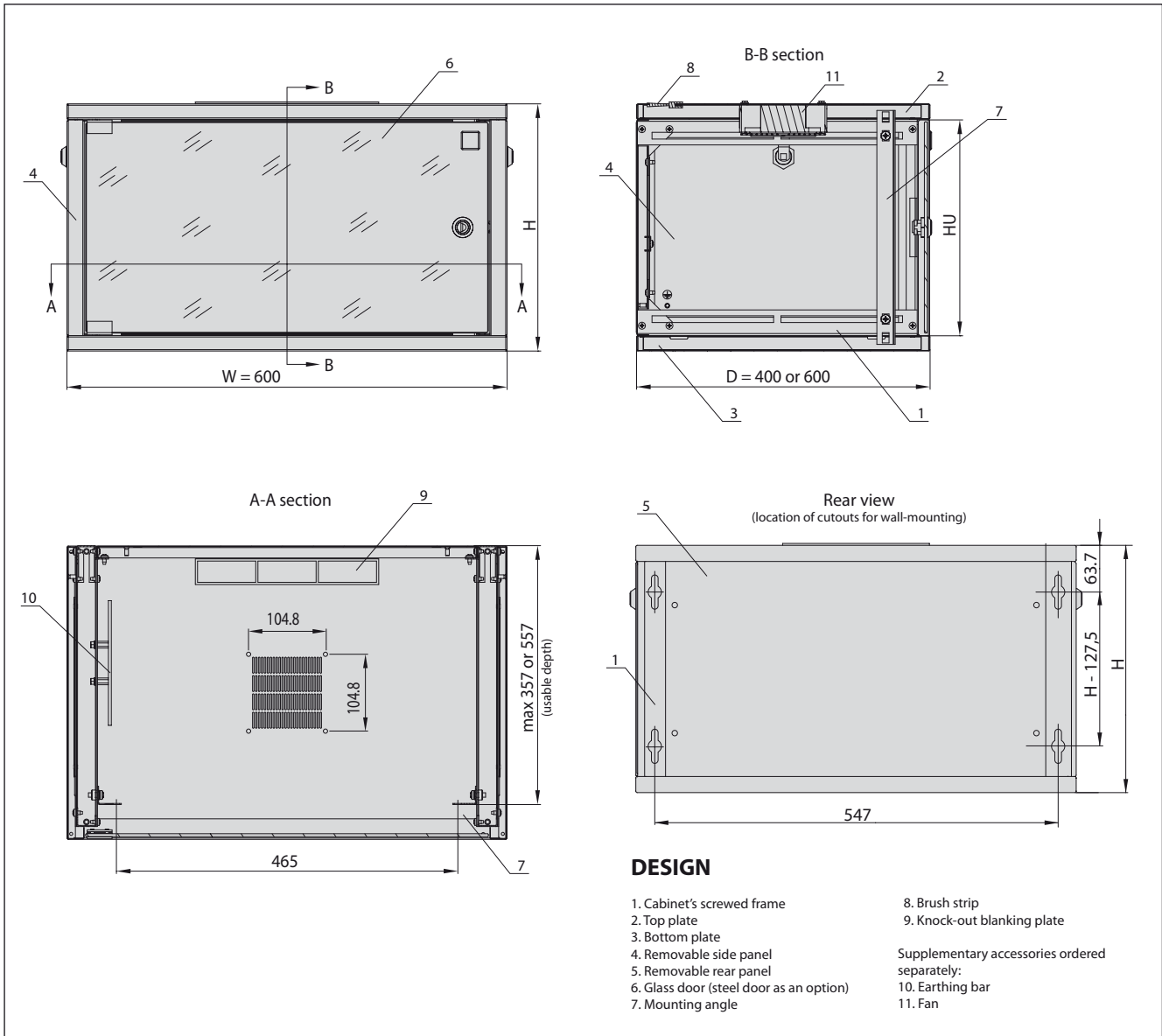
SU cabinet 6 U high - rear view



SU cabinet 6 U high with safety glass door



SU 19" CABINET



Reference chart

Packing method	Total width W [mm]	Total depth D [mm]	Total height H [mm]	Usable height HU [U = 44.45 mm]	Maximum load capacity [kg]	Catalogue number	
						Cabinet with glass door	Cabinet with steel door
Assembled cabinet	600	600	871	18 U	30	WZ-3286-01-S6-011	WZ-3286-01-M6-011
			737	15 U	25	WZ-3286-01-S5-011	WZ-3286-01-M5-011
			604	12 U	20	WZ-3286-01-S4-011	WZ-3286-01-M4-011
			515	10 U	16	WZ-3286-01-S3-011	WZ-3286-01-M3-011
			337	6 U	10	WZ-3286-01-S2-011	WZ-3286-01-M2-011
			248	4 U	7	WZ-3286-01-S1-011	WZ-3286-01-M1-011
	600	400	871	18 U	45	WZ-2733-01-S6-011	WZ-2733-01-M6-011
			737	15 U	37	WZ-2733-01-S5-011	WZ-2733-01-M5-011
			604	12 U	30	WZ-2733-01-S4-011	WZ-2733-01-M4-011
			515	10 U	25	WZ-2733-01-S3-011	WZ-2733-01-M3-011
			337	6 U	15	WZ-2733-01-S2-011	WZ-2733-01-M2-011
			248	4 U	10	WZ-2733-01-S1-011	WZ-2733-01-M1-011
Cabinet in a flat pack for self assembly	600	400	871	18 U	45	WZ-2733-01-F6-011	-
			737	15 U	37	WZ-2733-01-F5-011	-
			604	12 U	30	WZ-2733-01-F4-011	-
			515	10 U	25	WZ-2733-01-F3-011	-
			337	6 U	15	WZ-2733-01-F2-011	-
			248	4 U	10	WZ-2733-01-F1-011	-



SD2 19" CABINET

Double-section wall-mounted cabinet

- Designed for indoor applications.
- Available in 5 usable heights (see reference chart).
- Consists of two basic parts:
 - 19" part with safety glass or steel door,
 - wall-mounted part with removable rear panel.
- A standard cabinet is equipped with two easily adjustable mounting angles spaced at 19",
- The steel door and rear panel are provided with earthing cables.
- The wall part of the cabinet has two cable openings. One cable opening is completed with a brush strip, the other is covered with knock-out blanking plate.
- The door opening direction and cable opening layout can be easily changed by rotating the cabinet by 180°.
- Wide range of supplementary accessories: shelves, drawers, fan kit, power strips, blanking plates, earthing bar etc.
- Cabinet can be equipped with additional rear adjustable 19" mounting angles or mounting profiles.



Technical data

Material:

Body, rear panel, mounting angles - sheet steel
 Door - safety glass or sheet steel

Surface finishing:

Textured powder paint, light grey (RAL 7035).
 All other colour options on request.
 Mounting angles - Al-Zn coated.

Protection degree:

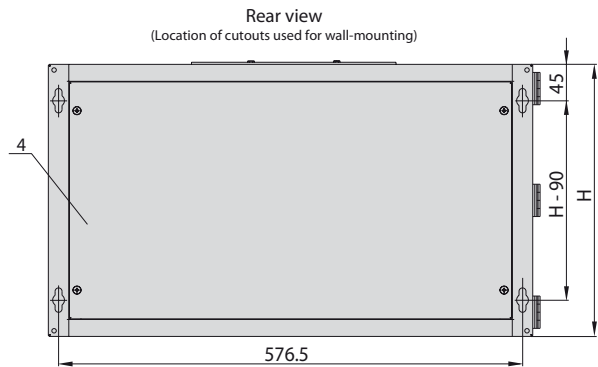
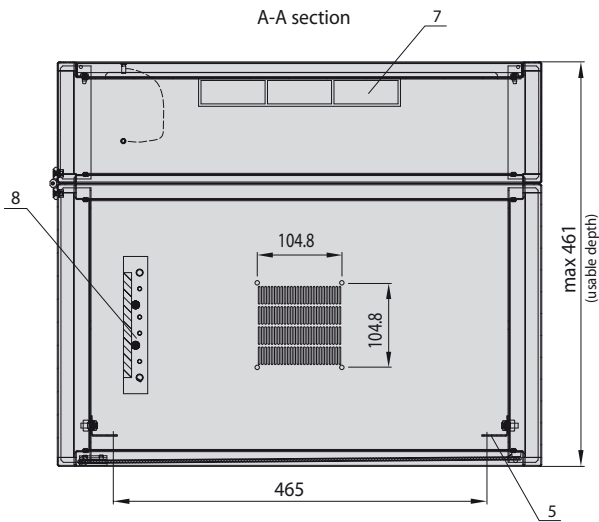
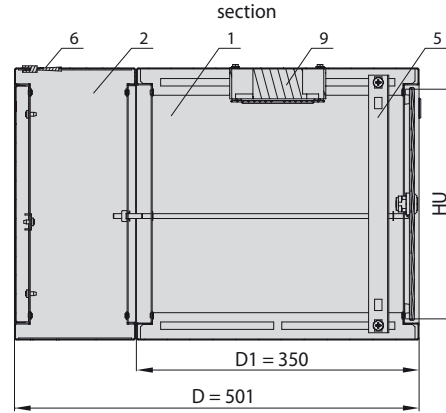
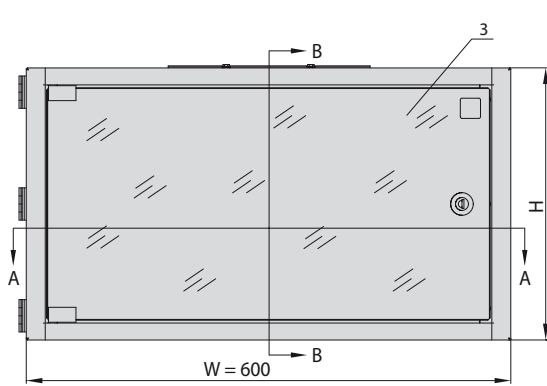
IP 20 in accordance with EN 60529
 (does not apply to brush cable entries).

Scope of delivery

Cabinets are packed in cardboard boxes. In the packing there is a template for drilling holes in the wall.



SD2 19" CABINET



DESIGN

1. Body of 19" part
2. Body of wall part
3. Glass door (steel door as an option)
4. Rear panel
5. Mounting angle
6. Cable entry
7. Knock-out blanking plate

Supplementary accessories ordered separately:
 8. Earthing bar
 9. Fan

Reference chart

Total width W [mm]	Total depth D [mm]	Depth of 19" part D1 [mm]	Total height H [mm]	Usable height HU [U = 44.45 mm]	Maximum load capacity [kg]	Catalogue number	
						Cabinet with glass door	Cabinet with steel door
600	501	350	871	18 U	30	WZ-3505-01-05-011	WZ-3505-01-M5-011
			737	15 U	30	WZ-3505-01-04-011	WZ-3505-01-M4-011
			604	12 U	30	WZ-3505-01-03-011	WZ-3505-01-M3-011
			515	10 U	20	WZ-3505-01-02-011	WZ-3505-01-M2-011
			337	6 U	20	WZ-3505-01-01-011	WZ-3505-01-M1-011



SJ2 19" CABINET

Single-section wall-mounted cabinet

- Designed for indoor applications.
- Available in 3 depths and 6 usable heights (see reference chart).
- The design of the cabinet is based on a metal body with safety glass door and removable rear panel.
- A standard cabinet is equipped with two easily adjustable mounting angles spaced at 19",
- The steel door and rear panel are provided with earthing cables.
- The body of the cabinet has two cable openings. One cable opening is completed with brush strip, the other with knock-out blanking plate.
- The door opening direction and cable opening layout can be easily changed by rotating the cabinet by 180°.
- Wide range of supplementary accessories: shelves, drawers, fan kit, power strips etc.
- Cabinet can be equipped with additional rear adjustable 19" mounting angles or mounting profiles.

Technical data

Material:

Body, rear panel, mounting angles - sheet steel
 Door - safety glass or sheet steel

Surface finishing:

Textured powder paint, light grey (RAL 7035).
 All other colour options on request.
 Mounting angles - Al-Zn coated.

Protection degree:

IP 20 in accordance with EN 60529
 (does not apply to brush cable entries).

Scope of delivery

Cabinets are packed in cardboard boxes. In the packing there is a template for drilling holes in the wall.



SJ2 cabinet 12 U with safety glass door



SJ2 cabinet 18 U with safety glass door



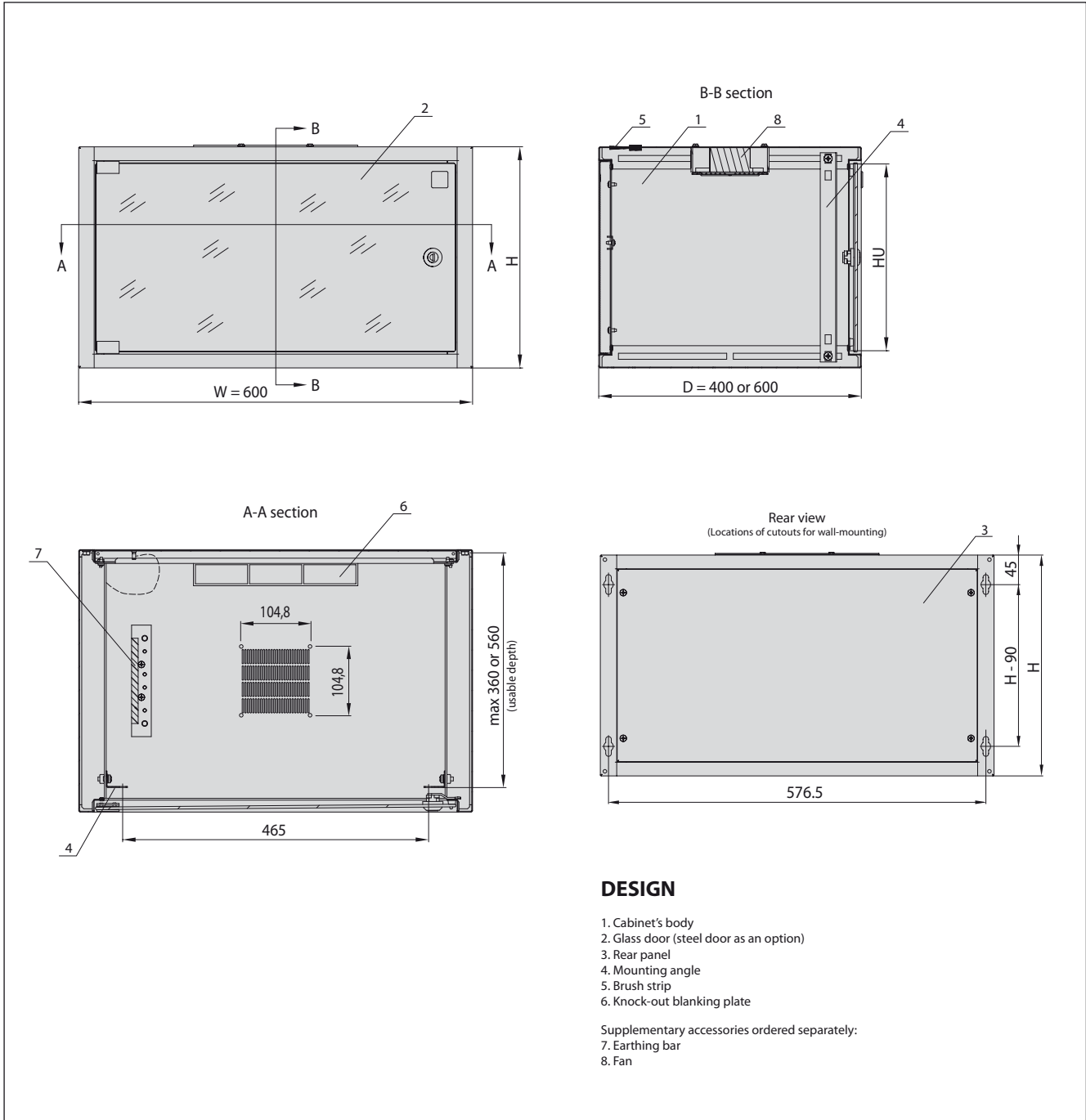
Bottom plate of SJ2



Top plate of SJ2



SJ2 19" CABINET



DESIGN

1. Cabinet's body
2. Glass door (steel door as an option)
3. Rear panel
4. Mounting angle
5. Brush strip
6. Knock-out blanking plate

Supplementary accessories ordered separately:

7. Earthing bar
8. Fan

Reference chart

Total width W [mm]	Total depth D [mm]	Total height H [mm]	Usable height HU [U = 44.45 mm]	Maximum load capacity [kg]	Catalogue number	
					Cabinet with glass door	Cabinet with steel door
600	600	871	18 U	30	WZ-3715-01-05-011	WZ-3715-01-10-011
		737	15 U	25	WZ-3715-01-04-011	WZ-3715-01-09-011
		604	12 U	25	WZ-3715-01-03-011	WZ-3715-01-08-011
		515	10 U	20	WZ-3715-01-02-011	WZ-3715-01-07-011
		337	6 U	20	WZ-3715-01-01-011	WZ-3715-01-06-011
600	400	871	18 U	40	WZ-3504-01-05-011	WZ-3504-01-M5-011
		737	15 U	35	WZ-3504-01-04-011	WZ-3504-01-M4-011
		604	12 U	30	WZ-3504-01-03-011	WZ-3504-01-M3-011
		515	10 U	30	WZ-3504-01-02-011	WZ-3504-01-M2-011
		337	6 U	25	WZ-3504-01-01-011	WZ-3504-01-M1-011
		248	4 U	20	WZ-3839-01-01-011	WZ-3839-01-M1-011



SW 19" CABINET

Double-section wall-mounted cabinet

- Designed for indoor applications.
- Manufactured in 5 usable heights (see reference chart).
- The cabinet consists of two basic sections joined by hinges:
 - 19" section with steel door with a glass panel or steel solid door,
 - the wall section with removable rear panel.
- A standard cabinet has two regulated 19" mounting profiles, two frames with a metal grid (grids protect perforated surfaces of the cabinet from the inside), one blanking plate for cable entry, one cable entry plate, one earthing bar, five earthing cables and four wall-fastening brackets.
- Wide range of supplementary accessories: shelves, drawers, fan units etc.
- Cabinet can be equipped with additional rear adjustable 19" mounting angles or mounting profiles.

Technical data

Material:

Body, rear panel, door, mounting profiles - sheet steel
 Door glass panel - safety glass

Surface finishing:

Body, door, rear panel, blanking plates, frame with grid
 - powder painted in RAL 7035.
 Application of other colours on request.
 Mounting profiles - Al-Zn coated

Protection degree:

IP 40 in accordance with EN 60529

Scope of delivery

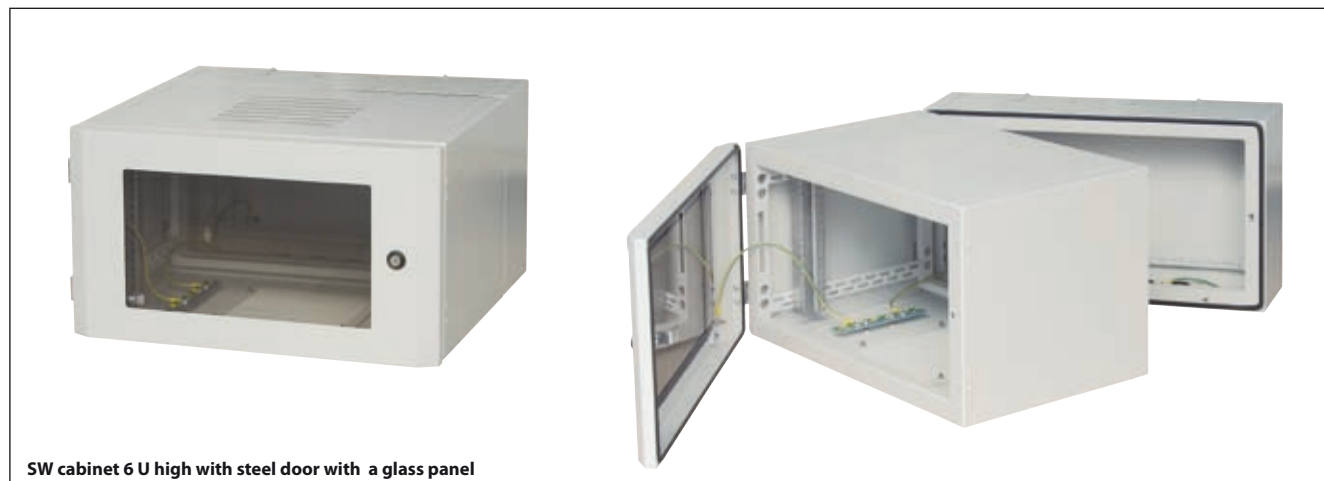
Cabinets are packed in cardboard boxes. In the packing there is a template for drilling holes in the wall.



SW cabinet 15 U high with steel door with a glass panel



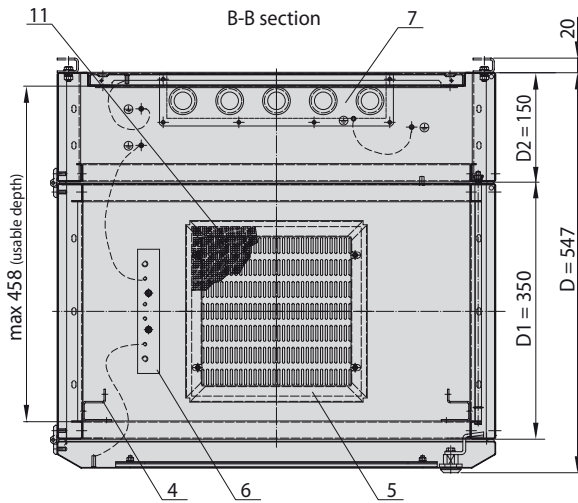
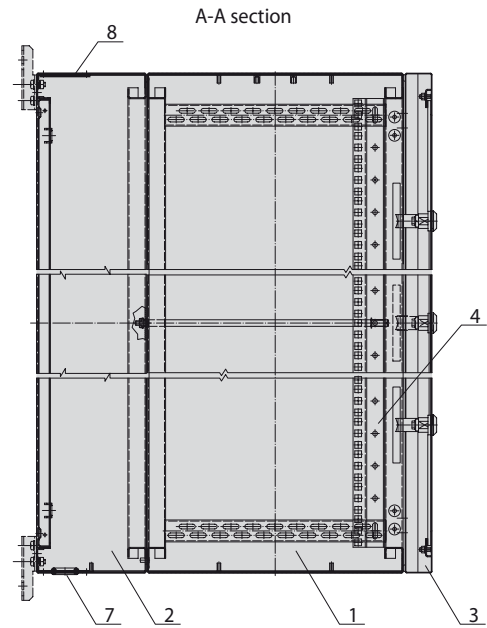
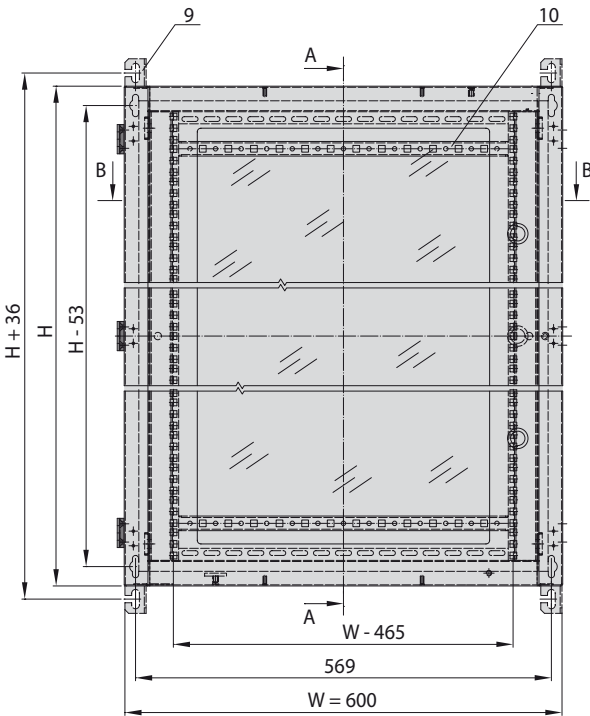
SW cabinet 10 U high with steel solid door



SW cabinet 6 U high with steel door with a glass panel



SW 19" CABINET



DESIGN

1. Body of 19" section
2. Body of wall section
3. Door
4. Mounting profile
5. Frame with a metal grid
6. Earthing bar
7. Cable entry plate
8. Solid blanking plate
9. Wall-fastening bracket

Supplementary accessories ordered separately:

10. Cross bar
11. Filtering insert

Number of locks in the door
 - cabinets up to height of 12 U - one lock
 - cabinets above 12 U - two locks

Reference chart

Total width W [mm]	Total depth D [mm]	Depth of the 19" body D1 [mm]	Depth of the wall body D2 [mm]	Total height H [mm]	Usable height HU [U = 44.45 mm]	Maximum load capacity [kg]	Catalogue number	
							Cabinet with steel solid door	Cabinet with steel door with a glass panel
600	547	350	150	871	18 U	30	WZ-0405-M1-05-011	WZ-0405-S1-05-011
				737	15 U	30	WZ-0405-M1-04-011	WZ-0405-S1-04-011
				604	12 U	25	WZ-0405-M1-03-011	WZ-0405-S1-03-011
				515	10 U	25	WZ-0405-M1-02-011	WZ-0405-S1-02-011
				337	6 U	20	WZ-0405-M1-01-011	WZ-0405-S1-01-011



SWJ 19" CABINET

Single-section wall-mounted cabinet

- Designed for indoor applications.
- Manufactured in 2 depths and 6 usable heights (see reference chart).
- The cabinet is based on welded body with steel door and removable rear panel. The steel door can be with a glass panel or without.
- Standard cabinet has two regulated 19" mounting profiles, one blanking plate for cable entry, one cable entry plate, one earthing bar, four earthing cables and four wall-fastening brackets.
- Wide range of supplementary accessories: shelves, drawers, fan units etc.
- Cabinet can be equipped with additional rear adjustable 19" mounting angles or mounting profiles.

Technical data

Material:

Body, rear panel, door, mounting profiles - sheet steel
Door glass panel - safety glass

Surface finishing:

Body, door, rear panel, blanking plates - powder painted in RAL 7035. Application of other colours on request.
Mounting profiles - Al-Zn coated

Protection degree:

IP 40 in accordance EN 60529

Scope of delivery

Cabinets are packed in cardboard boxes. In the packing there is a template for drilling holes in the wall.



SWJ cabinet 10 U high with steel door with a glass panel



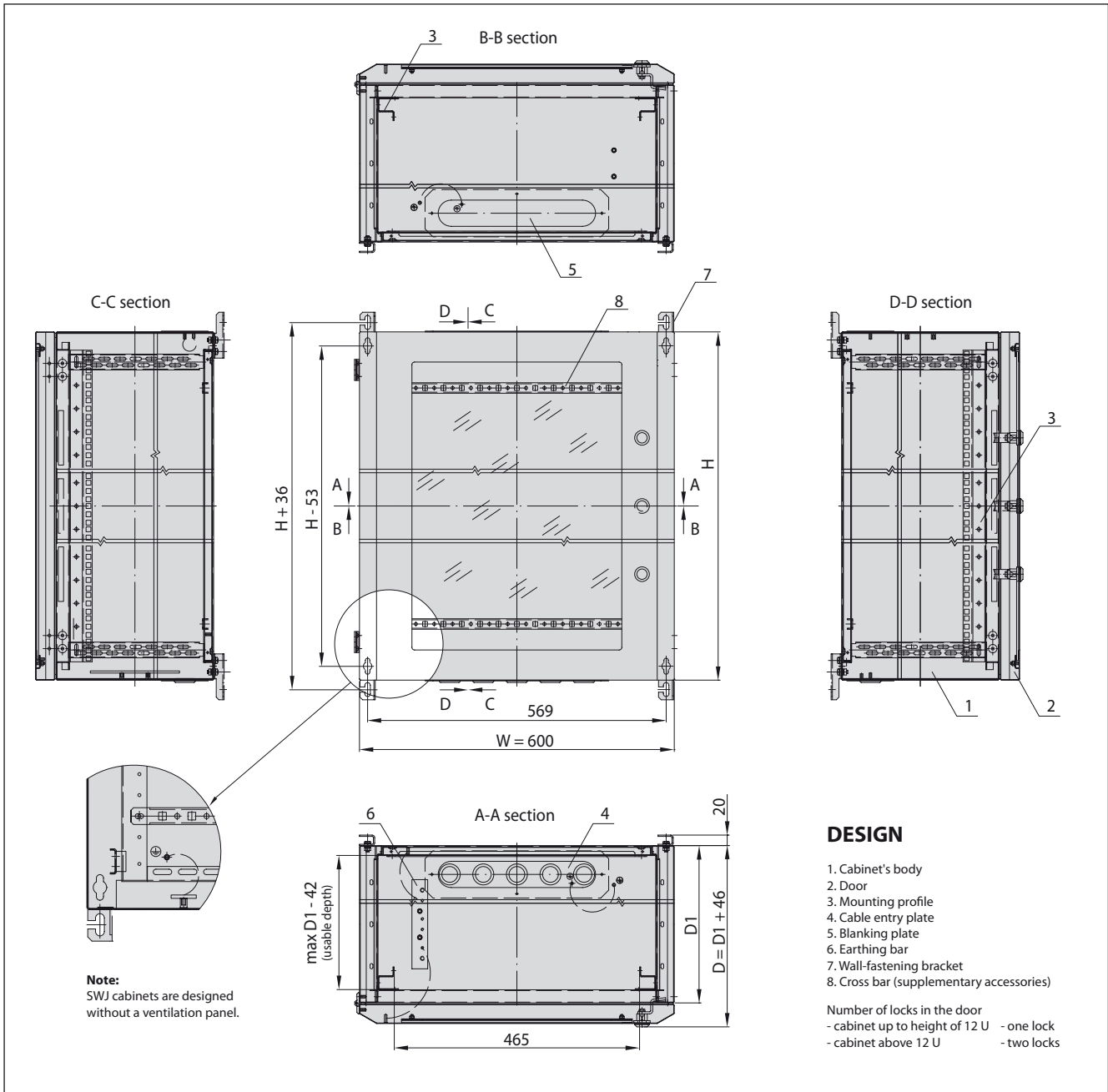
SWJ cabinet 15 U high with steel door with a glass panel



SWJ cabinet 18 U high with steel solid door



SWJ 19" CABINET



WALL-MOUNTED CABINETS AND FRAMES

Reference chart

Total width W (mm)	Total depth D (mm)	Depth of cabinets body D1 (mm)	Total height H (mm)	Usable height HU [U = 44.45 mm]	Maximum load capacity [kg]	Catalogue number	
						Cabinet with steel solid door	Cabinet with steel door with a glass panel
600	446	400	871	18 U	40	WZ-0750-M1-02-011	WZ-0750-S1-02-011
			737	15 U	35	WZ-0750-M1-04-011	WZ-0750-S1-04-011
			604	12 U	30	WZ-0750-M1-06-011	WZ-0750-S1-06-011
			515	10 U	30	WZ-0750-M1-08-011	WZ-0750-S1-08-011
			337	6 U	25	WZ-0750-M1-10-011	WZ-0750-S1-10-011
			248	4 U	20	WZ-0750-M1-12-011	WZ-0750-S1-12-011
600	346	300	871	18 U	45	WZ-0750-M1-01-011	WZ-0750-S1-01-011
			737	15 U	40	WZ-0750-M1-03-011	WZ-0750-S1-03-011
			604	12 U	35	WZ-0750-M1-05-011	WZ-0750-S1-05-011
			515	10 U	30	WZ-0750-M1-07-011	WZ-0750-S1-07-011
			337	6 U	25	WZ-0750-M1-09-011	WZ-0750-S1-09-011
			248	4 U	25	WZ-0750-M1-11-011	WZ-0750-S1-11-011



SJK 19" CABINET

Wall-mounted cabinet for light equipment

- Designed for small indoor networks.
- Available in 3 size variations (see reference chart). Other dimensions on request.
- The cabinet is based on metal body with metal solid door. It includes two 19" mounting angles fixed to the walls of the body.
- Openings in the top and bottom plate are covered with knock-out blanking plates.
- The cabinet does not have a rear panel.

Technical data

Material:

Sheet steel

Surface finishing:

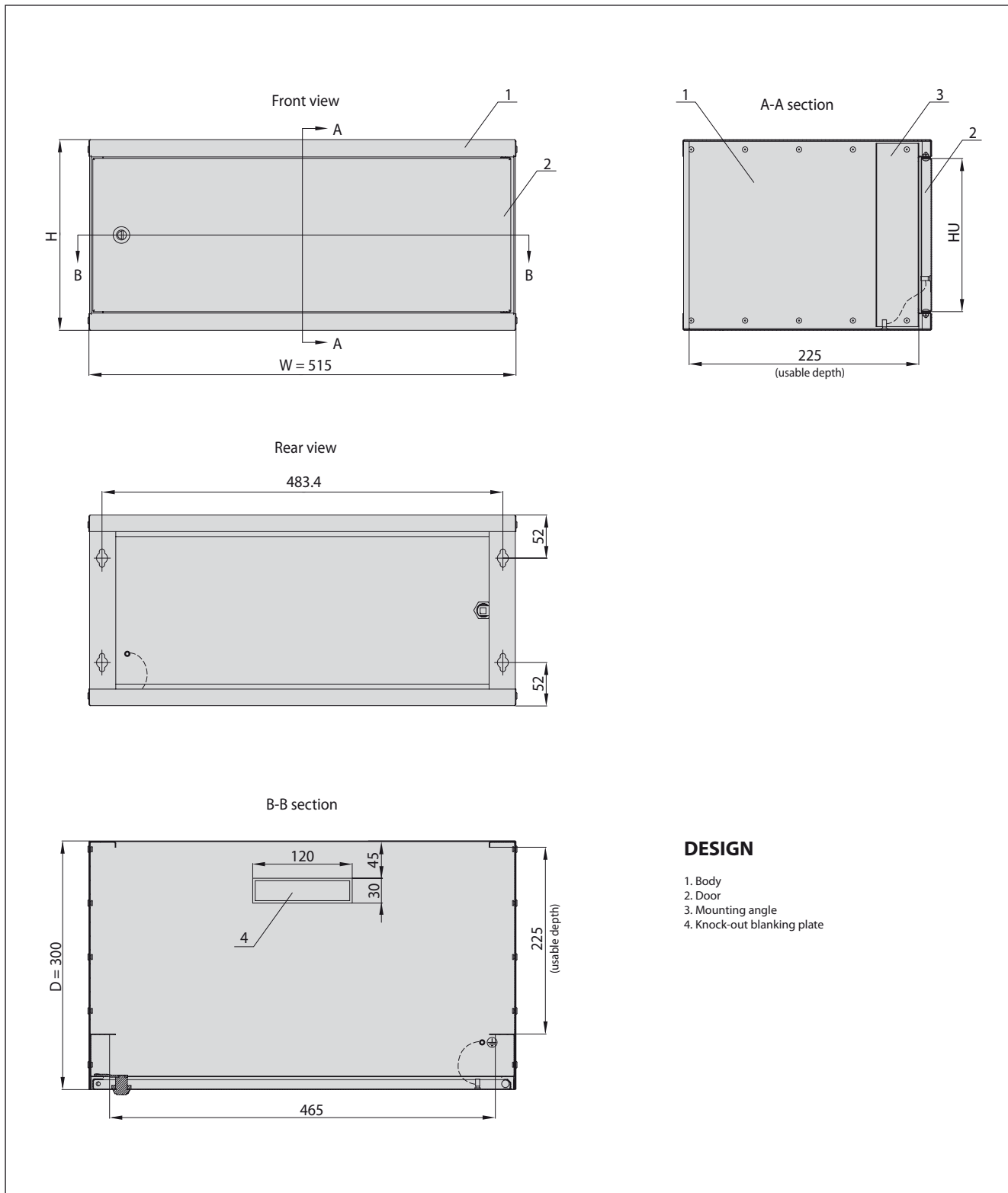
Powder painted in RAL 7035. Application of other colours on request.

Protection degree:

IP 20 (for cabinet mounted to the wall) in accordance with EN 60529



SJK 19" CABINET



DESIGN

- 1. Body
- 2. Door
- 3. Mounting angle
- 4. Knock-out blanking plate

Reference chart

Total width W [mm]	Total depth D [mm]	Total height H [mm]	Usable height HU [U = 44.45 mm]	Maximum load capacity [kg]	Catalogue number
515	300	497	10 U	10	WZ-3684-01-02-011
		320	6 U	6	WZ-3684-01-01-011
		230	4 U	4	WZ-3684-01-00-011



SKI2 10" CABINET

Wall-mounted cabinet for small networks

- Designed for indoor applications.
- Usable height of the cabinet is 7 U.
- The cabinet is based on body with steel or glass door. The cabinet includes two mounting angles for installation of 10" appliances. The mounting angles are fixed to the walls of the body.
- Openings in the cabinet's top and bottom plate are covered with knock-out blanking plates.
- Following removal of the knock-out plate, a brush strip supplied together with the cabinet can be placed in one of the cable openings. The other brush strip can be ordered as a supplementary accessory (see page 64).
- The cabinet does not have a rear panel.

Technical data

Material:

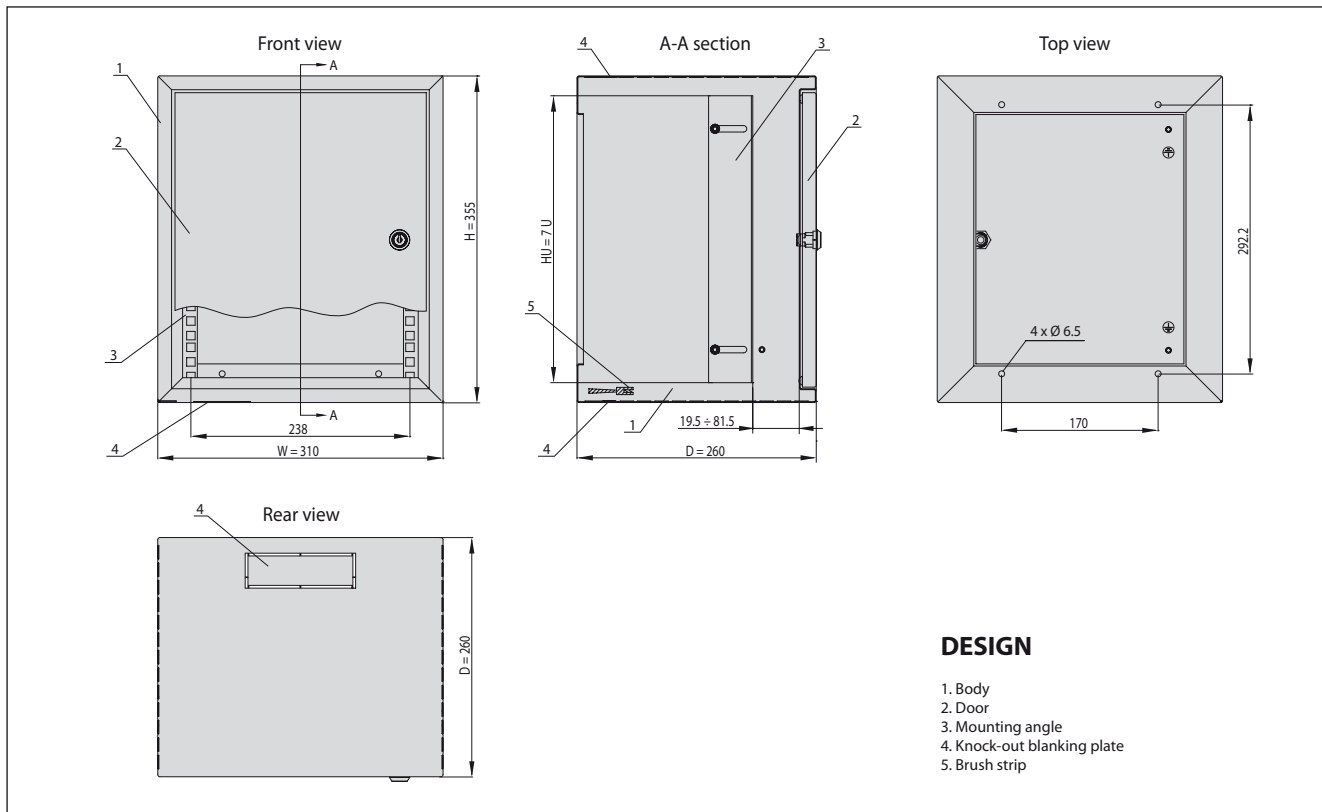
Sheet steel, safety glass

Surface finishing:

Powder painted in RAL 7035. Application of other colours on request.



SKI2 10" CABINET



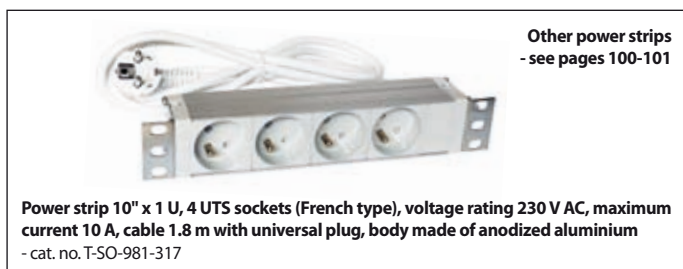
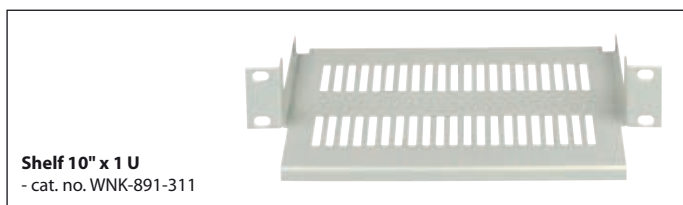
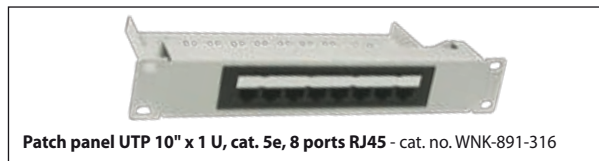
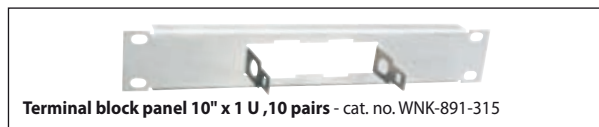
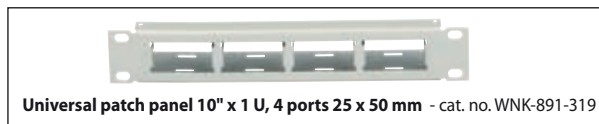
DESIGN

- 1. Body
- 2. Door
- 3. Mounting angle
- 4. Knock-out blanking plate
- 5. Brush strip

Reference chart

Total width W [mm]	Total depth D [mm]	Total height H [mm]	Usable height HU [U = 44.45 mm]	Catalogue number	
				Cabinet with steel door	Cabinet with glass door
310	260	355	7 U	WZ-3661-01-01-011	WZ-3661-01-02-011

Supplementary accessories in the 10" standard	Package	Catalogue number
Universal patch panel 10" x 1 U, 4 ports 25 x 50 mm	1 pc.	WNK-891-319
Terminal block panel 10" x 1 U, 10 pairs	1 pc.	WNK-891-315
Patch panel 10" x 1 U for keystones, 8 ports	1 pc.	WNK-891-312
Patch panel UTP 10" x 1 U, cat. 5e, 8 ports RJ45	1 pc.	WNK-891-316
Patch panel UTP 10" x 1 U, cat. 6, 12 ports RJ45	1 pc.	T-SO-900-128
Shelf 10" x 1 U	1 pc.	WNK-891-311
Power strip 10" x 1 U, 4 sockets type E (CEE 7/5)	1 pc.	T-SO-891-317



RN 19" WALL FRAME

Intended for light equipment which does not require full enclosure

- Simple and cheap solution for wall-mounted installation of 19" equipment.
- Available in 3 usable height options.

Material:

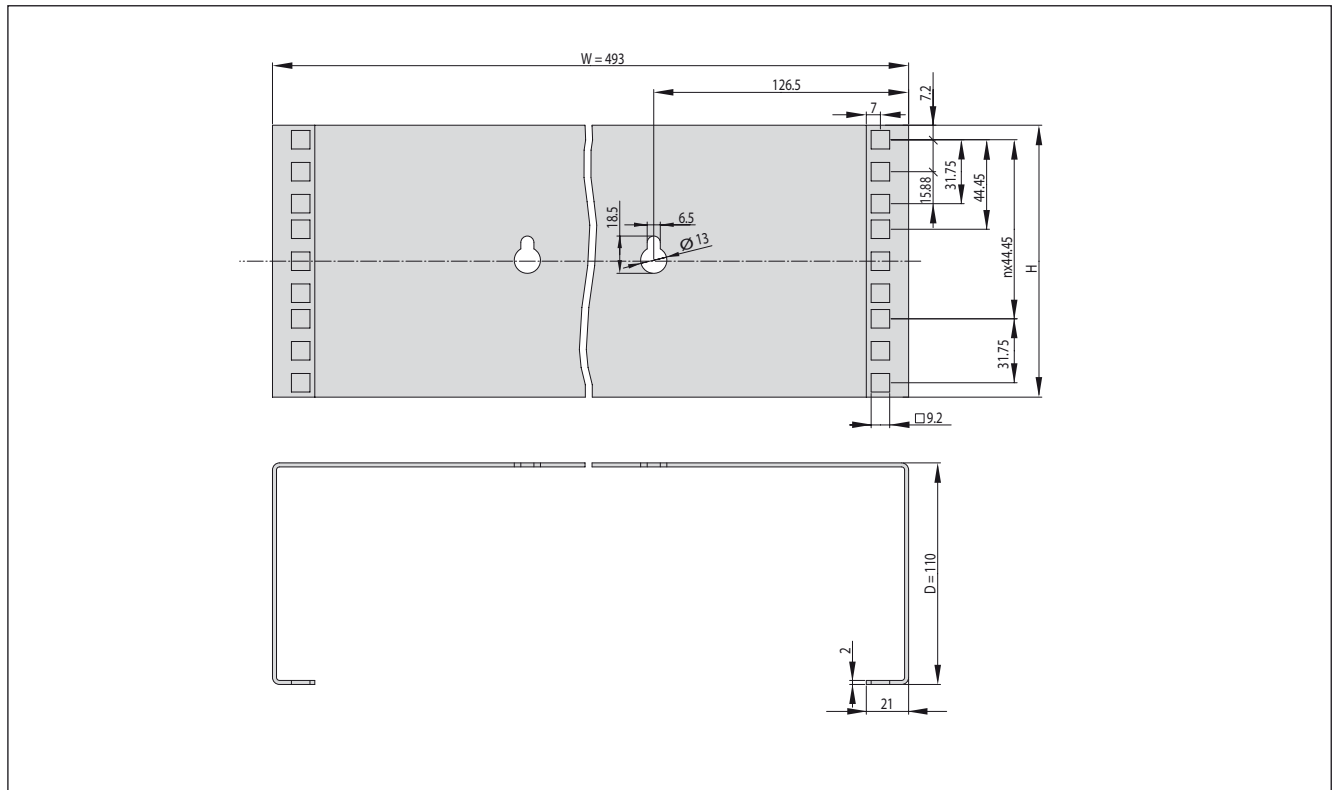
Sheet steel

Surface finishing:

Powder paint, light grey (RAL 7035).
Application of other colours on request.

Scope of delivery:

Wall frame (1 pc.) without fixing accessories.



Reference chart

Total width W [mm]	Total depth D [mm]	Total height H [mm]	Usable height [U = 44.45 mm]	Catalogue number
493	110	134	3 U	WZ-2522-02-03-011
		90	2 U	WZ-2522-02-02-011
		45	1 U	WZ-2522-02-01-011



RNO 19" WALL FRAME

Intended for light equipment which does not require full enclosure

- Simple and cheap solution for wall-mounted installation of 19" equipment.
- Left side with hinges to offer access to equipment from the rear.
- Available in 2 options of varying depth.

Material:

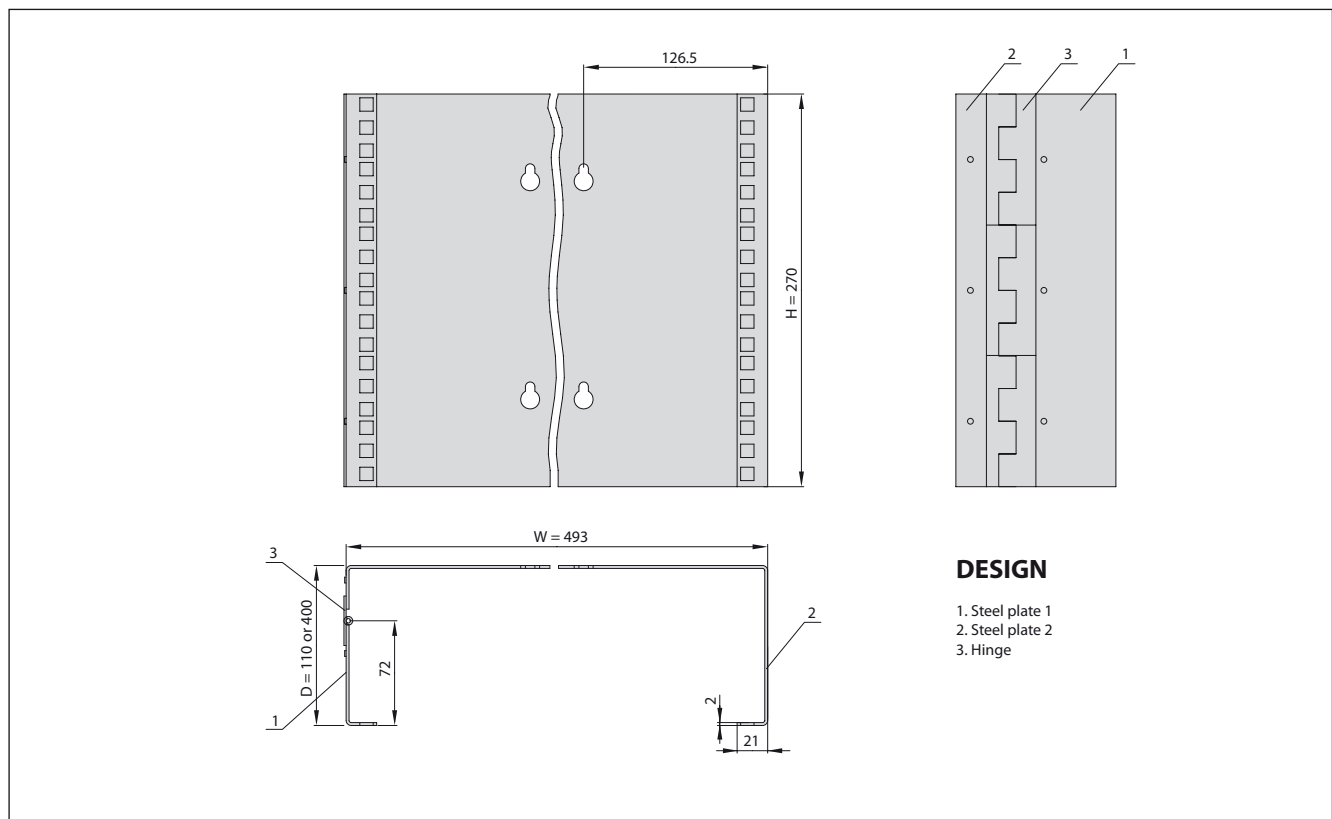
Sheet steel

Surface finishing:

Powder paint, light grey (RAL 7035).
Application of other colours on request.

Scope of delivery

Wall frame (1 pc.) without fixing accessories.



Reference chart

Total width W [mm]	Total depth D [mm]	Total height H [mm]	Usable height [U = 44.45 mm]	Catalogue number
493	400	270	6 U	WZ-2522-01-02-011
	110			WZ-2522-01-01-011



SUPPLEMENTARY ACCESSORIES FOR WALL-MOUNTED CABINETS

Mounting profiles, mounting angles

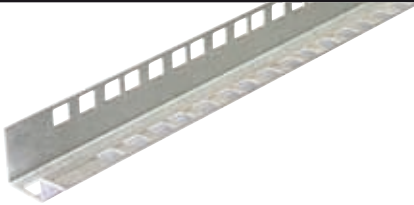

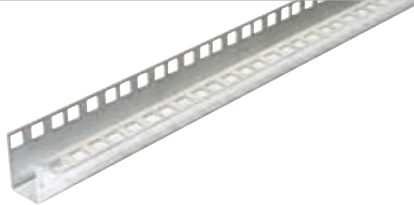

Mounting profiles are applied in wall-mounted cabinets when a shelf requiring four fixing points is to be installed (see page 84). In the standard configuration, SU, SD2 and SJ2 cabinets are offered with two mounting angles, whereas SW and SWJ cabinets are offered with two mounting profiles.

Material:

Sheet steel, Al-Zn coated,

Scope of delivery:

One set consisting of two mounting angles/profiles with fixing accessories.

Type of set	Length [U = 44.45 mm]	Catalogue number	Picture of mounting profile or mounting angle
Set of mounting profiles for SU, SD2, SJ2 cabinets	4 U	WZ-3839-15-01-000	
	6 U	WZ-3504-15-01-000	
	10 U	WZ-3504-15-02-000	
	12 U	WZ-3504-15-03-000	
	15 U	WZ-3504-15-04-000	
	18 U	WZ-3504-15-05-000	
Set of mounting angles for SU, SD2, SJ2 cabinets	4 U	WZ-3839-14-01-000	
	6 U	WZ-3504-14-01-000	
	10 U	WZ-3504-14-02-000	
	12 U	WZ-3504-14-03-000	
	15 U	WZ-3504-14-04-000	
	18 U	WZ-3504-14-05-000	
Set of mounting profiles for SW, SWJ cabinets	4 U	WZ-0750-09-01-000	
	6 U	WZ-0750-09-02-000	
	10 U	WZ-0750-09-03-000	
	12 U	WZ-0750-09-04-000	
	15 U	WZ-0750-09-05-000	
	18 U	WZ-0750-09-06-000	
Set of mounting angles for SW, SWJ cabinets	4 U	WZ-0750-24-01-000	
	6 U	WZ-0750-24-02-000	
	10 U	WZ-0750-24-03-000	
	12 U	WZ-0750-24-04-000	
	15 U	WZ-0750-24-05-000	
	18 U	WZ-0750-24-06-000	

Package: 1 set = 2 pcs.

Brush strip for cable opening

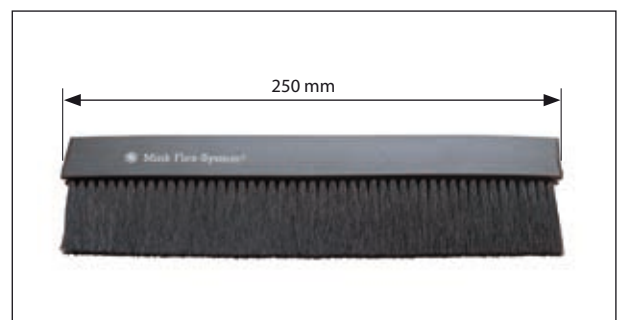
For blinding cable openings in SU, SD2, SJ2, SJK, SKI2 cabinets following the removal of blanking plates.

Material:

Plastic

Scope of delivery:

Brush strip, 250 mm long. Before fixing in SJK or SKI2 cabinets, the brush strip must be shortened..



Package	Catalogue number
1 pc.	WZ-3504-22-00-000

SUPPLEMENTARY ACCESSORIES FOR WALL-MOUNTED CABINETS

Mounting plate

Fixed on mounting angles or mounting profiles in 19" spacing.

Material:

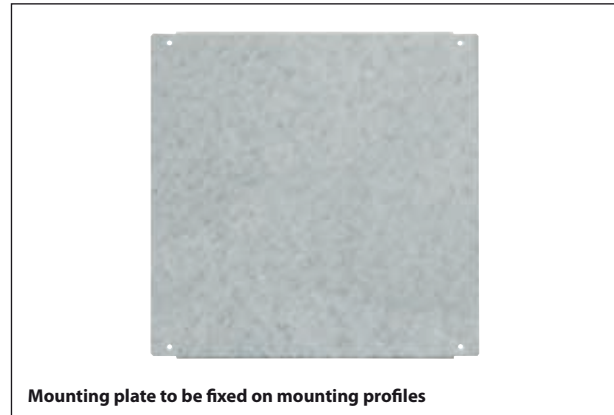
Al-Zn coated sheet steel

Scope of delivery:

Mounting plate with fixing accessories.

Height [U = 44.45 mm]	Catalogue number
4 U	WZ-0750-10-01-000
6 U	WZ-0750-10-02-000
10 U	WZ-0750-10-03-000
12 U	WZ-0750-10-04-000
15 U	WZ-0750-10-05-000
18 U	WZ-0750-10-06-000

Package: 1 pc.



Earthing elements for SU, SD2, SJ2, SJB cabinets

Earthing strip

- Fixed to the bottom plate of the cabinet by means of screws.
- With threaded M5 openings for fixing ducts.
- Material: zinc coated steel bar 30 x 4 x 170 mm

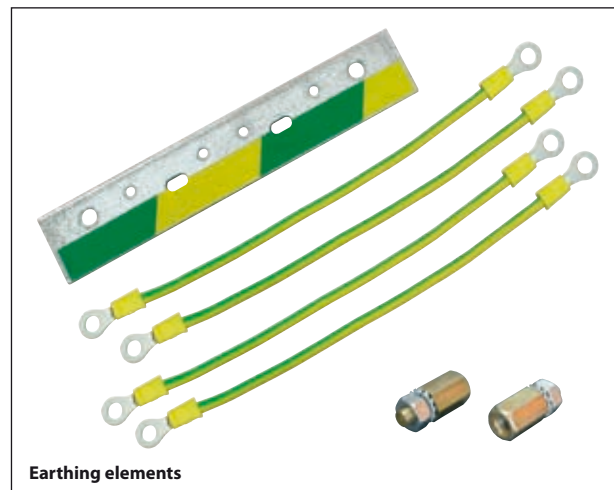
Earthing cables:

- Insulated copper cables with contact eyes for M5 screws.
- Material: copper wires, 6 mm² in diameter

Scope of delivery:

Earthing elements are supplied with fixing accessories for installation inside the cabinet.

Product name	Package	Catalogue number
Earthing strip for SD2, SJ2, SJB cabinets	1 pc.	WZ-3504-16-00-000
Earthing set for SU cabinet: - earthing strip with a set of fixing spacer bolts - 1pc. - earthing cable, 200 mm long - 4 pcs.	1 set	WZ-2733-13-00-000



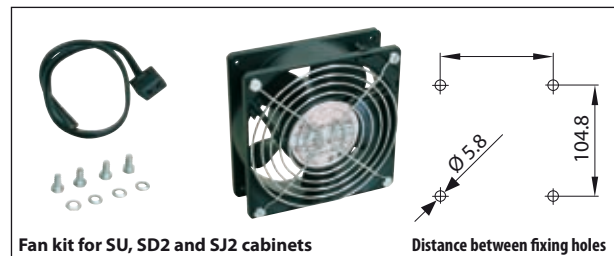
Fan kit for SU, SD2, SJ2 cabinets

Mounted it the top or bottom plate of SU, SD2 and SJ2 cabinets. Power supply: 230 V, 50 Hz; power: 22 W; capacity: 165 m³/h; noise level: ca 40 dB

Scope of delivery:

Set: 1 fan with protection grid, power lead 1.0 m long, fixing accessories.

Package	Catalogue number
1 set	WN-0200-04-00-000



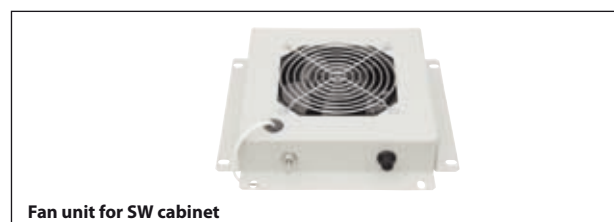
Fan unit for SW cabinet

The fan unit is fixed to top or bottom plate of SW cabinet. Power supply: 230 V, 50 Hz; power: 22 W; capacity: 165 m³/h ; noise level: ca 40 dB

Scope of delivery:

Fan unit with power supply cable 1,5 m without plug

Package	Catalogue number
1 pc.	WZ-0405-50-00-011



SUPPLEMENTARY ACCESSORIES FOR WALL-MOUNTED CABINETS

Cross profile

Intended for fixing cables in SU, SD2, SJ2, SW, SWJ wall mounted cabinets.

Horizontally mounted to the rear wall of the cabinet.

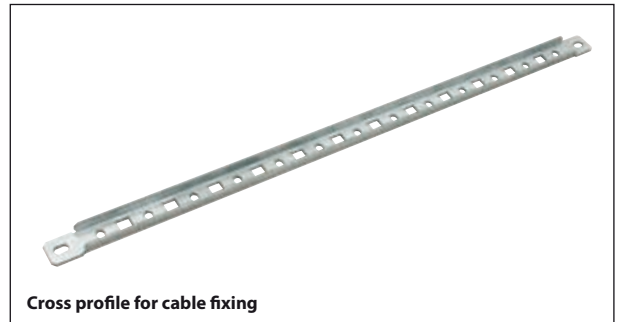
Material:

Al-Zn coated sheet steel

Scope of delivery:

Cross profile with fixing accessories.

Package	Catalogue number
1 pc.	WZ-2048-24-01-000



Wall-fastening brackets

Fixed to openings in the rear wall of SU, SD2, SJ2, SW, SWJ wall mounted cabinets. For one cabinet it is necessary to use 4 brackets of the same depth. Cabinets can also be fastened directly to the wall without using brackets.

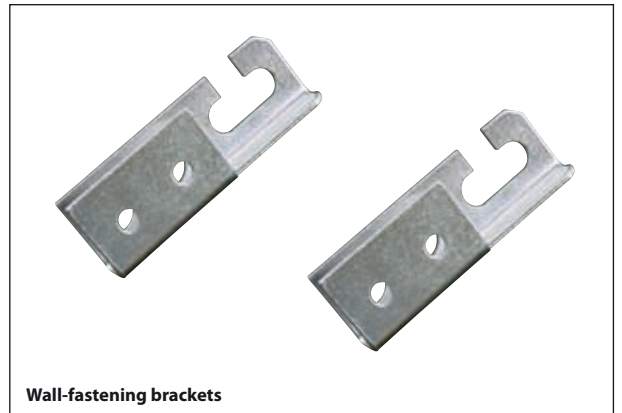
Material:

Zinc-coated sheet steel

Scope of delivery:

Set of 4 brackets with screws, washers and nuts for fixing the cabinet to the wall.

Type of brackets	Package	Catalogue number
Brackets 20 mm deep	1 set = 4 pc.	WZ-2048-50-01-000
Brackets 40 mm deep	1 set = 4 pc.	WZ-2048-50-02-000



Perforated blanking plate and filtering insert for SWJ cabinet

Dimensions: 350 x 90 mm

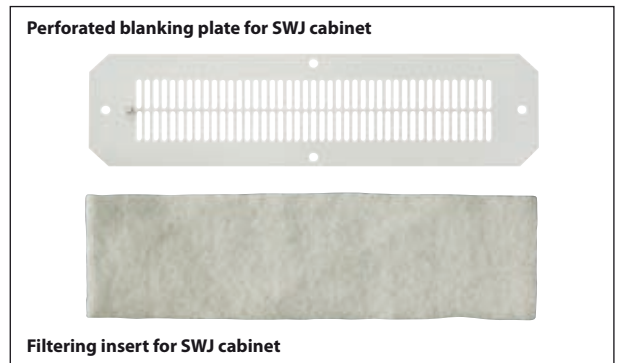
Material:

Sheet steel, filtering fibre

Scope of delivery:

Blanking plate and filtering insert should be ordered separately.

Type of element	Package	Catalogue number
Perforated blanking plate	1 pc.	WZ-0429-06-00-011
Filtering insert	1 pc.	WZ-0429-06-01-000



Filtering insert for SW cabinet

To be installed under the frame with a grid in SW cabinet.

Dimensions: 270 x 270 mm

Scope of delivery:

Filtering insert

Package	Catalogue number
1 pc.	WZ-0405-11-00-000



OPEN RACKS



SRS, SRD 19" OPEN RACKS

Intended for installations which do not require full housing

- SRS rack has one 19" frame, while SRD rack has double 19" frame.
- In both types of racks it is possible to have optional adjustment of 19" frame position.
- Modular design based on horizontal aluminium profiles and vertical steel posts.
- Open racks are set on levelling feet.
- Various supplementary accessories are available as for data telecom cabinets - castors, shelves, drawers, power strips etc.

Technical data

Material:

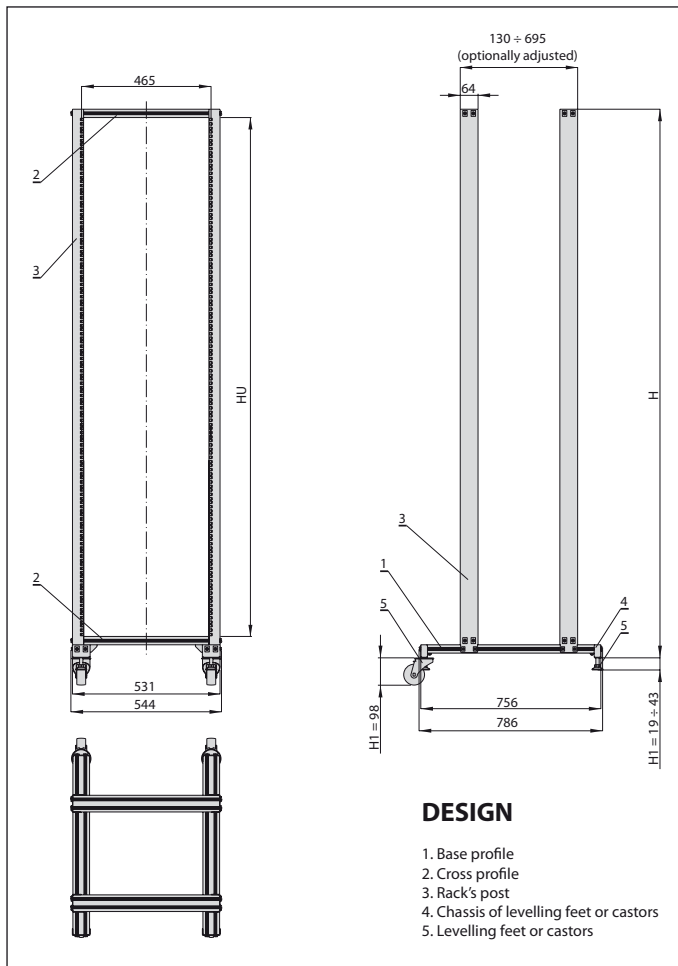
Sheet steel,
aluminium profile 60 x 30 mm

Surface finish:

Textured powder paint, light grey (RAL 7035).
All other colour options on request.

Reference chart

HU [U = 44.45 mm]	H [mm]	Number of 19" frames	Maximum load capacity [kg]	Catalogue number
24 U	1177	1	100	WZ-1969-01-01-011
36 U	1709	1	100	WZ-1969-01-02-011
42 U	1975	1	100	WZ-1969-01-03-011
45 U	2109	1	100	WZ-1969-01-04-011
24 U	1177	2	150	WZ-1969-01-05-011
36 U	1709	2	150	WZ-1969-01-06-011
42 U	1975	2	150	WZ-1969-01-07-011
45 U	2109	2	150	WZ-1969-01-08-011



SRX 19" OPEN RACK

Intended for installations which do not require full housing

- Made of two 19" welded frames that are fastened to the double-part chassis with screws.
- Positioning of the frames is based on a 50 mm pitch pattern.
- Standard rack is placed on levelling feet.
- Possibility for using some elements of supplementary equipment for data telecom cabinets – castors, shelves, drawers, power strips etc.

Technical data

Material:

Sheet steel

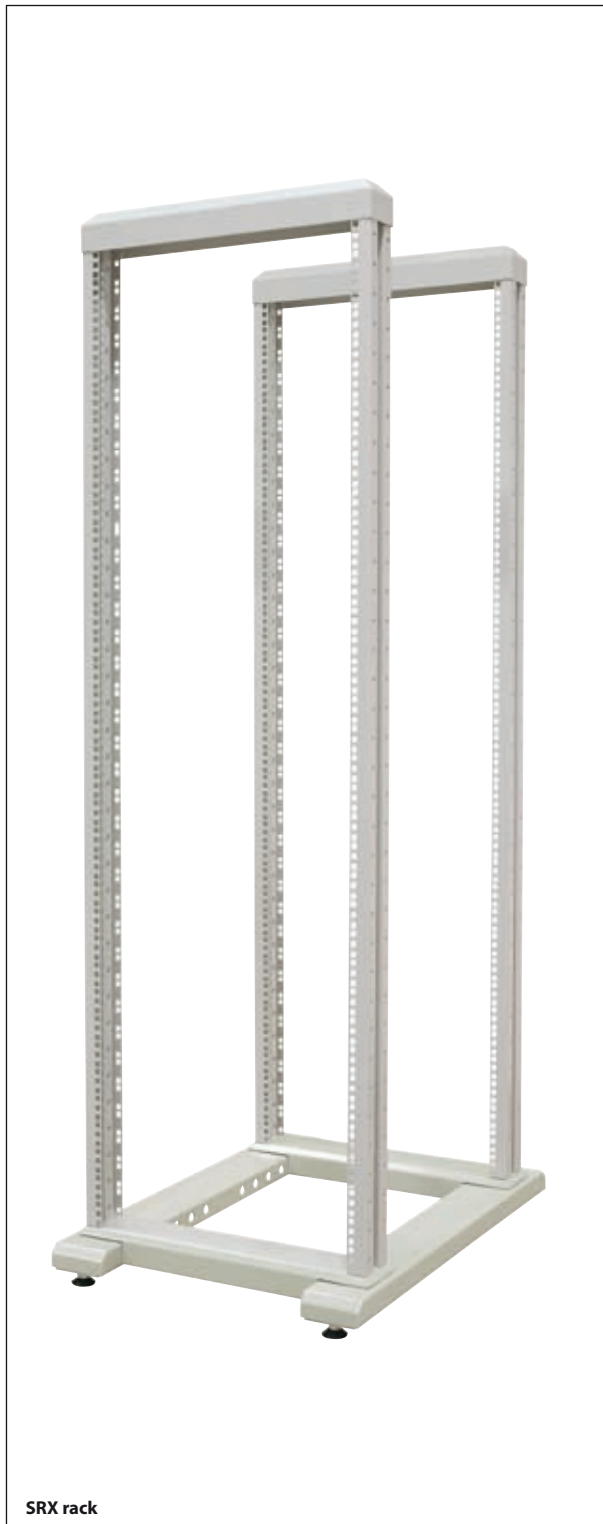
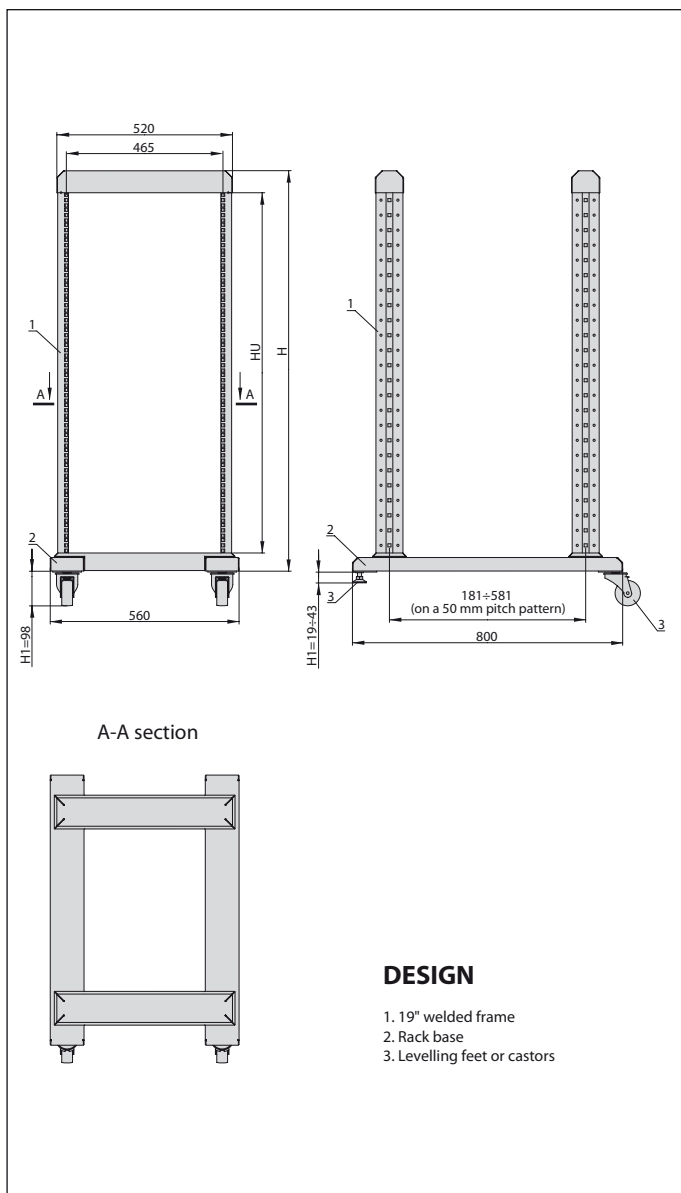
Surface finishing:

Textured powder paint, light grey (RAL 7035).

All other colour options on request.

Reference chart

HU [U = 44.45 mm]	H [mm]	Maximum load capacity [kg]	Catalogue number
24 U	1185	250	WZ-2493-01-01-011
36 U	1719	250	WZ-2493-01-02-011
42 U	1985	250	WZ-2493-01-04-011
45 U	2119	250	WZ-2493-01-05-011



SRX rack



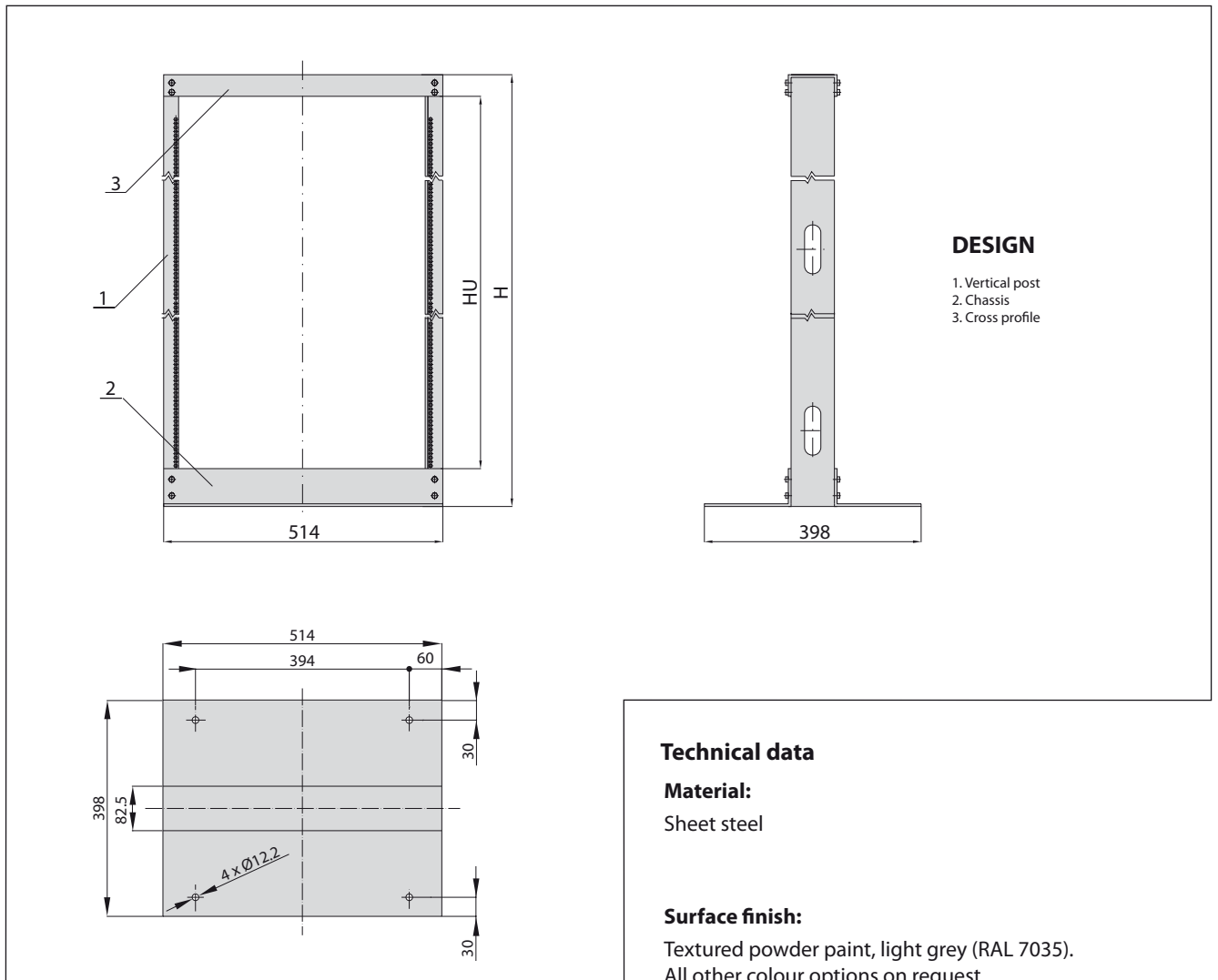
SRC 19" OPEN RACK

Intended for installations which do not require full housing

- The design is based on a single assembled 19" frame fixed by screws to two steel mounting angles forming the base.
- Chassis has openings to brace the rack to the floor.
- Optionally the rack can be equipped with wall-fastening brackets.
- Possibility to use some supplementary accessories as for data telecom cabinets: shelves, drawers, power strips etc.

Reference chart

HU [U = 44.45 mm]	H [mm]	Maximum load capacity [kg]	Catalogue number
31 U	1496	100	WZ-0008-01-01-011
41 U	1941	100	WZ-0008-01-02-011
45 U	2119	100	WZ-0008-01-03-011
54 U	2519	100	WZ-0008-01-04-011



SRK 19" OPEN RACK

Intended for installations which do not require full housing

- The design consists of two screwed 19" frames which are fixed to two strengthened mounting angles forming the base.
- The distance of the frames can be changed by positioning at 50 mm steps.
- In the standard version the open rack is set on four adjustable feet.
- Roof and connectors for joining upper parts of both 19" frames can be ordered as supplementary accessories.
- Possibility to use some supplementary accessories as for data telecom cabinets: castors, shelves, drawers, power strips etc.

Technical data

Material:

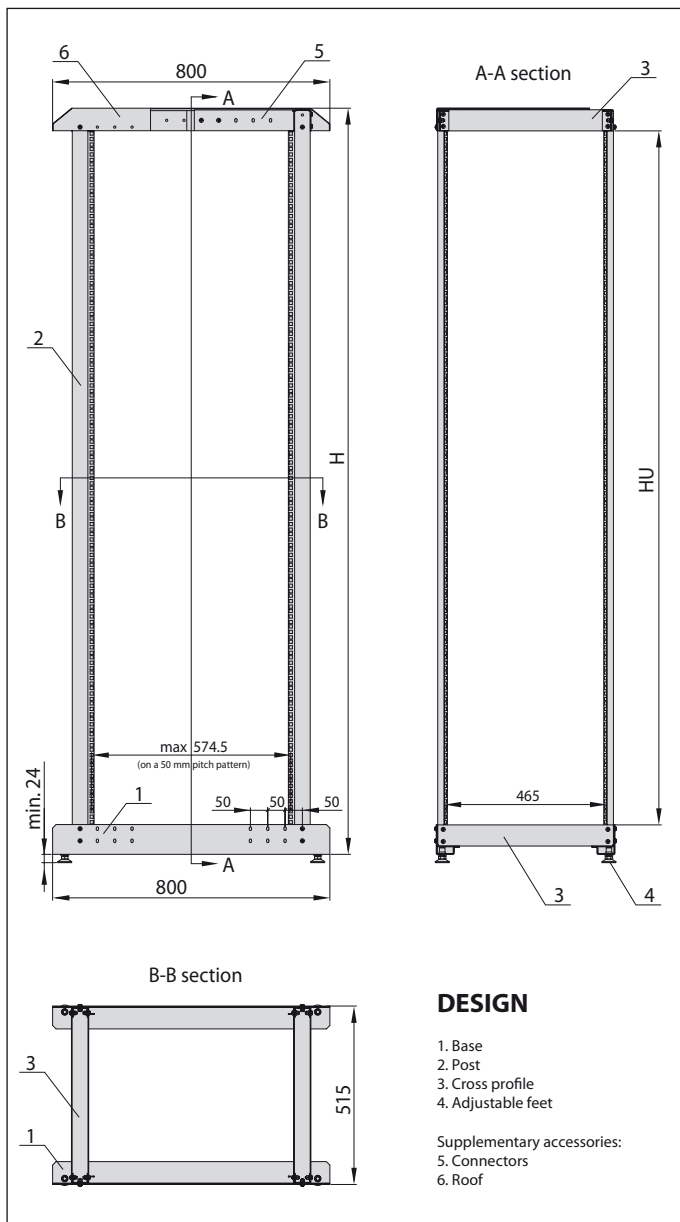
Sheet steel

Surface finishing:

Textured powder paint, light grey (RAL 7035).
Application of other colours on request.

Reference chart

HU [U = 44.45 mm]	H [mm]	Maximum load capacity [kg]	Catalogue number
24 U	1190	110	WZ-2378-01-24-011
36 U	1724	110	WZ-2378-01-36-011
42 U	1990	110	WZ-2378-01-42-011
45 U	2124	110	WZ-2378-01-45-011



SUPPLEMENTARY ACCESORIES FOR SRK 19" OPEN RACK

Universal set of connectors for SRK open rack

For connecting upper 19" frames of SRK open rack in order to stiffen the rack.

Depending on the distance between the frames, 287 mm and 383 mm or 287 mm and 283 mm long connectors are used.

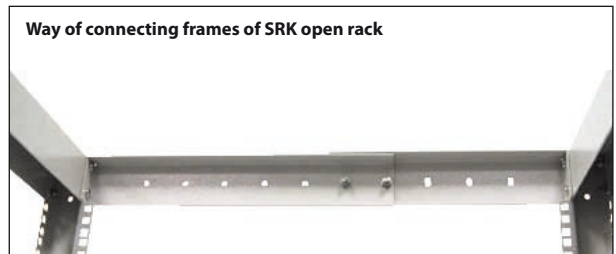
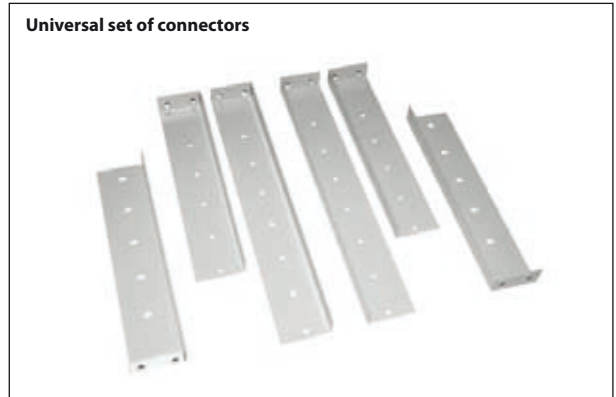
Material:

Sheet steel powder painted in RAL 7035.

Scope of delivery:

Set of 3 pairs of connectors with fixing accessories. The connectors are 283, 287 or 383 mm long.

Package	Catalogue number
1 set	WZ-2378-19-00-011



Roof for SRK open rack

For protection of equipment installed in open racks and to strengthen the structure.

Material:

Sheet steel powder painted in RAL 7035.

Scope of delivery:

Roof with fixing accessories.

Package	Catalogue number
1 pc.	WZ-2378-07-00-011



SUPPLEMENTARY ACCESSORIES



DRAWER WITH COMPACT KEYBOARD



PW FAN UNIT



PWD FAN UNIT



POWER STRIP



**MICROPROCESOR PANEL
FOR FAN CONTROL**



PULL-OUT SHELF II

PLINTHS

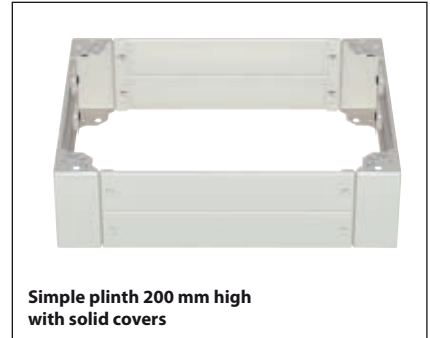
Plinths for cabinets SZB, OTS1, SZB SE, SZB SEI.

They consist of corners and removable covers.

The design of the plinth makes it possible to remove and replace covers even when the cabinet is heavy-loaded with equipment.

Simple plinth

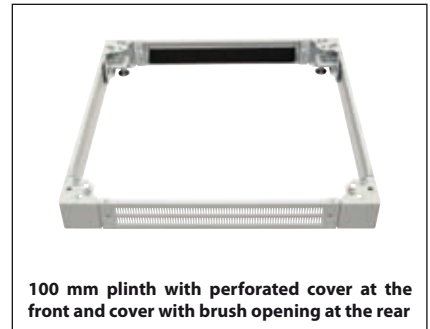
- Possibility of fixing into the room's floor.
- Possibility of adding rubber vibro-shock absorbers.
- It consists of the following elements ordered separately:
 - Plinth 100 mm high:
 - 4 simple corners 100 mm high, 4 covers (each may be solid, perforated or with brush opening), 4 vibro-shock absorbers (option).
 - Plinth 200 mm high:
 - 4 simple corners 200 mm high, 8 covers (each may be solid, perforated or with brush opening), 4 vibro-shock absorbers (option).



Simple plinth 200 mm high with solid covers

Plinth with levelling option

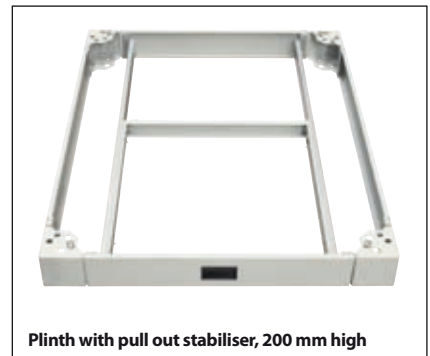
- Levelling by means of feet.
- It consists of the following elements ordered separately:
 - Plinth 100 mm high:
 - 4 corners 100 mm high with levelling option (with feet), 4 covers (each may be solid, perforated or with brush opening).
 - Plinth 200 mm high:
 - 4 corners 200 mm high with levelling option (with feet), 8 covers (each may be solid, perforated or with brush opening).



100 mm plinth with perforated cover at the front and cover with brush opening at the rear

Plinth with pull out stabiliser

- Equipped with a stabiliser that protects the cabinet from tipping during the ejection of servers or other heavy devices installed on moving guides.
- Used where the cabinet cannot be attached to the floor.
- It consists of the following elements ordered separately:
 - Plinth 100 mm high:
 - 4 simple corners 100 mm high, 3 covers (each may be solid, perforated or with brush opening), 1 assembly consisting of pull out stabiliser.
 - Plinth 200 mm high:
 - 4 simple corners 200 mm high, 7 covers (each may be solid, perforated or with brush opening), 1 assembly consisting of pull out stabiliser.



Plinth with pull out stabiliser, 200 mm high

Assembly consisting of pull out stabiliser

It consists of a stabiliser with two guides. The assembly height is 100 mm. It can also be used for 200 mm plinths.

Material:

Stabiliser - sheet steel, powder painted in light grey (RAL 7035) or black (RAL 9005).

Guides - sheet steel Al-Zn coated

Scope of delivery:

Assembly consisting of pull out stabiliser with fixing accessories.

For plinth		Catalogue number	
width [mm]	height [mm]	RAL 7035	RAL 9005
800	1000	WZ-1718-A9-01-011	WZ-1718-A9-01-161
600	1000	WZ-1718-A9-02-011	WZ-1718-A9-02-161

Package: 1 set



PLINTHS

Covers

There are three types of covers available - see the picture. Each type has the standard height of 99 mm. Covers can be removed even when the cabinet is loaded with equipment.

Material:

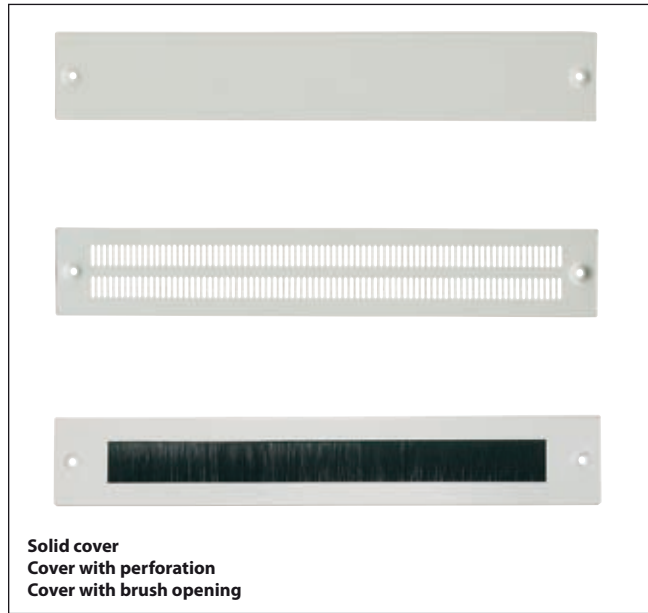
Sheet steel, powder painted in light grey (RAL 7035) or black (RAL 9005).

Scope of delivery:

Cover with fixing accessories.

Type of cover	Length of cover [mm]	Length of plinth's side [mm]	Catalogue number	
			RAL 7035	RAL 9005
Solid cover	800	1000	WZ-1982-03-08-011	WZ-1982-03-08-161
	600	800	WZ-1982-03-07-011	WZ-1982-03-07-161
	400	600	WZ-1982-03-05-011	WZ-1982-03-05-161
Cover with perforation	800	1000	WZ-1982-05-08-011	WZ-1982-05-08-161
	600	800	WZ-1982-05-07-011	WZ-1982-05-07-161
	400	600	WZ-1982-05-05-011	WZ-1982-05-05-161
Cover with brush opening	800	1000	WZ-1982-04-08-011	WZ-1982-04-08-161
	600	800	WZ-1982-04-07-011	WZ-1982-04-07-161
	400	600	WZ-1982-04-05-011	WZ-1982-04-05-161

Package: 1 pc.



Solid cover
Cover with perforation
Cover with brush opening

Corners

They are available in two types:

- Simple corners – they can be fixed to the room's floor and provided with rubber vibro shock absorbers.
- Corners with levelling option – with feet.

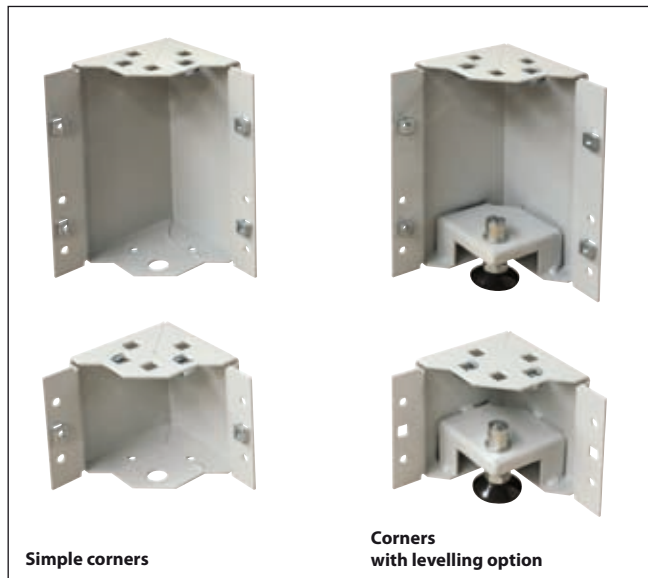
Material:

Corners: sheet steel powder painted in light grey (RAL 7035).
Levelling feet: see page 81.

Scope of delivery:

Set of 4 corners include fixing accessories for plinth covers and assembling a plinth to the cabinet. Corners with levelling option are delivered with adjustable feet.

Type of element	Height [mm]	Package	Catalogue number	
			RAL 7035	RAL 9005
Set of 4 simple corners	200	1 kpl.	WZ-2174-05-02-011	WZ-2174-05-02-161
	100	1 kpl.	WZ-1982-08-02-011	WZ-1982-08-02-161
Set of 4 corners with levelling option	200	1 kpl.	WZ-2402-05-02-011	WZ-2402-05-02-161
	100	1 kpl.	WZ-2401-05-02-011	WZ-2401-05-02-161



Simple corners

Corners with levelling option

Vibro-shock absorbers

The simple plinths can be optionally equipped with vibroshock absorbers. Plinth with vibro-shock absorbers should be fixed into the room's floor. Four vibro-shock absorbers are needed for one plinth.

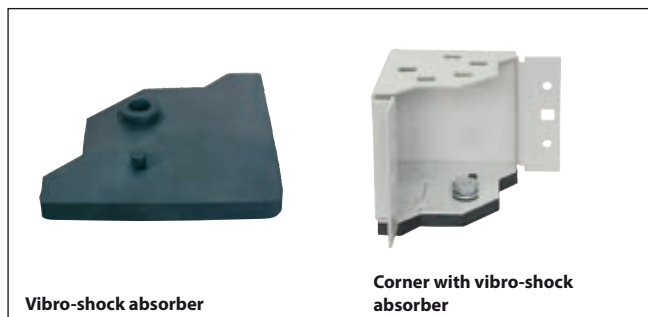
Material:

10 mm thick rubber.

Scope of delivery:

Vibro-shock absorber (1 pc.) without fixing accessories.

Package	Catalogue number
1 pc.	M1Z-00-0048



Vibro-shock absorber

Corner with vibro-shock absorber



CASTORS

Castors 150

For cabinets SZB, OTS1, SZB PC and SZT-2 as well as for open racks SRS, SRD, SRK and SRX.

One cabinet or open rack requires 2 locking and 2 nonlocking castors. Maximum load capacity of 4 castors: 400 kg*

Scope of delivery:

Single castor with screws and washers for fixing into the cabinet or rack.

Type of element	Package	Catalogue number
Locking castor 150	1 pc.	WZ-SB72-00-01-000
Non-locking castor 150	1 pc.	WZ-SB72-00-02-000



Castors 300

For cabinets SZB, OTS1, SZB PC, SZB SE, SZB SEI.

One cabinet requires 2 locking, 2 non-locking castors and 2 strengthening bars. One bar with locking castors is fixed at the cabinet's front, and the other bar with non-locking castors at the rear.

Maximum load capacity of 4 castors: 600 kg*

Surface finish:

Strengthening bar for castors - textured powder painted light grey (RAL 7035).

Scope of delivery:

These are available as individual elements:

- castors with screws and washers for fixing into the strengthening bar,
- supporting bar for castors with screws and washers for fixing into the bottom plate of the cabinet.

Type of element	Package	Catalogue number	
Locking castor 300 steering type	1 pc.	WZ-SB73-00-01-000	
Non-locking castor 300 fixed type	1 pc.	WZ-SB73-00-02-000	
Strengthening bar for cabinet's width	600 mm	1 pc.	WZ-SB74-00-01-011
	800 mm	1 pc.	WZ-SB74-00-02-011



Castors set for SZE2 PC cabinet

Assembling castors to the cabinet by means of two strengthening bars as in castors 300.

Loading capacity: 600 kg*

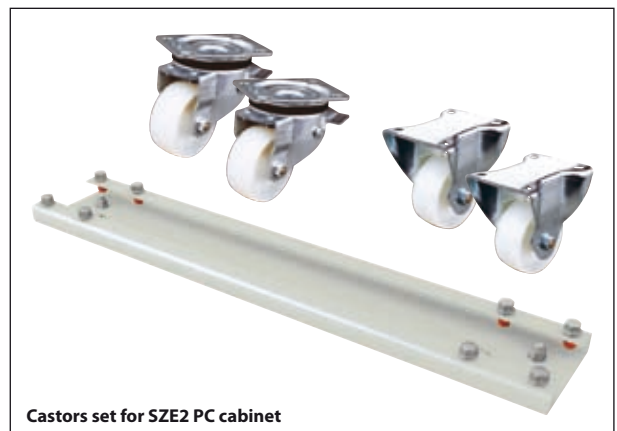
Surface finishing:

Strengthening bar for castors -- textured powder paint light grey (RAL 7035).

Scope of delivery:

2 strengthening bars, 2 locking castors, 2 non-locking castors, mounting elements.

Product name	Package	Catalogue number
Castors set for SZE2 PC cabinet	1 set.	WZ-3004-11-00-011



* Applicable to castors only. Loading capacity of the cabinet (or open rack) is specified in the description.

LEVELLING FEET

Levelling feet for cabinets and racks.

Thread: M12x38

Ways of adjustment:

- with 19 mm open ended spanner,
- with 5 mm wrench spanner (imbus).

Material:

Adjustable screw – zinc-coated steel.

Base - plastic.

Scope of delivery:

Adjustable feet - 1 pc.

Package	Catalogue number
1 pc.	M1F-05-0003



REINFORCEMENT OF BOTTOM PLATE

Sheet metal parts enhancing load capacity of SZB SE server cabinet set on the levelling feet.

They must be used, if the total weight of the equipment mounted in the cabinet exceeds 1000 kg.

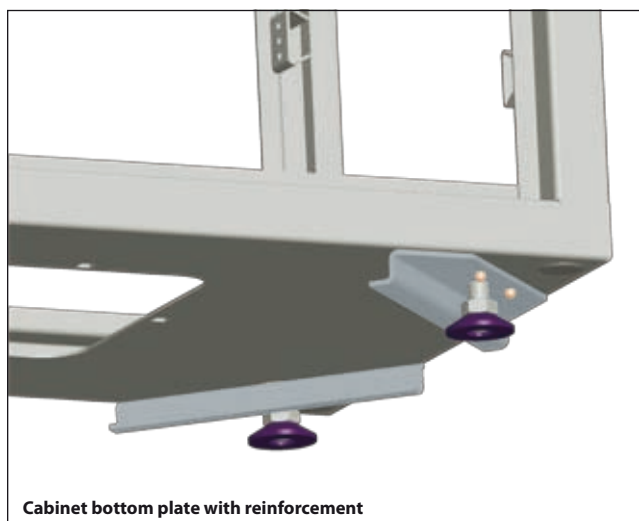
Material:

Sheet steel hot-dip galvanized

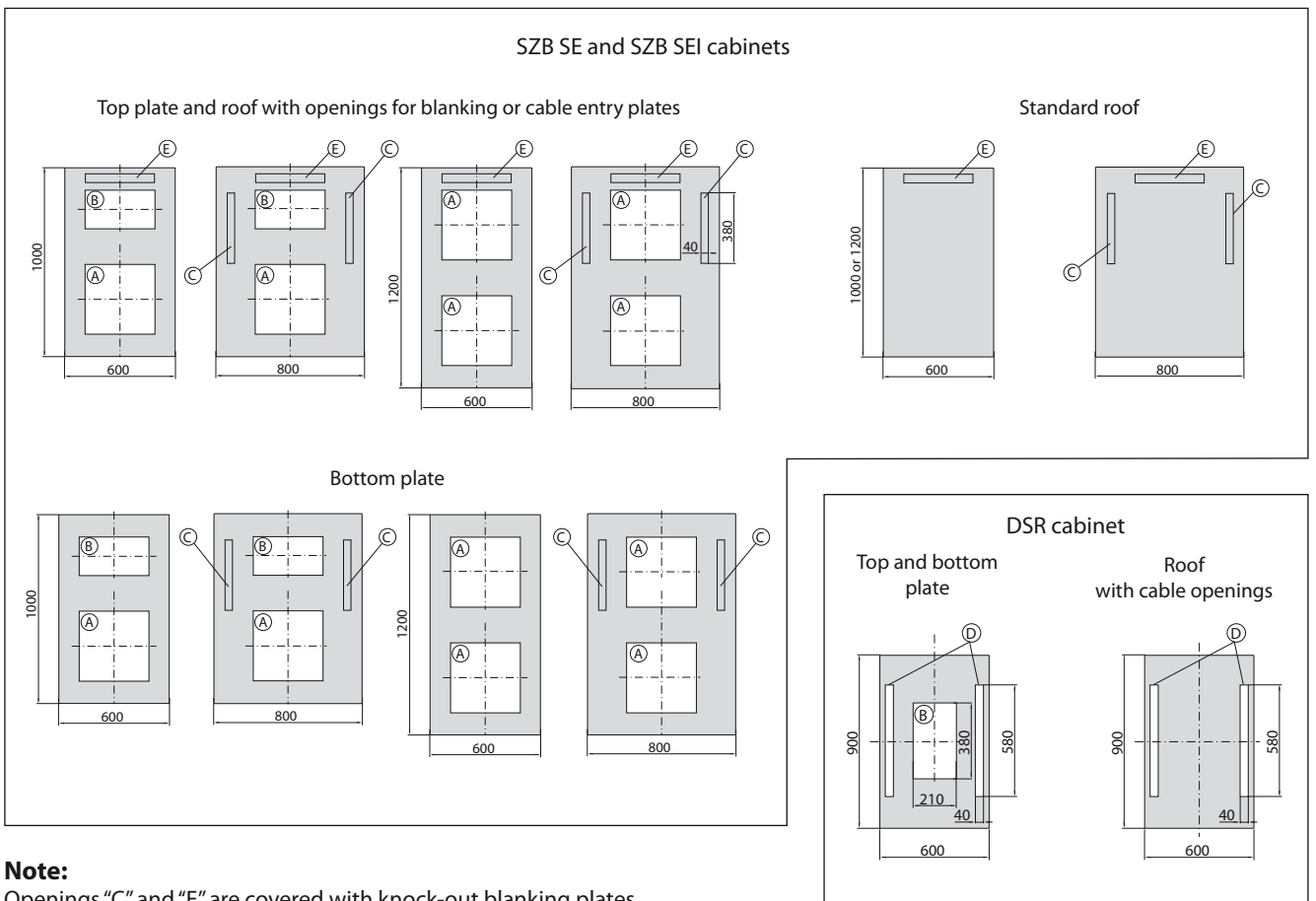
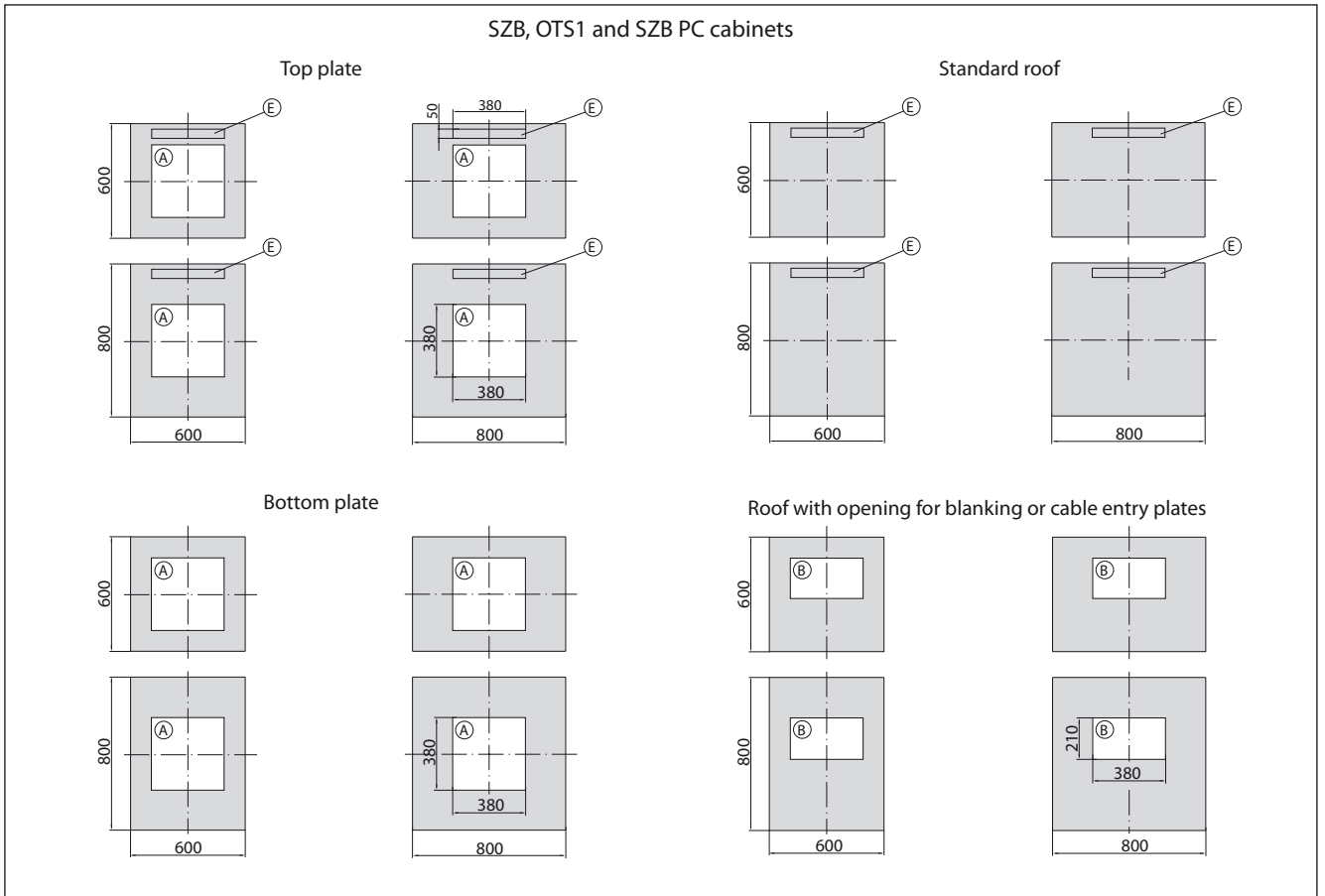
Scope of delivery:

Set of 4 reinforcements with fixing accessories.

Package	Catalogue number
1 set	WZ-1718-99-00-000



BLANKING AND CABLE ENTRY PLATES AND STRIPS FOR BOTTOM PLATE, TOP PLATE AND ROOF



Note: Openings "C" and "E" are covered with knock-out blanking plates.

BLANKING AND CABLE ENTRY PLATES AND STRIPS FOR BOTTOM PLATE, TOP PLATE AND ROOF

Appliances in accordance with drawings on page 82.

Material:

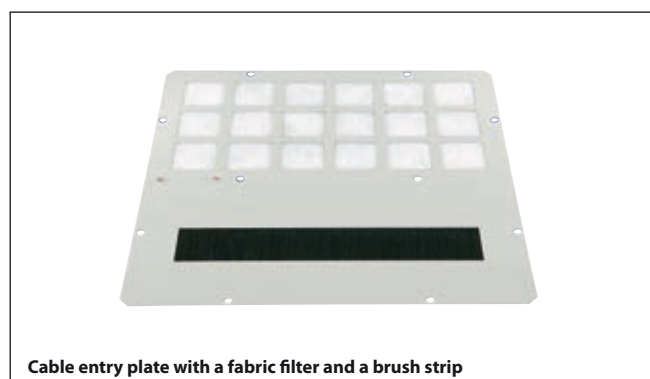
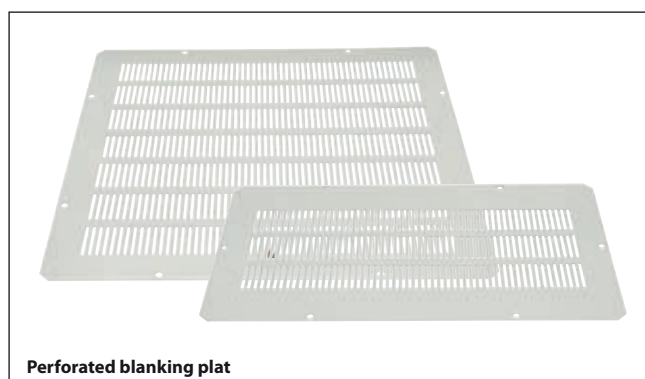
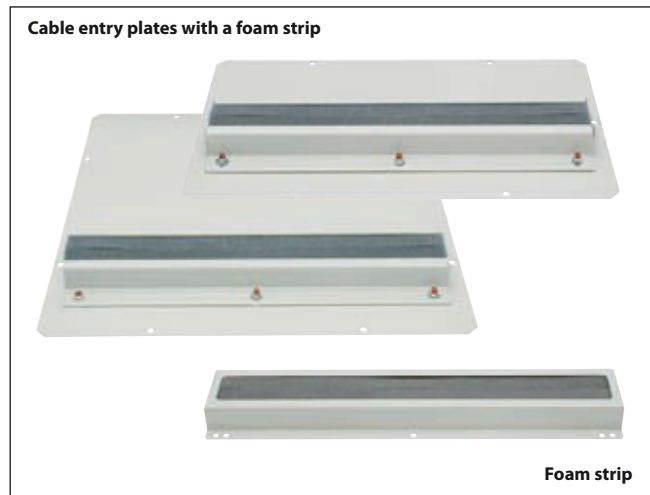
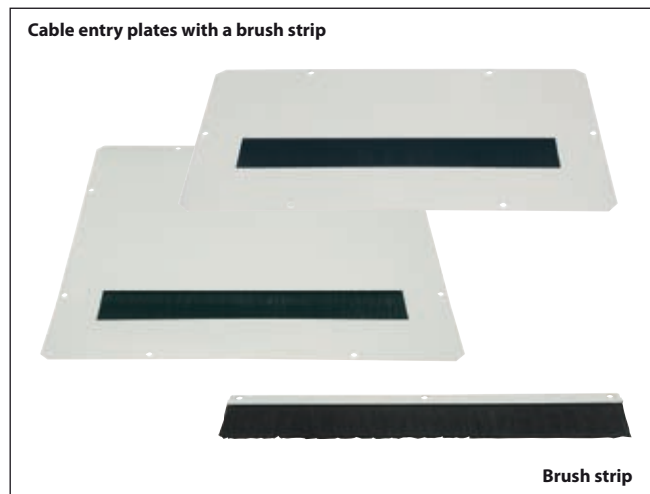
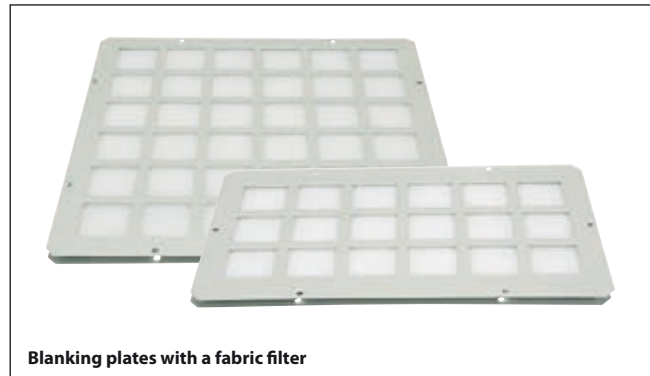
Sheet steel textured powder painted in light grey (RAL 7035) or black (RAL 9005).

Scope of delivery:

Blanking /cable entry plate or strip with fixing accessories.

Type of element	For opening	Catalogue number	
		RAL 7035	RAL 9005
Solid blanking plate	A	WZ-1718-38-01-011	WZ-1718-38-01-161
	B	WZ-1718-38-02-011	WZ-1718-38-02-161
	C	WZ-1718-09-02-011	WZ-1718-09-02-161
	D	WZ-1718-09-01-011	WZ-1718-09-01-161
Perforated blanking plate	A	WZ-1718-39-01-011	WZ-1718-39-01-161
	B	WZ-1718-39-02-011	WZ-1718-39-02-161
Blanking plate with a fabric filter	A	WZ-1718-42-01-011	WZ-1718-42-01-161
	B	WZ-1718-42-02-011	WZ-1718-42-02-161
Cable entry plate with a brush strip	A	WZ-1718-37-01-011	WZ-1718-37-01-161
	B	WZ-1718-37-02-011	WZ-1718-37-02-161
Brush strip	C, E	WZ-1718-08-02-000	WZ-1718-08-02-000
	D	WZ-1718-08-01-000	WZ-1718-08-01-000
Cable entry plate with a foam strip	A	WZ-1718-40-01-011	WZ-1718-40-01-161
	B	WZ-1718-40-02-011	WZ-1718-40-02-161
Foam strip	C	WZ-1718-07-02-011	WZ-1718-07-02-161
	D	WZ-1718-07-01-011	WZ-1718-07-01-161
Cable entry plate with a fabric filter and a brush strip	A	WZ-SB76-00-00-011	WZ-SB76-00-00-161

Package: 1 pc.



SHELVES

Shelves fixed on two 19" mounting profiles

Available in fixed and pull-out version.

19" assembly, 2 U height.

Maximum static load capacity:

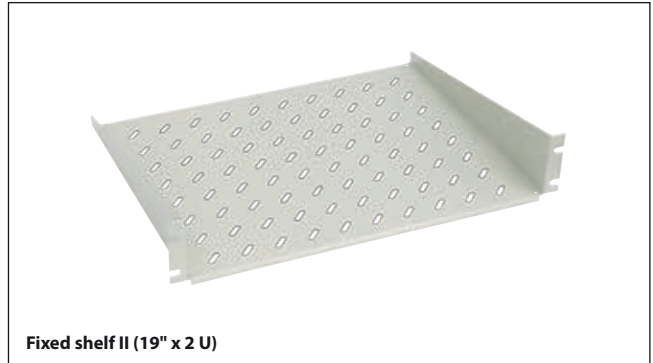
- Fixed shelf: 25 kg (superficial weight)
- Pull out shelf: 20 kg (superficial weight)

Material:

Sheet steel textured powder painted in light grey (RAL 7035) or black (RAL 9005).

Scope of delivery:

Fixed or pull out shelf with fixing accessories for assembling into the mounting profiles.



Fixed shelf II (19" x 2 U)



Pull out shelf II (19" x 2 U)

Type of shelf	Dimensions [mm]		Catalogue number	
	Usable width	Usable depth	RAL 7035	RAL 9005
Fixed shelf II	446	650	WZ-SB00-49-01-011	WZ-SB00-49-01-161
		550	WZ-SB00-49-02-011	WZ-SB00-49-02-161
		450	WZ-SB00-49-03-011	WZ-SB00-49-03-161
		350	WZ-SB00-49-04-011	WZ-SB00-49-04-161
		250	WZ-SB00-49-05-011	WZ-SB00-49-05-161
Pull out shelf II	416	555	WZ-SB28-00-01-011	WZ-SB28-00-01-161
		455	WZ-SB28-00-02-011	WZ-SB28-00-02-161
		405	WZ-SB28-00-03-011	WZ-SB28-00-03-161
		355	WZ-SB28-00-04-011	WZ-SB28-00-04-161

Package: 1 pc.

Shelves fixed on four 19" mounting profiles

Available in fixed and pull-out version.

Fixing on two pairs of 19" mounting profiles (to the side openings).

Usable height employed in the cabinet: 1 U

Maximum static load capacity:

- Fixed shelf: 100 kg (superficial weight)
- Pull out shelf: 25 kg (superficial weight)

Material:

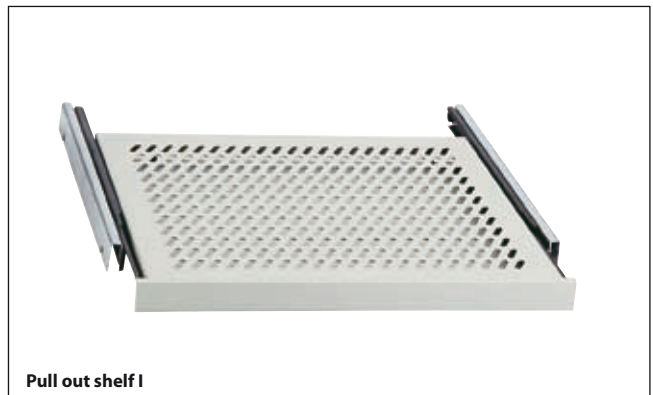
Sheet steel textured powder painted in light grey (RAL 7035) or black (RAL 9005).

Scope of delivery:

Fixed or pull out shelf with fixing accessories for assembling into the mounting profiles.



Fixed shelf I



Pull out shelf I

Type of shelf	Dimensions [mm]		Catalogue number	
	Usable width	Usable depth	RAL 7035	RAL 9005
Fixed shelf I	465	650	WZ-SB00-48-01-011	WZ-SB00-48-01-161
		550	WZ-SB00-48-02-011	WZ-SB00-48-02-161
		450	WZ-SB00-48-03-011	WZ-SB00-48-03-161
		350	WZ-SB00-48-04-011	WZ-SB00-48-04-161
		250	WZ-SB00-48-05-011	WZ-SB00-48-05-161
Pull out shelf I	416	555	WZ-SB27-00-01-011	WZ-SB27-00-01-161
		455	WZ-SB27-00-02-011	WZ-SB27-00-02-161
		405	WZ-SB27-00-03-011	WZ-SB27-00-03-161
		355	WZ-SB27-00-04-011	WZ-SB27-00-04-161

Package: 1 pc.



SHELVES

Shelves fixed on six 19" mounting profiles

For SZB SE and SZB SEI server cabinets.

Available in fixed and telescopic versions.

Fixing on three pairs of 19" mounting profiles.

Usable height employed in a cabinet: 1 U for fixed shelf and 2 U for telescopic shelf

Maximum static load capacity:

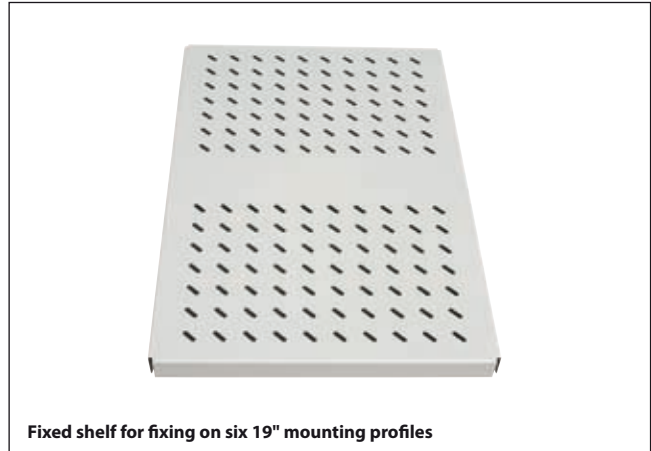
- Fixed shelf: 200 kg (superficial weight)
- Telescopic shelf: 140 kg (superficial weight)

Material:

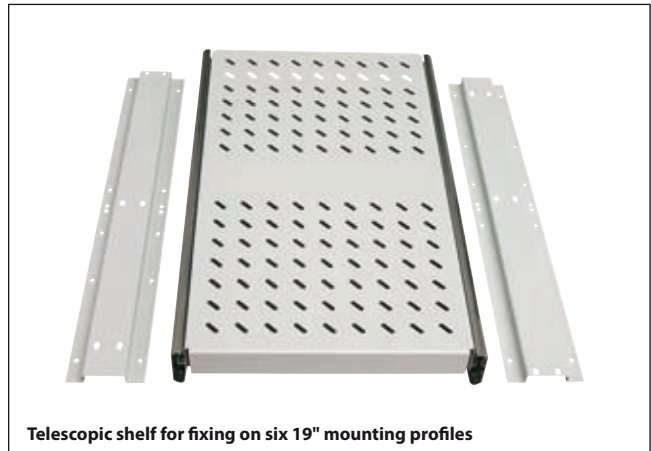
Sheet steel textured powder painted in light grey (RAL 7035) or black (RAL 9005).

Scope of delivery:

Fixed or telescopic shelf with fixing accessories for assembling into the mounting profiles.



Fixed shelf for fixing on six 19" mounting profiles



Telescopic shelf for fixing on six 19" mounting profiles

Type of shelf	Dimensions [mm]		Catalogue number	
	Usable width	Total depth	RAL 7035	RAL 9005
Fixed shelf	465	700	WZ-1718-51-00-011	WZ-1718-51-00-161
Telescopic shelf	392	700	WZ-1718-31-00-011	WZ-1718-31-00-161

Package: 1 pc.

Shelf with adjustable depth

On two pairs of 19" mounting profiles, usable height 1 U.

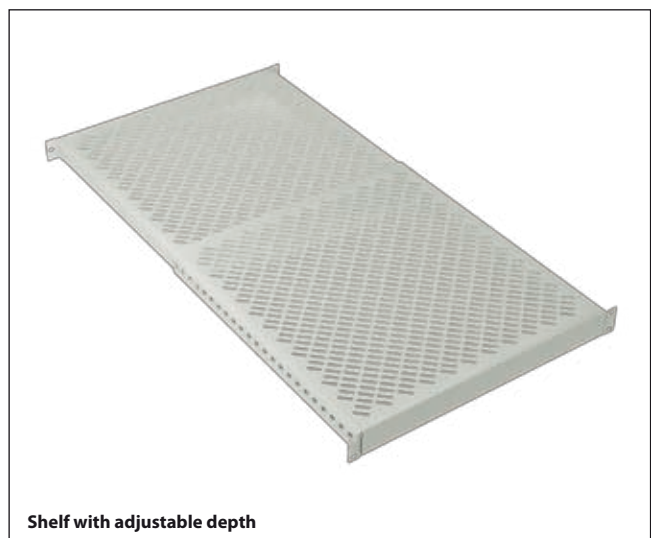
Maximum static load: 150 kg (surface load)

Material:

Sheet steel textured powder painted in light grey (RAL 7035) or black (RAL 9005).

Scope of delivery:

Shelf with fixing accessories for assembling into the mounting profiles.



Shelf with adjustable depth

Type of shelf	Dimensions [mm]		Catalogue number	
	Usable width	Total depth	RAL 7035	RAL 9005
Shelf with adjustable depth	440	500 - 900	WZ-3074-83-00-011	WZ-3074-83-00-161
	440	350 - 600	WZ-3074-83-04-011	WZ-3074-83-04-161

Package: 1 pc.



KEYBOARD DRAWERS

Drawer with touchpad keyboard

Drawer 19" x 1 U x 400 mm with compact touchpad keyboard. Drawer equipped with lock with cylindrical insert.

Material of drawer:

Sheet steel textured powder painted in light grey (RAL 7035) or black (RAL 9005).

Scope of delivery:

Drawer with keyboard set, fixing accessories for assembling into the cabinet.

Package	Colour	Catalogue number
1 pc.	RAL 7035	WZ-SB78-00-01-011
	RAL 9005	WZ-SB78-00-01-161



Drawer 19" x 1 U with touchpad keyboard

Drawer with trackball keyboard

Drawer 19" x 1 U x 400 mm with compact trackball keyboard. Drawer equipped with lock with cylindrical insert.

Material of drawer:

Sheet steel textured powder painted in light grey (RAL 7035) or black (RAL 9005).

Scope of delivery:

Drawer with keyboard set, fixing accessories for assembling into the cabinet.

Package	Colour	Catalogue number
1 pc.	RAL 7035	WZ-SB78-00-02-011
	RAL 9005	WZ-SB78-00-02-161



Drawer 19" x 1 U with trackball keyboard

Drawer with keyboard without pointing device

Drawer 19" x 1 U x 400 mm with compact keyboard without pointing device. Drawer equipped with lock with cylindrical insert.

Material of drawer:

Sheet steel textured powder painted in light grey (RAL 7035) or black (RAL 9005).

Scope of delivery:

Drawer with keyboard set, fixing accessories for assembling into the cabinet.

Package	Colour	Catalogue number
1 pc.	RAL 7035	WZ-SB78-00-03-011
	RAL 9005	WZ-SB78-00-03-161



Drawer 19" x 1 U with keyboard without pointing device

Universal drawer without keyboard

Drawer 19" x 1 U x 400 mm without keyboard. Internal dimensions: 378 x 262 x 36 mm. Drawer equipped with lock with cylindrical insert.

Material of drawer:

Sheet steel textured powder painted in light grey (RAL 7035) or black (RAL 9005).

Scope of delivery:

Drawer with fixing accessories for assembling into the cabinet.

Package	Colour	Catalogue number
1 pc.	RAL 7035	WZ-SB78-00-04-011
	RAL 9005	WZ-SB78-00-04-161



Universal drawer 19" x 1 U without keyboard



KEYBOARD HOUSING FOR SIZE2 PC CABINET

The housing makes it possible to maintain IP 54 of the cabinet at open door of the keyboard part.

Material:

Sheet steel powder painted in light grey (RAL 7035) or black (RAL 9005).

Scope of delivery:

Keyboard housing with fixing accessories.

Package	Colour	Catalogue number
1 pc.	RAL 7035	WZ-3259-08-00-011
	RAL 9005	WZ-3259-08-00-161



DOCUMENT DRAWER

Equipped with lock with patent insert.
19" assembly, height 2 U, depth 465 mm.
Internal dimensions: 460 x 413 x 55 mm.

Material:

Sheet steel textured powder painted in light grey (RAL 7035) or black (RAL 9005).

Scope of delivery:

Drawer with fixing accessories for assembling into the mounting profiles.

Package	Colour	Catalogue number
1 pc.	RAL 7035	WZ-SB67-00-00-011
	RAL 9005	WZ-SB67-00-00-161



DOCUMENT POCKET

For fixing on the cabinet's door.
A4 size, light grey (RAL 7035) colour.

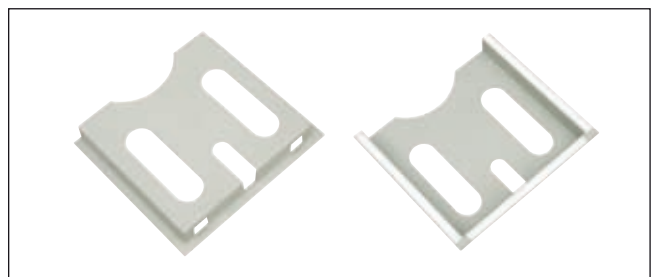
Material:

Plastic

Scope of delivery:

Drawer with self-adhesive fixing tape.

Package	Colour	Catalogue number
1 pc.	RAL 7035	WZ-SB00-40-00-011



19" BLANKING PLATES

For covering empty 19" space.

Material:

Sheet steel or sheet aluminium textured powder painted in light grey (RAL 7035) or black (RAL 9005).

Scope of delivery:

Blanking plate with fixing accessories.

Height [U = 44.45 mm]	Catalogue number		
	Steel blanking plate RAL 7035	Steel blanking plate RAL 9005	Aluminium blanking plate RAL 7035
1 U	WZ-SB00-33-01-011	WZ-SB00-33-01-161	WZ-SB00-32-01-011
1,5 U	WZ-SB00-33-15-011	WZ-SB00-33-15-161	WZ-SB00-32-15-011
2 U	WZ-SB00-33-02-011	WZ-SB00-33-02-161	WZ-SB00-32-02-011
3 U	WZ-SB00-33-03-011	WZ-SB00-33-03-161	WZ-SB00-32-03-011
4 U	WZ-SB00-33-04-011	WZ-SB00-33-04-161	WZ-SB00-32-04-011
5 U	WZ-SB00-33-05-011	WZ-SB00-33-05-161	WZ-SB00-32-05-011
6 U	WZ-SB00-33-06-011	WZ-SB00-33-06-161	WZ-SB00-32-06-011

Package: 1 pc.



VERTICAL MASKING PANELS

For covering space between front 19" mounting profiles and cabinet's sides (see pictures on pages 25).
Designed for cabinets: SZB, OTS1, SZB PC, SZB SE, SZB SEI.

Material:

Sheet steel textured powder painted in light grey (RAL 7035) or black (RAL 9005).

Scope of delivery:

Two vertical masking panels with fixing accessories.

Height [U = 44.45 mm]	Catalogue number	
	RAL 7035	RAL 9005
47 U	WZ-1718-59-01-011	WZ-1718-59-01-161
45 U	WZ-1718-59-02-011	WZ-1718-59-02-161
42 U	WZ-1718-59-03-011	WZ-1718-59-03-161
39 U	WZ-1718-59-09-011	WZ-1718-59-09-161
36 U	WZ-1718-59-05-011	WZ-1718-59-05-161
33 U	WZ-1718-59-08-011	WZ-1718-59-08-161
30 U	WZ-1718-59-11-011	WZ-1718-59-11-161
27 U	WZ-1718-59-13-011	WZ-1718-59-13-161
24 U	WZ-1718-59-07-011	WZ-1718-59-07-161
18 U	WZ-1718-59-15-011	WZ-1718-59-15-161
15 U	WZ-1718-59-16-011	WZ-1718-59-16-161

Package: 1 set = 2 pcs.



Vertical masking panels for cabinets 800 mm wide



MOUNTING PROFILES, MOUNTING ANGLES

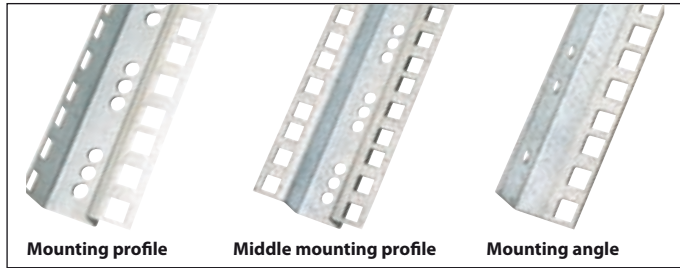
For installing 19" equipment in cabinets SZB, OTS1, SZB PC, SZE2 PC, SZB SE, SZB SEI and DSR. In cabinets 600 mm wide, mounting profiles bars are fixed directly to the frame; in cabinets 800 mm wide, in order to achieve 19" spacing, it is necessary to use outriggers. Note: Mounting profiles and mounting angles for wall-mounted cabinets are described on page 68.

Material:

Al-Zn coated sheet steel

Scope of delivery:

Mounting bar or mounting angle without fixing accessories. (Fixing accessories should be ordered separately.)



Height [U = 44.45 mm]	Catalogue number		
	Mounting profile	Middle mounting profile	Mounting angle
47 U	WZ-1391-04-01-000	WZ-SB00-53-13-000	WZ-SB00-30-13-000
45 U	WZ-SB00-01-01-000	WZ-SB00-53-01-000	WZ-SB00-30-01-000
42 U	WZ-SB00-01-02-000	WZ-SB00-53-02-000	WZ-SB00-30-02-000
40 U	WZ-SB00-01-03-000	WZ-SB00-53-03-000	WZ-SB00-30-03-000
39 U	WZ-SB00-01-13-000	WZ-SB00-53-14-000	WZ-SB00-30-14-000
38 U	WZ-SB00-01-04-000	WZ-SB00-53-04-000	WZ-SB00-30-04-000
36 U	WZ-SB00-01-05-000	WZ-SB00-53-05-000	WZ-SB00-30-05-000
33 U	WZ-SB00-01-14-000	WZ-SB00-53-15-000	WZ-SB00-30-15-000
32 U	WZ-SB00-01-06-000	WZ-SB00-53-06-000	WZ-SB00-30-06-000
30 U	WZ-SB00-01-15-000	—	WZ-SB00-30-16-000
28 U	WZ-SB00-01-07-000	WZ-SB00-53-07-000	WZ-SB00-30-07-000
27 U	WZ-SB00-01-16-000	—	WZ-SB00-30-17-000
24 U	WZ-SB00-01-08-000	WZ-SB00-53-08-000	WZ-SB00-30-08-000
21 U	WZ-SB00-01-17-000	—	WZ-SB00-30-18-000
18 U	WZ-SB00-01-09-000	WZ-SB00-53-09-000	WZ-SB00-30-09-000
15 U	WZ-SB00-01-10-000	WZ-SB00-53-10-000	WZ-SB00-30-10-000
12 U	WZ-SB00-01-11-000	WZ-SB00-53-11-000	WZ-SB00-30-11-000
10 U	WZ-SB00-01-12-000	WZ-SB00-53-12-000	WZ-SB00-30-12-000

Package: 1 pc.

OUTRIGGER

For fixing mounting profiles in cabinets 800 mm wide, in order to achieve 19" or 21" spacing. Depending on the cabinet design, two or three outriggers are required for assembling one mounting profile.

Material:

Zinc-coated sheet steel.

Scope of delivery:

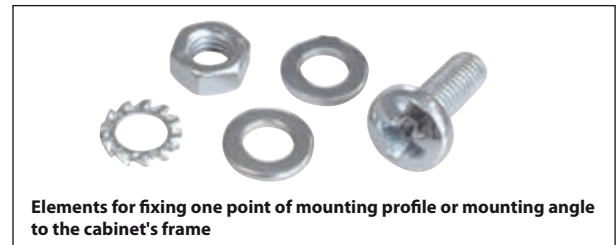
One outrigger with fixing accessories to install the outrigger to the mounting profile and cabinet's frame.

For cabinets	Spacing	Package	Catalogue number
SZB, OTS1, SZB PC, SZB SE, SZB SEI	19"	1 pc.	WZ-3752-72-00-000
	21"	1 pc.	WZ-5205-90-00-C12



FIXING ACCESSORIES

Description of set	Package	Catalogue number
Elements for fixing one point of mounting profile or mounting angle to the cabinet's frame 600 mm wide (without outrigger): Screw M6x16 - 1 pc. Nut M6 - 1 pc. Washer - 2 pcs Toothed washer - 1 pc.	1 set	WZ-SB00-37-00-000
Elements for fixing appliances to the mounting profiles or mounting angles: Screw M6x16 - 10 pcs. Cage nut M6 - 10 pcs. Plastic washer - 10 pcs.	1 set	T1Z-00-0002



Elements for fixing one point of mounting profile or mounting angle to the cabinet's frame



Elements for fixing appliances to the mounting profiles or mounting angles



CROSS BAR

Fixed to the rear mounting profiles in 19" cabinets.
For installing cables or supporting appliances in the cabinet.
With holes for M6 bolts.

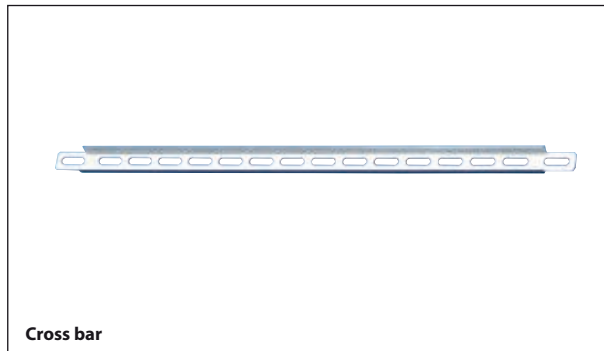
Material:

Zinc-coated sheet steel.

Scope of delivery:

Cross bar with fixing accessories.

Length [mm]	Package	Catalogue number
500	1 pc.	WZ-SB00-28-01-000
335	1 pc.	WZ-SB00-28-02-000



GUIDE BAR

Fixed horizontally to the front and rear mounting profile, parallel to the cabinet's side.
For supporting appliances in the cabinet.
With holes for M6 bolts.

Material:

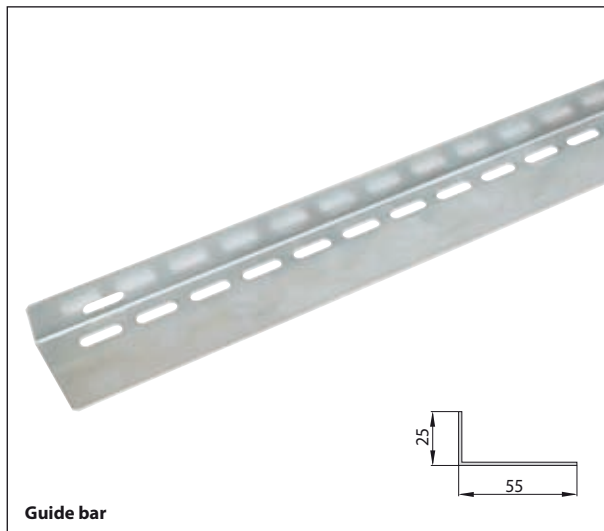
Zinc-coated sheet steel.

Scope of delivery:

Guide bar (solid or perforated) with fixing accessories.

Length [mm]	Catalogue number
650	WZ-SB00-27-01-000
550	WZ-SB00-27-02-000
450	WZ-SB00-27-03-000
350	WZ-SB00-27-04-000
250	WZ-SB00-27-05-000

Package: 1 pc.



CABLE HOLDER

Fixed horizontally to the front and rear mounting profiles, parallel to the cabinet's side.
For installing cable bundle.
With holes for M6 bolts.

Material:

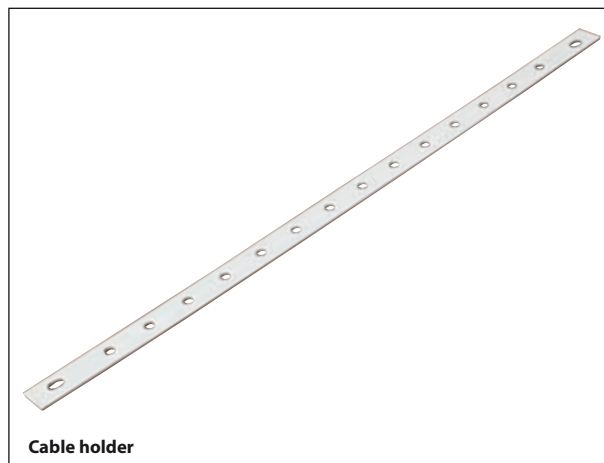
Zinc-coated sheet steel.

Scope of delivery:

Cable holder with fixing accessories.

Length [mm]	Catalogue number
500	WZ-SB00-29-01-000
410	WZ-SB00-29-02-000
335	WZ-SB00-29-03-000
310	WZ-SB00-29-04-000
210	WZ-SB00-29-05-000

Package: 1 pc.



SWING FRAME

For installing 19" equipment in SZB or OTS1 cabinets 800 mm wide.

Position of frame: middle

Maximum depth of appliances mounted into the frame: 350 mm

The standard design of SZB and OTS1 cabinets makes it possible to use swing frames for full usable height of the cabinet (see cabinet's heights in the chart below).

When smaller swing frames are used, it is necessary to use additional C-profiles.

Material:

Sheet steel textured powder painted in light grey (RAL 7035).

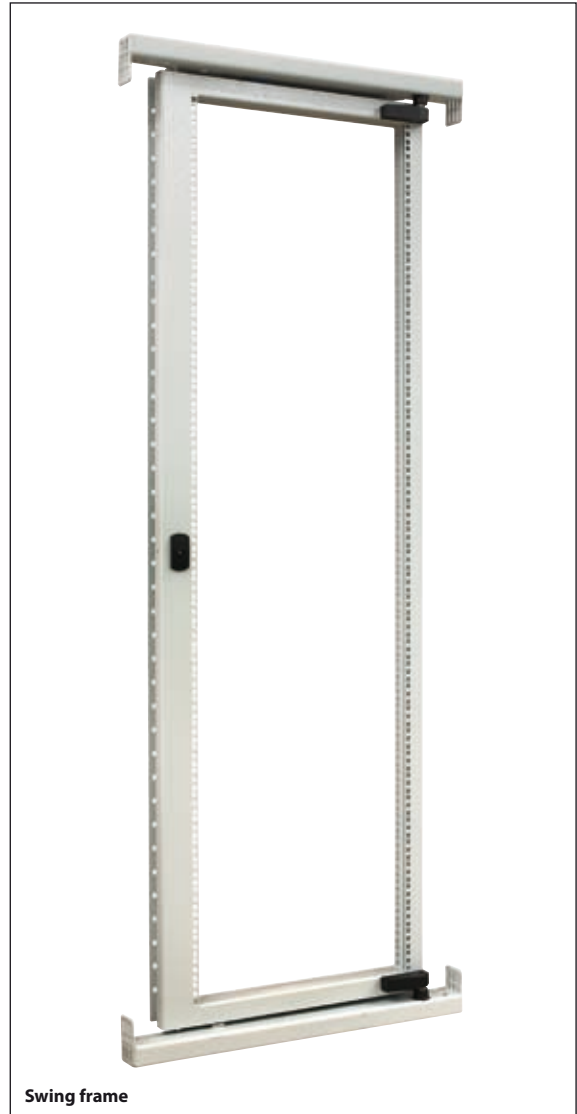
Scope of delivery:

Swing frame set with fixing accessories.

Swing frame's height [U = 44.45 mm]	For cabinet's height [U = 44.45 mm]	Catalogue number
6 U	—	WZ-5596-01-01-011
8 U	—	WZ-5596-01-02-011
10 U	15 U	WZ-5596-01-03-011
12 U	15 U, 18 U	WZ-5596-01-04-011
14 U	18 U	WZ-5596-01-05-011
16 U	21 U	WZ-5596-01-06-011
18 U	21 U, 24 U	WZ-5596-01-07-011
20 U	24 U	WZ-5596-01-08-011
22 U	27 U	WZ-5596-01-09-011
24 U	27 U, 30 U	WZ-5596-01-10-011
26 U	30 U	WZ-5596-01-11-011
28 U	33 U	WZ-5596-01-12-011
30 U	33 U, 36 U	WZ-5596-01-13-011
32 U	36 U	WZ-5596-01-14-011
34 U	39 U	WZ-5596-01-15-011
36 U	39 U, 42 U	WZ-5596-01-16-011
38 U	42 U	WZ-5596-01-17-011
40 U	45 U	WZ-5596-01-18-011

Package: 1 pc.

*) Applicable for swing frame using up full usable height.



CABLE CLAMPS

Intended for fixing:

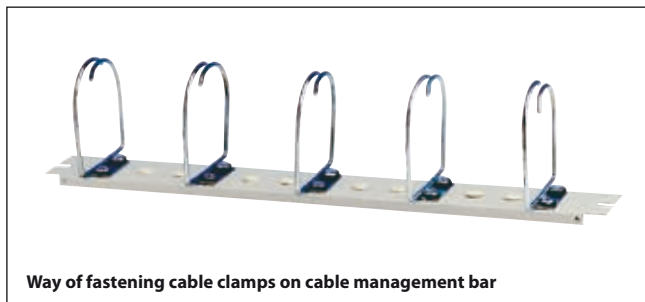
- on cable management bars (see picture below),
- on mounting profiles.

Material:

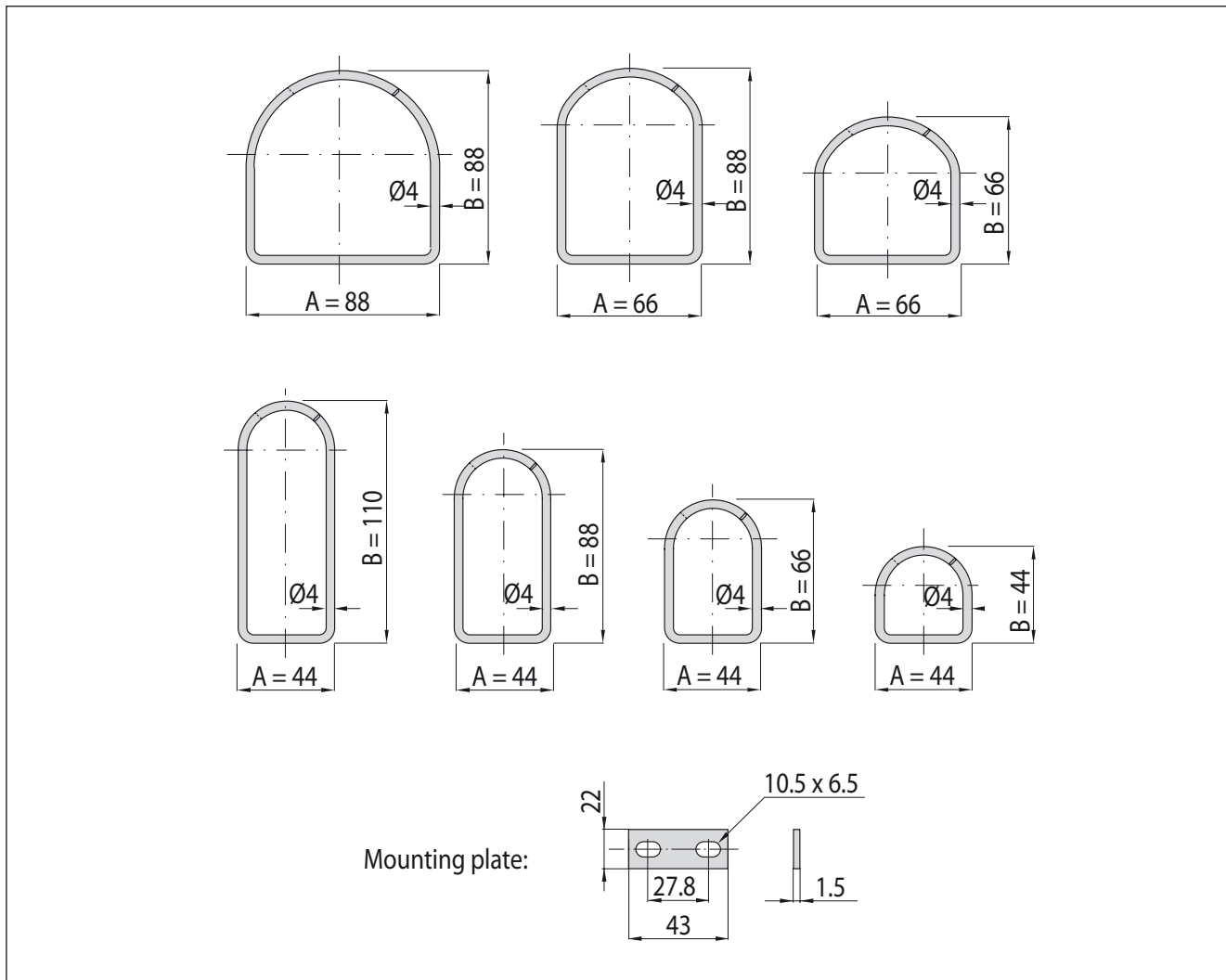
Zn coated steel.

Scope of delivery:

The cable clamps are sold in sets: 5 pcs. of clamps and fixing accessories.



Type of cable clamp	Package	Dimensions A x B [mm]	Catalogue number
	5 pcs.	88 x 88	WZ-SB52-00-01-000
		66 x 88	WZ-SB52-00-02-000
		66 x 66	WZ-SB52-00-03-000
		44 x 110	WZ-SB52-00-04-000
		44 x 88	WZ-SB52-00-05-000
		44 x 66	WZ-SB52-00-06-000
		44 x 44	WZ-SB52-00-07-000
	5 pcs.	88 x 88	WZ-SB53-00-01-000
		66 x 88	WZ-SB53-00-02-000
		66 x 66	WZ-SB53-00-03-000
		44 x 110	WZ-SB53-00-04-000
		44 x 88	WZ-SB53-00-05-000
		44 x 66	WZ-SB53-00-06-000
		44 x 44	WZ-SB53-00-07-000
	5 pcs.	88 x 88	WZ-SB54-00-01-000
		66 x 88	WZ-SB54-00-02-000
		66 x 66	WZ-SB54-00-03-000
		44 x 110	WZ-SB54-00-04-000
		44 x 88	WZ-SB54-00-05-000
		44 x 66	WZ-SB54-00-06-000
		44 x 44	WZ-SB54-00-07-000



SUPPLEMENTARY ACCESSORIES

cable management



CABLE MANAGEMENT BAR

19" assembly, height: 1 U.
With slots for mounting cable clamps.

Material:

Sheet steel textured powder painted in light grey (RAL 7035) or black (RAL 9005).

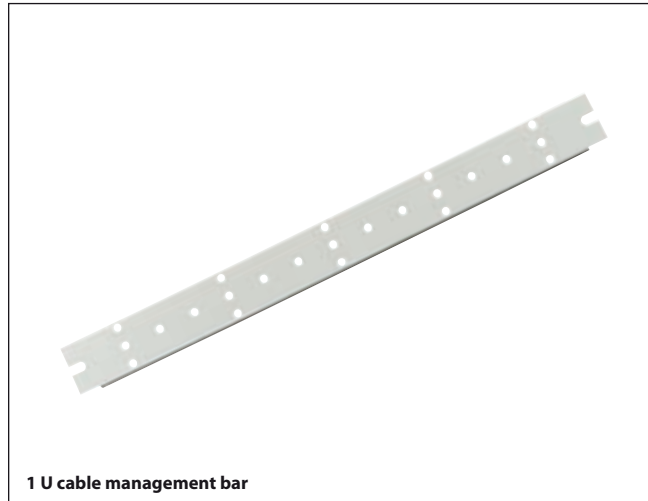
Scope of delivery:

Cable management bar, 8 rubber covers for not used slots, fixing accessories.

Note:

Cable clamps should be ordered separately.

Height [U = 44.45 mm]	Package	Colour	Catalogue number
1 U	1 szt.	RAL 7035	WZ-SB55-00-00-011
		RAL 9005	WZ-SB55-00-00-161



BRUSH PANELS

Make easier to organise cables in data cabinets.
19" assembly, height 1 U.
With 341 x 21.5 mm brush opening.
Support plate can be used in order to keep cross cables which are in excess.

Material:

Sheet steel textured powder painted in light grey (RAL 7035) or black (RAL 9005).

Scope of delivery:

Brush panel with fixing accessories for assembling into the 19" mounting profiles.

Type of panel	Depth [mm]	Package	Colour	Catalogue number
Without support plate	50	1 pc.	RAL 7035	WZ-SB63-00-01-011
			RAL 9005	WZ-SB63-00-01-161
With support plate	300	1 pc.	RAL 7035	WZ-SB63-00-02-011
			RAL 9005	WZ-SB63-00-02-161



PVC CABLE DUCTS

On customer's request, both floor-standing and wall-mounted cabinets can be equipped with PVC cable ducts (in accordance with specifications provided by customer or prepared by ZPAS). Cable ducts are available in the following dimensions (WxD): 60x100, 60x80, 40x60, 40x40 mm.

C-profile for stiffening PVC cable ducts

Fixed together with cable duct to the frame's cross bars.

Material:

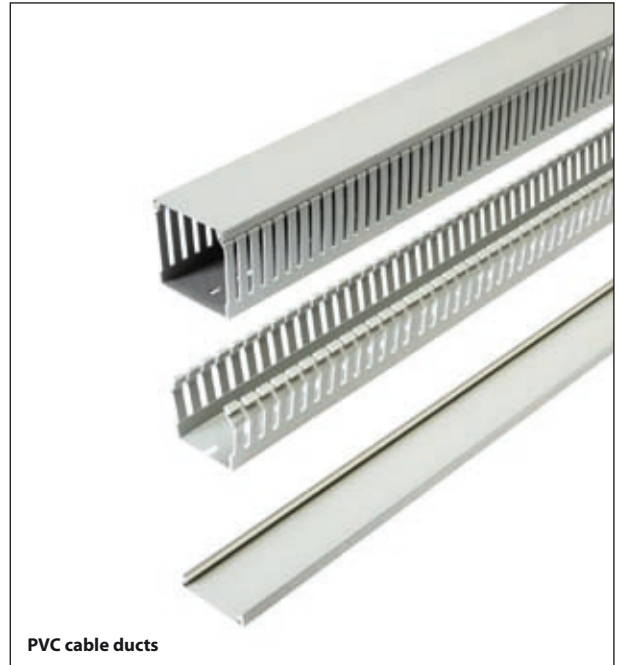
Sheet steel textured powder painted in light grey (RAL 7035).

Scope of delivery:

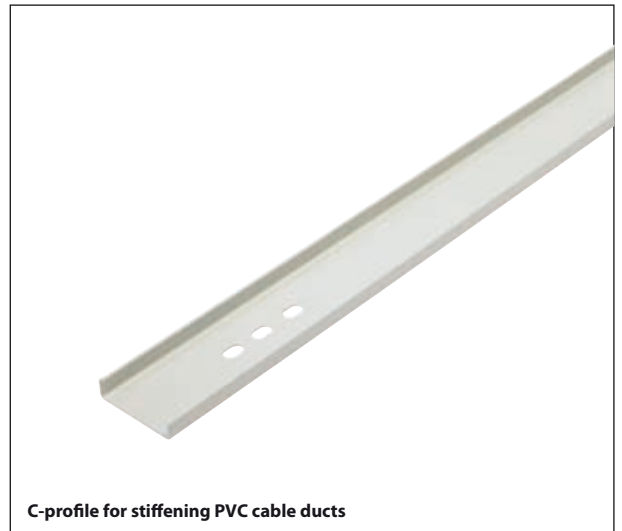
C-profile with fixing accessories.

Height [U = 44.45 mm]	Catalogue number	
	C-profile for PVC cable duct stiffening, 60 mm wide	C-profile for PVC cable duct stiffening, 40 mm wide
47 U	WZ-SB00-31-25-011	WZ-SB00-31-31-011
45 U	WZ-SB00-31-01-011	WZ-SB00-31-13-011
42 U	WZ-SB00-31-02-011	WZ-SB00-31-14-011
40 U	WZ-SB00-31-03-011	WZ-SB00-31-15-011
39 U	WZ-SB00-31-26-011	WZ-SB00-31-32-011
38 U	WZ-SB00-31-04-011	WZ-SB00-31-16-011
36 U	WZ-SB00-31-05-011	WZ-SB00-31-17-011
33 U	WZ-SB00-31-27-011	WZ-SB00-31-33-011
32 U	WZ-SB00-31-06-011	WZ-SB00-31-18-011
30 U	WZ-SB00-31-28-011	WZ-SB00-31-34-011
28 U	WZ-SB00-31-07-011	WZ-SB00-31-19-011
27 U	WZ-SB00-31-29-011	WZ-SB00-31-35-011
24 U	WZ-SB00-31-08-011	WZ-SB00-31-20-011
21 U	WZ-SB00-31-30-011	WZ-SB00-31-36-011
18 U	WZ-SB00-31-09-011	WZ-SB00-31-21-011
15 U	WZ-SB00-31-10-011	WZ-SB00-31-22-011

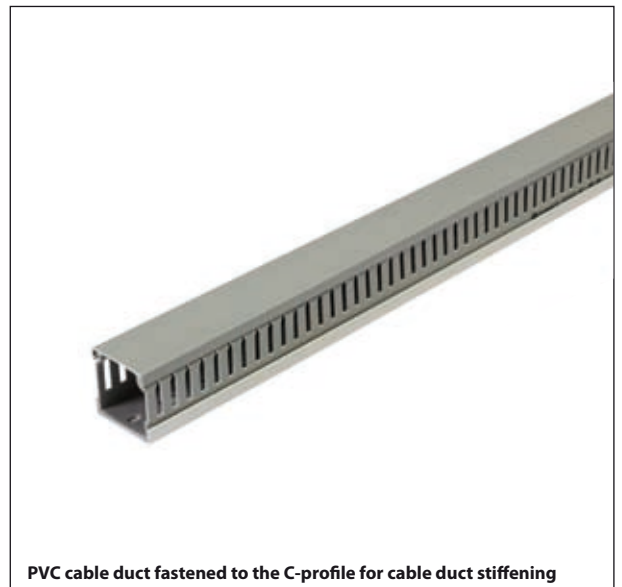
Package: 1 pc.



PVC cable ducts



C-profile for stiffening PVC cable ducts



PVC cable duct fastened to the C-profile for cable duct stiffening



PVC cable duct with a C-profile for cable duct stiffening, installed in the SZB cabinet



PERFORATED CABLE TRAY

Designed for vertical organization of cables inside the cabinet.
Fixed to horizontal C-profiles at the cabinet's side walls.
Width: 150 mm

Material:

Sheet steel zinc coated

Scope of delivery:

Cable tray with fixing accessories.

Reference chart

Cable tray length [mm]	For cabinet height [U = 44.45 mm]	Catalogue number
2000	45 - 47 U	WZ-4755-20-01-000
1800	40 - 42 U	WZ-4755-20-02-000
1700	38 - 39 U	WZ-4755-20-03-000
1600	36 U	WZ-4755-20-04-000
1400	32 - 33 U	WZ-4755-20-05-000
1300	30 U	WZ-4755-20-06-000
1200	27 - 28 U	WZ-4755-20-07-000
1100	24 U	WZ-4755-20-08-000

Package: 1 pc.



WIRE CABLE TRAY

Designed for vertical organization of cables inside the cabinet.
Fixed to horizontal C-profiles at the cabinet's side walls.
Width: 150 mm

Material:

Galvanized steel

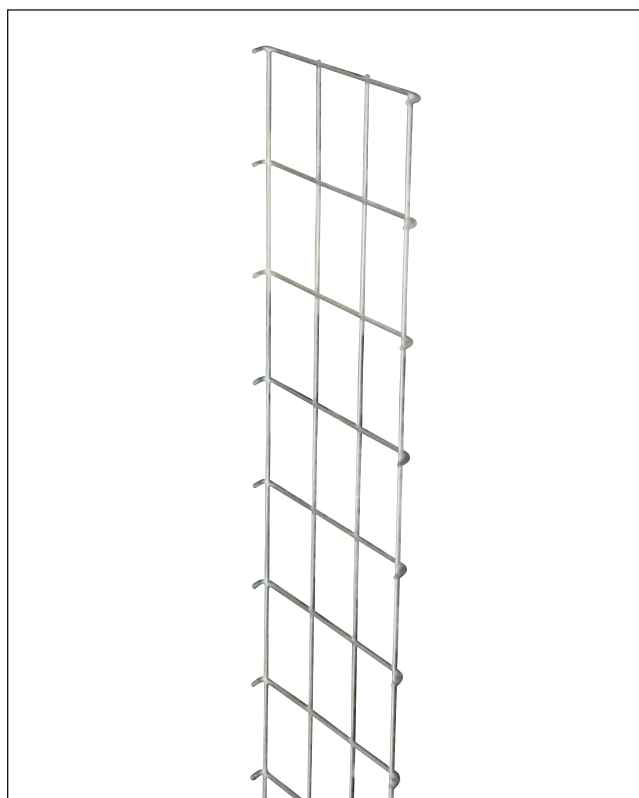
Scope of delivery:

Cable tray with fixing accessories.

Reference chart

Cable tray length [mm]	For cabinet height [U = 44.45 mm]	Catalogue number
2000	45 - 47 U	WZ-4755-25-01-000
1800	40 - 42 U	WZ-4755-25-02-000
1700	38 - 39 U	WZ-4755-25-03-000
1600	36 U	WZ-4755-25-04-000
1400	32 - 33 U	WZ-4755-25-05-000
1300	30 U	WZ-4755-25-06-000
1200	27 - 28 U	WZ-4755-25-07-000
1100	24 U	WZ-4755-25-08-000

Package: 1 pc.



EARTHING BAR

For free-standing cabinets.

In the following cabinets: SZB, OTS1, SZB PC, SZB SE and SZB SEI, the earthing bar is screwed to threaded bushings placed in the bottom of the cabinet frame.

In DSR cabinet, the earthing bar is fixed onto the frame's post/profile using 2 fixing/spacer bolts.

Material:

Copper

Scope of delivery:

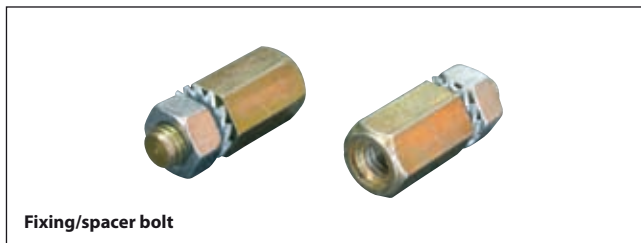
Earthing bar with screws for assembling in the cabinet.

Two fixing/spacer bolts for mounting the earthing bar in DSR cabinet are to be ordered separately.

Type of element	Package	Catalogue number
Earthing bar Cu 15x5x375 mm	1 pc.	WZ-3393-11-00-000
Fixing/spacer bolts for mounting the earthing bar in DSR cabinet	1 pc.	WZ-2645-15-00-000



Earthing bar



Fixing/spacer bolt

EARTHING CABLE SET

Insulated copper cables for joining removable elements of the cabinet with earthing bar.

Equipped with contact eyes Ø 6 mm.

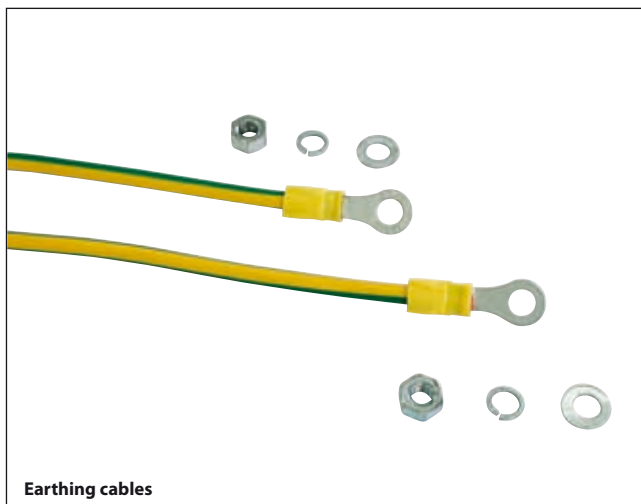
Material:

Copper cables 6 mm²

Scope of delivery:

Earthing cables are sold in sets in accordance with the chart below.

Description of set	Package	Catalogue number
Cable 300 mm long - 4 pcs. Cable 400 mm long - 2 pcs. Cable 600 mm long - 1 pc. Fixing accessories	1 set	WZ-SB12-00-01-000
Cable 300 mm long - 2 pcs. Cable 400 mm long - 2 pcs. Cable 600 mm long - 1 pc. Fixing accessories	1 set	WZ-SB12-00-02-000



Earthing cables

BAYING BOLT

For baying SZB, OTS1, SZB SE or SZB SEI cabinets in rows. In order to join 2 cabinets, a total of 4 baying bolts are required.

Material:

Galvanized steel

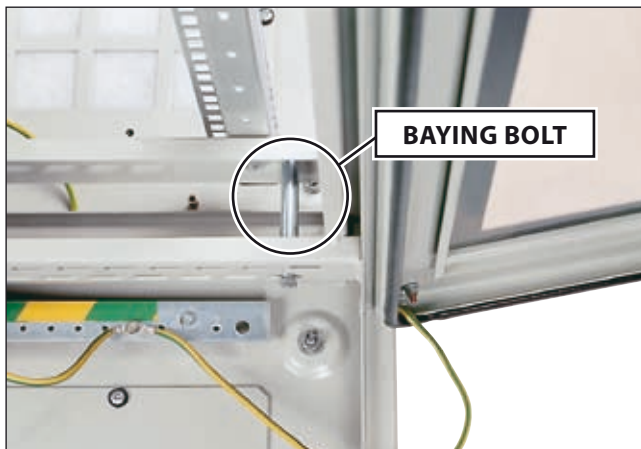
Scope of delivery:

Baying bolt - 1 pc. with nuts and washers.

Package	Catalogue number
1 pc.	WZ-SB25-00-00-000



Baying bolt



Baying of SZB cabinets



SUPPLEMENTARY ACCESORIES FOR DSR CABINETS

Blanking plate for DSR cable opening

For concealing unused cable openings in the top and bottom plate of DSR cabinet.

One cable opening (580 x 40 mm) accommodates four blanking plates.

Material:

Al-Zn coated sheet steel.

Scope of delivery:

Blanking plate complete with self-tapping screw for fixing to the top or bottom plate of the cabinet.

Dimensions [mm]	Package	Catalogue number
145 x 70 x 6	1 pc.	WZ-2645-12-01-000



Cable opening cover for DSR divider

For covering unused cable openings in the horizontal divider of DSR cabinets.

One blanking plate is designed for covering one or two cable openings.

Material:

Sheet steel textured powder painted in light grey (RAL 7035).

Scope of delivery:

Cable opening cover with self-tapping screw for fixing to the divider.

Dimensions [mm]	Package	Catalogue number
300 x 46 x 23	1 pc.	WZ-2645-11-01-011



Self-adhesive insert of DSR divider

The self-adhesive insert is used to seal horizontally between the dividers and the side panels within DSR colocation cabinets. This prevents foreign objects passing between compartments.

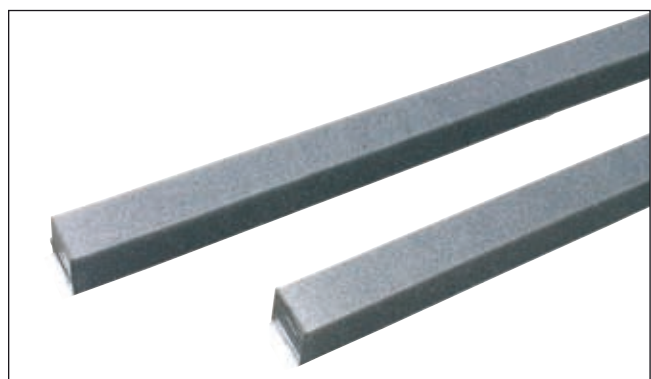
Material:

Polyurethane gasket 30 x 30 mm.

Scope of delivery:

One 2 m length is sufficient for sealing 3 dividers within colocation cabinet.

Package	Catalogue number
2 m	WZ-2645-09-00-000



SUPPLEMENTARY ACCESORIES FOR SZU CABINETS

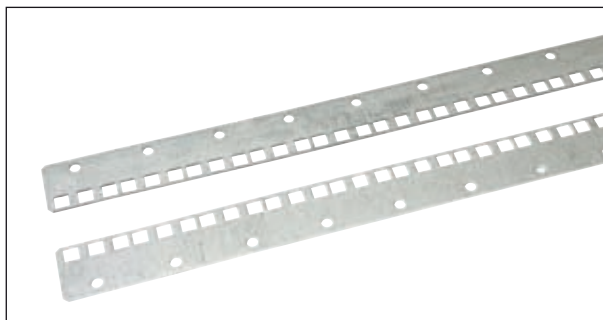
Adapters for installing 19" appliances on 21" mounting profiles

Material:

Sheet steel Al-Zn coated

Scope of delivery:

Set of 2 adapters 47 U high with fixing accessories.



Package	Catalogue number
2 pcs.	WZ-3196-27-00-000

Lifting eyes

Screwed to threaded holes in the top plate of the cabinet's frame. Eye diameter: 30 mm, thread for fastening: M12

Material:

Galvanised steel

Scope of delivery:

Lifting eyes are sold as individual items.



Package	Catalogue number
1 pc.	M1F-00-0106

SUPPLEMENTARY ACCESSORIES

accessories for SZU cabinets



VOLTAGE DISTRIBUTION PANEL

Universal 19" enclosure for modular devices.
In the standard version equipped with DIN rail and housing with 402.5 x 45.5 mm opening.

Dimensions:

- height:..... 133 mm (3 U),
- width: 19" (internal width: 446 mm),
- depth: 60 mm

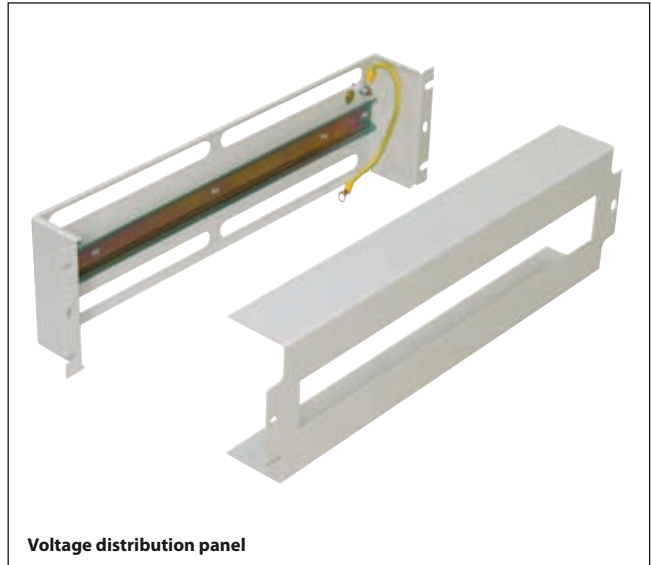
Capacity of panel - maximum number of built-in S-type modules (width of module 17.5 mm): 22 pcs.

Material:

Sheet steel textured powder painted in light grey (RAL 7035) or black (RAL 9005).

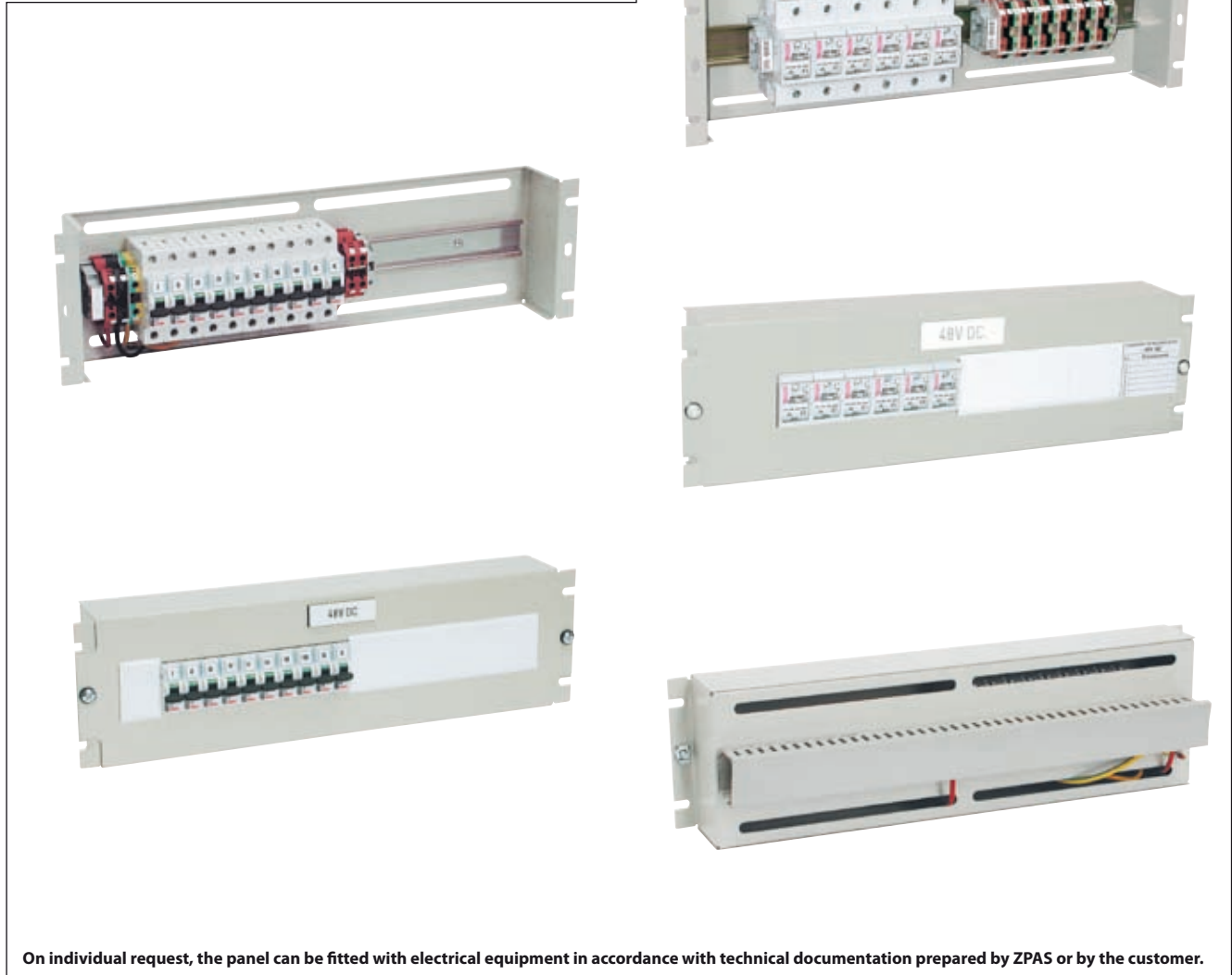
Scope of delivery:

- In the standard version, panels are sold as empty enclosures, complete with:
- mounting base,
 - DIN rail,
 - housing,
 - fixing accessories.



Voltage distribution panel

Package	Colour	Catalogue number
1 pc.	RAL 7035	WZ-PS3U-00-00-011
	RAL 9005	WZ-PS3U-00-00-161



On individual request, the panel can be fitted with electrical equipment in accordance with technical documentation prepared by ZPAS or by the customer.



SINGLE-PHASE POWER STRIPS 16 A

Characteristics:

Anodized aluminium body, in natural colour.
 Plastic elements: light-grey similar to RAL 7035.
 Dimensions: height/width 44 mm, depth 44 mm (protruding elements increase the depth to 70 mm), length according to the table.
 Removable metal mounting brackets for installing the strip in four directions.
 LZI-30/9 strip can be mounted at various angles, 12 positions of set up regulated by 30° turns.

Technical data:

Nominal voltage 230 V AC
 Maximum load 16 A / 3680 W
 Protection degree IP 20
 Supply cable 3 m, black, conductor section 1.5 mm²
 (other lengths within of 2-5 m scope, available on request)

Scope of delivery:

Power strip with brackets, set of fixing accessories.
 Note: For installation in vertical position additional elements needed, must be ordered separately - see pages 108-109.

19" power strip,
 possible to be mounted
 at 12 different angles



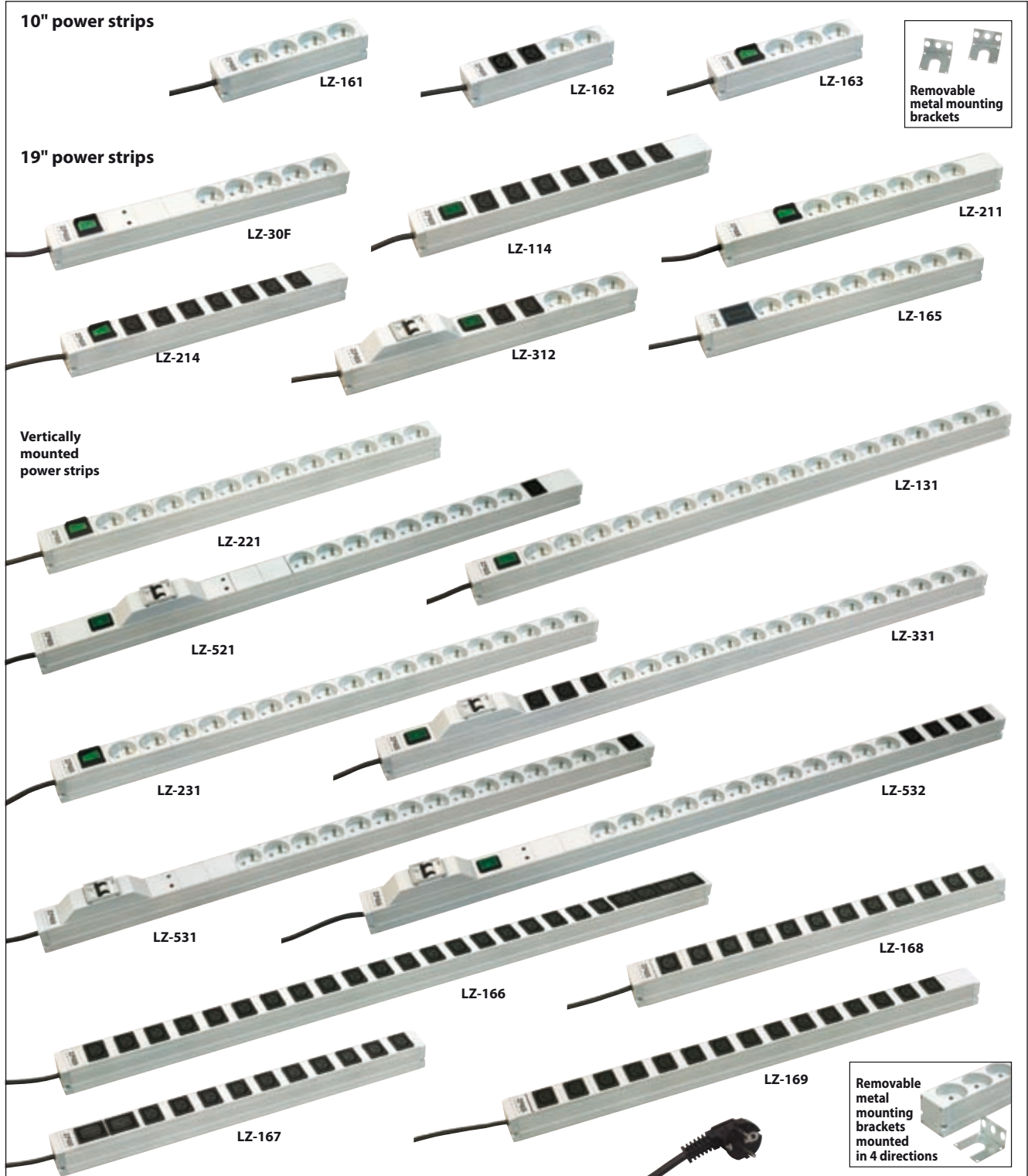
Installation	Power strip type	Lenght without mounting brackets [mm]	Features									Catalogue number	
			Check lamp	Illuminated switch	Surge arrester	RFI noise filter	Circuit breaker CB-C16	Ammeter	Number of UTE sockets	Number of IEC C13 sockets	Number of IEC C19 sockets		
10" 1U	LZ-161	216								4			WZ-LZ16-10-00-000
	LZ-162	216								2	2		WZ-LZ16-20-00-000
	LZ-163	216		x						3			WZ-LZ16-30-00-000
19" 1U	LZI-30/9	431								9			WZ-LZ130-09-00-000
	LZ-30F	431		x	x	x				5			WZ-LZ30-F0-00-000
	LZ-114	431	x								7		WZ-LZ11-40-00-000
	LZ-211	431		x						6			WZ-LZ21-10-00-000
	LZ-214	431		x							7		WZ-LZ21-40-00-000
	LZ-312	431	x				x			3	2		WZ-LZ31-20-00-000
	LZ-165	431						x		8			WZ-LZ16-50-00-000
vertical 0U	LZ-221	603		x						12			WZ-LZ22-10-00-000
	LZ-521	860	x		x	x	x			9	1		WZ-LZ52-10-00-000
	LZ-131	861	x							18			WZ-LZ13-10-00-000
	LZ-231	861		x						18			WZ-LZ23-10-00-000
	LZ-331	990	x					x		15	3		WZ-LZ33-10-00-000
	LZ-531	990			x	x	x			15	1		WZ-LZ53-10-00-000
	LZ-532	1033	x		x	x	x			12	4		WZ-LZ53-20-00-000
	LZ-166	1076								20	4		WZ-LZ16-60-00-000
	LZ-167	560								10	2		WZ-LZ16-70-00-000
	LZ-168	560								12			WZ-LZ16-80-00-000
LZ-169	732								15			WZ-LZ16-90-00-000	

Type of sockets						
Standard sockets			Sockets on request			
UTE (French type) 230 V, 16 A	IEC 60320 C13 230 V, 10 A	IEC 60320 C19 230 V, 16 A	Schuko 230 V, 16 A	IEC 60320 C13 230 V, 10 A with lock	IEC 60320 C13 230 V, 10 A with fuse	IEC 60320 C13, 230 V, 10 A with fuse and check lamp



SINGLE-PHASE POWER STRIPS 16 A

Power strips mounted in 4 directions



Type of plugs				
Standard plug	Plugs on request			
Angle Unischuko 230 V, 16 A	Straight Unischuko 230 V, 16 A	IEC 60320 C14 230 V, 10 A	IEC 60320 C20 230 V, 16 A	IEC 60309 230 V, 16 A



SINGLE-PHASE POWER STRIPS 32 A

Characteristics:

Anodized aluminium body, in natural colour (body of LZ-322 power strip is made of sheet steel, powder painted in RAL 7035).
 Plastic elements: light-grey (similar to RAL 7035) or black (similar to RAL 9005).
 Dimensions: height/width 44 mm, depth 70 mm, length according to the table.
 Strips mounted in 4 directions (LZI-322 mounted in 2 directions).

Technical data:

Nominal voltage 230 V AC
 Maximum load 32 A / 7360 W
 Protection degree IP 20
 Supply cable 3 m, white, conductor section 4 mm²
 (other lengths within of 2-5 m scope, available on request)

Scope of delivery:

Power strip with brackets, set of fixing accessories.
 Note: For installation in vertical position additional elements needed, must be ordered separately - see pages 108-109.

Installation	Power strip type	Length without mounting brackets [mm]	Features					Catalogue number	
			Circuit breaker MCB-C16	Ammeter	Number of UTE sockets	Number of IEC C13 sockets	Number of IEC C19 sockets		Number of IEC 60309 sockets
19" 1U	LZ-321	431	x				6		WZ-LZ32-10-00-000
19" 2U	LZ-322	431						4	WZ-LZ32-20-00-000
vertical 0U	LZ-323	1205	x			20	4		WZ-LZ32-30-00-000
	LZ-324	732	x		12				WZ-LZ32-40-00-000
	LZ-325	861	x			16			WZ-LZ32-50-00-000
	LZ-326	990	x	x		12	4		WZ-LZ32-60-00-000

Type of sockets							
Standard sockets				Sockets on request			
UTE (French type) 230 V, 16 A	IEC 60320 C13 230 V, 10 A	IEC 60320 C19 230 V, 16 A	IEC 60309 230 V, 32 A	Schuko 230 V, 16 A	IEC 60320 C13 230 V, 10 A with lock	IEC 60320 C13 230 V, 10 A with fuse	IEC 60320 C13, 230 V, 10 A with fuse and check lamp

Cable plug
IEC 60309 230 V, 32 A



SINGLE-PHASE POWER STRIPS 32 A

19" power strips



LZ-322



LZ-321



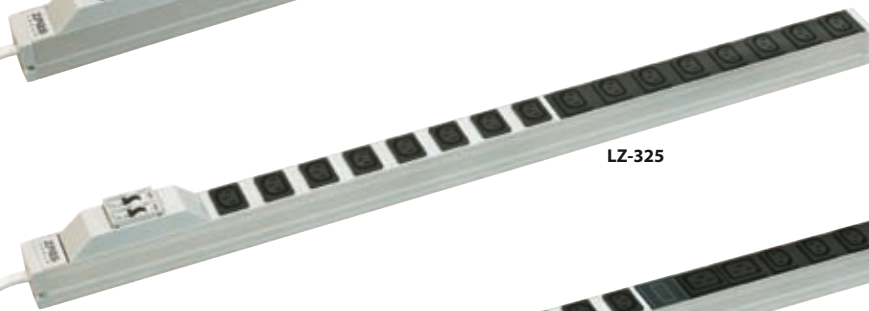
Vertically mounted power strips



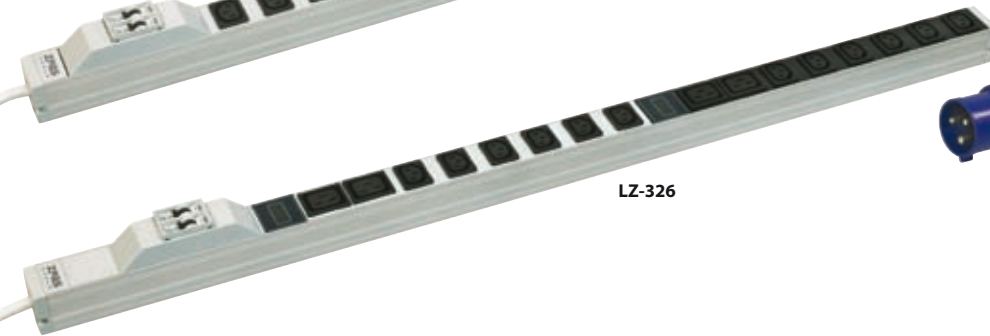
LZ-323



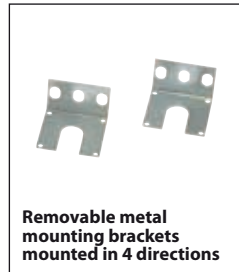
LZ-324



LZ-325



LZ-326



Removable metal mounting brackets mounted in 4 directions



THREE-PHASE POWER STRIPS 3 x 16 A

Characteristics:

Anodized aluminium body, in natural colour.
 Plastic elements: light-grey (similar to RAL 7035), black (similar to RAL 9005) and red (similar to RAL 3002).
 Dimensions: width 44 mm, depth 44 mm, length according to the table.
 Removable metal mounting brackets for installing the strip in four directions, at 90° turning.

Technical data:

Nominal phase voltage 230 V AC
 Maximum load 3 x 16 A / 11040 W
 Protection degree IP 20
 Supply cable 3 m, white, conductor section 2.5 mm²
 (other lengths within 2-5 m scope, available on request)

Scope of delivery:

Power strip with brackets, set of fixing accessories.
 Note: For installation in vertical position additional elements needed, must be ordered separately - see pages 108-109.

Installation	Power strip type	Length without mounting brackets [mm]	Features				Catalogue number
			Ammeter	Number of UTE sockets	Number of IEC C13 sockets	Number of IEC C19 sockets	
vertical 0U	LZ-3161	1893			36	6	WZ-LZ31-61-00-000
	LZ-3162	990		18			WZ-LZ31-62-00-000
	LZ-3163	861			12	6	WZ-LZ31-63-00-000
	LZ-3164	1076	x	18			WZ-LZ31-64-00-000

Type of sockets						
Standard sockets			Sockets on request			
UTE (French type) 230 V, 16 A	IEC 60320 C13 230 V, 10 A	IEC 60320 C19 230 V, 16 A	Schuko 230 V, 16 A	IEC 60320 C13 230 V, 10 A with lock	IEC 60320 C13 230 V, 10 A with fuse	IEC 60320 C13, 230 V, 10 A with fuse and check lamp

Cable plug
IEC 60309 3 x 16 A



THREE-PHASE POWER STRIPS 3 x 16 A

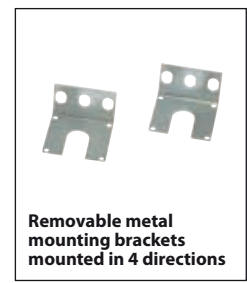
Vertically mounted power strips

LZ-3161

LZ-3162

LZ-3163

LZ-3164



SUPPLEMENTARY ACCESSORIES

power supply management



THREE-PHASE POWER STRIPS 3 x 32 A

Characteristics:

Anodized aluminium body, in natural colour.
 Plastic elements: light-grey (similar to RAL 7035) or black (similar to RAL 9005).
 Dimensions: width 44 mm, depth 70 mm, length according to the table.
 Removable metal mounting brackets for installing the strip in four directions, at 90° turnings.

Technical data:

Nominal phase voltage 230 V AC
 Maximum load 3 x 32 A / 22080 W
 Protection degree IP 20
 Supply cable 3 m, white, conductor section 4 mm²
 (other lengths within of 2-5 m scope, available on request)

Scope of delivery:

Power strip with brackets, set of fixing accessories.
 Note: For installation in vertical position additional elements needed, must be ordered separately - see pages 108-109.

Installation	Power strip type	Length without mounting brackets [mm]	Features					Catalogue number
			Circuit breaker MCB-C16	Ammeter	Number of UTE sockets	Number of IEC C13 sockets	Number of IEC C19 sockets	
vertical 0U	LZ-3321	1097	x			6	6	WZ-LZ33-21-00-000
	LZ-3322	1871	x			18	6	WZ-LZ33-22-00-000
	LZ-3323	1590	x		24			WZ-LZ33-23-00-000
	LZ-3324	1871	x	x		18	6	WZ-LZ33-24-00-000

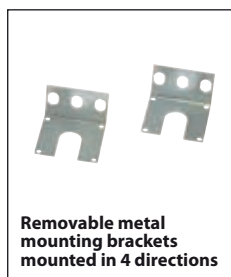
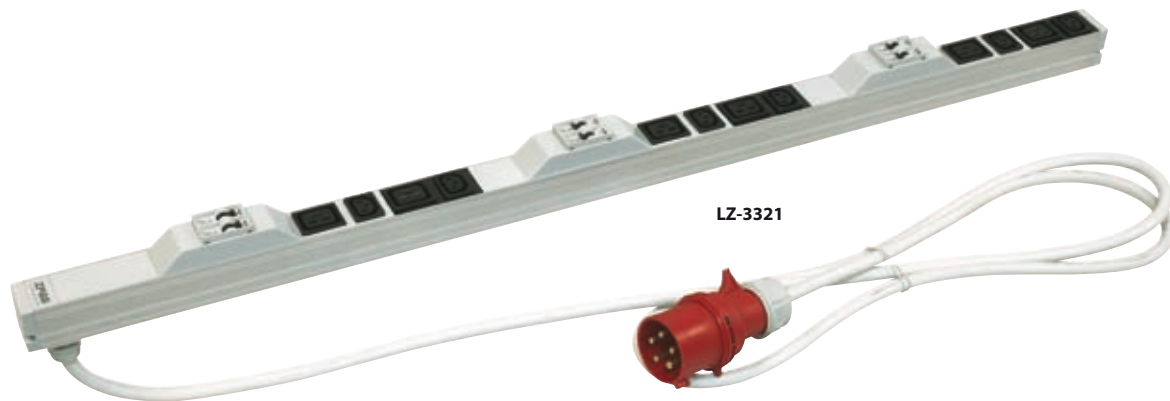
Type of sockets						
Standard sockets			Sockets on request			
UTE (French type) 230 V, 16 A	IEC 60320 C13 230 V, 10 A	IEC 60320 C19 230 V, 16 A	Schuko 230 V, 16 A	IEC 60320 C13 230 V, 10 A with lock	IEC 60320 C13 230 V, 10 A with fuse	IEC 60320 C13, 230 V, 10 A with fuse and check lamp

Cable plug
IEC 60309 3 x 32 A



THREE-PHASE POWER STRIPS 3 x 32 A

Vertically mounted power strips



ACCESSORIES FOR VERTICAL INSTALLATION OF POWER STRIPS

LZ brackets

Brackets for vertical installation of power strips in data open racks. Available in short version for 1 power strip and long for 2 power strips.

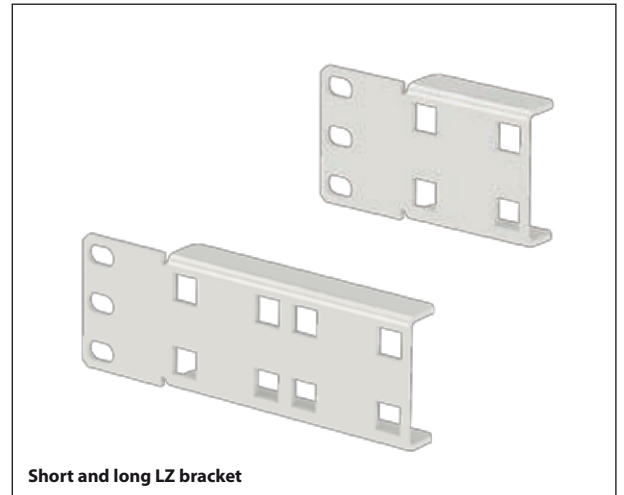
Material:

Sheet steel powder painted in light grey (RAL 7035) or black (RAL 9005).

Scope of delivery:

LZ bracket with fixing accessories.

LZ bracket version	Catalogue number	
	RAL 7035	RAL 9005
short	WZ-5367-53-01-011	WZ-5367-53-01-161
long	WZ-5367-53-02-011	WZ-5367-53-02-161



ACCESSORIES FOR VERTICAL INSTALLATION OF POWER STRIPS

LZ fixing profile

Fixing profile for vertical installation of power strips in 800 mm wide server cabinets.

Material:

Sheet steel powder painted in light grey (RAL 7035) or black (RAL 9005).

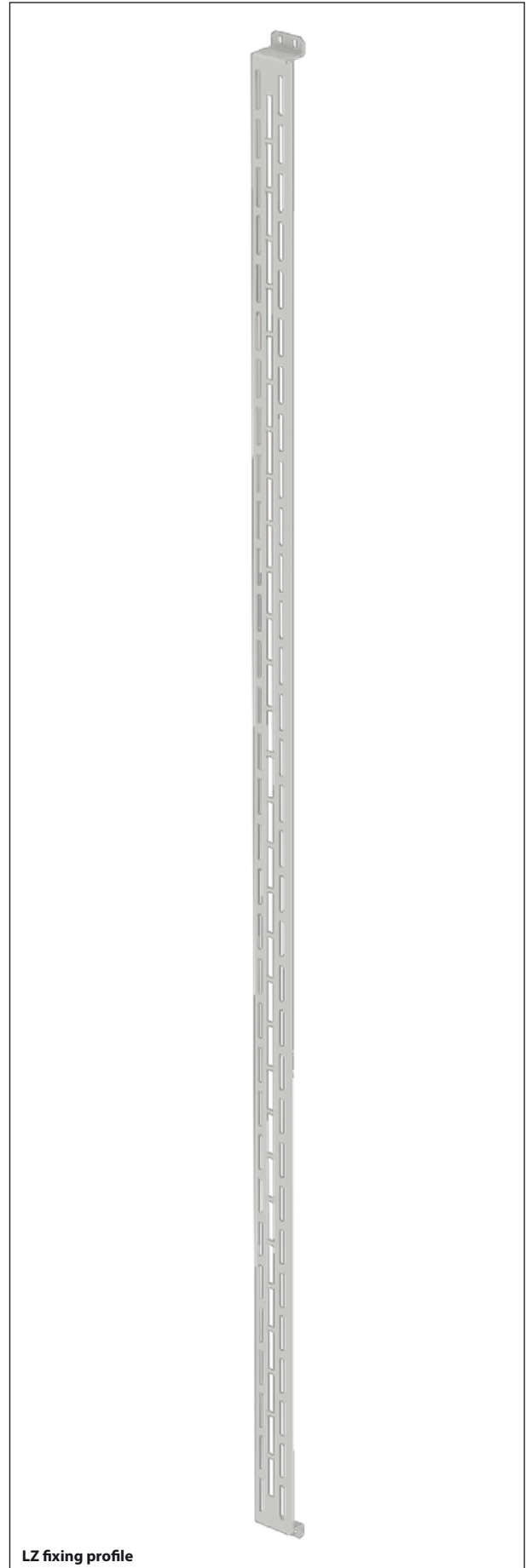
Scope of delivery:

LZ fixing profile with fixing accessories.

For cabinet height	Catalogue number	
	RAL 7035	RAL 9005
47U	WZ-5367-52-01-011	WZ-5367-52-01-161
45U	WZ-5367-52-02-011	WZ-5367-52-02-161
42U	WZ-5367-52-03-011	WZ-5367-52-03-161



Server cabinet with power strips installed to fixing profiles



LZ fixing profile



PDU-1 SWITCHED POWER STRIP

The power strip is equipped with 8 sockets. It is intended for 19" server cabinets. It is designed for 1 U enclosures because of small diameter. It is equipped with RJ 45 socket for Ethernet connection according to the SNMP protocol. Thanks to notification of SNMP traps, e-mails and sound signals, the service can be alerted in the event of exceptional occurrences. Additionally, the digital pointer informing about the power supply of connected servers is installed in the front section.

The power strip is equipped with additional software for manual monitoring of power consumption in particular ports, setting off the alarm in the event of exceeding preset conditions.

Additionally, the strip makes it possible to monitor all supplying ports via a web browser or attached software.



Package	Colour	Catalogue number
1 pc.	RAL 9005	T1Z-01-0004

Basic parameters	
Installation	horizontally installed in 19" racks
Current meter	digital true RMS
Power monitor	meter, Web, SNMP, free bundle software
Remote power control	Web, SNMP
Audible alarm	2 Phase, warning and overload
Event alert	e-mail, trap SNMP, audible alarm
Protection	circuit breaker 16 A
Output	8 sockets IEC320 C13
Input	IEC320 C20 attached power cord, 3 m
Communication	
Ethernet LED	1 yellow LED
Status LED	1 green LED
Power LED	8 green LED
Power monitor	RJ45
Power measurement	digital meter; range: 0-20 A
Metering range	resolution: 0.1 A
Operation and environment	
Input voltage	230 V
Frequency	50/60 Hz (full range)
Max. output current	16 A
Temperature	0-40 °C
Humidity	0-90%
Size	90 x 432 x 44 mm
Weight	3 kg
Regulations	
UL 60950-1, UL Listed, CSA, cUL Listed, CB by UL, CE, EN 55022 Class A, EN 55024, EN 61000-3-2, EN 61000-3-3, C-Tick AS/NZS CISPR 22: 2006	



MPSM-T MICROPROCESSOR PANEL FOR POWER AND TEMPERATURE CONTROL

The most important factors that ensure correct work of modern automation, electronics, industrial computers and other devices are correct power supply and right temperature. They are necessary for ensuring continuous work of priority equipment in our infrastructure – server rooms, teleinformatics, energetics.

MPSM-T is a programmable power supply and control panel with measurement of power range, current and voltage for each socket and the ambient temperature. It's equipped with unique set of features, which make it indispensable in many installations.



Usable features

- **SOFT-START - light turning on servers, cabinets, automation components, etc.**
Possibility of defining individual delays for connection of each socket in panel after power returning or after activation of SLAVE sockets. In this way we set dedicated schedule of switching for whole set of devices powered with panel MPSM-T.
- **MASTER-SLAVE – energy saving**
Automatic turning off SLAVE sockets (devices) when MASTER device (socket) is turned off. The level of current consumption in MASTER socket is continuously monitored by a power supply panel and when it exceeds the threshold set by the user, the SLAVE sockets will be re-enabled. The inclusion and exclusion have also user adjustable time delay. Each socket in MPSM-T panel can work in MASTER, SLAVE or NONE mode (out of MASTER-SLAVE functionality). Thank to this solution it's possible to make changes in configuration of set powered with MPSM-T panel without necessarily of physically moving installed equipment into dedicated slots (continuity of work is kept).
- **PDU-THERMOSTAT – multilevel control of fans, heaters or air conditioners**
There is a possibility to define for each socket in the panel exact temperature, above and below which it has to be activated. Every each socket can be also activated by the signal below and above pre-set temperatures.
- **Outputs control**
Ability to disable any socket in the panel regardless of the mode and time of its work.
- **On-line monitoring:**
 - current and power on each socket
 - current and aggregate power supplied
 - voltage level in energetic network
 - ambient temperature
- **Fault status warning:**
 - exceeding the pre-set maximum and minimum current value of each socket
 - exceeding the pre-set maximum and minimum current value of whole set of plugged receivers
 - voltage level of power network above or below pre-set values
 - ambient temperature below or above set values
- **Device settings:**
 - hysteresis (ΔT) for the thermostat
 - delay time of MASTER-SLAVE functionality
 - the load display mode: **power (VA)** or **current (A)**
 - return to default values
- **Screen settings**

Thanks to a special technique, in which the device software was created, all functions are performed in parallel. It means that while we're in menu editing settings, the device is working in the background, performing its status tasks and immediately responds to changes which have just be done or received measurements. After a power loss, device will remember the last saved configuration.

Scope of delivery

Product name	Package	Catalogue number
MPSM-T microprocessor panel for power and temperature control Accessories supplied with panel: - temperature sensor 1.8 m - power cord - two brackets with fixing accessories (screws, washers, cage nuts) for mounting the panel in 19" rack - four rubber feet - user guide	1 set	WZ-4994-01-00-161
Temperature sensor 1.8 m (spare part)	1 pc.	T1Z-01-0045



MPSM-T MICROPROCESSOR PANEL FOR POWER AND TEMPERATURE CONTROL



Technical parameters

Power input	Power voltage	85-260 V AC
	Device power	40 W
	Frequency	50 Hz
	Maximum total current in sockets	10 A
Power outputs	Output voltage	85-260 V AC (depends on power voltage)
	Total current in power sockets	10 A
Security	Current	$i_{max} = 10$ A continuous for 150 % i_{max} turning off in 1 hour for 200 % i_{max} turning off in 5-25 sec. for 300 % i_{max} turning off in 1.6-4.8 sec. Parameters are valid for operating temperature +25 °C.
Measurements	Voltage	Measuring range: 85-260 V AC Resolution: 1 V Class: 5 % (for sinusoidal waveforms) Measurements frequency: 1/sec.
	Current	Measuring range: 0-10 A Resolution: 0,01 A Class: 5 % (for sinusoidal waveforms) Measurements frequency: series of 8/sec.
	Power	Measuring range: $f(u,i) = 0-2500$ VA Resolution: $f(u,i) = 1-3$ VA Class: 5 % (for sinusoidal waveforms) Measurements frequency: series of 8/sec.
	Temperature	Measuring range: 0-85 °C Resolution: 0.1 °C Measurement accuracy: max. ± 1 °C, typ. ± 0.5 °C Measurements frequency: 1/sec.
Conditions of work	Temperature	5-45 °C
	Humidity	20-80 % (without condensation)
Enclosure	Dimensions	19" x 1U x 190 mm
	Weight	2.5 kg
	Protection degree	IP 20
	Colour	RAL 9005
Compliance with the EMC and safety standards	PN-EN 61000-6-2:2008 - Electromagnetic compatibility (EMC) - Part 6-2: Generic standards - Immunity for industrial environments PN-EN 61000-6-4:2008 - Electromagnetic compatibility (EMC) - Part 6-4: Generic standards - Emission standard for industrial environments PN-EN 61131-2:2008 - Programmable controllers - Part 2: Equipment requirements and tests PN-EN 61010-1:2004 - Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements	



MPSM-T MICROPROCESSOR PANEL FOR POWER AND TEMPERATURE CONTROL

Application example



Example of programming the panel functions:

SOFT-START

The scenario for starting the devices after power supply recovery:

Time	Action
0 s	Power start
2 s	D6 (fan unit 2)
4 s	D7 (fan unit 1)
6 s	D8 (alarm lamp)
8 s	D4 (console)
10 s	D5 (switch)
12 s	D3 (tape library)
14 s	D2 (disc array)
90 s	D1 (server)

MASTER-SLAVE

Scenario for powering down and up Slave devices after powering down and up the Master device:
 D1 - Master
 D2, D3, D4, D5 - Slave
 $T = 5$ s (delay time for powering down and up the Slave devices)
 $I = 0.5$ A (current drawn from the Master slot; below this value, the Master device is regarded as powered-down)

THERMOSTAT

Scenario for powering-up cooling devices in the case of exceeding programmed temperature thresholds:
 D6: $t_{max} = 25$ °C
 D7: $t_{max} = 27$ °C
 D8: $t_{max} = 32$ °C

INTERNAL ALARMS

Load alarms
 D1: $I_{min} = 0.1$ A
 Temperature alarms
 $T_{max} = 35$ °C
 Voltage alarms
 $U_{max} = 250$ V
 $U_{min} = 207$ V
 If the current, temperature or voltage values are outside preset thresholds, the internal panel alarm will be signalled (sound signal and a flashing message on the display).



PW FAN UNITS - 19" ASSEMBLY

Fan units 1 U high, intended for assembly on 19" mounting profiles or in 19" swing frames.

In the standard version, they are equipped with between 2 and 6 fans, an illuminated switch and a fuse.

PW fan units can be controlled by thermostat or microprocessor panel for fan control.

Technical data:

Parameter	Type of fan unit			
	PW-1.2	PW-1.3	PW-2.4 PW-3.4	PW-2.6 PW-3.6
Power supply	230 V, 50 Hz			
Rated current [A]	0.24	0.36	0.48	0.72
Number of fans	2	3	4	6
Power rating [W]	44	66	88	132
Capacity [m ³ /h]	330	495	660	990
Ambient temperature [°C]	from -20 to +70			
Relative humidity [%]	from 20 to 80			
Protection degree	IP 20			
Electric shock protection	neutralization			

Material of enclosure:

Rear part - sheet steel
Front panel - sheet aluminium

Enclosure colour:

Light grey (RAL 7035)

Scope of delivery:

Fan unit with power cable (without plug) and fixing accessories.

Type of fan unit	Number of fans	Depth [mm]	Possibility of controlling fan units by		Catalogue number RAL 7035
			KTS thermostat*	microprocessor panel for fan control**	
PW-1.2	2	180	●		WZ-PW12-00-00-011
PW-1.3	3	180	●		WZ-PW13-00-00-011
PW-2.4	4	320	●	●	WZ-PW24-A0-00-011
PW-2.6	6	320	●		WZ-PW26-00-00-011
PW-3.4	4	380	●		WZ-PW34-00-00-011
PW-3.6	6	380	●		WZ-PW36-00-00-011

Package: 1 pc.

*) Thermostat - see page 116

**) Microprocessor panels for fan control - see pages 118-119

Fans used in fan units:

PW, PWD and PD fan units are provided with high quality fans with ball bearings.

Technical data of one fan:

- voltage rating..... 230 V
- frequency..... 50 Hz
- power rating..... 22 W
- rated current..... 0.14 A
- speed of rotation..... 2 600 1/min
- level of noise..... 45 dB
- pressure..... 75 Pa
- capacity..... 165 m³/h
- durability..... min. 50 000 h
- dimensions..... 119x119x38 mm



PWD AND PD ROOF FAN UNITS

PWD-4W and PWD-2W fan units are intended for assembly to 380 x 380 mm openings which are located in the top plates of SZB, OTS1, SZB PC, SZB SE and SZB SEI cabinets.

The PD-2W fan unit can be assembled to the 380 x 210 mm opening in the top plate of the SZB SE and SZB SEI cabinet.

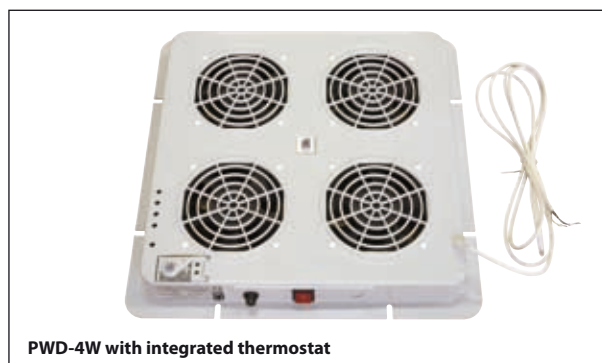
In the standard version, the units are equipped with 2 or 4 fans, an illuminated switch and a safety device.

PWD-4W fan units can be controlled by thermostat or microprocessor panel for fan control. Available is also version of PWD-4W fan unit with integrated KTS thermostat.

PWD-2W and PD-2W fan units can be controlled only by thermostat.



PWD-4W



PWD-4W with integrated thermostat

Technical data:

Parameter	Typ panelu		
	PWD-4W	PWD-2W	PD-2W
Power supply	230 V, 50 Hz		
Rated current [A]	0,48	0,24	0,24
Number of fans	4	2	2
Power rating [W]	88	44	44
Capacity [m ³ /h]	660	330	330
Ambient temperature [°C]	from -20 to +70		
Relative humidity [%]	from 20 to 80		
Protection degree	IP 20 (refers to fan units mounted in the cabinet)		
Electric shock protection	neutralization		



PWD-2W



PD-2W

Material of enclosure:

PWD-4W and PWD-2W fan units - plastic

PD-2W fan unit - sheet steel

Enclosure colour:

Light grey (RAL 7035) or black (RAL 9005)

Scope of delivery:

Fan unit with power cable (without plug) and fixing accessories.

Type of fan unit	Number of fans	For opening's dimensions [mm]	Possibility of controlling fan units by		Catalogue number	
			KTS thermostat*	microprocessor panel for fan control**	RAL 7035	RAL 9005
PWD-4W	4	380 x 380	●	●	WN-0200-06-01-011	WN-0200-06-01-161
PWD-4W with integrated thermostat	4	380 x 380	●		WN-0200-06-04-011	WN-0200-06-04-161
PWD-2W	2	380 x 380	●		WN-0200-07-01-011	WN-0200-07-01-161
PD-2W	2	380 x 210	●		WN-0200-03-00-011	WN-0200-03-00-161

Package: 1 pc.

*) Thermostat - see page 116

**) Microprocessor panels for fan control - see pages 118-119



THERMOSTAT

Application:

Thermostats are used for controlling fan units, heaters and heat exchangers; they can also be used as signal generators for monitoring the internal temperature of the enclosure.

Technical data:

- Sensor element:
thermal bimetal
- Temperature range:
0-60 °C, hysteresis ca. 7 °C.
- Contact types:
snap action contact
- Power carrying capacity:
6 A (1) 250 V AC
- Radio frequency interference:
N (according to VDE 0875)

Scope of delivery:

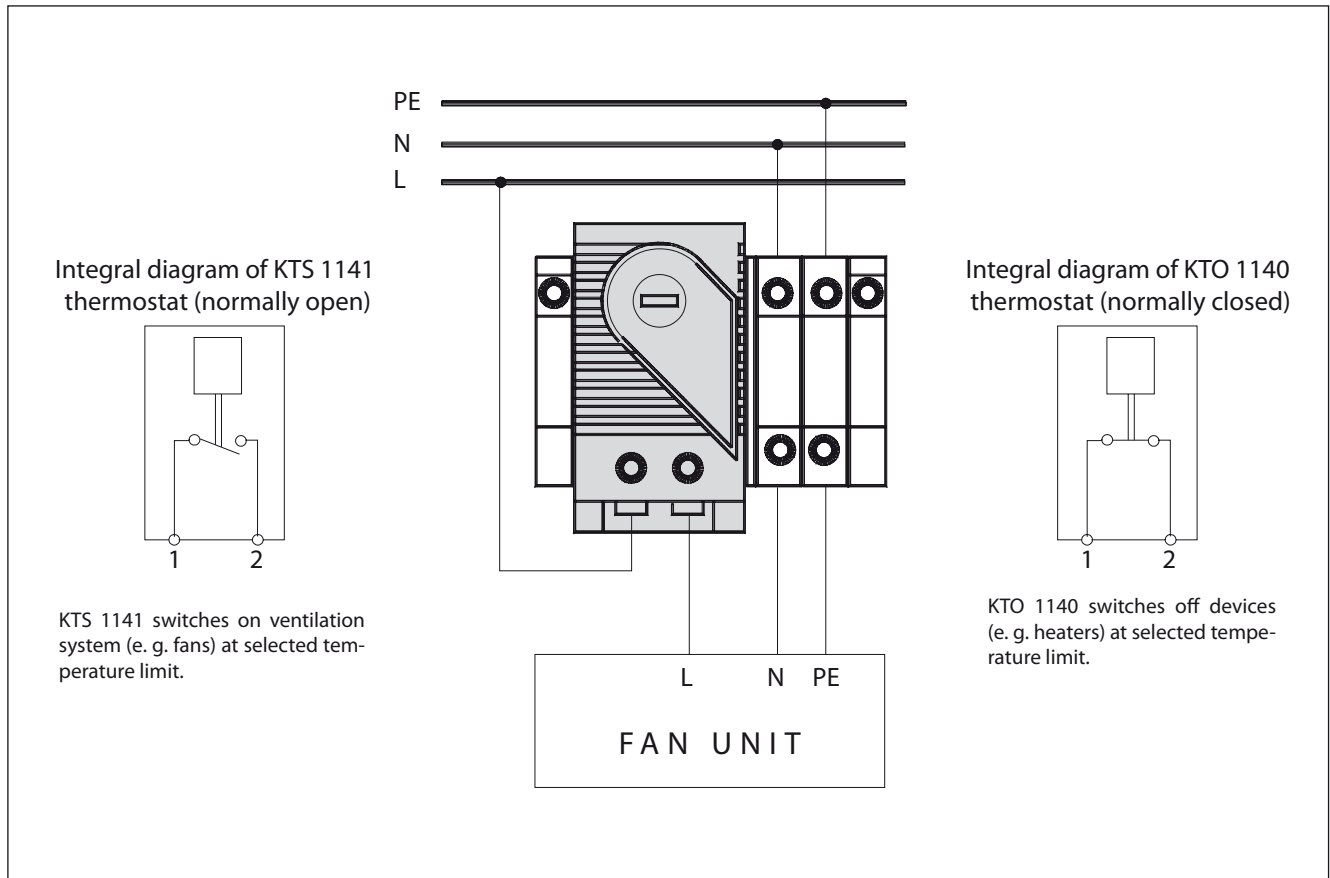
- KTS 1141 or KTO 1140 thermostat,
- DIN rail,
- two holders,
- two screw clamps.



KTS 1140 - thermostat normally open

Type of thermostat	Colour of handwheel	Package	Catalogue number
KTO 1140 - normally closed	●	1 pc.	WN-0201-01-00-000/A
KTS 1141 - normally open	●	1 pc.	WN-0201-02-00-000/A

Connection diagram



HYGROSTAT

Application:

Electric regulator of humidity controls air humidity, switches on fans, heaters or air conditioning units.

Technical data:

Measuring range:

50-100 % of relative humidity.

Measuring accuracy:

± 3 % of relative humidity.

Operating range:

50-90 % of relative humidity.

Deviation of switching referred to 50 % of relative humidity:

about 4 % of relative humidity.

Maximum voltage:

250 V AC.

Maximum load:

100 mA 20 V DC/AC.

Maximum load:

resistive 5 A, 230 V,

inductive $\cos \varphi = 0.8$: 0.2 A 230 V AC,

inductive L/R = 3 ms: 1 A to 50 V DC,
0.5 A to 75 V DC.

Scope of delivery:

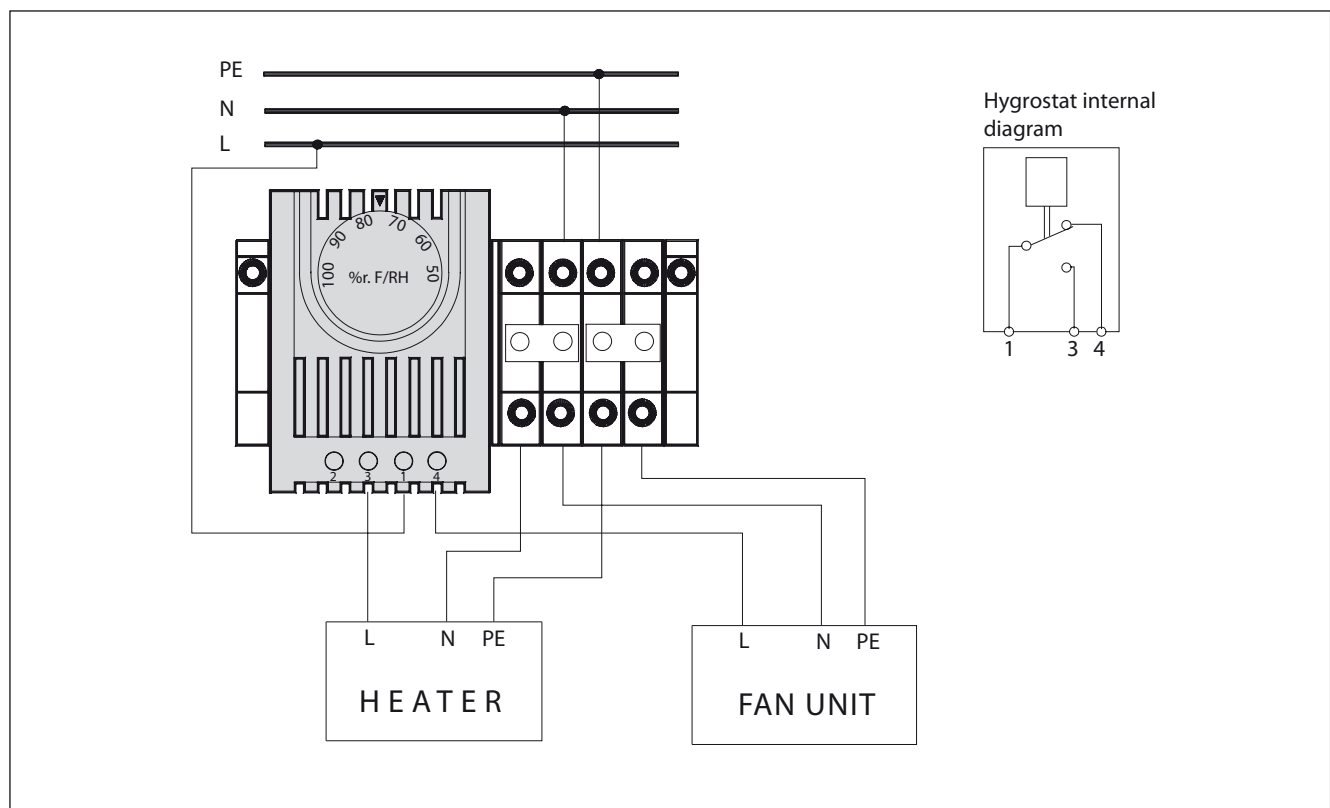
- hygrostat MFR 012i,
- DIN rail,
- two holders,
- two screw clamps.



MFR 012i hygromstat

Hygrostat	Package	Catalogue number
MFR 012i	1 pc.	WN-0201-03-00-000

Connection diagram



MPSK G0 MICROPROCESSOR PANEL FOR FAN CONTROL

Application:

Microprocessor panel for fan control is designed for measurement, control and automatic cabinet temperature maintenance at the pre-set threshold in 19" cabinets.

Principle of operation:

Panel temperature sensor continuously monitors and compares current temperature with pre-set threshold value, and causes switch on the fans of alternating current in four sequences.

Function possibilities:

- continuous temperature measurement,
- automatic fan selection for maintenance of pre-set parameters,
- possibility of service from PC by using RS 232 interface (data transmission in both directions),
- memory storage of pre-set parameters in case of power supply interruption.

Scope of delivery:

Microprocessor panel for fan control, temperature sensor with 2 m cable, fixing accessories.

Product name	Package	Colour	Catalogue number
MPSK G0 microprocessor panel for fan control with temperature sensor	1 set	RAL 7035	WZ-SB66-00-00-011
		RAL 9005	WZ-SB66-00-00-161

Software for communication with the MPSK G0 panel via a serial port can be downloaded from our web site at www.zpas.pl

Technical data:

Temperature measurement:

- measurement range from +5 °C to +80 °C
- indication resolution ± 1 °C
- measuring accuracy ± 1 °C

Setting parameters:

- control range of pre-set temperature threshold value from +5 °C to +80 °C
- tolerance range from the temperature threshold value from +1 °C to +10 °C
- delay range of switching on/off fans from 1 s to 99 s
- recovery time from the setting function to measurement: 10 s.

Displaying of measuring parameters:

Two-digit module LED:

- digits' height 14 mm
- green colour
- improved quality

Housing form:

- 19" panel 1 U height, light grey colour (RAL 7035) or black (RAL 9005).

Communication protocol with computer:

Parameters of RS 232 interface:

- transmission speed rate 9600 b/s
- 8 bits, without even parity bit
- 1 stop bit

Temperature sensor:

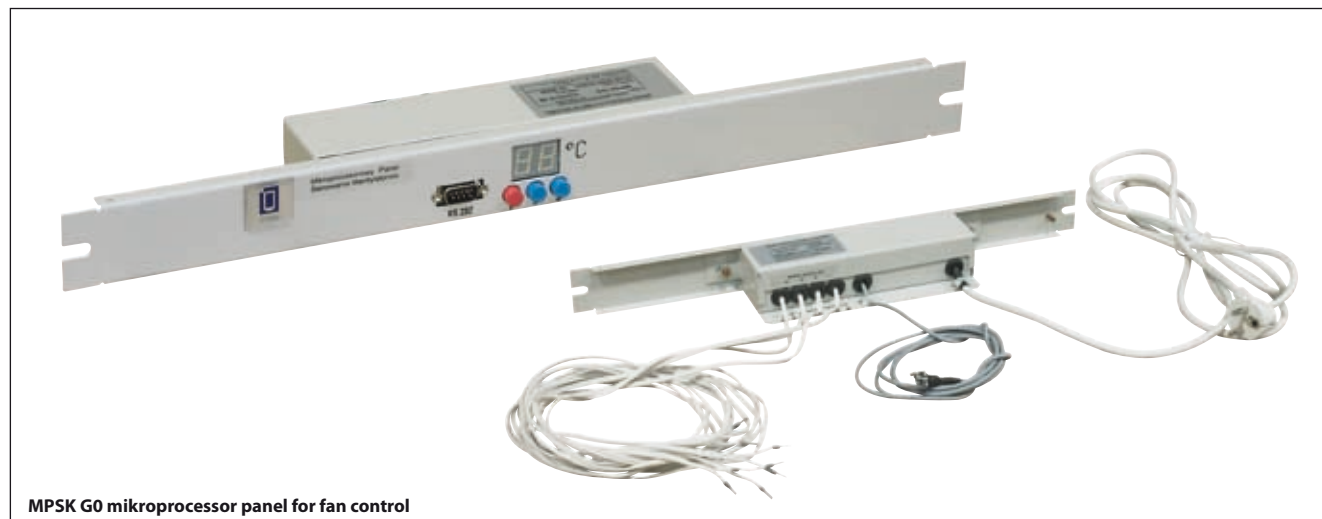
Miniature, fixed to metal structure by means of latch, cable length - 2 m

Fan connections:

- number of inputs - 4
- power supply - 230 V, 50 Hz
- input's power carrying capacity - 100 W

Power supply of the panel: 230 V, 50 Hz

Max. power consumption: 2 W



MPSK G0 mikroprocessor panel for fan control



MPSK G1 MICROPROCESSOR PANEL FOR FAN CONTROL AND CABINET SAFETY MONITORING

Intended purpose:

The basic function of the control device is overheating and over-cooling protection of devices installed in the 19" standard cabinets by measuring temperature and humidity levels in selected points within the cabinet and appropriate control of fans placed in the ventilation panel and heaters.

In addition, the control device makes it possible to supervise cabinet safety by monitoring two-step sensors (e.g. sensors signalling door-opening, flooding, power failure, smoke, etc.) and recording changes in status as events (with a time record) in the history of events which can then be read by the master system (e.g. PC) via a serial port. The event-recording function is also used to save e.g. instances of temperature and humidity sensors exceeding preset alarm levels and instances of detecting sensor failure.

Fully compatible with fire-extinguishing systems, the control unit cuts off power supply to output devices (fans, heaters) in the event of a fire hazard.

In the standard version, the control device is provided with a serial port which, in addition to event viewing, enables full remote control of the device. Communication is effected in the RS 232 or RS 485 standard via the Modbus protocol. Optionally, the MPSK G1 panel can be equipped with the Ethernet or USB interface.

Usable functions:

- 4 relay outputs for fan control.
- 1 relay output for heater control.
- 3-step control of fan unit operations by switching 2 or 4 fans depending on the maximum temperature of sensors.
- cooperation with the 4-fan or 6-fan panel (double parallel connection of two fans).
- function of uniform fan wear with programmable switching period.
- 3 two-step inputs for event-recording sensors activated e.g. by cabinet door opening or shock.
- event-recording function, activated e.g. by changes of the two-step input state, exceeding alarm levels of sensor temperature, sensor failure, fan failure, power supply failure (with max. 100 events recorded).
- built-in device clock, memory of settings, states and recorded events, battery-supplied.
- asynchronous RS 232 or RS 485 serial interface for communication with the master system to monitor sensor states, read recorded events, read and record settings and system time of the device.
- for each sensor, programmable and recordable settings of fan activation levels, hysteresis, alarm levels and correction factors of measurement errors.
- LCD display, 2x16 characters with illumination and 4-button keyboard for device programming and monitoring.
- password-protected access to settings and configuration via panel buttons and the serial interface.
- option of manual fan and heater control.



MPSK G1 panel with connected integrated temperature and humidity sensor

Parameters:

- Power supply: 12 V DC, 1 A
- Relay outputs: 250 V AC/DC, 16 A
- Measuring range: temperature from -50 °C to +99 °C; humidity from 10 % to 90 %
- Measurement accuracy: temperature 1 °C; humidity 1 %
- Dimensions: 19" x 1 U x 150 mm

Scope of delivery:

Control panel with fixing accessories for assembly inside a cabinet.

Note: For the device to operate properly, a temperature or humidity sensor is needed, that has to be ordered separately.

Product name	Package	Colour	Catalogue number
MPSK G1 microprocessor panel for fan control	1 pc.	RAL 7035	WN-0201-05-00-011
Temperature sensor with 2 m cable	1 pc.	–	WN-0201-06-00-000
Integrated temperature and humidity sensor with 2 m cable	1 pc.	–	WN-0201-08-00-000
ERS converter RS232/Ethernet	1 pc.	–	T-SO-990-138
Connecting cable for ERS converter	1 pc.	–	T-SO-990-141
Power adapter for ERS converter	1 pc.	–	T-SO-990-404

Software for communication with the MPSK G1 panel via a serial port can be downloaded from our web site at www.zpas.pl



FK-RACK FIRE EXTINGUISHER

Design

FK-RACK is designed as a single monolithic 19" panel, 3 U in height, made up of:

- central fire-extinguishing and fire detection unit
- two optical smoke detectors
- main manifold
- two tanks containing 1 kg of fire-extinguishing gas
- solenoid valve
- pressure switch
- fire supply 230 V AC / 24 V DC
- two 12 V batteries
- sounder
- pressure gauge



FK-RACK panel – front view

Operation

FK-RACK, a single-zone automatic fire alarm control panel, is designed for fire detection and control of the fireextinguishing process via the solenoid valve fitted in the main manifold connected to tanks containing FE-36 extinguishing gas. The panel can be fitted in RACK-type server cabinets or automatic control cabinets with a maximum volume of 3 m³.

The panel is equipped with two optical smoke sensors, each in a separate fire detection line, which analyse air transparency. Following detection of aerosols such as smoke, they activate an appropriate procedure.

An activation of one sensor triggers a sounder and a red LED (PREALARM) lights up in one of the detection lines. An activation of the other sensor causes the red alarm LED to light up (the PREALARM LED goes out) and the in-built clock starts counting down to the release of the FE-36 extinguishing agent. After 30 seconds, the solenoid valve in the main manifold is opened, releasing FE-36 gas.

Throughout the entire process, the user controls the operation of the panel by means of a range of LEDs and a pressure gauge indicating the pressure level in the manifold. Additionally, pressure is controlled by means of pressure switch placed on the manifold. Any pressure drop makes the orange LED light up.

All electrical circuits of the sensors, solenoid valve and pressure gauge are monitored for continuity. Any interruption of circuit continuity causes a corresponding LED to light up, signalling the fault of a specific element.

In the event of failure of the basic power supply, the central control unit is provided with a battery (2 x 12 V).

Product name	Package	Catalogue number
Fire extinguisher FK-RACK-2 Master with 2 kg of the FE-36 extinguishing agent	1 pc.	T-SO-990-151
Fire extinguisher FK-RACK-2 Slave with 2 kg of the FE-36 extinguishing agent	1 pc.	T-SO-990-154
Cylinder for the fire extinguisher with 2 kg of FE-36, complete with manifold and valve	1 pc.	T-SO-990-156



LIGHTING KIT

For floor-standing and wall-mounted cabinets.
 19" assembly, usable height 1 U.
 Possibility for fixing the light fitting on mounting bracket in 3 different positions.

Material of mounting bracket:

Sheet steel, powder painted in light grey (RAL 7035) or black (RAL 9005)

Scope of delivery:

Electric light fitting with a fluorescent lamp 230 V, 8 W and a switch, a bracket for fixing the electric light fitting on the 19" mounting profiles, power supply cable, fixing accessories.
 The power supply cable can be equipped with a micro switch that automatically switches on and off the light when the door opens and closes.

Product name	Package	Colour	Catalogue number
Lighting kit without a micro switch	1 set	RAL 7035	WZ-3074-64-00-011
		RAL 9005	WZ-3074-64-00-161
Lighting kit with a micro switch	1 set	RAL 7035	WZ-3477-11-00-011
		RAL 9005	WZ-3477-11-00-161

Lighting kit without a micro switch



Lighting kit with a micro switch

MAINTENANCE AND CLEANING AGENTS FOR PAINTED SURFACES

Product name	Package	Catalogue number
Spray paint, colour RAL 7035	400 ml	M1D-01-0004
Spray paint, colour RAL 9005 matt	400 ml	M1D-01-0010
Maintenance and cleaning foam for painted surfaces	400 ml	M1N-02-0073



Spray paint



Maintenance and cleaning foam

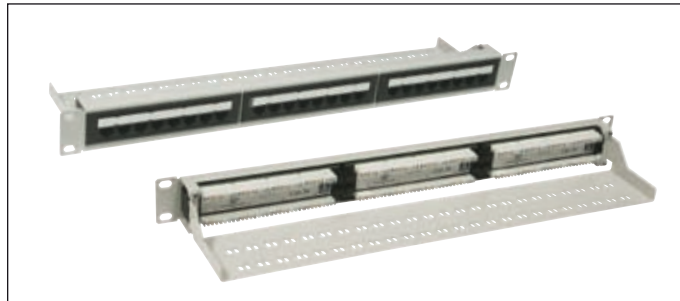


COPPER CABLING COMPONENTS

PowerLink System UTP cat. 5e

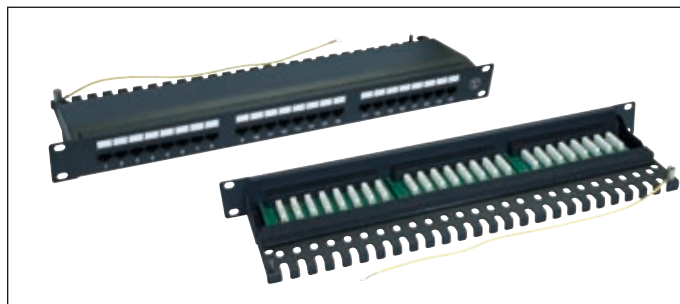
Patch panel UTP 19" 1U, cat. 5e, 24 ports, with cable management bar

cable ties and fixing accessories included
 Dimensions [mm]: 483 x 44 x 100
 Colour: RAL 7035 (light grey)
 Catalogue number: WNK-805-114



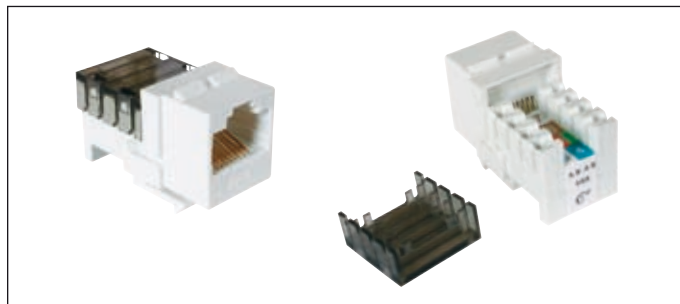
Patch panel UTP 19" 1U, cat. 5e, 24 ports, with cable management bar and cover

cable ties and fixing accessories included
 Dimensions [mm]: 483 x 44 x 140
 Colour: RAL 9005 (black)
 Catalogue number: T-SO-831-918



Keystone module UTP RJ45, cat. 5e

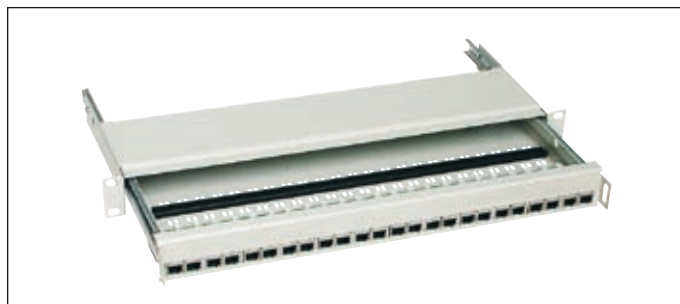
Dimensions [mm]: 14,8 x 19 x 19,9
 Colour: white
 Catalogue number: T-SO-900-025



PowerSafe System STP cat. 5e

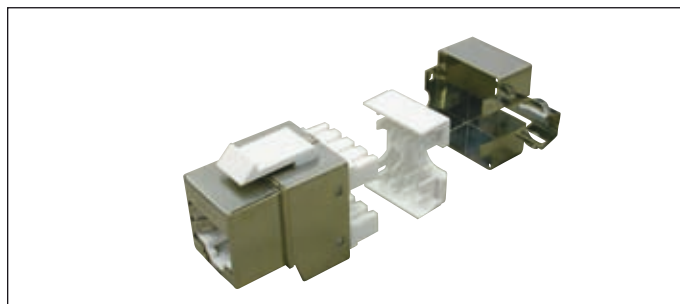
Patch panel STP 19" 1U, drawer type, cat. 5e, 24 ports

cable ties and fixing accessories included
 Dimensions [mm]: 483 x 44 x 250
 Colour: RAL 7035 (light grey)
 Catalogue number: WNK-805-524



Keystone module STP RJ45, cat. 5e

Dimensions [mm]: 19,7 x 24 x 34
 Colour: white
 Catalogue number: T-SO-832-921



COPPER CABLING COMPONENTS

PowerLink TX System UTP cat. 6

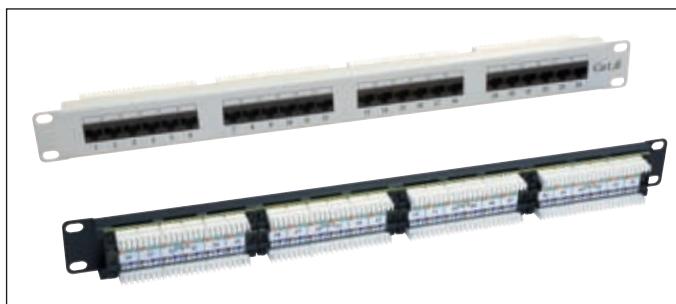
Patch panel UTP 19" 1U, cat. 6, 24 ports

cable ties included, no fixing accessories

Dimensions [mm]: 483 x 44 x 30

Colour: RAL 7035 (light grey) RAL 9005 (black)

Catalogue number: T-SO-806-114 T-SO-806-116



Keystone module UTP RJ45, cat. 6

Dimensions [mm]: 16 x 22 x 43

Colour: white

Catalogue number: T-SO-834-912



PowerSafe TX System STP cat. 6

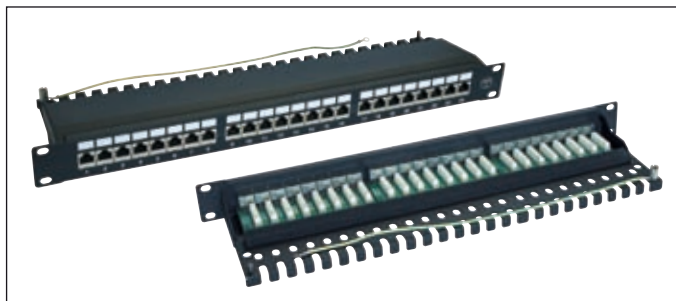
Patch panel STP 19" 1U, cat. 6, 24 ports

cable ties and fixing accessories included

Dimensions [mm]: 483 x 44 x 140

Colour: RAL 9005 (black)

Catalogue number: T-SO-900-126



Keystone module UTP RJ45, cat. 6

Dimensions [mm]: 17 x 24 x 54

Colour: white

Catalogue number: T-SO-834-922



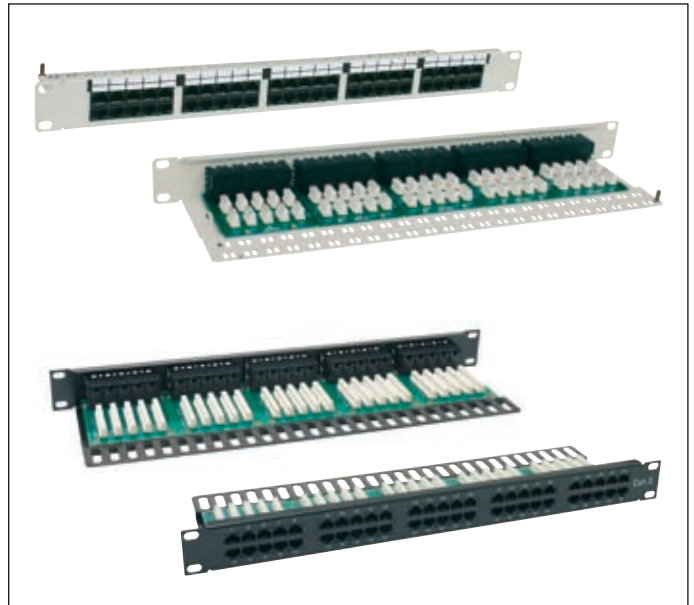
COPPER CABLING COMPONENTS

Power VS telephone system cat. 3

Telephone patch panel 19" 1U, cat. 3, 50 ports

cable ties and fixing accessories included
(only in light grey panel)

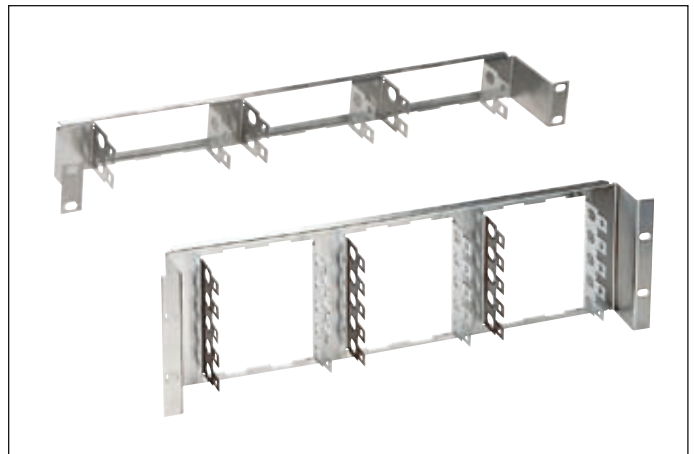
Dimensions [mm]:	483 x 44 x 110	483 x 44 x 140
Colour:	RAL 7035 (light grey)	RAL 9005 (black)
Catalogue number:	WNK-807-155	T-SO-900-050



Mount frame for telephone modules

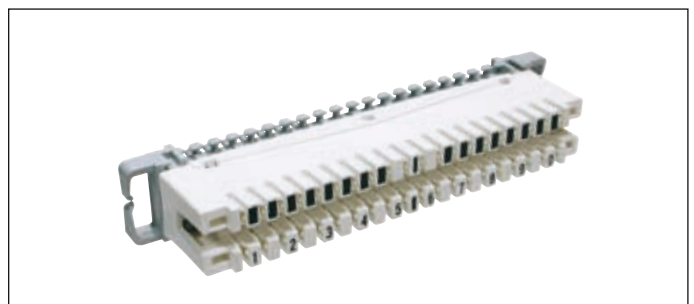
fixing accessories included

Material:	sainless steel	
Capacity:	6 modules	15 modules
Height [U]:	1U	3U
Dimensions [mm]:	483 x 44 x 81	483 x 133 x 81
Catalogue number:	WNK-803-160	T-SO-803-115



Telephone connector - disconnecting module

Capacity:	10 pairs
Dimensions [mm]:	124 x 19,5 x 40
Colour:	white
Calatogue number:	T-SO-870-500



COPPER CABLING COMPONENTS

Cable organizers

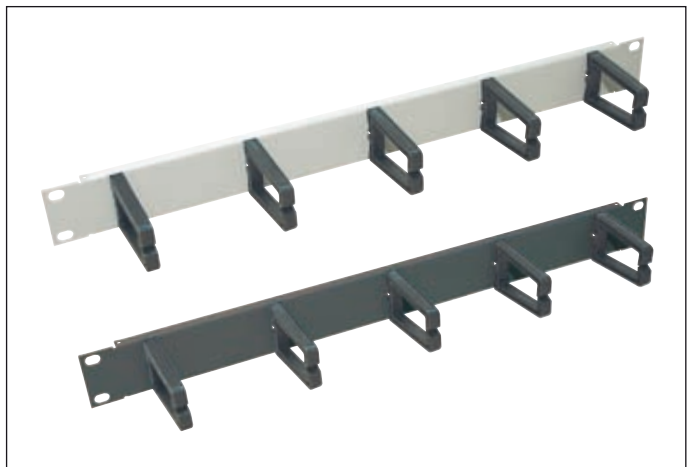
Cable organizer 19" 1U with fixed clamps

Dimensions [mm]: 483 x 44 x 80
 Colour of metal part: RAL 7035 (light grey)
 Catalogue number: WNK-811-000



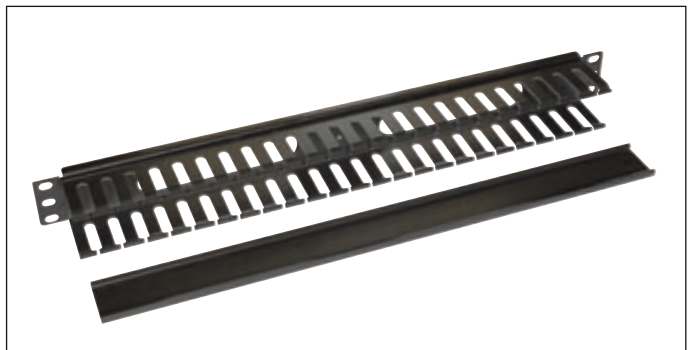
Cable organizer 19" 1U with turnable clamps

Dimensions [mm]: 483 x 44 x 70
 Colour of metal part: RAL 7035 (light grey) RAL 9005 (black)
 Catalogue number: WNK-811-100 WNK-811-101



Cable organizer 19" 1U with cable duct and cable openings

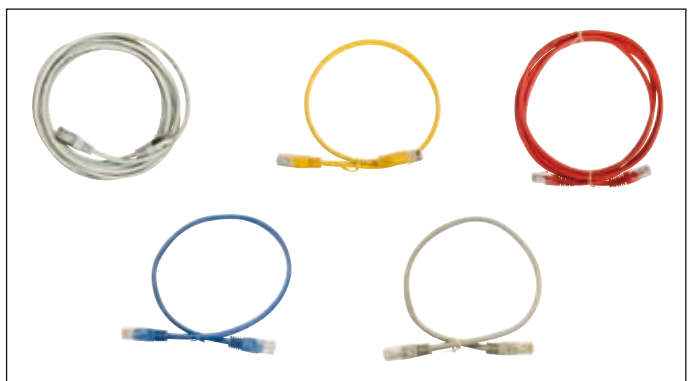
Dimensions [mm]: 483 x 44 x 62
 Colour: RAL 9005 (black)
 Catalogue number: T-SO-900-004



Patch cords cat. 5e and cat. 6

Available types of patch cords:

- UTP cat. 5e and cat. 6 patch cords are available in the following colours: grey, ivory, black, red, green, blue, yellow, orange, brown, purple and pink
 - FTP cat. 5e and cat. 6 patch cords available in the following colours: grey, ivory, black, red, green, blue, yellow
 - SSTP cat. 6 patch cords available in the following colours: grey, ivory, black, red, green, blue, yellow
- We also offer Cross Over, 6A SSTP PiMF patch cords.



OPTICAL FIBRE CABLING COMPONENTS

OptiTel fibre optic telecommunication enclosures

OptiTel SPS II cabinet for fibre optic patch panels

Max. number of cables: 8
 Useful height: 45U
 Overall dimensions [mm]: 800 x 2000 x 600
 Colour: RAL 7035 (light grey)
 Catalogue number: WNK-405-123

Scope of delivery: cabinet's frame, glass front door, removable panels (side and rear), separated compartment for patch cords 200 mm width, 4 mounting profiles in 19" spacing, foam cable entry in top and bottom plate of the cabinet, RTR-8 tube distributor, earthing strip and cables.

Supplementary accessories for OptiTel SPS II cabinet (ordered separately)

- 1) OptiTel MZ module of reserve
 cat. no. WK-878-015
- 2) Additional cross framework for module of reserve
 cat. no. WNK-878-002
- 3) OptiTel SZP 19" 1U drawer of cable reserve
 depth 200 mm - cat. no. WK-874-421
 depth 280 mm - cat. no. WK-874-431



OPTICAL FIBRE CABLING COMPONENTS

OptiTel fibre optic telecommunication enclosures

OptiTel PSP fibre optic patch panels

1) OptiTel PSP 19/1U/12

19" standard, height 1U, 12 adapter ports

Depth [mm]:	200	280
Type of adapters:	SC/E2000	SC/E2000
Catalogue number:	WNK-875-103	WNK-875-403

2) OptiTel PSP 19/1U/24

19" standard, height 1U, 24 adapter ports

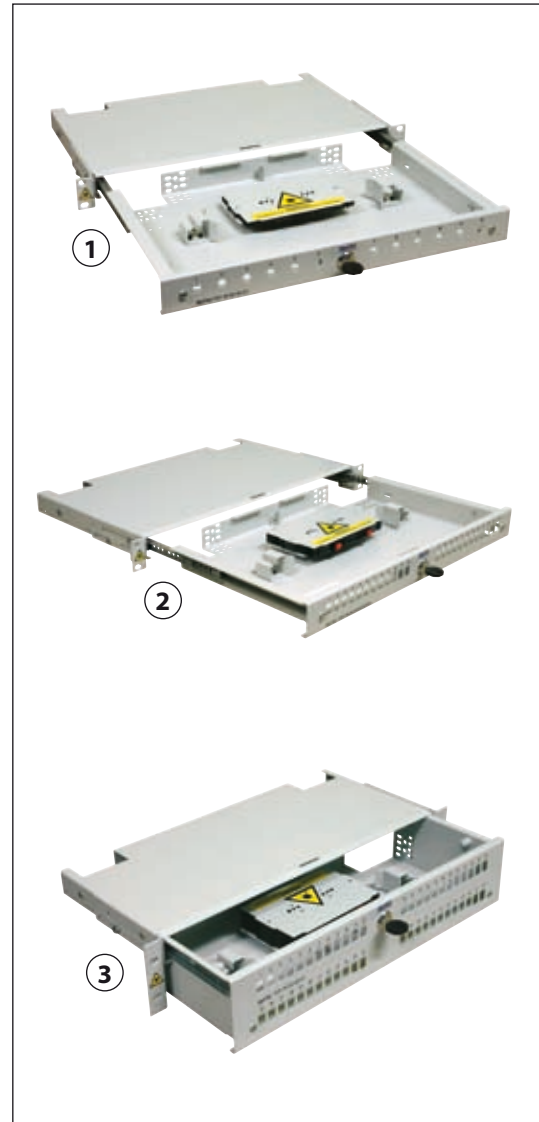
Depth [mm]:	200	280	280	280
Type of adapters:	SC/E2000	SC/E2000	ST	FC
Catalogue number:	WNK-875-102	WNK-875-402	WNK-875-404	WNK-875-406

3) OptiTel PSP 19/2U/48

19" standard, height 2U, 48 adapter ports

Depth [mm]:	200	280
Type of adapters:	SC/E2000	SC/E2000
Catalogue number	WNK-875-103	WNK-875-403

Scope of delivery: OptiTel PSM patch panel with splice cassettes and fixing accessories.
Adapters and pigtailed to be ordered separately - see page 131.



OptiTel PSN wall-mounted fibre optic distribution box

Max. number of cables:	4
Overall dimensions [mm]:	480 x 400 x 100
Colour:	RAL 7035 (light grey)
Number of adapter ports:	24 48
Number of splice cassettes:	2 2
Type of adapters:	SC/E2000 SC/E2000
Catalogue number:	WNK-876-102 WNK-876-101

Scope of delivery: OptiTel PSN box with splice cassettes.
Adapters and pigtailed to be ordered separately - see page 131.



OPTICAL FIBRE CABLING COMPONENTS



OPTICAL FIBRE CABLING COMPONENTS

OptiLAN fibre optic enclosures for local area network

OptiLAN PSP 19/1U/24 fibre optic patch panel

19" standard, height 1U, 24 adapter ports

Depth [mm]:	280	280
Type of adapters:	SC/E2000	ST
Catalogue number:	WNK-877-401	WNK-877-402

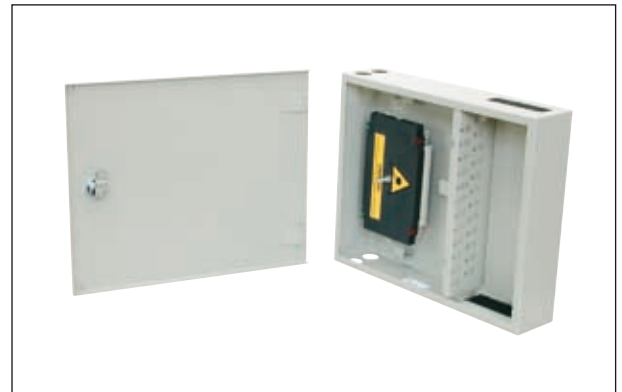
Scope of delivery: OptiLAN PSP patch panel with splice cassettes and fixing accessories. Adapters and pigtails to be ordered separately - see page 131.



OptiLAN PSN 2/24 wall-mounted fibre optic distribution box

Max. number of cables:	2	
Number of adapter ports:	24	
Number of splice cassettes:	2	
Overall dimensions [mm]:	344 x 285 x 80	
Type of adapters:	SC/E2000	ST
Catalogue number:	WNK-877-301	WNK-877-302

Scope of delivery: OptiLAN PSN box with splice cassettes. Adapters and pigtails to be ordered separately - see page 131.



OptiTel cable reserve boxes and frames

1) OptiTel SZK-1/4 box with four arms frame

Wall mounted.	
With lockable cover.	
Dimensions [mm]:	600 x 600 x 178
Capacity:	50-100 m of cable
Catalogue number:	WNK-879-004

2) OptiTel STZK-2/4 four arms frame

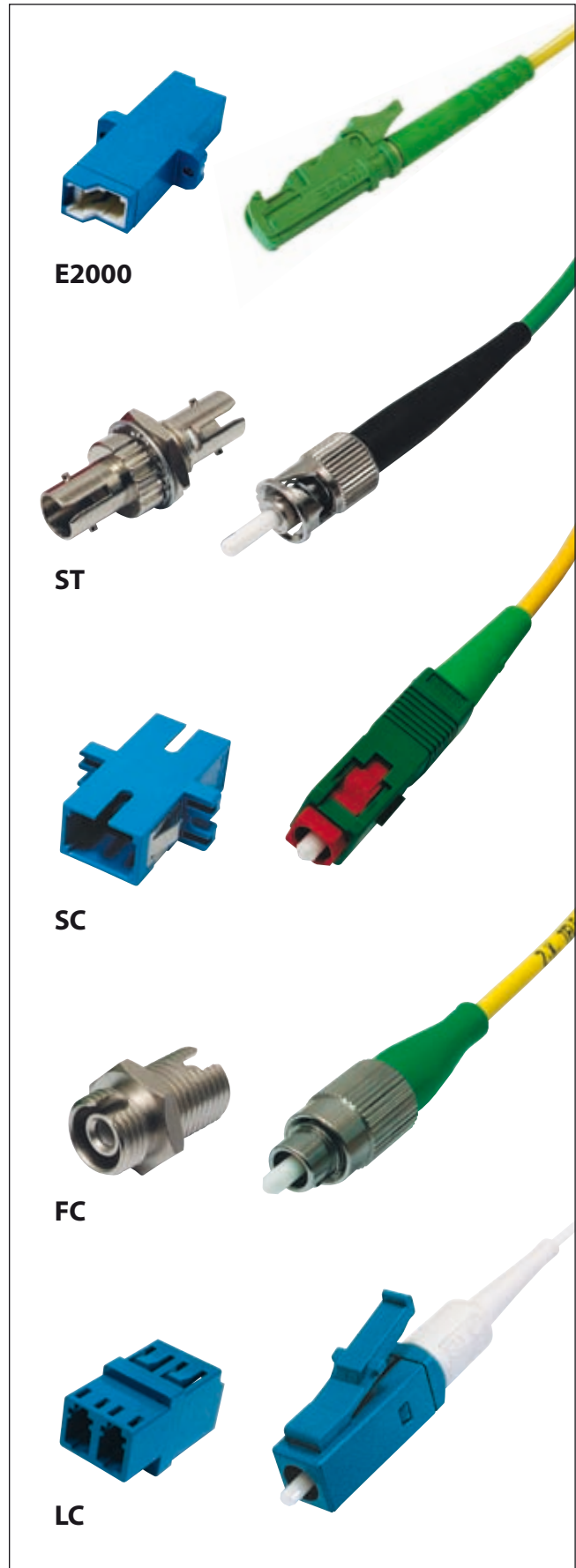
Wall mounted.	
Dimensions [mm]:	565 x 565 x 126
Capacity:	50-100 m of cable
Catalogue number:	WNK-879-001



OPTICAL FIBRE CABLING COMPONENTS





Fibre optic pigtails, patch cords and adapters

Type	Catalogue number
Pigtail SM 9/125	
E2000/APC, 2 m	T-SO-700-001
SC/APC, 2 m	T-SO-700-002
SC/PC, 2 m	T-SO-700-003
FC/PC, 2 m	T-SO-700-004
ST/PC, 2 m	T-SO-700-005
LC/PC, 2 m	T-SO-700-006
LC/APC, 2 m	T-SO-700-007
Pigtail MM 50/125 and 62,5/125	
SC, 2 m	T-SO-700-100
ST, 2 m	T-SO-700-101
LC, 2 m	T-SO-700-102
Patch cord SM 50/125 OM2 duplex	
ST-ST, 1 m	T-SO-700-400
ST-ST, 2 m	T-SO-700-401
SC/PC-SC/PC, 1 m	T-SO-700-402
SC/PC-SC/PC, 2 m	T-SO-700-403
SC/APC-SC/APC, 1 m	T-SO-700-404
SC/APC-SC/APC, 2 m	T-SO-700-405
LC-LC, 1 m	T-SO-700-406
LC-LC, 2 m	T-SO-700-407
E2000/APC-E2000/APC, 1 m	T-SO-700-408
E2000/APC-E2000/APC, 2 m	T-SO-700-409
Patch cord MM 50/125 OM2 duplex	
ST-ST, 1 m	T-SO-700-300
ST-ST, 2 m	T-SO-700-301
SC-SC, 1 m	T-SO-700-302
SC-SC, 2 m	T-SO-700-303
LC-LC, 1 m	T-SO-700-304
LC-LC, 2 m	T-SO-700-305
Adapter SM	
E/2000/APC, simplex	T-SO-700-500
FC/APC, simplex	T-SO-700-501
LC/APC, duplex	T-SO-700-502
SC/APC, simplex	T-SO-700-503
SC/APC, duplex	T-SO-700-504
SC/PC, simplex	T-SO-700-505
SC/PC, duplex	T-SO-700-506
LC/PC, duplex	T-SO-700-507
ST/PC, simplex	T-SO-700-508
Adapter MM	
LC/PC, duplex	T-SO-700-600
SC/PC, simplex	T-SO-700-601
SC/PC, duplex	T-SO-700-602
ST/PC, simplex	T-SO-700-603



CONSOLES

KVM consoles are devices designed for network administrators managing multiple servers. The consoles are equipped with 17" or 19" LCD displays with an TFT Active Matrix, ultraslim keyboard and touchpad. A single console occupies a height of 1 U in a 19" rack-type cabinet. The consoles secure the highest quality of image, and are compatible with dedicated KVM MER, VEN and MAR switches.

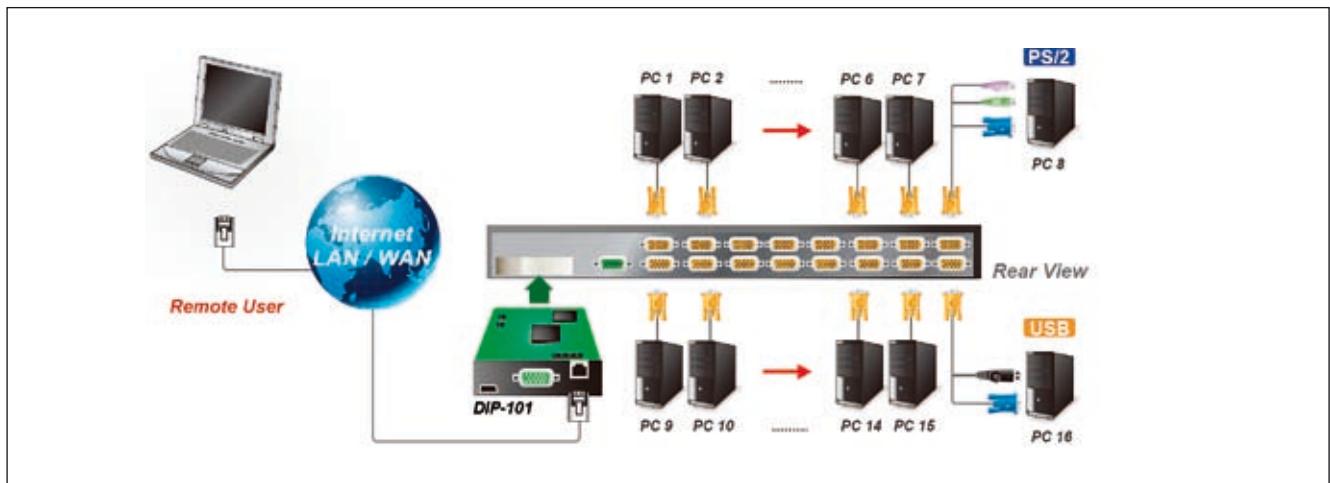
Console	 CORN 17	 CORN 19	 GEM 17	 GEM 19
Catalogue number	T-SO-970-102	T-SO-970-103	T-SO-970-002	T-SO-970-003
Usage	1 PC to 1 console	1 PC do 1 console	1 PC to 1 console	1 PC to 1 console
Matrix	Active TFT LCD, 17"	Active TFT LCD, 19"	Active TFT LCD, 17"	Active TFT LCD, 19"
Rail	Single	Single	Dual	Dual
Resolution capabilities	1280 x 1024	1280 x 1024	1280 x 1024	1280 x 1024
Pixel pitch	0.264 x 0.264 mm	0.298 x 0.294 mm	0.264 x 0.264 mm	0.298 x 0.294 mm
Viewing angle	70° right-left view 60° up-down view	140° right-left view 140° up-down view	70° right-left view 60° up-down view	140° right-left view 140° up-down view
Contrast ratio	450 ÷ 1	500 ÷ 1	450 ÷ 1	500 ÷ 1
Brightness	250 cd/m ²	250 cd/m ²	250 cd/m ²	250 cd/m ²
Back light	4 lamps	4 lamps	4 lamps	4 lamps
Supported colors	16.7 milion colors	16.7 milion colors	16.7 milion colors	16.7 milion colors
Response time	2 ms (rising time) 14 ms (decay time)	2 ms (rising time) 10 ms (decay time)	2 ms (rising time) 14 ms (decay time)	2 ms (rising time) 10 ms (decay time)
Slots number	1	1	1	1
Ports number PC	1	1	1	1
Synchronization	45 ÷ 80 kHz	45 ÷ 80 kHz	45 ÷ 80 kHz	45 ÷ 80 kHz
Keyboard	106 buttons, PS/2, touchpad	106 buttons, PS/2, touchpad	106 buttons, PS/2, touchpad	106 buttons, PS/2, touchpad
Power consumption	25 W	25 W	25 W	25 W
Power supply	~230 V AC	~230 V AC	~230 V AC	~230 V AC
Temperature	0 °C ÷ 50 °C	0 °C ÷ 50 °C	0 °C ÷ 50 °C	0 °C ÷ 50 °C
Humidity	10 % ÷ 90 %, non-condensing	10 % ÷ 90 %, non-condensing	10 % ÷ 90 %, non-condensing	10 % ÷ 90 %, non-condensing
Certification	CE, FCC, UL, CUL, C-Tick, GOST	CE, FCC, UL, CUL, C-Tick, GOST	CE, FCC, UL, CUL, C-Tick, GOST	CE, FCC, UL, CUL, C-Tick, GOST



CONSOLES WITH KVM SWITCHES

Functionality

- Local and remote console
- Cat. 5 console with a maximum range of 300 m with automatic image setting function
- USB and PS/2 interfaces
- Support for Windows / Linux / DOS / Netware / Unix / Mac OS
- Possibility of connecting a PC without necessity of turning off console or PC
- High resolution - up to 1600 x 1200 px
- Managing computers using the OSD / keyboard shortcuts / buttons
- No software installation required
- Daisy Chain function stacking connections
- Auto Scan Mode for monitoring PC
- Upgradeable firmware
- Durable steel construction






Model	KLB-108	KLC-108	KLB-116	KLC-116
Catalogue number	TS-O-970-700	TS-O-970-701	TS-O-970-707	TS-O-970-708
Matrix	17"	19"	17"	19"
Weight	21.1 kg	23.1 kg	21.5 kg	23.5 kg
PC or KVM ports	8		16	
Max. number of ports	1024		2048	
PC ports	HDB15 (F)			
Remote console cat. 5	Optional cat. 5 console with RJ45 connector, max. range 300 mm, automatic image setting			
IP console	Optional IP console (Ethernet 10/100 Mbps), DB9 connector for modem and power control, mini USB 2.0 connector			
Daisy Chain	Bus up to 8 levels, DB15 (F) connector			
Choice of the active PC port	Display menu (OSD), hotkeys, button			
Keyboard shortcut	Customizable hotkeys (Scroll Lock / Caps Lock / Num Lock / Alt / CTRL / Win)			
Interval of automatic scanning ports	from 5 to 99 sec.			
Resolution	1280 x 1024 px			
Resolution (remote console)	1600 x 1200 for cat. 5 console @ 150 m; 1024 x 768 for cat. 5 console @ 300 m 1600 x 1200 for IP console			
Enclosure	metall, 1U 19"			
Dimensions	600 x 450 x 44 mm			







KVM SWITCHES

Designed for connecting KVM console with workstations (servers). KVM MER, VEN and MAR switches are dedicated to CORN and GEM consoles.

Switch	 MER 8D	 MER 16D	 VEN 8D
Catalogue number	T-SO-970-201	T-SO-970-202	T-SO-970-203
Usage	8 PC to 1 user / stackable, for mounting in CORN/GEM consoles	16 PC to 1 user / stackable, for mounting in CORN/GEM consoles	8 PC to 2 users (1+1) / stackable, for mounting in CORN/GEM consoles
PC ports	8x HDB15(F)	16x HDB15(F)	8x HDB15(F)
Max. distance (KVM switch - Host)	5 m (depending on terminal type)	5 m (depending on terminal type)	5 m (depending on terminal type)
Required cabling	dedicated integrated connections	dedicated integrated connections	dedicated integrated connections
Types of supported PC ports (keyboard/mouse)	PS/2	PS/2	PS/2 or USB
Console ports	–	–	1 (one local) 1 IP-based remote console
Available modules of the remote console	–	–	Cat. 5 or IP
Port Daisy Chain	1x HDB15(F)	1x HDB15(F)	1x HDB15(F)
Max. PC connections	64	128	64
Max. switch connections	8 (serial)	8 (serial)	8 (serial)
Choice of the active PC port	keyboard shortcut / OSD	keyboard shortcut / OSD	keyboard shortcut / OSD
Display menu OSD	Yes	Yes	Yes
Interval of automatic scanning ports	from 5 to 99 sec.	from 5 to 99 sec.	from 5 to 99 sec.
Max. resolution (Local console)	1920 x 1440	1920 x 1440	1920 x 1440
Max. resolution (Remote console)	–	–	1600 x 1200 for cat. 5 module 150 m, 1024 x 768 for cat. 5 module 300 m, 1600 x 1200 for IP module
Cover	metal	metal	metal
Power supply	DC power adapter 12 V DC 1 A, ~230 V AC 50 Hz	DC power adapter 12 V DC 1 A, ~230 V AC 50 Hz	DC power adapter 12 V DC 1 A, ~230 V AC 50 Hz
Dimensions	420 x 170 x 41.4 mm	420 x 170 x 41.4 mm	420 x 170 x 41.4 mm



KVM SWITCHES

			
VEN 16D	MAR 8D	MAR 16D	MAR 32D
T-SO-970-204	T-SO-970-205	T-SO-970-206	T-SO-970-207
16 PC to 2 users (1+1) / stackable, for mounting in CORN/GEM consoles	8 PC to 2 users (1+1) / stackable, for mounting in CORN/GEM consoles	16 PC to 2 users (1+1) / stackable, for mounting in CORN/GEM consoles	32 PC to 2 users (1+1) / stackable, for mounting in CORN/GEM consoles
16x HDB15(F)	8x 8p8c(F) RJ-45	16x 8p8c(F) RJ-45	32x 8p8c(F) RJ-45
5 m (depending on terminal type)	150 m with the DCC-001	150 m with the DCC-001	150 m with the DCC-001
dedicated integrated connections	twisted pair cable, category 5e, 6 or higher	twisted pair cable, category 5e, 6 or higher	twisted pair cable, category 5e, 6 or higher
PS/2 or USB	PS/2 or USB	PS/2 or USB	PS/2 or USB
1 (one local) 1 IP-based remote console	1 (one local) 1 IP-based remote console	1 (one local) 1 IP-based remote console	1 (one local) 1 IP-based remote console
Cat. 5 or IP	Cat. 5 or IP	Cat. 5 or IP	Cat. 5 or IP
1x HDB15(F)	1x HDB15(F)	1x HDB15(F)	1x HDB15(F)
128	64	128	256
8 (serial)	8 (serial)	8 (serial)	8 (serial)
keyboard shortcut / OSD	keyboard shortcut / OSD	keyboard shortcut / OSD	keyboard shortcut / OSD
Yes	Yes	Yes	Yes
from 5 to 99 sec.	from 5 to 99 sec.	from 5 to 99 sec.	from 5 to 99 sec.
1920 x 1440	1600 x 1200	1600 x 1200	1600 x 1200
1600 x 1200 for cat. 5 module 150 m, 1024 x 768 for cat. 5 module 300 m, 1600 x 1200 for IP module	1600 x 1200 for cat. 5 module 150 m, 1024 x 768 for cat. 5 module 300 m, 1600 x 1200 for IP module	1600 x 1200 for cat. 5 module 150 m, 1024 x 768 for cat. 5 module 300 m, 1600x1200 for IP module	1600 x 1200 for cat. 5 module 150 m, 1024 x 768 for cat. 5 module 300 m, 1600 x 1200 for IP module
metal	metal	metal	metal
DC power adapter 12 V DC 1 A, ~230 V AC 50 Hz	DC power adapter 12 V DC 1 A, ~230 V AC 50 Hz	DC power adapter 12 V DC 1 A, ~230 V AC 50 Hz	DC power adapter 12 V DC 1 A, ~230 V AC 50 Hz
420 x 170 x 41.4 mm	420 x 170 x 41.4 mm	420 x 170 x 41.4 mm	420 x 170 x 41.4 mm





KVM SWITCHES OX 19"


Switch	KSC-108A	KSC-108B	KSC-108E	KCC-108A
Catalogue number	T-SO-970-600	T-SO-970-602	T-SO-970-604	T-SO-970-606
Usage	8 PC to 1 user / stackable	8 PC to 2 users (1+1) / stackable	8 PC to 2 users (1+1) / stackable	8 PC to 2 users (1+1) / stackable
PC ports	8x HDB15(F)	8x HDB15(F)	8x HDB15(F)	8x 8p8c(F) RJ-45
Max. distance (KVM switch - Host)	5 m (depending on terminal type)	5 m (depending on terminal type)	5 m (depending on terminal type)	150 m with Oxca DCC-001
Required cabling	dedicated integrated connections	dedicated integrated connections	dedicated integrated connections	twisted pair cable, category 5e, 6 or higher
Types of supported PC ports (keyboard/mouse)	PS/2 or USB	PS/2 or USB	PS/2 or USB	PS/2 or USB
Console ports	1x VGA HDB15(F) + 2x PS/2 mini DIN 6(F), 1 widening port for the module of remote console	1x VGA HDB15(F) + 2x PS/2 mini DIN 6(F), 1 widening port for the module of remote console	1x VGA HDB15(F) + 2x USB A(F), 1 widening port for the module of remote console	1x VGA HDB15(F) + 2x USB A(F), 1 widening port for the module of remote console
Available modules of the remote console	-	Cat. 5 or IP	Cat. 5 or IP	Cat. 5 or IP
Port Daisy Chain	1x HDB15(F)	1x HDB15(F)	1x HDB15(F)	1x HDB15(F)
Max. PC connections	64	64	64	64
Max. switch connections	8 (serial)	8 (serial)	8 (serial)	8 (serial)
Choice of the active PC port	keyboard shortcut / OSD / button	keyboard shortcut / OSD / button	keyboard shortcut / OSD / button	keyboard shortcut / OSD / button
Display of the switch number	7-sectional LED	7-sectional LED	7-sectional LED	7-sectional LED
Numbers of LED diodes of the state	16 (2 for each PC port)	16 (2 for each PC port)	16 (2 for each PC port)	16 (2 for each PC port)
Display menu OSD	Yes	Yes	Yes	Yes
Interval of automatic scanning ports	from 5 to 99 sec.	from 5 to 99 sec.	from 5 to 99 sec.	from 5 to 99 sec.
Max. resolution (Local console)	1920 x 1440	1920 x 1440	1920 x 1440	1600 x 1200
Max. resolution (Remote console)	-	1600 x 1200 for cat. 5 module 150 m, 1024 x 768 for cat. 5 module 300 m, 1600 x 1200 for IP module	1600 x 1200 for cat. 5 module 150 m, 1024 x 768 for cat. 5 module 300 m, 1600 x 1200 for IP module	1600 x 1200 for cat. 5 module 150 m, 1024 x 768 for module cat. 5 module 300 m, 1600 x 1200 for IP module
Cover	19", metal	19", metal	19", metal	19", metal
Power supply	DC power adapter 12 V DC 1 A, ~230 V AC 50 Hz	DC power adapter 12 V DC 1 A, ~230 V AC 50 Hz	DC power adapter 12 V DC 1 A, ~230 V AC 50 Hz	DC power adapter 12 V DC 1 A, ~230 V AC 50 Hz
Dimensions	470 x 190 x 44 mm	470 x 190 x 44 mm	470 x 190 x 44 mm	470 x 190 x 44 mm



KVM SWITCHES OX 19"

				
KSC-116A	KSC-116E	KCC-116A	KSC-116B	KCC-132A
T-SO-970-601	T-SO-970-605	T-SO-970-607	T-SO-970-603	T-SO-970-608
16 PC to 1 user / stackable	16 PC to 2 users (1+1) / stackable	16 PC to 2 users (1+1) / stackable	16 PC to 2 users (1+1) / stackable	16 PC to 2 users (1+1) / stackable
16x HDB15(F)	16x HDB15(F)	16x 8p8c(F) RJ-45	16x HDB15(F)	32x 8p8c(F) RJ-45
5 m (depending on terminal type)	5 m (depending on terminal type)	150 m with Oxca DCC-001	5 m (depending on terminal type)	150 m with Oxca DCC-001
dedicated integrated connections	dedicated integrated connections	twisted pair cable, category 5e, 6 or higher	dedicated integrated connections	twisted pair cable, category 5e, 6 or higher
PS/2 or USB	PS/2 or USB	PS/2 or USB	PS/2 or USB	PS/2 or USB
1x VGA HDB15(F) + 2x PS/2 mini DIN 6(F), 1 widening port for the module of remote console	1x VGA HDB15(F) + 2x USB A(F), 1 widening port for the module of remote console	1x VGA HDB15(F) + 2x USB A(F), 1 widening port for the module of remote console	1x VGA HDB15(F) + 2x PS/2 mini DIN 6(F), 1 widening port for the module of remote console	1x VGA HDB15(F) + 2x USB A(F), 1 widening port for the module of remote console
-	Cat. 5 or IP	Cat. 5 or IP	Cat. 5 or IP	Cat. 5 or IP
1x HDB15(F)	1x HDB15(F)	1x HDB15(F)	1x HDB15(F)	1x HDB15(F)
128	128	128	128	256
8 (serial)	8 (serial)	8 (serial)	8 (serial)	8 (serial)
keyboard shortcut / OSD / button	keyboard shortcut / OSD / button	keyboard shortcut / OSD / button	keyboard shortcut / OSD / button	keyboard shortcut / OSD / button
7-sectional LED	7-sectional LED	7-sectional LED	7-sectional LED	7-sectional LED
32 (2 for each PC port)	32 (2 for each PC port)	32 (2 for each PC port)	32 (2 for each PC port)	64 (2 for each PC port)
Yes	Yes	Yes	Yes	Yes
from 5 to 99 sec.	from 5 to 99 sec.	from 5 to 99 sec.	from 5 to 99 sec.	from 5 to 99 sec.
1920 x 1440	1920 x 1440	1600 x 1200	1920 x 1440	1600 x 1200
-	1600 x 1200 for cat. 5 module 150 m, 1024 x 768 for cat. 5 module 300 m, 1600 x 1200 for IP module	1600 x 1200 for cat. 5 module 150 m, 1024 x 768 for cat. 5 module 300 m, 1600 x 1200 for IP module	1600 x 1200 for cat. 5 module 150 m, 1024 x 768 for cat. 5 module 300 m, 1600 x 1200 for IP module	1600 x 1200 for cat. 5 module 150 m, 1024 x 768 for cat. 5 module 300 m, 1600 x 1200 for IP module
19", metal	19", metal	19", metal	19", metal	19", metal
DC power adapter 12 V DC 1 A, ~230 V AC 50 Hz	DC power adapter 12 V DC 1 A, ~230 V AC 50 Hz	DC power adapter 12 V DC 1 A, ~230 V AC 50 Hz	DC power adapter 12 V DC 1 A, ~230 V AC 50 Hz	DC power adapter 12 V DC 1 A, ~230 V AC 50 Hz
470 x 190 x 44 mm	470 x 190 x 44 mm	470 x 190 x 44 mm	470 x 190 x 44 mm	470 x 190 x 44 mm



SUPPLEMENTARY ACCESSORIES FOR CONSOLES AND KVM SWITCHES

19" keyboard KBD-106TP-USB

Catalogue number: T-SO-970-400; T-SO-970-401

Interface: PS/2 (T-SO-970-400) or USB (T-SO-970-401)

Dimensions: 437.4 x 436.6 x 44 mm

Weight: 6.0 kg

Power supply: from keyboard port



19" keyboard KBD-106TP-USB

Cable HD-MD

PC ports: 1x HD-15M, 2x MD-6M

Console ports: 1x HD-15M

Cable type	Length	Catalogue number
KC-1501	1.8 m	T-SO-970-301
KC-1503	3.0 m	T-SO-970-303
KC-1505	5.0 m	T-SO-970-305



Cable HD-MD

Cable HD-USB

PC ports: 1x HD-15M, 1x USB type A (M)

Console ports: 1x HD-15M

Cable type	Length	Catalogue number
KC-1501-USB	1.8 m	T-SO-970-311
KC-1503-USB	3.0 m	T-SO-970-313
KC-1505-USB	5.0 m	T-SO-970-315



Cable HD-USB

Adapter for KVM cat. 5, DCC-001

Catalogue Number: T-SO-970-620

Application: Adapter RJ-45 to PS/2+VGA for KVM cat. 5

PC port: 1x VGA HDB15(F) + 2x PS/2 mini DIN 6(F)

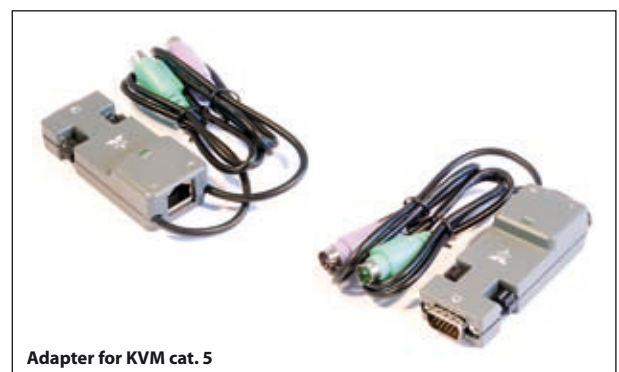
Types of supported PC ports (keyboard/mouse):
PS/2 or USB (from CUP-101)

KVM port: 1x 8p8c(F) RJ-45

Numbers of LED diodes of the state: 1

Dimensions: 90 x 30 x 20 mm

Power supply:
from PS/2 ports, the external power supply is not necessary



Adapter for KVM cat. 5



SUPPLEMENTARY ACCESSORIES FOR CONSOLES AND KVM SWITCHES

Console module KVM 1+1 with cat. 5 port, type DCC -150

Catalogue number: T-SO-970-622

Application:

remote access to KVM 1+1 through the twisted-pair cable

Contain: local module, remote module

Max range: 150 m

Demand wire: twisted-pair cable cat. 5e, 6 or higher

Access control: on the level of remote console module

Local module:

Application: for the cat. 5 remote module connection

Port cat. 5: 1x 8p8c(F) RJ-45

Dimensions: 108 x 72 x 20 mm

Remote module:

Application: for the remote console connection to KVM 1+1, integrated KVM 2 PC for 1 user

PC port: 1x HDB15(F)

KVM port 1+1: 1x 8p8c(F) RJ-45

Types of supported PC ports (keyboard/mouse): PS/2 or USB

Console ports: 1x VGA HDB15(F) + 2x USB A(F)

Choice of the active PC/Cat.5 port:

keyboard shortcut / OSD / button

Number of LED diodes of the state: 2

Max. resolution: 1280 x 1024

Cover: desktop, metal

Dimensions: 160 x 70 x 25 mm

Power supply: 9 V DC 500 mA, ~230 V AC 50 Hz



Console module KVM 1+1 with cat. 5

Console module KVM 1+1 with IP port, type DIP-101

Catalogue number: T-SO-970-330

Application: remote access to KVM 1+1 through the IP network

Max. resolution: local 1600x1200, remote 1280x1024

IP port: 1x 10/100 Mbps RJ-45, access HTTP/HTTPS and telnet

Terminal port: 1x DB9, access to the basic configuration locally or through a modem

Line port: 1x miniUSB B(F) 2.0, remote access to the mass storage

Service of protocols: DHCP, static IP (support for DDNS), Bootp

Data encryption: SSL 256-bit

Access control: login + password, user profiles, user groups

Compatibility: IE6.0, Mozilla 1.6, Netscape 7.0, Opera 8.0

Access trough the HTTP: required installation Java RE 1.4.2

Simultaneous access of multiple users:

recommended number: not more than 15 users

Number of users accounts:

recommended number: not more than 150 accounts

Log on of events: NFS, SMTP, SNMP Trap

Dimensions: 108 x 72 x 20 mm

Software update: Yes



Console module KVM 1+1 with IP port



UPS BATTERY BACKUPS

Technology: True On-Line Double Conversion
Power range: 1-3 kVA

Typical application:

- servers
- work stations
- graphical stations
- control and automation systems
- medical equipment



Model	RA1k		RA2k		RA3k	
Catalogue number	T-SO-910-102		T-SO-910-202		T-SO-910-302	
Power rating	1 kVA / 800 W		2 kVA / 1600 W		3 kVA / 2100 W	
Input	Nominal voltage	200/208/220/230/240 V AC (single phase)*				
	Voltage range	130 ~ 275 V AC (lower range 130 ~ 160 V AC is acceptable under 70 ~ 100% loading condition)				
	Frequency	50 or 60 ± 5 Hz				
	Power factor	≥ 0.97				
	Electrical connection	Power cord (IEC320 C14)	Power cord (IEC320 C20)	Power cord (IEC320 C20)	Power cord (IEC320 C20)	Power cord (IEC320 C20)
Output	Voltage	200/208/220/230 (default) /240 V AC (single phase)				
	Voltage harmonic distortion	< 3% (linear load); < 6% (computer load)				
	Static voltage regulation	± 2%				
	Frequency	50 or 60 ± 0.05 Hz				
	Wave form	Pure sine wave				
	Dynamic voltage regulation	< 8%				
	Overload capability	105 ~ 125%: 3 minutes; 125 ~ 150%: 30 seconds; > 150%: 0.5 seconds				
Battery	Receptacles	IEC320 C13 x 3 x 2	IEC320 C13 x 3 x 2 IEC320 C19 x 1	IEC320 C13 x 3 x 2 IEC320 C19 x 1	IEC320 C13 x 3 x 2 IEC320 C19 x 1	
	Rating	12 V/8.5 Ah, 2 pcs	12 V/8.5 Ah, 4 pcs	12 V/8.5 Ah, 4 pcs	12 V/8.5 Ah, 6 pcs	
	Charge current	0.6 ~ 1.2 A (nominal 0.8 A)	0.6 ~ 1.2 A (nominal 0.8 A)	0.6 ~ 1.2 A (nominal 0.8 A)	0.74 ~ 1.38 A (nominal 1 A)	
	Typical backup time	12 minutes (half load) 4 minutes (full load)	13 minutes (half load) 4 minutes (full load)	13 minutes (half load) 4 minutes (full load)	15 minutes (half load) 5 minutes (full load)	
Interface	Standard	RS232 x 1, USB x 1, SNMP slot x 1				
Conformance	Safety	CE, EN62040-1-1				
	EMC	EN62040-2, Class B	EN62040-2, Class A	EN62040-2, Class A	EN62040-2, Class A	
Efficiency	AC-AC	> 87% (full load)				
Environment	Operating temperature	0 ~ 40 °C				
	Relative humidity	5 ~ 95% (non-condensing)				
	Audible noise (at one meter)	45 dBA	50 dBA	50 dBA	60 dBA	
Physical properties	Dimesions (W x D x H)	UPS Battery pack	440 x 335 x 89 mm	440 x 432 x 89 mm	440 x 610 x 89 mm	
	Weight	UPS	13 kg	21 kg	31 kg	
		Battery pack	16 kg	29 kg	43 kg	

* For 200 V AC rating, UPS capacity will de-rate 10%.

All specifications are subject to change without prior notice.

Accessories	Catalogue number
SNMP module - see page 169	T-SO-910-399
Environmental sensor (requires SNMP module) - see page 169	T-SO-910-412
Rails for 19" rack mounting	T-SO-910-416



ACCESSORIES FOR UPS BATTERY BACKUPS

SNMP card

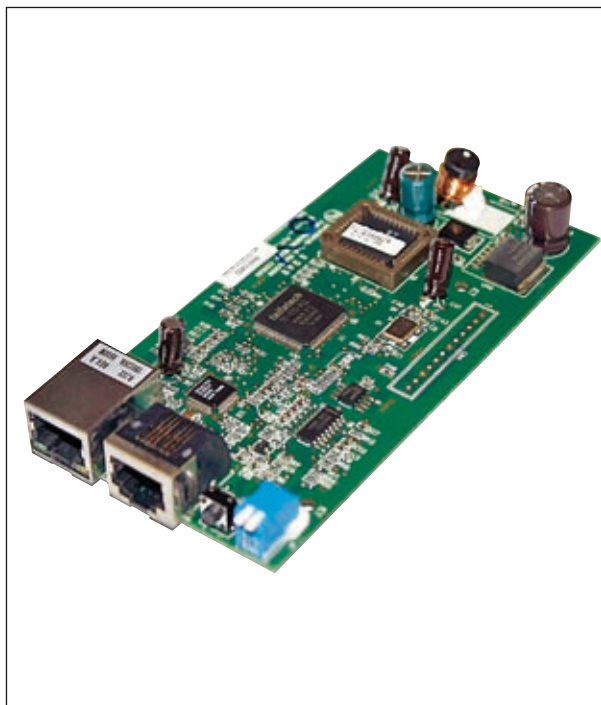
Catalogue number: T-SO-910-399

SNMP InsightPower card is an interface between the UPS and the computer network. The card makes it possible to obtain information about the operating status of the device and execute control commands remotely. Users can easily control the operation of the device using their Internet browser or tools based on SNMP, a popular network management protocol.

The system is complemented by the InsightPowerClient software compatible with the SNMP card. In the event of prolonged power outage, the software automatically shuts down computers working under Windows operating systems. A simpler software version called SNMP ShutdownAgent is capable of working with a wide array of popular system platforms.

Properties and functionalities:

- In-built SNMP agent and HTTP server for UPS monitoring
- Configuration through a terminal or via telnet
- Management of different user rights levels
- Firmware updating option
- UPS monitoring and control
- Recording events and parameters in the card's memory
- UPS starting, restarting and testing programme
- "Wake On LAN" feature for automatic PC start
- Sending e-mail messages and SNMP traps in the event of alarms
- Cooperation with the InsightPower Client software – the Windows platform
- Cooperation with the Shutdown Agent software for shutting down operating systems automatically (support for many leading system platforms).



Sensor of environmental conditions

Catalogue number: T-SO-910-412

The sensor of environmental conditions makes it possible to monitor climatic conditions inside cabinets:

- temperature
- humidity
- door opening
- possibility of smoke sensor connection

All exceeded parameters are registered in the computer system and visualised on a local or remote computer through the Internet.

Connection of the sensor to the computer requires an SNMP card (see above).



The sensor connected to the SNMP card enables remote monitoring of the state of current parameters of the environment in the cabinet or in the room in which it is installed. Values of different parameters are available after connection via the Internet browser. In the same location, it is possible to preset permitted values of environmental parameters (temperature, humidity) and the status of the remaining sensors (smoke, fire, flooding, access) for the monitored room. If preset values are exceeded, an alarm is triggered.



FLOOR-STANDING CABINETS



SZE2 CABINETS



Front view



Cabinet 600 mm wide including mounting plate and without side panels



Placement of mounting plate inside the cabinet

- Universal industrial cabinets designed for both outdoor and indoor applications.
- Design of the cabinet allows easy baying in rows.
- Manufactured in 19 standard dimensions according to the chart below.
- Cabinets of non-standard dimensions or in stainless steel version can be manufactured on individual customer's request.

Chart of standard cabinet dimensions

	Total width of the cabinet [mm]		Total depth of the cabinet [mm]	Height of the cabinet without plinth [mm]	
	with flushed side panels	with external side panels		1800	2000
	Catalogue numbers of cabinets				
Cabinets with single-wing door	600	650	400	–	WZ-1951-01-50-011
			500	WZ-1951-01-24-011	WZ-1951-01-12-011
			600	WZ-1951-01-23-011	WZ-1951-01-11-011
			800	–	WZ-1951-01-10-011
Cabinets with double-wing door	800	850	400	–	WZ-1951-01-49-011
			500	WZ-1951-01-21-011	WZ-1951-01-09-011
			600	WZ-1951-01-20-011	WZ-1951-01-08-011
			800	–	WZ-1951-01-07-011
Cabinets with double-wing door	1000	1050	500	–	WZ-1951-01-06-011
			600	–	WZ-1951-01-05-011
	1200	1250	500	WZ-1951-01-15-011	WZ-1951-01-03-011
			600	WZ-1951-01-14-011	WZ-1951-01-02-011
			800	–	WZ-1951-01-01-011

Technical data

Material:
Sheet steel

Protection degree:
IP 54 in accordance with EN 60529

Surface finishing:
Cabinet's frame, doors, panels, roof, plinth – powder painted in RAL 7035 (epoxide-polyester paint of coarse-grained structure, applied for internal conditions). On customer's request, it is possible to use special paint with increased resistance to adverse weather conditions and using polyzinc base.

Mounting plate - zinc coated
Mounting rails - Al-Zn coated

Note:
On request, the frame, door, side panels, roof and the plinth can be made of stainless steel.

Description of SZE2 cabinet design

Welded framework of the cabinet

- Slotted side framework enables fixing a system of mounting rails or a mounting plate.
- The top plate of the frame is fitted with openings designed for cable entries or for mounting fan units. In the standard version, they are blinded with solid blanking plates.
- The bottom plate of the frame is fitted with one or two openings designed for cable entries. In the standard version, they are blinded with sliding gland plates.

Front door, rear panel

- Cabinets 1000 and 1200 mm wide are equipped with a double-wing door, while cabinets 800 and 600 mm wide are equipped with a single-wing door. A rear panel can be replaced with a rear door in all available widths of the cabinets.



SZE2 CABINETS



The cabinet with the roof and flushed side panels



The cabinet with the roof and external side panels



The cabinet with a roof, flushed side panels and lifting eyes



Sealing double-wing door to assure IP 64 protection



Lock with double-bit insert



Lock with swing handle and cylinder insert



Baying cabinets in rows by using mounting plate infill



Cabinet 800 mm wide including 19" swing frame



Cabinet 800 mm wide including 19" mounting profiles, without side panels



Fixing of 19" mounting profiles in 600 mm wide cabinet



Example of the rack assembled of mounting rails and shelves

- Easy change of door opening direction (by turning the door wing and the lock).
- Standard door is equipped with a 3-point lock and a stiffening slotted frame used for cable ducts, bundles of cables etc.
- Locking systems: factory-mounted lock with double-bit insert, option of replacement with a lock provided with a swing handle and cylinder insert.
- Possibility of manufacturing doors with a glass panel and perforation.
- Maximum door opening angle is 120°.

Two options of side panels

- Flushed panels - kept within cabinet dimensions.
- External panels - expanding the cabinet by 25 mm on each side; especially recommended for outdoor applications.

Roof

- As a part of supplementary accessories.
- Recommended for cabinets placed outside the buildings.

Lifting eyes

- Lifting eyes are available if requested. They are fixed to the threaded holes in the top of the frame.

Base

- The cabinet is normally placed on either 100 mm or 200 mm plinth.
- It is possible to set the cabinet directly on the cable duct, however this option needs to be discussed with our technical staff.

Sealing gasket

- Doors, panels and solid blanking plates used in the top are sealed with polyurethane foam.

Earthing and potential equalisation

- Each part of the cabinet can be grounded on request.
- Earthing cables, bars, or potential equalisation bar are ordered separately.

Fastening appliances in the cabinet

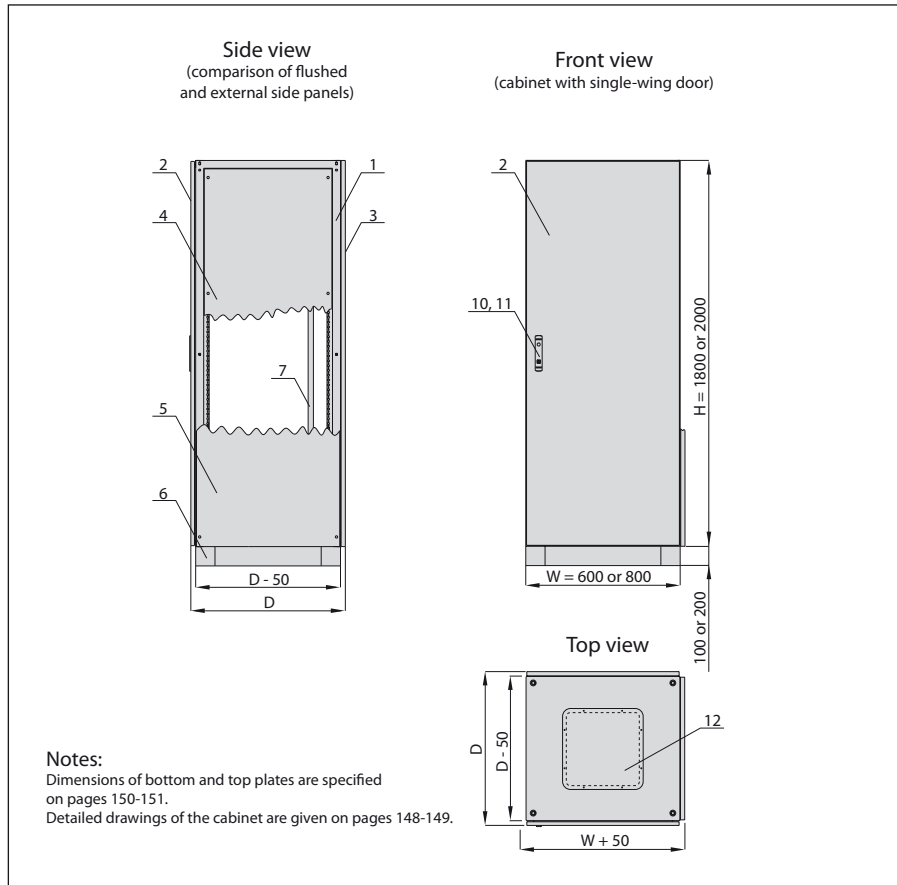
- Mounting plate - fits within the light of the cabinet, easy positioning by means of 2 sliding profiles on both sides; quick fastening using 4 bolts.
- Mounting rails - make it possible to build a required racking system within the cabinet (openings in the rails match the horizontal and vertical openings of the frame).
- 19" mounting profiles.
- 19" swing frame for cabinets 800 mm wide.

Baying cabinets in rows

- Possibility to bay cabinets in rows.
- Bayed cabinets can be additionally equipped with a partition.



DESIGN OF SZE2 CABINETS



SZE2 FLOOR-STANDING CABINETS

Ordering instruction

Placement of orders for SZE2 cabinet and supplementary accessories should be done by specifying **catalogue numbers from relevant charts**.

Reference chart

Dimensions of cabinet's frame [mm]	Height H	1800					
	Width W	600		800		1200	
	Depth D	500	600	500	600	500	600
Door's type	Number of wings	1	1	1	1	2	2
Dimensions of mounting plate [mm]	Height HP	1730	1730	1730	1730	1730	1730
	Width WP	512	512	712	712	1112	1112

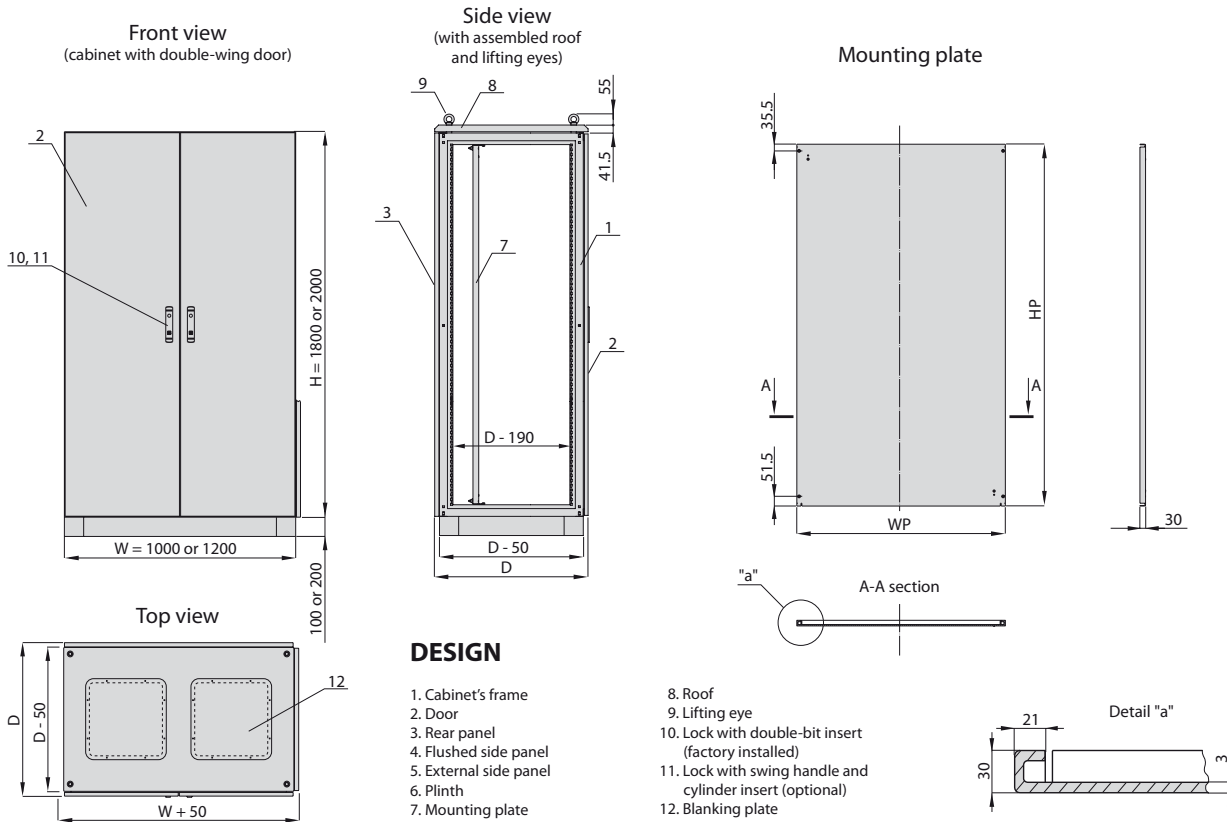
***) SZE2 cabinet - basic configuration:** cabinet's frame, front door with a lock that incl. double-bit insert (no handle), rear panel, mounting plate for the full height of the cabinet, blanking plates for cabinet's top plate, set of sliding gland plates for cabinet's bottom plate.
Note: side panels, plinth, roof, lifting eyes and other supplementary accessories should be ordered separately.

****) Detailed list of supplementary accessories:** page 153-177.

	Package	CATALOGUE NUMBERS						
Cabinet SZE2*	1 pc.	WZ-1951-01-24-011	WZ-1951-01-23-011	WZ-1951-01-21-011	WZ-1951-01-20-011	WZ-1951-01-15-011	WZ-1951-01-14-011	
Supplementary accessories**	Flushed in side panels	2 pcs.	WZ-1951-09-06-011	WZ-1951-09-05-011	WZ-1951-09-06-011	WZ-1951-09-05-011	WZ-1951-09-06-011	WZ-1951-09-05-011
	External side panels	2 pcs.	WZ-1951-07-14-011	WZ-1951-07-13-011	WZ-1951-07-14-011	WZ-1951-07-13-011	WZ-1951-07-14-011	WZ-1951-07-13-011
	Roof for cabinet with flushed side panels	1 pc.	WZ-1951-27-13-011	WZ-1951-27-12-011	WZ-1951-27-09-011	WZ-1951-27-08-011	WZ-1951-27-03-011	WZ-1951-27-02-011
	Roof for cabinet with external side panels	1 pc.	WZ-1951-28-13-011	WZ-1951-28-12-011	WZ-1951-28-09-011	WZ-1951-28-08-011	WZ-1951-28-03-011	WZ-1951-28-02-011
	100 mm modular plinth	1 pc.	WZ-001C-60-45-011	WZ-001C-60-55-011	WZ-001C-80-45-011	WZ-001C-80-55-011	WZ-001C-12-45-011	WZ-001C-12-55-011
	200 mm modular plinth	1 pc.	WZ-002C-60-45-011	WZ-002C-60-55-011	WZ-002C-80-45-011	WZ-002C-80-55-011	WZ-002C-12-45-011	WZ-002C-12-55-011
	100 mm welded plinth	1 pc.	WZ-1951-71-13-011	WZ-1951-71-12-011	WZ-1951-71-09-011	WZ-1951-71-08-011	WZ-1951-71-03-011	WZ-1951-71-02-011
	200 mm welded plinth	1 pc.	WZ-1951-74-13-011	WZ-1951-74-12-011	WZ-1951-74-09-011	WZ-1951-74-08-011	WZ-1951-74-03-011	WZ-1951-74-02-011
	Mounting plates infill	1 pc.	WZ-1951-47-02-000	WZ-1951-47-02-000	WZ-1951-47-02-000	WZ-1951-47-02-000	WZ-1951-47-02-000	WZ-1951-47-02-000
	19" symmetrical swing frame	1 pc.	----	----	WZ-1951-29-02-011	WZ-1951-29-02-011	----	----
	19" asymmetrical swing frame	1 pc.	----	----	WZ-1951-20-02-011	WZ-1951-20-02-011	----	----
	Earthing bar set	1 pc.	WZ-1951-24-04-000	WZ-1951-24-04-000	WZ-1951-24-03-000	WZ-1951-24-03-000	WZ-1951-24-01-000	WZ-1951-24-01-000
	Potential equalisation bar	1 pc.	WZ-1951-25-04-000	WZ-1951-25-04-000	WZ-1951-25-03-000	WZ-1951-25-03-000	WZ-1951-25-01-000	WZ-1951-25-01-000
	Cable bar	1 pc.	WZ-1951-22-04-000	WZ-1951-22-04-000	WZ-1951-22-03-000	WZ-1951-22-03-000	WZ-1951-22-01-000	WZ-1951-22-01-000
	Support for cable bar	1 pc.	WZ-1951-66-03-000	WZ-1951-66-02-000	WZ-1951-66-03-000	WZ-1951-66-02-000	WZ-1951-66-03-000	WZ-1951-66-02-000
Transverse cable bar	1 pc.	WZ-1951-65-03-000	WZ-1951-65-02-000	WZ-1951-65-03-000	WZ-1951-65-02-000	WZ-1951-65-03-000	WZ-1951-65-02-000	
Lightening set	1 set	WZ-1951-38-04-011	WZ-1951-38-04-011	WZ-1951-38-03-011	WZ-1951-38-03-011	WZ-1951-38-01-011	WZ-1951-38-01-011	
Kit of system lighting	1 set	WZ-1951-80-04-011	WZ-1951-80-04-011	WZ-1951-80-03-011	WZ-1951-80-03-011	WZ-1951-80-01-011	WZ-1951-80-01-011	



DESIGN OF SZE2 CABINETS



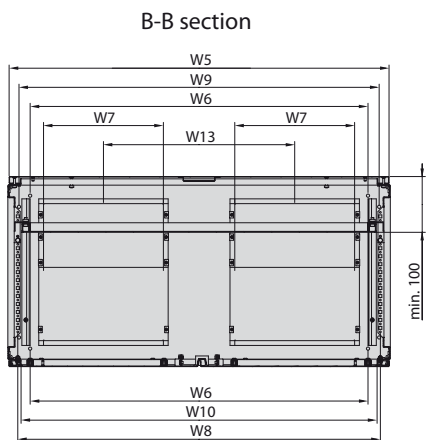
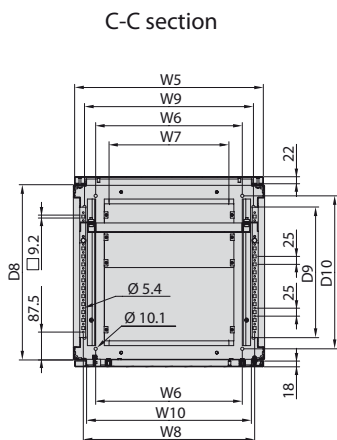
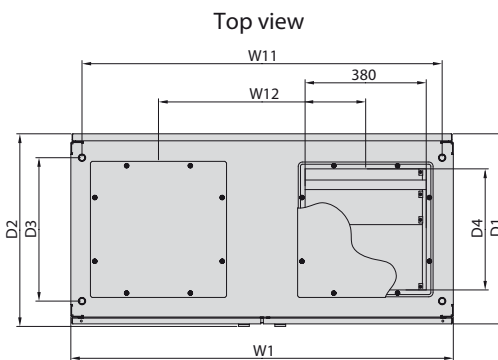
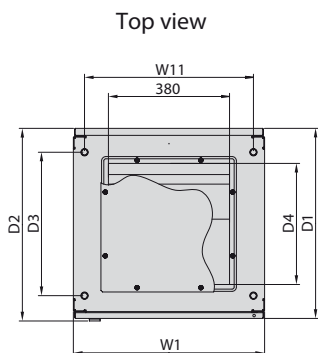
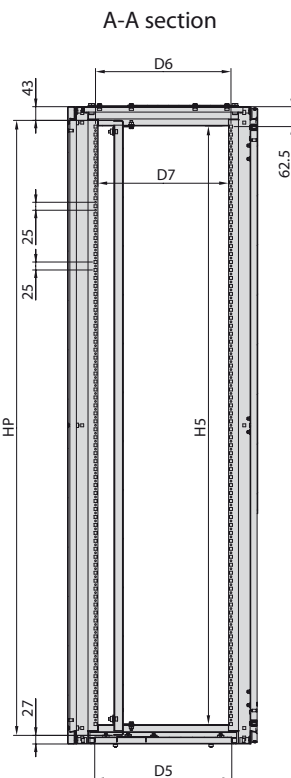
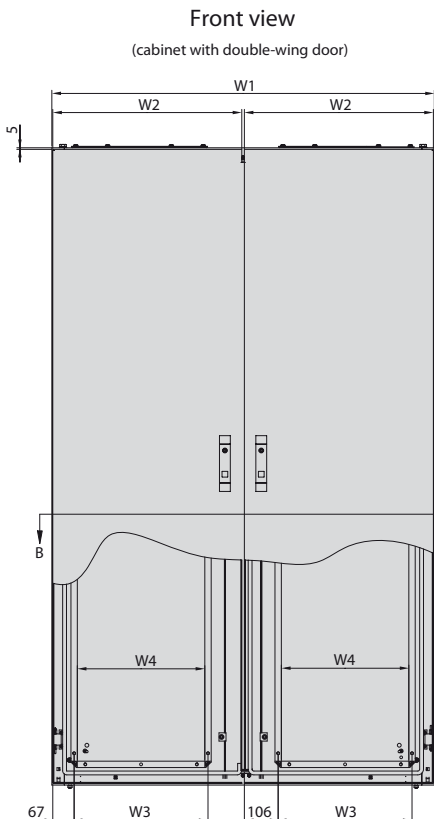
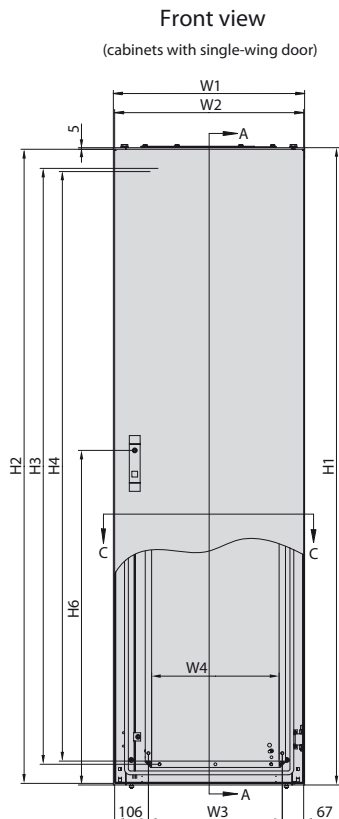
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1930	1930	1930	1930	1930	1930	1930	1930	1930	1930	1930	1930	1930
512	512	512	512	712	712	712	712	912	912	1112	1112	1112

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SZE2 FLOOR-STANDING CABINETS



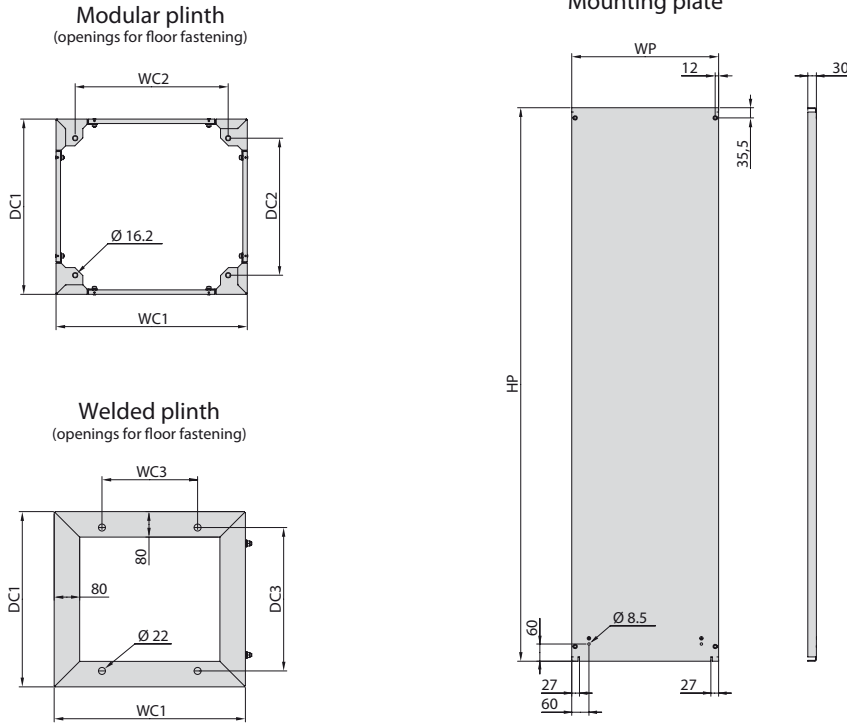
DESIGN OF SZE2 CABINETS



Cabinet's catalogue number	HEIGHT DIMENSIONS					
	H1	H2	H3	H4	H5	H6
WZ-1951-01-01-011	2000	1990	1870	1850	1879	1050
WZ-1951-01-02-011	2000	1990	1870	1850	1879	1050
WZ-1951-01-03-011	2000	1990	1870	1850	1879	1050
WZ-1951-01-05-011	2000	1990	1870	1850	1879	1050
WZ-1951-01-06-011	2000	1990	1870	1850	1879	1050
WZ-1951-01-07-011	2000	1990	1870	1850	1879	1050
WZ-1951-01-08-011	2000	1990	1870	1850	1879	1050
WZ-1951-01-09-011	2000	1990	1870	1850	1879	1050
WZ-1951-01-49-011	2000	1990	1870	1850	1879	1050
WZ-1951-01-10-011	2000	1990	1870	1850	1879	1050
WZ-1951-01-11-011	2000	1990	1870	1850	1879	1050
WZ-1951-01-12-011	2000	1990	1870	1850	1879	1050
WZ-1951-01-50-011	2000	1990	1870	1850	1879	1050
WZ-1951-01-14-011	1800	1790	1670	1650	1679	950
WZ-1951-01-15-011	1800	1790	1670	1650	1679	950
WZ-1951-01-20-011	1800	1790	1670	1650	1679	950
WZ-1951-01-21-011	1800	1790	1670	1650	1679	950
WZ-1951-01-23-011	1800	1790	1670	1650	1679	950
WZ-1951-01-24-011	1800	1790	1670	1650	1679	950



DESIGN OF SZE2 CABINETS



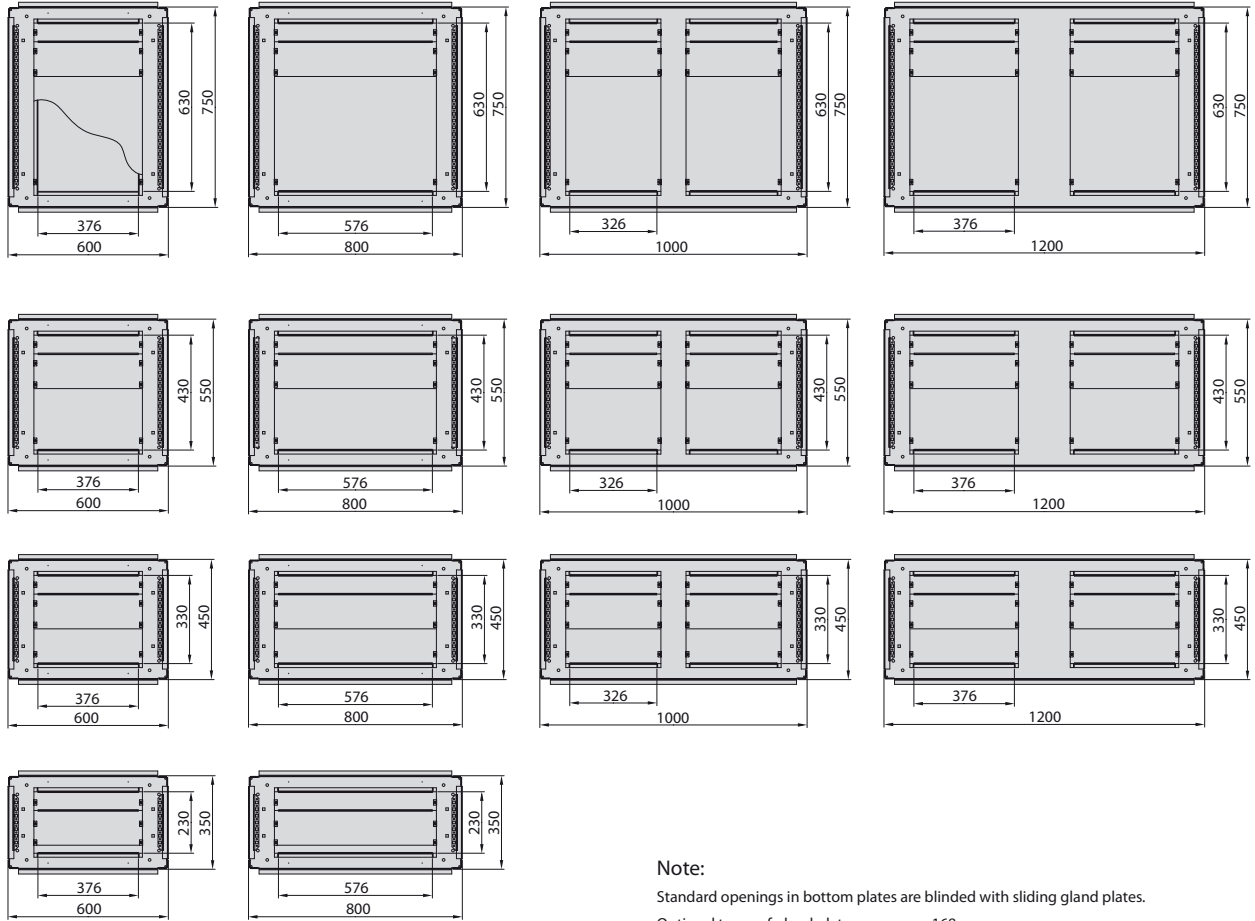
Note:
 After mounting of external side panels the cabinet expands by 25 mm on each side.
 An additional distance of 3 mm (gasket gauge) should be considered between bayed cabinets.

WIDTH DIMENSIONS													DEPTH DIMENSIONS										MOUNTING PLATE		PLINTH					
W1	W2	W3	W4	W5	W6	W7	W8	W9	W10	W11	W12	W13	D1	D2	D3	D4	D5	D6	D7	D8	D9	D10	HP	WP	WC1	WC2	WC3	DC1	DC2	DC3
1200	593	420	400	1192	1060	376	1137,6	1130	1117	1130	650	600	800	808	650	380	630	625	610	750	610	680	1930	1112	1200	1080	900	750	630	650
1200	593	420	400	1192	1060	376	1137,6	1130	1117	1130	650	600	600	608	450	380	430	425	410	550	410	480	1930	1112	1200	1080	900	550	430	450
1200	593	420	400	1192	1060	376	1137,6	1130	1117	1130	550	600	500	508	350	380	330	325	310	450	310	380	1930	1112	1200	1080	900	450	330	350
1000	493	320	300	992	860	326	937,6	930	917	930	—	450	600	608	450	380	430	425	410	550	410	480	1930	912	1000	880	700	550	430	450
1000	493	320	300	992	860	326	937,6	930	917	930	—	450	500	508	350	380	330	325	310	450	310	380	1930	912	1000	880	700	450	330	350
800	793	620	600	792	660	579	737,6	730	717	730	—	—	800	808	650	380	630	625	610	750	610	680	1930	712	800	680	500	750	630	650
800	793	620	600	792	660	579	737,6	730	717	730	—	—	600	608	450	380	430	425	410	550	410	480	1930	712	800	680	500	550	430	450
800	793	620	600	792	660	579	737,6	730	717	730	—	—	500	508	350	380	330	325	310	450	310	380	1930	712	800	680	500	450	330	350
800	793	620	600	792	660	579	737,6	730	717	730	—	—	400	408	250	210	230	225	210	350	210	280	1930	712	800	680	500	350	230	250
600	593	420	400	592	460	376	537,6	530	517	530	—	—	800	808	650	380	630	625	610	750	610	680	1930	512	600	480	300	750	630	650
600	593	420	400	592	460	376	537,6	530	517	530	—	—	600	608	450	380	430	425	410	550	410	480	1930	512	600	480	300	550	430	450
600	593	420	400	592	460	376	537,6	530	517	530	—	—	500	508	350	380	330	325	310	450	310	380	1930	512	600	480	300	450	330	350
600	593	420	400	592	460	376	537,6	530	517	530	—	—	400	408	250	210	230	225	210	350	210	280	1930	512	600	480	300	350	230	250
1200	593	420	400	1192	1060	376	1137,6	1130	1117	1130	650	600	600	608	450	380	430	425	410	550	410	480	1730	1112	1200	1080	900	550	430	450
1200	593	420	400	1192	1060	376	1137,6	1130	1117	1130	550	600	500	508	350	380	330	325	310	450	310	380	1730	1112	1200	1080	900	450	330	350
800	793	620	600	792	660	576	737,6	730	717	730	—	—	600	608	450	380	430	425	410	550	410	480	1730	712	800	680	500	550	430	450
800	793	620	600	792	660	576	737,6	730	717	730	—	—	500	508	350	380	330	325	310	450	310	380	1730	712	800	680	500	450	330	350
600	593	420	400	592	460	376	537,6	530	517	530	—	—	600	608	450	380	430	425	410	550	410	480	1730	512	600	480	300	550	430	450
600	593	420	400	592	460	376	537,6	530	517	530	—	—	500	508	350	380	330	325	310	450	310	380	1730	512	600	480	300	450	330	350



DESIGN OF SZE2 CABINETS

BOTTOM PLATE TYPES



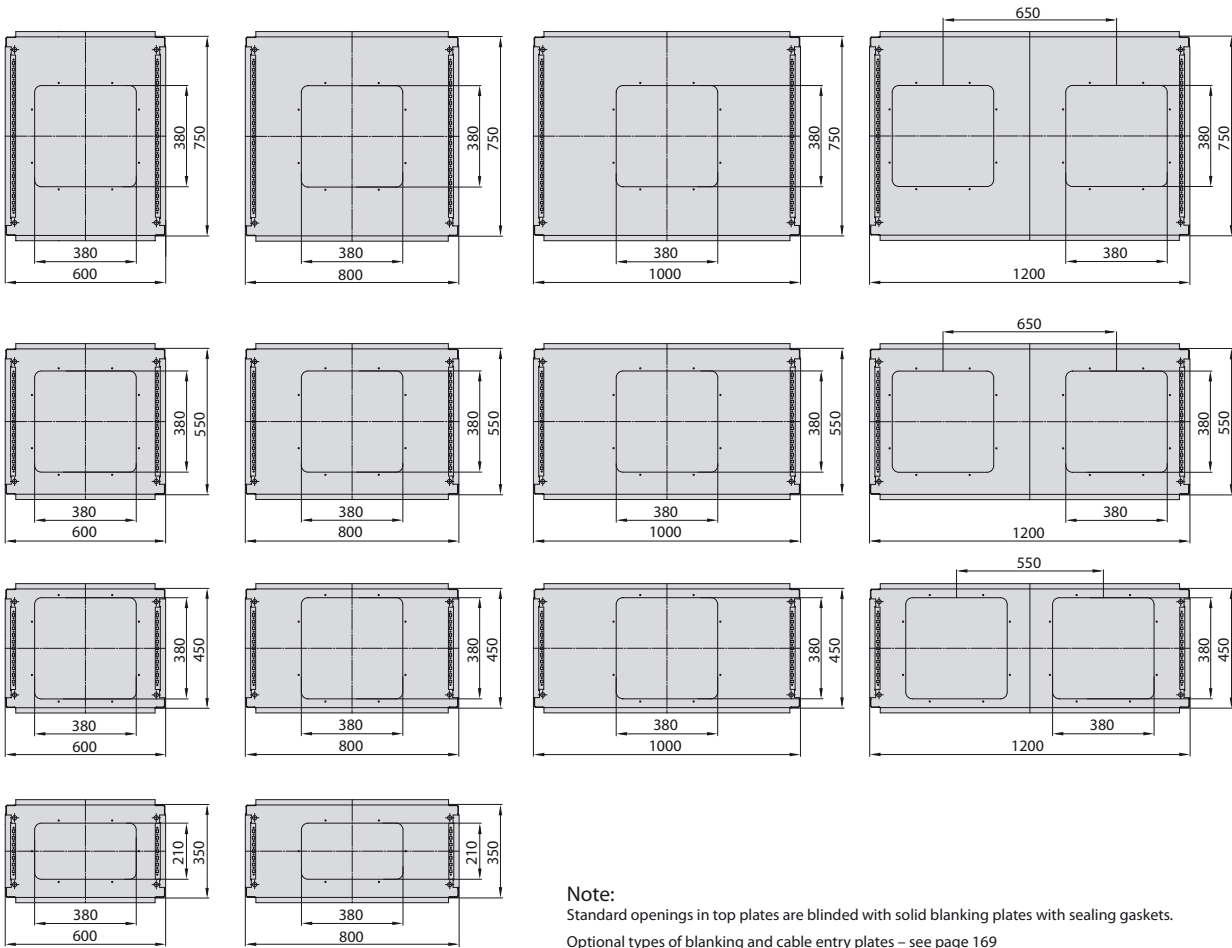
Note:

Standard openings in bottom plates are blinded with sliding gland plates.
Optional types of gland plates - see page 168.



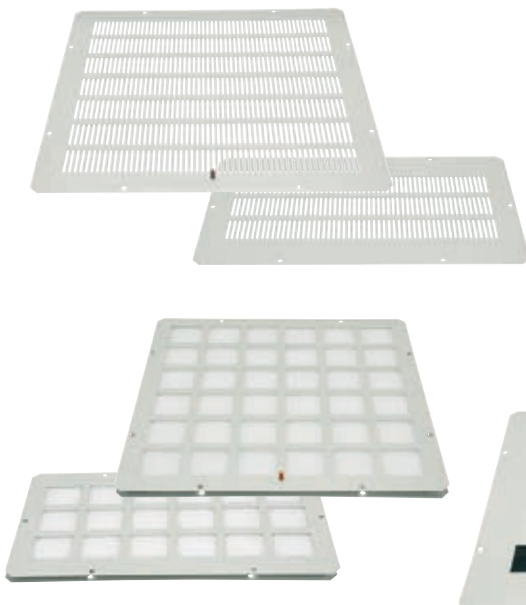
DESIGN OF SZE2 CABINETS

TOP PLATE TYPES



Note:
 Standard openings in top plates are blinded with solid blanking plates with sealing gaskets.
 Optional types of blanking and cable entry plates – see page 169

SZE2 FLOOR-STANDING CABINETS



Blanking and cable entry plates
 for the cabinet's top plate – see page 169



SAMPLE CUSTOMISED CABINETS



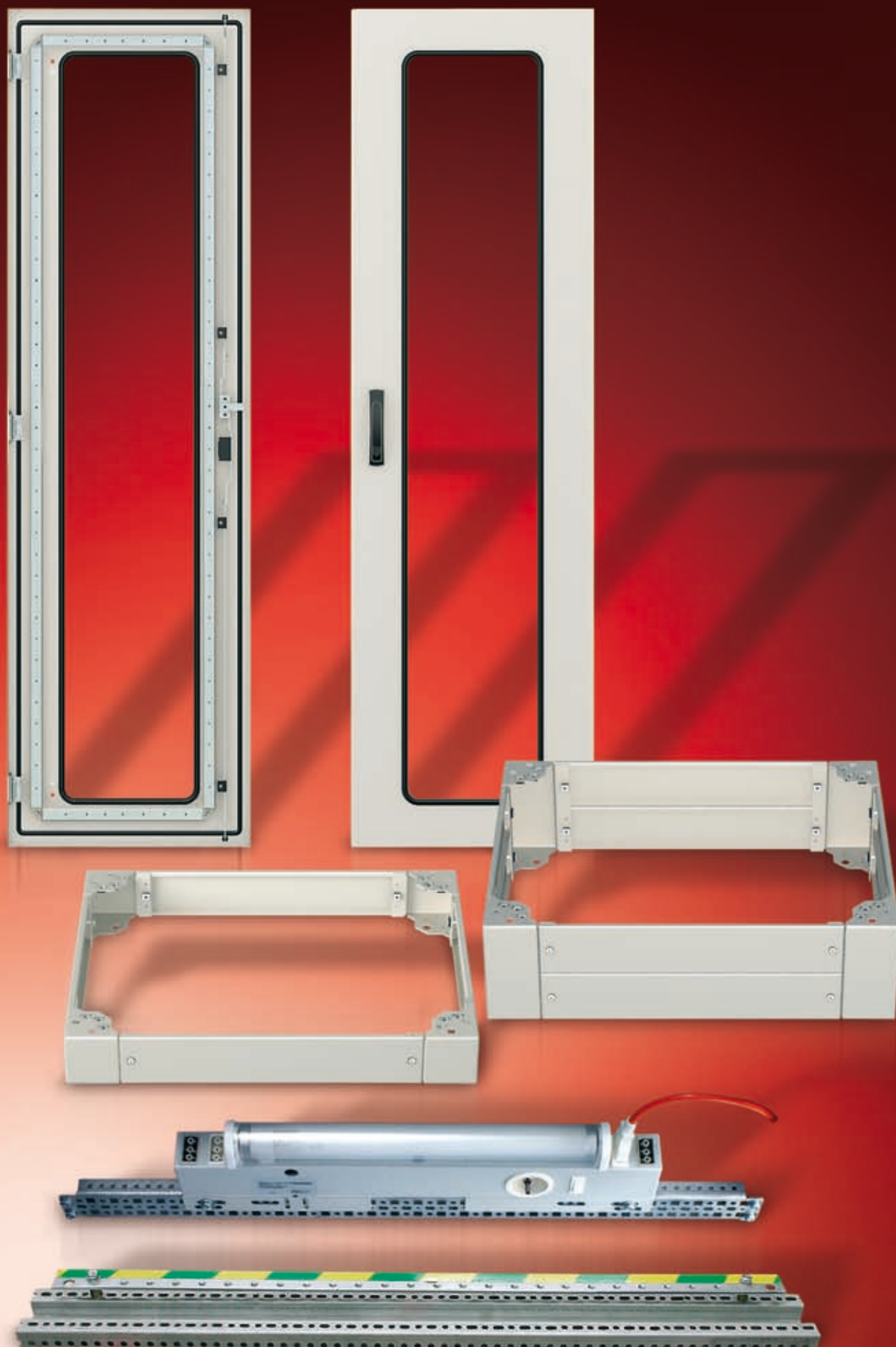
Cabinets made of stainless steel



Cabinet for hydraulic measuring converters



SUPPLEMENTARY ACCESSORIES FOR SIZE2 CABINETS



SUPPLEMENTARY ACCESSORIES FOR SIZE2 CABINETS

Doors

Intended for use instead of front solid door or rear panel.

Maximum door opening angle: 120°

Material:

Sheet steel textured powder paint, light grey (RAL 7035), stiffened profiles, safety glass.

Scope of delivery:

Complete wing of door with hinges and lock that includes double-bit insert (no handle).



Single-wing door

For cabinet		Door dimensions		Catalogue number					
height [mm]	width [mm]	H [mm]	W [mm]	Solid door IP 54	Door with glass IP 54	Door with ventilation IP 42		Door with glass and ventilation IP 42	
				right/left	right/left	right	left	right	left
2000	800	1990	793	WZ-1951-10-01-011	WZ-1951-17-01-011	WZ-1951-40-01-011	WZ-1951-40-09-011	WZ-1951-36-01-011	WZ-1951-36-09-011
	600	1990	593	WZ-1951-10-02-011	WZ-1951-17-02-011	WZ-1951-40-02-011	WZ-1951-40-10-011	WZ-1951-36-02-011	WZ-1951-36-10-011
1800	800	1790	793	WZ-1951-10-03-011	WZ-1951-17-03-011	WZ-1951-40-03-011	WZ-1951-40-11-011	WZ-1951-36-03-011	WZ-1951-36-11-011
	600	1790	593	WZ-1951-10-04-011	WZ-1951-17-04-011	WZ-1951-40-04-011	WZ-1951-40-12-011	WZ-1951-36-04-011	WZ-1951-36-12-011

Package: 1 pc.

Solid door

Door with glass

Door with ventilation

Door with glass and ventilation

Notes:

- The drawing shows the right door.
- Solid door and glass door have a universal design, which makes it possible to change the direction of door opening by turning the handle and fastening the wing in the reverse position. In the case of vented doors, the wing has to be replaced with its mirror version.



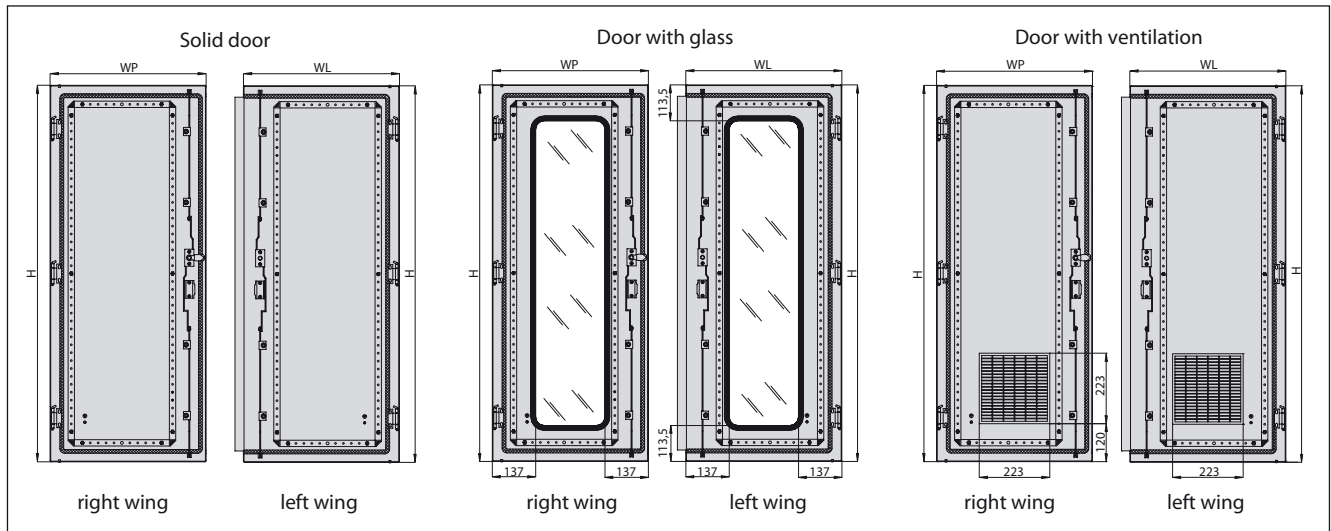
SUPPLEMENTARY ACCESSORIES FOR SIZE2 CABINETS

Double-wing door

For cabinet		Door dimensions			Catalogue number					
height [mm]	width [mm]	H [mm]	WR [mm]	WL [mm]	Solid door IP 54		Door with glass IP 54		Door with ventilation IP 42	
					right* wing	left* wing	right* wing	left* wing	right* wing	left* wing
2000	1200	1990	593	619.5	WZ-1951-15-01-011	WZ-1951-13-01-011	WZ-1951-52-01-011	WZ-1951-54-01-011	WZ-1951-59-01-011	WZ-1951-57-01-011
	1000	1790	493	519.5	WZ-1951-15-02-011	WZ-1951-13-02-011	WZ-1951-52-02-011	WZ-1951-54-02-011	WZ-1951-59-02-011	WZ-1951-57-02-011
1800	1200	1990	593	619.5	WZ-1951-15-03-011	WZ-1951-13-03-011	WZ-1951-52-03-011	WZ-1951-54-03-011	WZ-1951-59-03-011	WZ-1951-57-03-011

Package: 1 pc.

*) when facing the structure.



Door stop

Protects hinges from damage.
Fixed into the door's frame and cabinet's frame.
In the case of self-assembly, it is necessary to punch two 6 mm holes in indicated positions.

Material:
Galvanised sheet steel.

Scope of delivery:
Door stop with fixing accessories for mounting into the cabinet.

Package	Catalogue number
1 pc.	WZ-1951-32-00-000



Swing handle with cylinder insert for the door's lock

For applying in the cabinet instead of the standard pattern that includes double-bit insert.

Material of the body:
Plastic

Scope of delivery:
Swing handle and cylinder are to be ordered separately.

Product name	Package	Catalogue number
Swing handle without cylinder insert	1 pc.	M1H-01-0024
Cylinder insert for swing handle + 2 keys	1 set	M1H-02-0028



SUPPLEMENTARY ACCESSORIES FOR SIZE2 CABINETS

Side panels

Available in two options:

- 1) flushed side panels - do not affect overall dimensions of the cabinet, also used as partition if cabinets are bayed.
- 2) external side panels - expanding the cabinet by 25 mm on each side. All side panels are equipped with PU sealing gasket and stud-bolts for earthing cables.

Material:

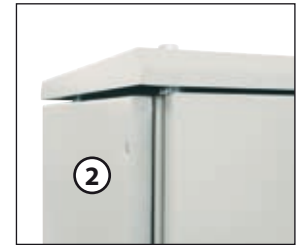
Sheet steel powder painted in RAL 7035

Scope of delivery:

2 side panels (flushed or external) with fixing accessories for mounting into the cabinet.



1 - flushed side panel



2 - external side panel

For cabinet		Catalogue number	
height [mm]	depth [mm]	Flushed side panels	External side panels
2000	800	WZ-1951-09-01-011	WZ-1951-07-05-011
	600	WZ-1951-09-02-011	WZ-1951-07-06-011
	500	WZ-1951-09-03-011	WZ-1951-07-07-011
	400	WZ-1951-09-13-011	WZ-1951-07-29-011
1800	600	WZ-1951-09-05-011	WZ-1951-07-13-011
	500	WZ-1951-09-06-011	WZ-1951-07-14-011

Package: 2 pcs.

Note:

Possibility to equip side panels with snapped filter fans and exhaust filter - see page 172.



Roof

Each cabinet can be equipped with a roof in two widths:

- roof for cabinet with flushed side panels (roof's width in accordance with cabinet's frame width).
- roof for cabinet with external side panels (the roof's width expanded by 50 mm in comparison with the cabinet's frame).

Roof's height with fixing/spacer bolts: 41.5 mm.

Material:

Sheet steel powder painted in RAL 7035

Scope of delivery:

Roof with 4 fixing/spacer bolts for mounting. (Assembly screws M12 are delivered with the cabinet.)

For cabinet		Catalogue number	
height [mm]	depth [mm]	Roof for cabinet with flushed side panels	Roof for cabinet with external side panels
1200	800	WZ-1951-27-01-011	WZ-1951-28-01-011
	600	WZ-1951-27-02-011	WZ-1951-28-02-011
	500	WZ-1951-27-03-011	WZ-1951-28-03-011
1000	600	WZ-1951-27-05-011	WZ-1951-28-05-011
	500	WZ-1951-27-06-011	WZ-1951-28-06-011
800	800	WZ-1951-27-07-011	WZ-1951-28-07-011
	600	WZ-1951-27-08-011	WZ-1951-28-08-011
	500	WZ-1951-27-09-011	WZ-1951-28-09-011
	400	WZ-1951-27-10-011	WZ-1951-28-10-011
600	800	WZ-1951-27-11-011	WZ-1951-28-11-011
	600	WZ-1951-27-12-011	WZ-1951-28-12-011
	500	WZ-1951-27-13-011	WZ-1951-28-13-011
	400	WZ-1951-27-14-011	WZ-1951-28-14-011

Package: 1 pc.



Roof and fixing/spacer bolts



SUPPLEMENTARY ACCESSORIES FOR SZE2 CABINETS

Lifting accessories

Fixed to threaded holes in the top plate of the cabinet's frame or (when the roof is used) to fixing/spacer bolts.

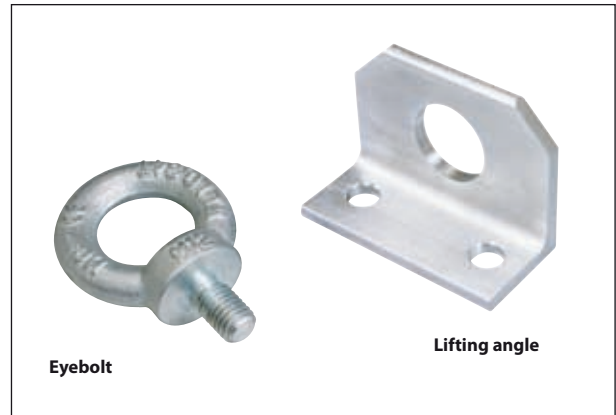
Offered in two options:

- 1) eyebolts - galvanised steel, eye diameter: 30 mm, thread for fastening: M12;
- 2) lifting angle for cabinets bayed in rows - galvanised steel angle, lifting hole diameter: 38 mm, two holes for mounting screws M12 (screws are delivered with the cabinet)

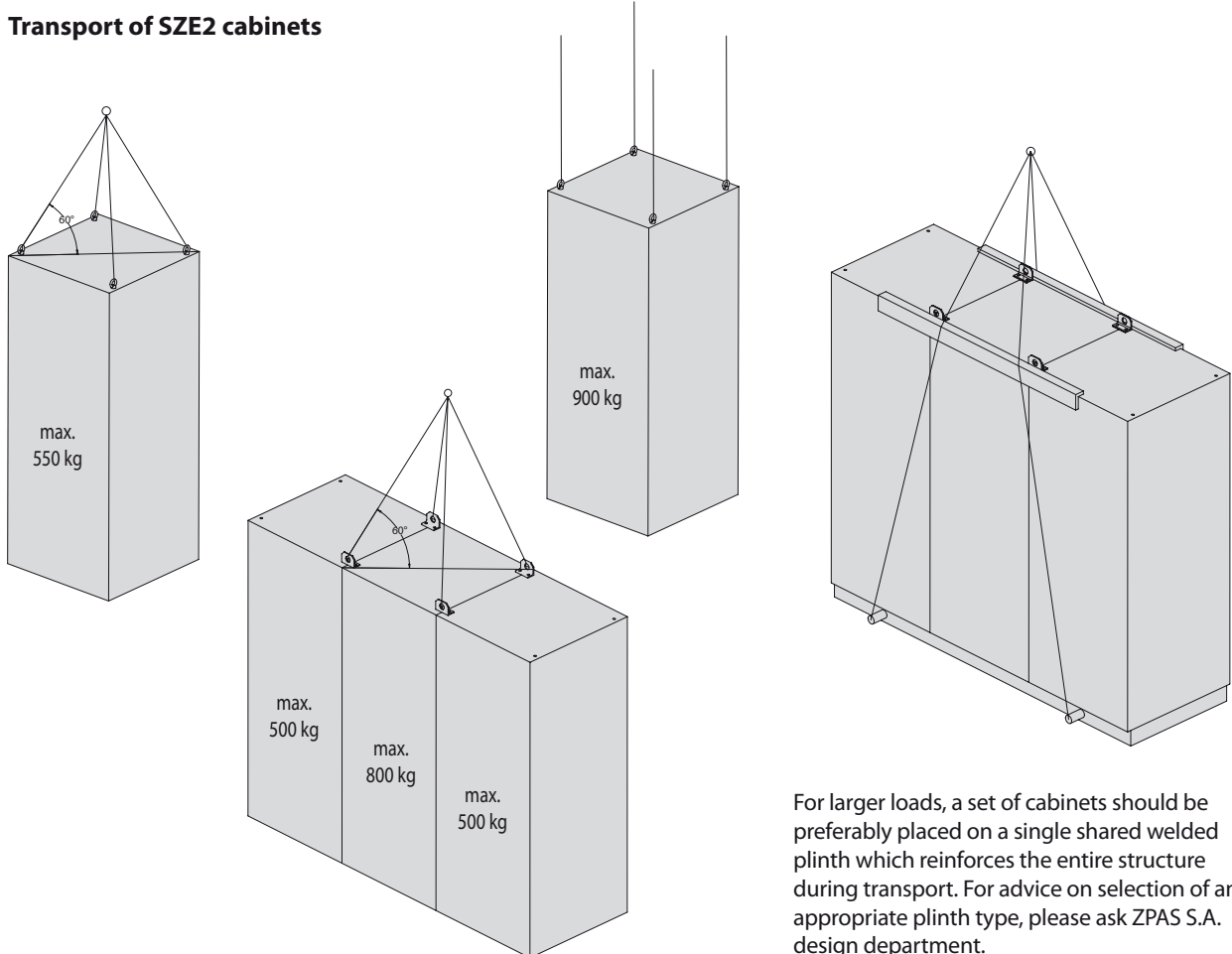
Scope of delivery:

Lifting accessories are sold separately.

Element type	Package	Catalogue number
eyebolt	1 p.c.	M1F-00-0106
lifting angle	1 p.c.	WZ-1951-68-00-000



Transport of SZE2 cabinets



For larger loads, a set of cabinets should be preferably placed on a single shared welded plinth which reinforces the entire structure during transport. For advice on selection of an appropriate plinth type, please ask ZPAS S.A. design department.



SUPPLEMENTARY ACCESSORIES FOR SIZE2 CABINETS

Modular plinth

It consists of 4 corners and 4 or 8 removable covers. Total weight of the cabinet is carried by plinth corners. It is possible to reach the area under the cabinet by unscrewing the covers.

Plinth can be mounted to the base by optionally using 4 rubber vi- bro-shock absorbers.

Material:

- Plinth: sheet steel textured powder paint, light grey RAL 7035
- Vibro-shock absorbers: rubber 10 mm thick

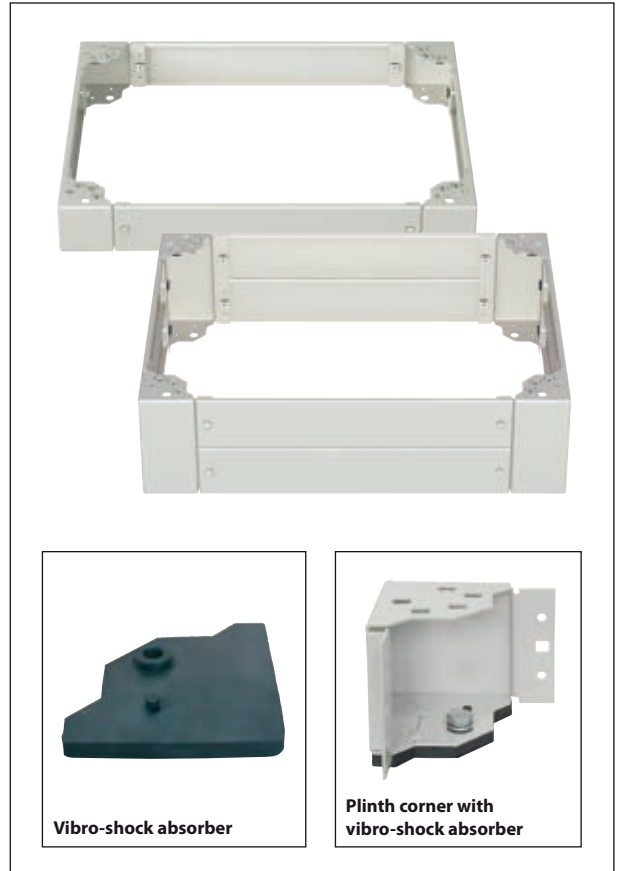
Scope of delivery:

Complete plinth and mounting accessories for fastening plinth to the cabinet.

Vibro-shock absorbers should be ordered separately.

For cabinet		Catalogue number		
width [mm]	depth [mm]	Plinth 100 mm height	Plinth 200 mm height	Vibro-shock absorber
1200	800	WZ-001C-12-75-011	WZ-002C-12-75-011	M1Z-00-0048
	600	WZ-001C-12-55-011	WZ-002C-12-55-011	
	500	WZ-001C-12-45-011	WZ-002C-12-45-011	
1000	600	WZ-001C-10-55-011	WZ-002C-10-55-011	
	500	WZ-001C-10-45-011	WZ-002C-10-45-011	
800	800	WZ-001C-80-75-011	WZ-002C-80-75-011	
	600	WZ-001C-80-55-011	WZ-002C-80-55-011	
	500	WZ-001C-80-45-011	WZ-002C-80-45-011	
	400	WZ-001C-80-35-011	WZ-002C-80-35-011	
600	800	WZ-001C-60-75-011	WZ-002C-60-75-011	
	600	WZ-001C-60-55-011	WZ-002C-60-55-011	
	500	WZ-001C-60-45-011	WZ-002C-60-45-011	
	400	WZ-001C-60-35-011	WZ-002C-60-35-011	

Package: Plinth – 1 pc.
Vibro-shock absorber – 1 pc.



Welded plinth

Indicated for heavy duty cabinets. Provide to transport cabinets with forklift truck without using transport pallet.

Material:

Sheet steel textured powder paint, light grey RAL 7035

Scope of delivery:

Plinth with mounting accessories for fastening plinth to the cabinet.

For cabinet		Catalogue number	
width [mm]	depth [mm]	Plinth 100 mm high	Plinth 200 mm high
1200	800	WZ-1951-71-01-011	WZ-1951-74-01-011
	600	WZ-1951-71-02-011	WZ-1951-74-02-011
	500	WZ-1951-71-03-011	WZ-1951-74-03-011
1000	600	WZ-1951-71-05-011	WZ-1951-74-05-011
	500	WZ-1951-71-06-011	WZ-1951-74-06-011
800	800	WZ-1951-71-07-011	WZ-1951-74-07-011
	600	WZ-1951-71-08-011	WZ-1951-74-08-011
	500	WZ-1951-71-09-011	WZ-1951-74-09-011
	400	WZ-1951-71-10-011	WZ-1951-74-10-011
600	800	WZ-1951-71-11-011	WZ-1951-74-11-011
	600	WZ-1951-71-12-011	WZ-1951-74-12-011
	500	WZ-1951-71-13-011	WZ-1951-74-13-011
	400	WZ-1951-71-14-011	WZ-1951-74-14-011

Package: 1 pc.



SUPPLEMENTARY ACCESSORIES FOR SIZE2 CABINETS

19" swing frame

Intended for SIZE2 cabinets 800 mm wide.
Available in symmetrical and asymmetrical options.
Equipped with door-stop.
Two locks with double-bit insert.

Possibility of left- or right-side assembly by 180° rotation.

Maximum opening angle: 120°

Load capacity: 150 kg

Material:

Sheet steel and steel profiles powder painted in RAL 7035

Scope of delivery:

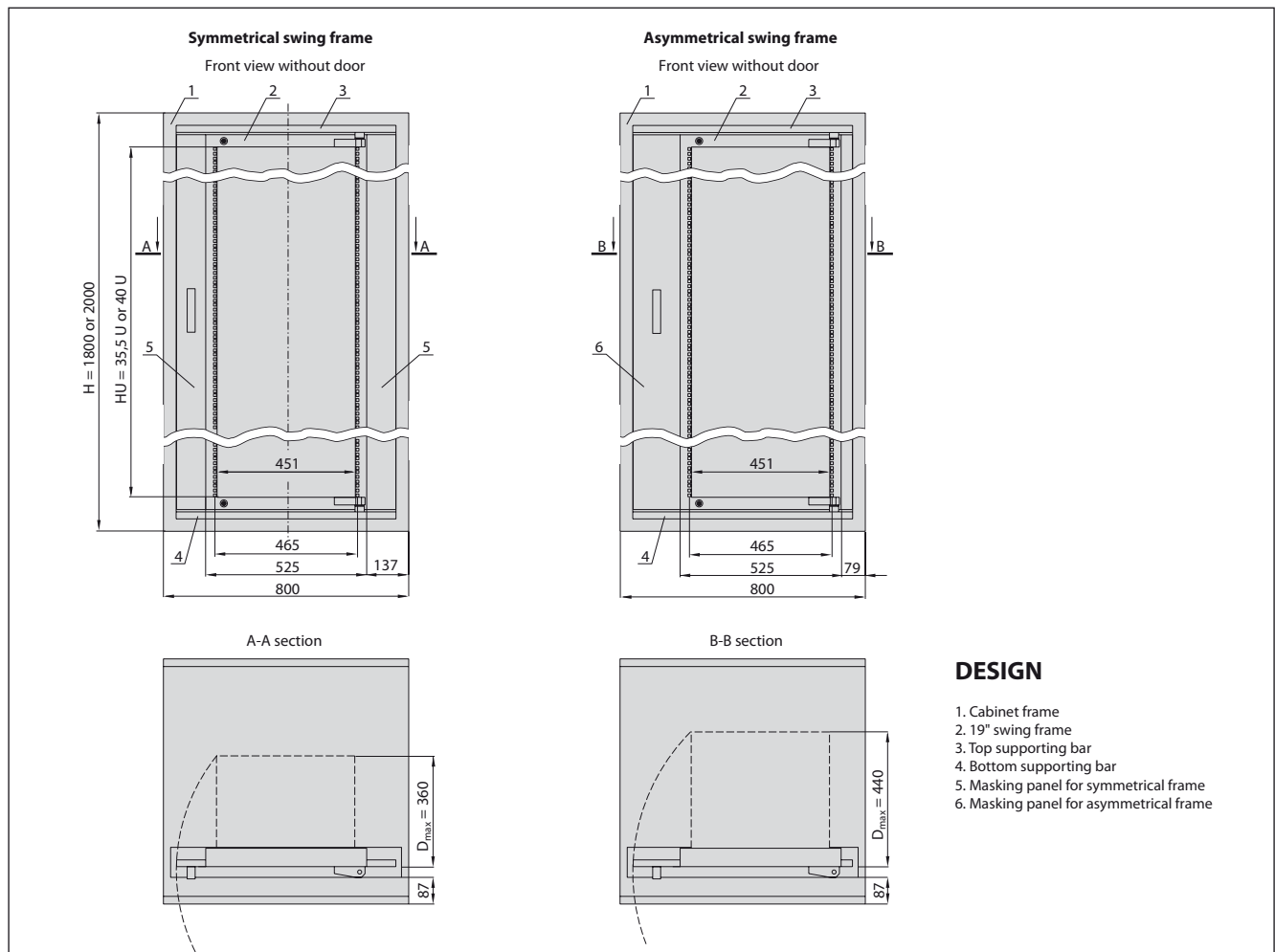
Swing frame with fixing accessories for mounting to the cabinet.

Asymmetrical swing frame in the cabinet



Swing frame type	For cabinet height H [mm]	Usable height of the frame HU [U = 44.45 mm]	Maximum depth for installations D _{max} [mm]	Catalogue number
symmetrical	2000	40 U	360	WZ-1951-29-01-011
	1800	35.5 U	360	WZ-1951-29-02-011
asymmetrical	2000	40 U	440	WZ-1951-20-01-011
	1800	35.5 U	440	WZ-1951-20-02-011

Package: 1 pc.



SUPPLEMENTARY ACCESSORIES FOR SIZE2 CABINETS

19" mounting profile

Used for installing 19" equipment in cabinets 600 or 800 mm wide. They are fixed to the cabinet's frame by using mounting bars UNI; in order to achieve the 19" spacing in cabinets 800 mm wide it is necessary to use outriggers, while in cabinets 1000 and 1200 mm wide an individual rack made of mounting bars.

Material:

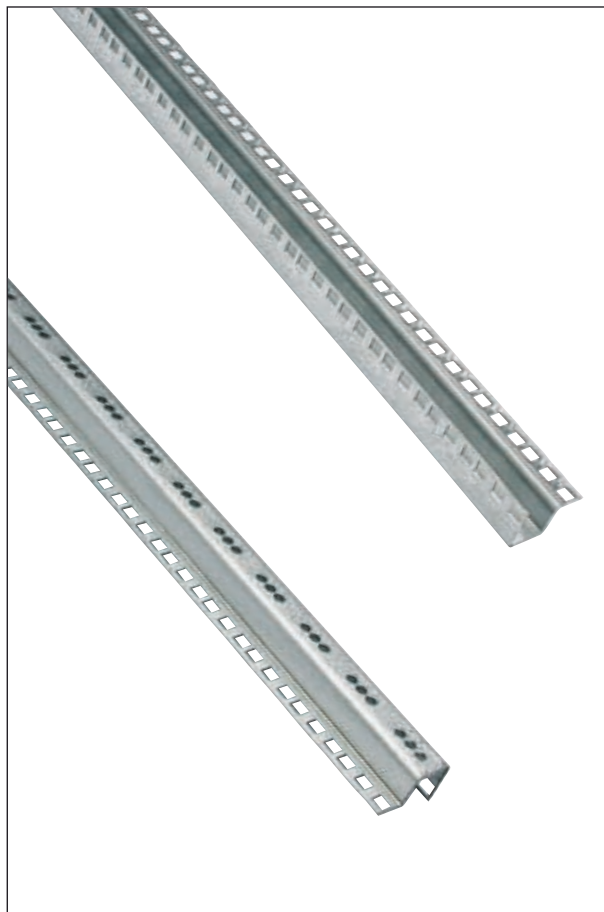
Al-Zn coated sheet steel

Scope of delivery:

Mounting profile without fixing accessories.

Length of mounting profile		Catalogue number
[mm]	[U = 44.45 mm]	
1868	42 U	WZ-SB00-01-02-000
1779	40 U	WZ-SB00-01-03-000
1734	39 U	WZ-SB00-01-13-000
1690	38 U	WZ-SB00-01-04-000
1601	36 U	WZ-SB00-01-05-000
1468	33 U	WZ-SB00-01-14-000
1423	32 U	WZ-SB00-01-06-000
1334	30 U	WZ-SB00-01-15-000
1245	28 U	WZ-SB00-01-07-000
1201	27U	WZ-SB00-01-16-000
1067	24 U	WZ-SB00-01-08-000
934	21U	WZ-SB00-01-17-000
801	18 U	WZ-SB00-01-09-000
667	15 U	WZ-SB00-01-10-000
534	12 U	WZ-SB00-01-11-000
445	10 U	WZ-SB00-01-12-000

Package: 1 pc.



Outrigger

For fixing mounting profile in SZE2 cabinet 800 mm wide.

Material:

Galvanised sheet steel

Scope of delivery:

1 outrigger with fixing accessories for fastening to mounting profile and mounting bar UNI.



Package	Catalogue number
1 pc.	WZ-3752-72-00-000

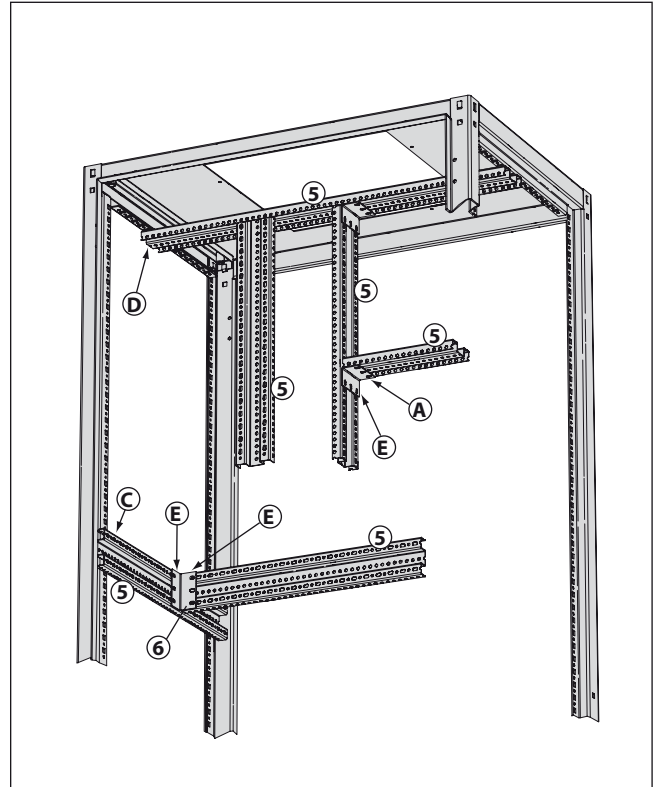
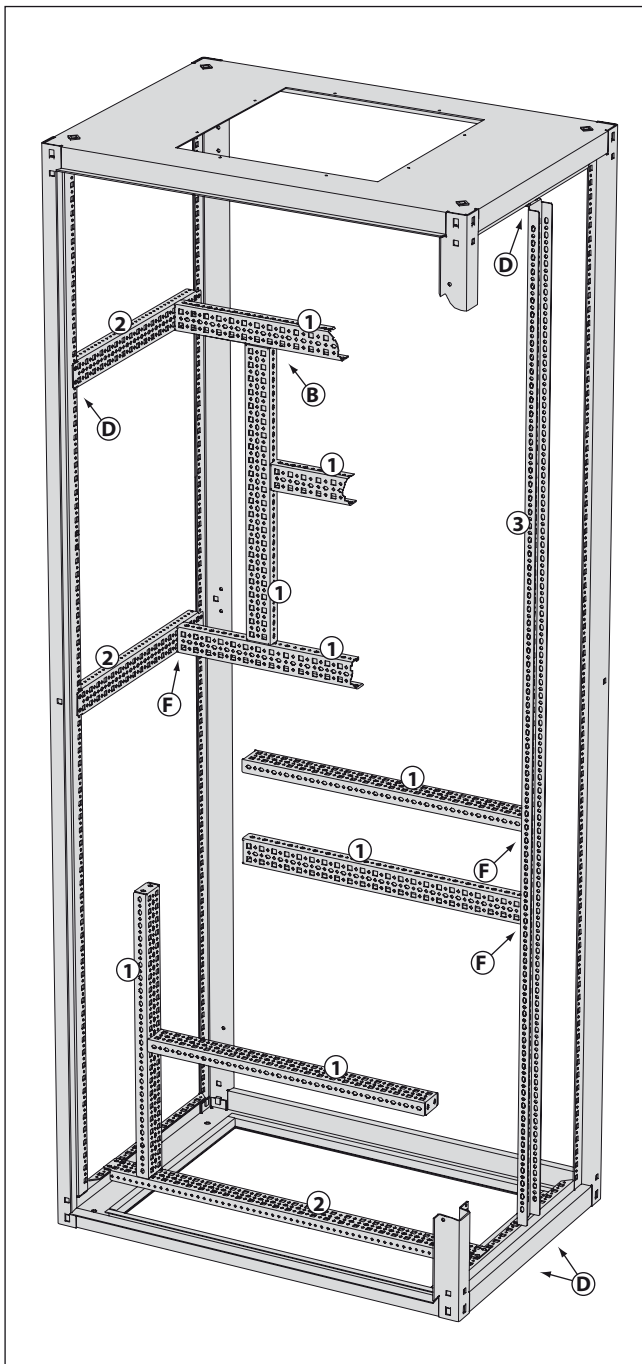


SUPPLEMENTARY ACCESSORIES FOR SIZE2 CABINETS

Racking systems

CLASSIC system

1. Mounting bar CLASSIC (page 162)
2. Cross bar CLASSIC (page 162)
3. Vertical bar CLASSIC (page 162)



UNI system

5. Mounting bar UNI (page 163)
6. Angle-element for joining mounting bars UNI (page 163)

Fixing accessories

	Description	pcs.	From set* cat. number
A	screw with nut and washers	1	WZ-1951-44-03-000
B	screw with nut and washers	2	WZ-1951-44-03-000
C	self-forming screw	1	WZ-1951-44-01-000
	or screw with cage nut and washer	2	WZ-1951-44-02-000
D	self-forming screw	2	WZ-1951-44-01-000
	or screw with cage nut and washer	2	WZ-1951-44-02-000
E	self-forming screw	2	WZ-1951-44-01-000
	or screw with nut and washers	2	WZ-1951-44-03-000
F	screw with cage nut and washer	2	WZ-1951-44-02-000
	or screw with nut and washers	2	WZ-1951-44-03-000

*) Fixing accessories are sold in sets 20 pcs/1 set.
A detailed description is available on page 163.



SUPPLEMENTARY ACCESSORIES FOR SIZE2 CABINETS

Mounting bar CLASSIC

Fixed to cross bars or vertical bar

Material:

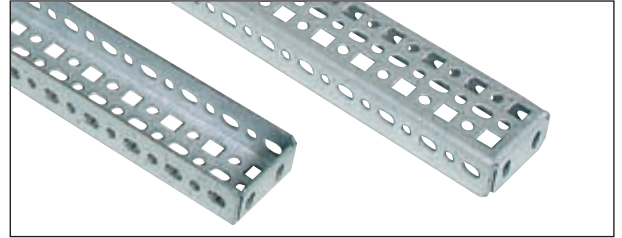
Al-Zn coated sheet steel

Scope of delivery:

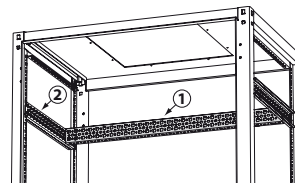
Mounting bar without fixing accessories (fixing accessories are listed on page 163).

Mounting bar length [mm]	Catalogue number	Mounting bar length [mm]	Catalogue number
1200	WZ-0573-12-01-000	650	WZ-0573-12-13-000
1150	WZ-0573-12-02-000	600	WZ-0573-12-14-000
1100	WZ-0573-12-03-000	550	WZ-0573-12-15-000
1050	WZ-0573-12-04-000	525	WZ-0573-12-16-000
1000	WZ-0573-12-05-000	500	WZ-0573-12-17-000
950	WZ-0573-12-06-000	450	WZ-0573-12-18-000
900	WZ-0573-12-07-000	400	WZ-0573-12-19-000
850	WZ-0573-12-08-000	350	WZ-0573-12-20-000
800	WZ-0573-12-09-000	300	WZ-0573-12-21-000
755	WZ-0573-12-10-000	275	WZ-0573-12-22-000
750	WZ-0573-12-11-000	250	WZ-0573-12-23-000
700	WZ-0573-12-12-000	225	WZ-0573-12-24-000
		200	WZ-0573-12-25-000

Package: 1 pc.



MATCHING MOUNTING BAR CLASSIC TO CABINET'S WIDTH



Cabinet width [mm]	Length of mounting bar CLASSIC [mm]
1200	1150
1000	950
800	750
600	550

1. Mounting bar CLASSIC
2. Cross bar CLASSIC

Vertical bar CLASSIC

Fixed to the bottom and top plate of the cabinet's frame.

Material:

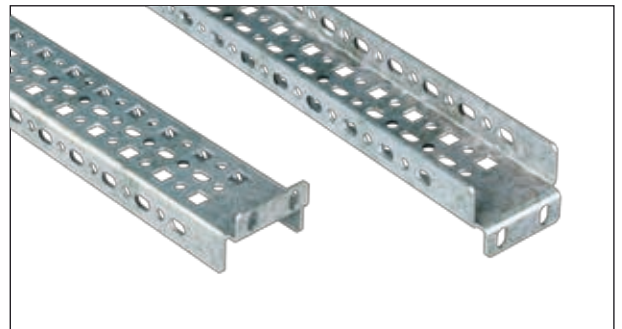
Al-Zn coated sheet steel

Scope of delivery:

Vertical bar without fixing accessories (fixing accessories are listed on page 163).

For cabinet height [mm]	Vertical bar length [mm]	Catalogue number
2000	1875	WZ-1951-48-01-000
1800	1675	WZ-1951-48-02-000

Package: 1 pc.



Cross bar CLASSIC

Fixed to vertical or horizontal slots of the cabinet's frame.

Material:

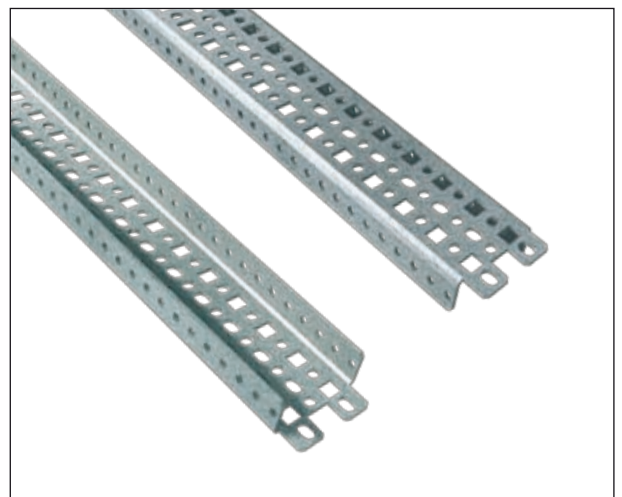
Al-Zn coated sheet steel

Scope of delivery:

Cross bar without fixing accessories (fixing accessories are listed on page 163).

For cabinet		Cross bar length [mm]	Catalogue number
width [mm]	depth [mm]		
—	800	640	WZ-1951-46-01-000
—	600	440	WZ-1951-46-02-000
—	500	340	WZ-1951-46-03-000
—	400	240	WZ-1951-46-04-000
1200	—	1152.5	WZ-1951-46-05-000
1000	—	952.5	WZ-1951-46-06-000
800	—	752.5	WZ-1951-46-07-000
600	—	552.5	WZ-1951-46-08-000

Package: 1 pc.



SUPPLEMENTARY ACCESSORIES FOR SIZE2 CABINETS

Mounting bar UNI

Mounting bars UNI enable configuration of any rack inside the cabinet.

Slots in the bars are adjusted both for horizontal and vertical slots of the cabinet's frame.

The standard offer includes bars whose length is adjusted to the cabinet's dimensions (see the chart below). Other lengths of bars are available on customer's request.

It is possible to select the length of bar individually by cutting bars during the assembly.

Material:

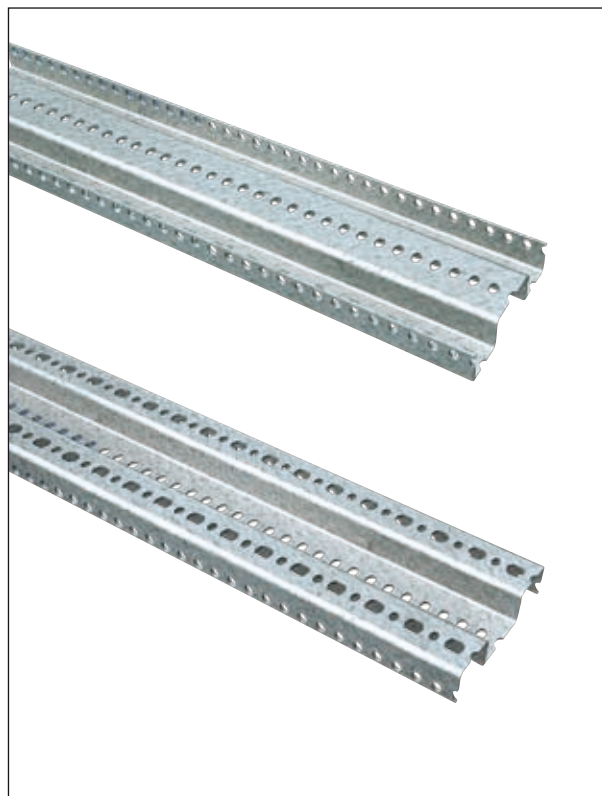
Al-Zn coated sheet steel

Scope of delivery:

Mounting bar without fixing accessories.

For cabinet			Length of mounting bar [mm]	Catalogue number
height ¹ [mm]	width ² [mm]	depth ³ [mm]		
2000	—	—	1875	WZ-1951-19-01-000
1800	—	—	1675	WZ-1951-19-02-000
1600	—	—	1475	WZ-1951-19-03-000
1200	—	—	1075	WZ-1951-19-04-000
—	1200	—	1162.5	WZ-1951-19-05-000
—	1000	—	962.5	WZ-1951-19-06-000
—	800	—	762.5	WZ-1951-19-07-000
—	600	—	562.5	WZ-1951-19-08-000
—	—	800	700	WZ-1951-19-09-000
—	—	600	500	WZ-1951-19-10-000
—	—	500	400	WZ-1951-19-11-000
—	—	400	300	WZ-1951-19-12-000

Package: 1 pc.



Methods of fastening bars in the cabinet (look at page 161):

- 1) Indirect fastening by bars cat. No from WZ-1951-19-05-000 to WZ-1951-19-08-000.
- 2) Direct fastening to the bottom or top plate.
- 3) Direct fastening to the cabinet's posts.

Angle element for joining mounting bars UNI

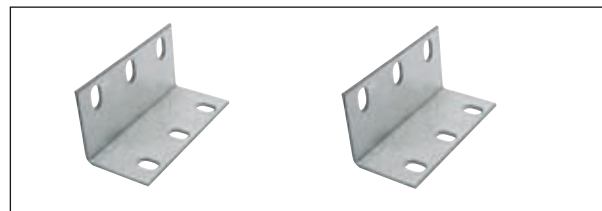
Material:

Al-Zn coated sheet steel

Scope of delivery:

1 angle element without fixing accessories.

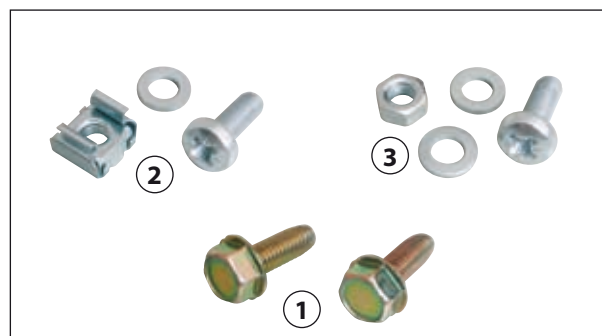
Package	Catalogue number
1 pc.	WZ-1951-21-00-000



Fixing accessories for CLASSIC and UNI bars

Application in accordance with instructions on page 161. They are sold in sets of 20 pcs. each.

Type of element	Package = 1 set	Catalogue number
1) Self forming screw M6x16	20 pcs.	WZ-1951-44-01-000
2) Screw M6x16 Cage nut M6 Washer 6.4	20 pcs. 20 pcs. 20 pcs.	WZ-1951-44-02-000
3) Screw M6x16 Nut M6 Washer 6.4	20 pcs. 20 pcs. 40 pcs.	WZ-1951-44-03-000



SUPPLEMENTARY ACCESSORIES FOR SIZE2 CABINETS

Transverse cable bar

Used for cable bundle assemblies. Fixed in the horizontal position to the side of the cabinet (to slots in the frame profiles) or to the door frame. Fixing method: using self forming screws or using screw with cage nut and washer - see page 163.

Material:

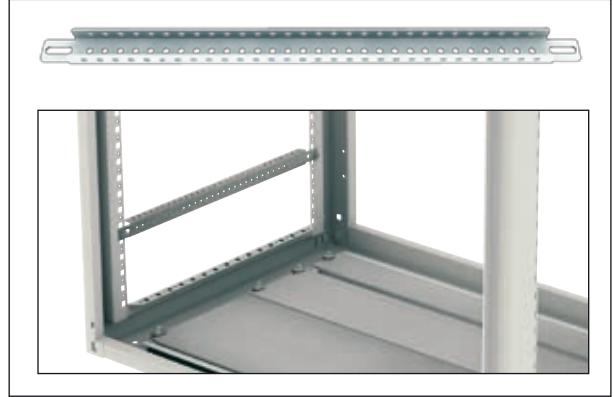
Al-Zn coated sheet steel.

Scope of delivery:

Transverse cable bar without fixing accessories (fixing accessories are listed on page 163).

For cabinet depth [mm]	Length of bar [mm]	Catalogue number
800	640	WZ-1951-65-01-000
600	440	WZ-1951-65-02-000
500	340	WZ-1951-65-03-000
400	240	WZ-1951-65-04-000

Package: 1 pc.



Cable bar, cable clamps

For fixing cables with cable clamps. Cable bar is to be mounted on horizontal profile of the cabinet's frame or 200 mm plinth.

Material:

Cable bar - Al-Zn coated sheet steel.

Cable clamps - zinc coated sheet steel.

Scope of delivery:

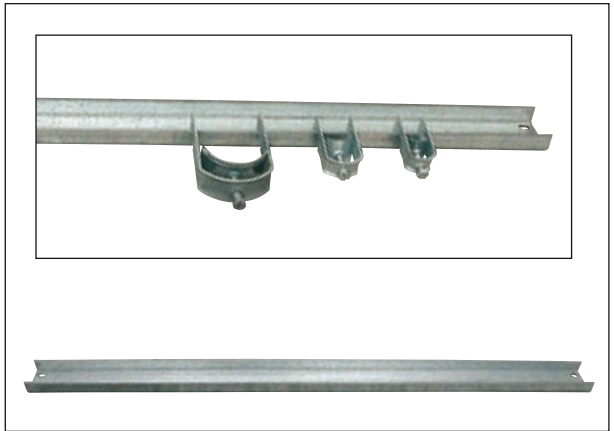
Cable bar sold without fixing accessories (fixing accessories are listed on page 163).

Cable clamps should be ordered separately.

Cable clamps

For cable diameter [mm]	Catalogue number
8-12	WZ-K12U-00-00-000
12-16	WZ-K16U-00-00-000
16-20	WZ-K20U-00-00-000
20-24	WZ-K24U-00-00-000
24-28	WZ-K28U-00-00-000
28-32	WZ-K32U-00-00-000
32-36	WZ-K36U-00-00-000
36-40	WZ-K40U-00-00-000
40-44	WZ-K44U-00-00-000
44-48	WZ-K48U-00-00-000
48-52	WZ-K52U-00-00-000
52-56	WZ-K56U-00-00-000

Package: 1 pc.



Cable bar

For cabinet width [mm]	Cable bar dimensions [mm] (length x width x height)	Catalogue number
1200	1158 x 49 x 20	WZ-1951-22-01-000
1000	958 x 49 x 20	WZ-1951-22-02-000
800	758 x 49 x 20	WZ-1951-22-03-000
600	558 x 49 x 20	WZ-1951-22-04-000

Package: 1 pc.

Support for cable bar

For mounting the cable bar on the 200 mm plinth. Fixed on the interior side of the plinth.

Material:

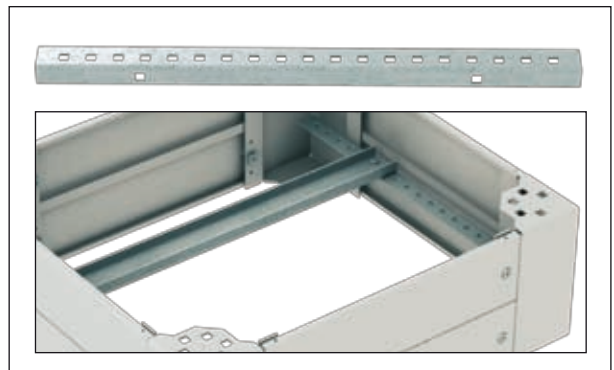
Al-Zn coated sheet steel.

Scope of delivery:

Support for cable bar without fixing accessories (fixing accessories are listed on page 163).

For cabinet depth [mm]	Length of support for cable bar [mm]	Catalogue number
800	700	WZ-1951-66-01-000
600	500	WZ-1951-66-02-000
500	400	WZ-1951-66-03-000
400	300	WZ-1951-66-04-000

Package: 1 pc.



SUPPLEMENTARY ACCESSORIES FOR SIZE2 CABINETS

Earthing bar set

Consists of earthing bar and horizontal mounting bar UNI intended for fixing on the horizontal profiles of the cabinet's frame.

Earthing bar with threaded openings M6 for cables fixing.

Material:

Earthing bar: zinc-coated steel rail 30 x 4 mm

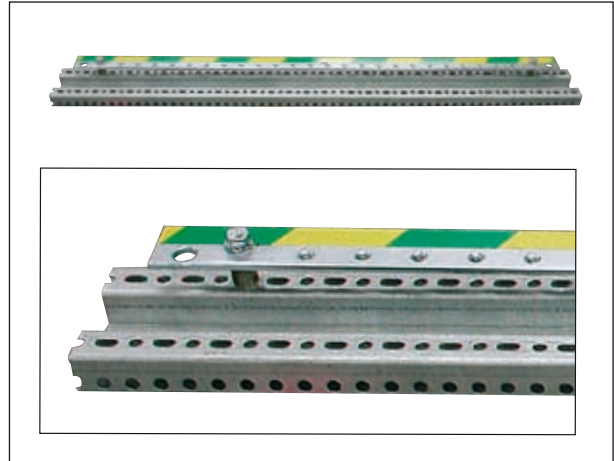
Mounting bar UNI: Al-Zn coated sheet steel

Scope of delivery:

Earthing bar set with fixing accessories for assembling into the cabinet.

For cabinet width [mm]	Length of mounting bar [mm]	Length of earthing bar [mm]	Catalogue number of set
1200	1162.5	1113.5	WZ-1951-24-01-000
1000	962.5	913.5	WZ-1951-24-02-000
800	762.5	713.5	WZ-1951-24-03-000
600	562.5	513.5	WZ-1951-24-04-000

Package: 1 set



Potential equalisation bar

Fixed on the mounting bar UNI, which is the part of earthing bar set.

With threaded holes M6 for cables fixing.

Material:

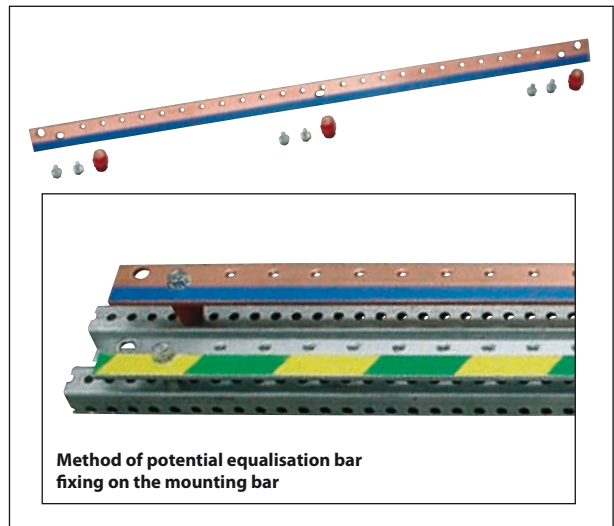
Copper bar 30 x 4 mm

Scope of delivery:

Potential equalisation bar with 3 insulators and screws for fixing to the mounting bar UNI.

For cabinet width [mm]	Length of potential equalisation bar [mm]	Catalogue number
1200	1113.5	WZ-1951-25-01-000
1000	913.5	WZ-1951-25-02-000
800	713.5	WZ-1951-25-03-000
600	513.5	WZ-1951-25-04-000

Package: 1 pc.



Earthing cable set

Copper cables for joining removable elements of the cabinet with earthing bar, equipped with contact eyes for M6 screws.

Material:

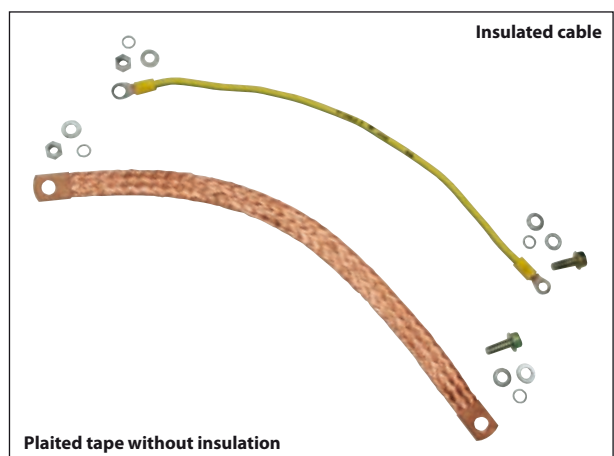
Copper

Scope of delivery:

Set: 8 insulated cables, full section 6 mm², 3 plaited tapes without insulation about 20 mm², fixing accessories.

Note: Plaited tapes are intended for door and mounting plate earthing.

Package	Catalogue number
1 set	WZ-1951-33-00-000



SUPPLEMENTARY ACCESSORIES FOR SIZE2 CABINETS

System lighting set

Fixed into the horizontal slots in the top part of the cabinet's frame using CLASSIC-type cross bar.

Equipped with a Schuko power socket and a switch. Possibility of direct power supply or use of the connecting cable from an adjacent lighting fitting.

Possibility of micro switch control.

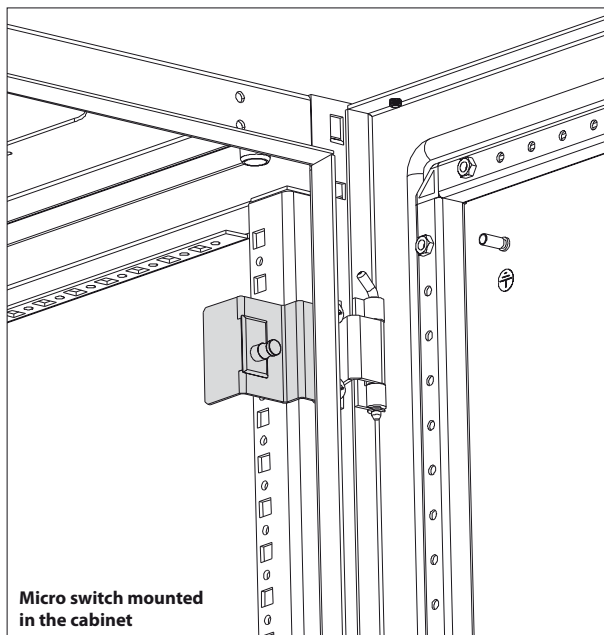
Material:

Electric light fitting -- sheet steel powder painted in RAL 7035

Scope of delivery:

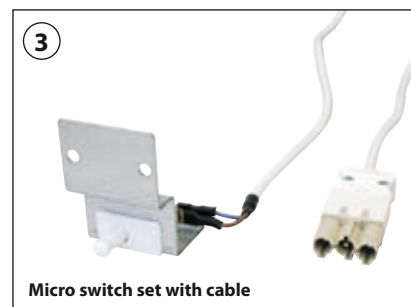
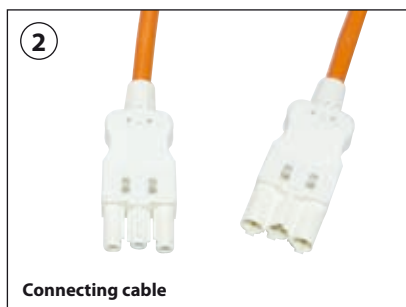
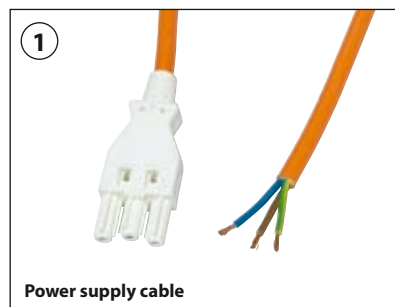
Set contains: electric light fitting with a 14 W fluorescent lamp, a cross bar CLASSIC with adjusted length to the cabinet's width, fixing accessories.

Connecting cable, power supply cable and micro switch set are to be ordered separately.



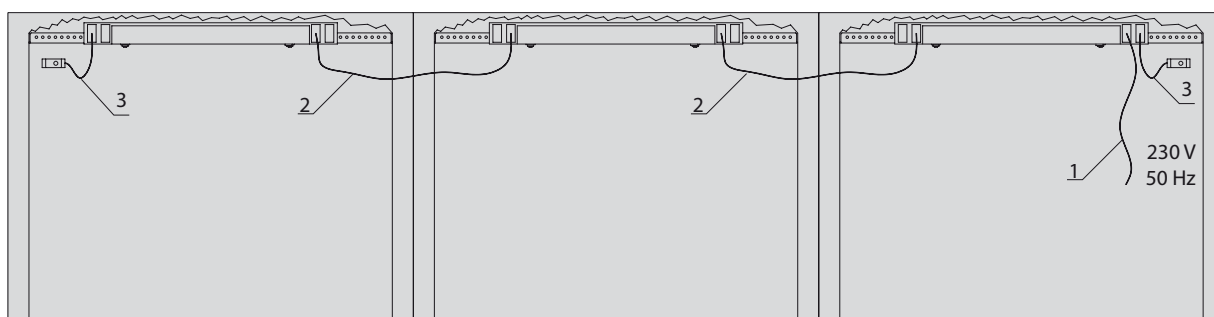
Product name	For cabinet width [mm]	Catalogue number
System lighting set	1200	WZ-1951-80-01-011
	1000	WZ-1951-80-02-011
	800	WZ-1951-80-03-011
	600	WZ-1951-80-04-011
Connecting cable 0.6 m	600 - 800	M1T-02-0012
Connecting cable 1.0 m	1000 - 1200	M1T-02-0011
Power supply cable 3.0 m		M1T-02-0016
Micro switch set with 1.0 m cable		WZ-1951-41-01-000

Package: 1 set



Connection diagram

- 1 - power supply cable
- 2 - connecting cable
- 3 - micro switch set



SUPPLEMENTARY ACCESSORIES FOR SIZE2 CABINETS

Lighting set

Fixed into horizontal slots in the top part of the cabinet's frame.

Material:

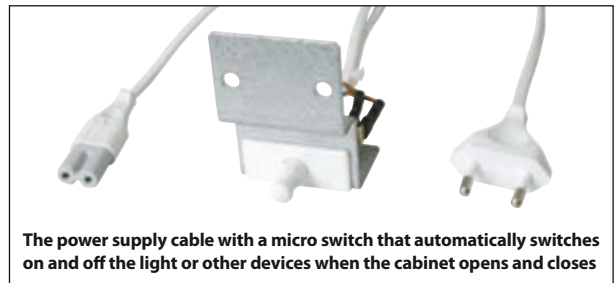
Mounting bracket - sheet steel powder painted in RAL 7035.

Mounting bar - Al-Zn coated steel (only for cabinets 1000 and 1200 mm wide).

Scope of delivery:

Set: electric light fitting with a fluorescent lamp 230 V, 8 W, a mounting bracket, a mounting rail (only for the cabinets 1000 and 1200 mm wide), a 1.6 m power supply cable and fixing accessories for mounting the set in the cabinet.

The power supply cable equipped with a micro switch is to be ordered separately.



Product name	For cabinet width [mm]	Catalogue number
Lighting set	1200	WZ-1951-38-01-011
	1000	WZ-1951-38-02-011
	800	WZ-1951-38-03-011
	600	WZ-1951-38-04-011
Power supply cable 1.6 + 1.0 m with a micro switch		WN-0208-04-00-000

Package: 1 set

Micro switch set

Mounted at the cabinet's door. Depending on wire connection, pressing the button closes or opens the circuit.

Scope of delivery:

Micro switch, mounting bracket, 2 screws

Package	Catalogue number
1 pc.	WZ-1951-41-03-000



SUPPLEMENTARY ACCESSORIES FOR SIZE2 CABINETS

Spare kit of sliding gland plates with foam for cabinet's bottom plate

Intended for application instead of standard sliding gland plates.

They create a cable opening with adjustable width.

Sealing foam protects cable isolation lead into the cabinet from any defects, at the same time increasing the cabinet's tightness.

Types, dimensions and openings in the bottom plate of SZE2 cabinet – see page 150.

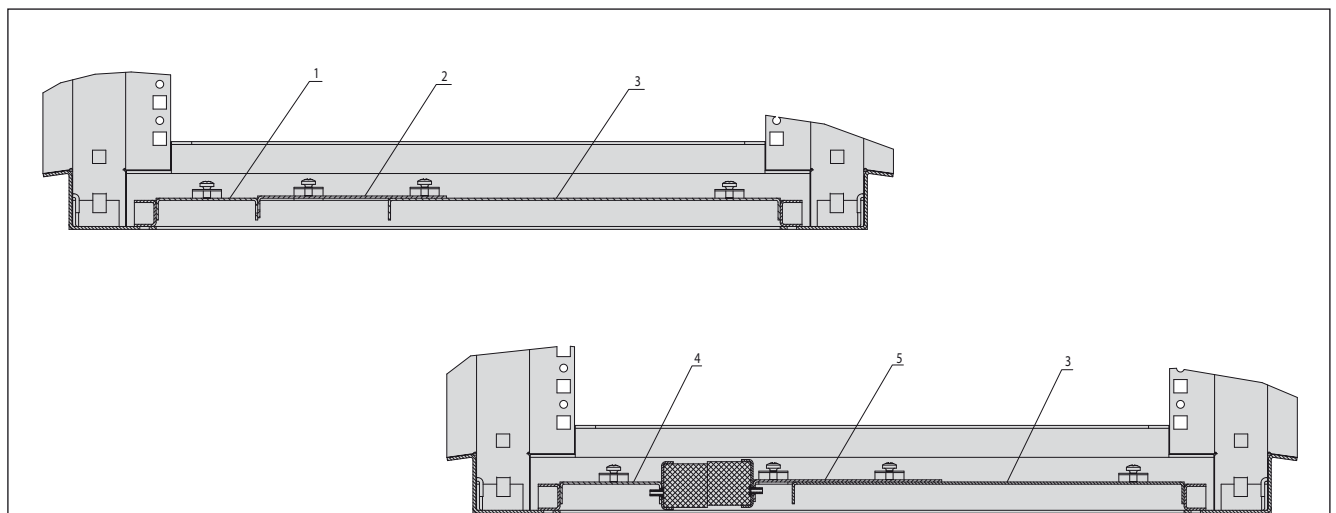
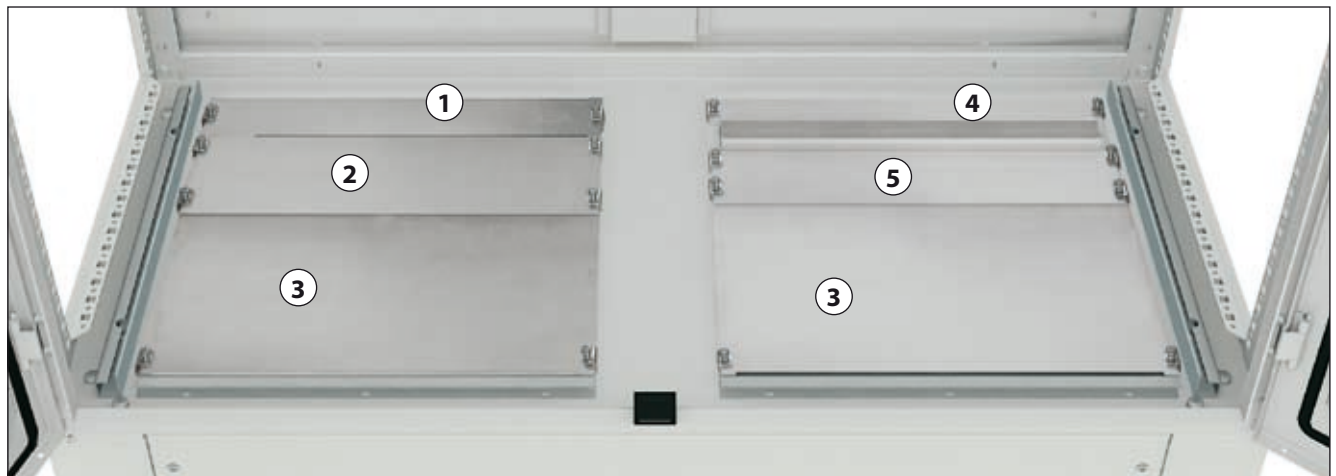
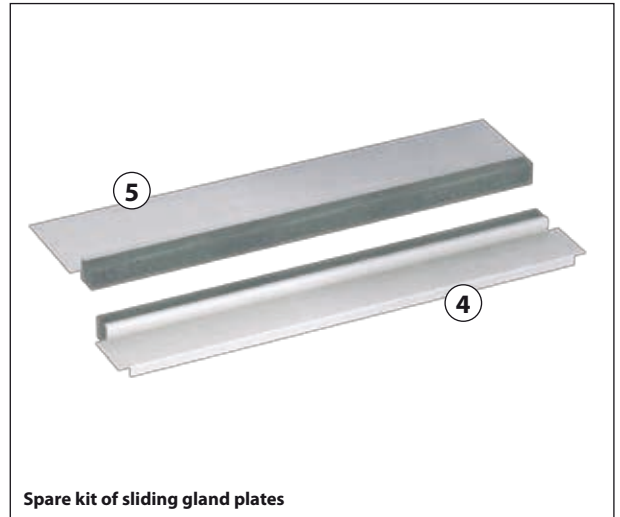
Material:

Al-Zn coated sheet steel, polyurethane foam.

Scope of delivery:

Set of 2 sliding gland plates with sealing foam.

For cabinet width [mm]	Gland plates width [mm]	Package	Catalogue number
800	656	1 set	WZ-1951-81-01-000
1200 or 600	456	1 set	WZ-1951-81-02-000
1000	406	1 set	WZ-1951-81-03-000



Method of fastening sliding gland plates in the bottom plate of the SZE2 cabinet

Supply of all cabinets includes:

1, 2, 3 – sliding gland plates without foam.

Supplementary accessories:

4, 5 – sliding gland plates with sealing foam intended for fastening instead of 2 standard gland plates without foam (1, 2).



SUPPLEMENTARY ACCESSORIES FOR SZE2 CABINETS

Blanking and cable entry plates for cabinet's top plate

For types, dimensions and spacing of openings in the top plate of the SZE2 cabinet, see page 151.

Available in 5 types:

- Solid blanking plates with a sealing gasket - to ensure tight closure of the top plate
- Perforated blanking plates - with ventilation openings, 2.5 mm wide
- Blanking plates with a fabric filter - with a replaceable fabric filter insert
- Cable entry plates with a brush strip - 320 x 50 mm opening for cable entry
- Cable entry plates with a foam strip - 320 x 50 mm opening for cable entry

Material:

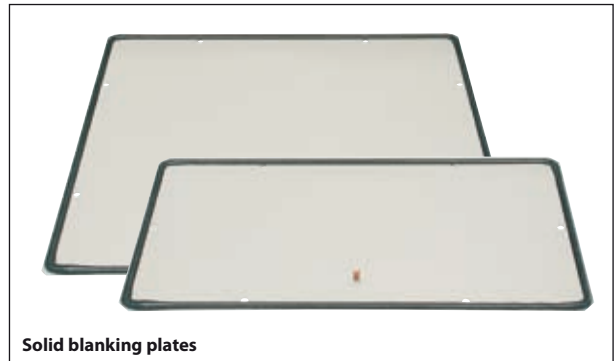
Sheet steel powder painted in RAL 7035

Scope of delivery:

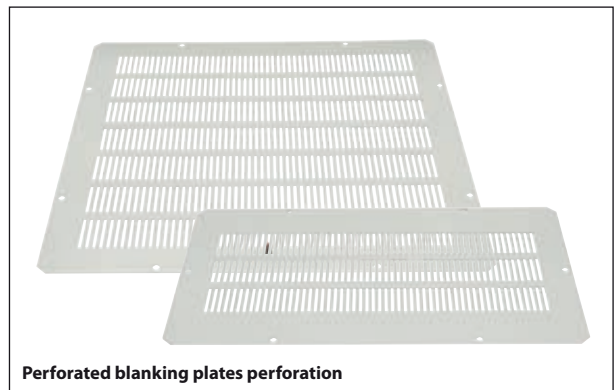
Blanking or cable entry plate with mounting elements for fixing inside the cabinet.

Type of blanking or cable entry plate	Protection degree of cabinets equipped with a blanking plate		For opening [mm]	Catalogue number
	Cabinet without a roof	Cabinet with a roof		
Solid blanking plate	IP 64	IP 64	380x380	WZ-1441-35-03-011
			380x210	WZ-1951-26-00-011
Perforated blanking plate	IP 20	IP 21	380x380	WZ-1718-39-01-011
			380x210	WZ-1718-39-02-011
Blanking plate with a fabric filter	IP 10	IP 21	380x380	WZ-1718-42-01-011
			380x210	WZ-1718-42-02-011
Cable entry plate with a brush strip	IP 10	IP 21	380x380	WZ-1718-37-01-011
			380x210	WZ-1718-37-02-011
Cable entry plate with a foam strip	IP 10	IP 21	380x380	WZ-1718-40-01-011
			380x210	WZ-1718-40-02-011

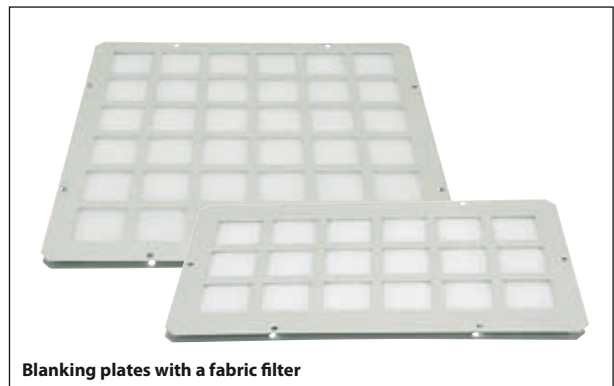
Package: 1 set



Solid blanking plates



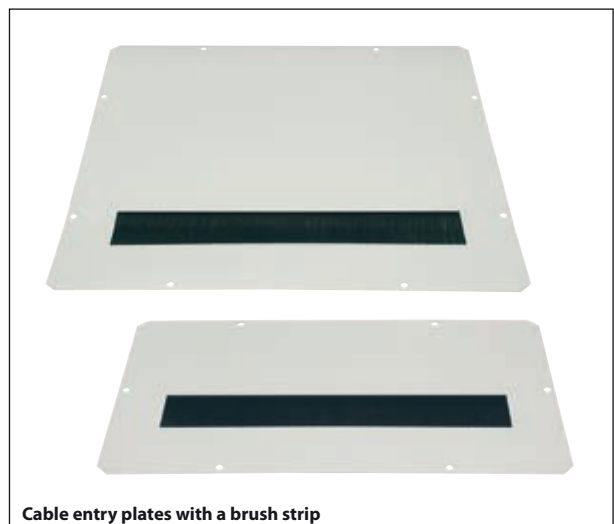
Perforated blanking plates perforation



Blanking plates with a fabric filter



Cable entry plates with a foam strip



Cable entry plates with a brush strip



SUPPLEMENTARY ACCESSORIES FOR SIZE2 CABINETS

Mounting plate infill

The plate infill makes it possible to achieve uniform mounting plane in cabinets bayed in rows.

Material:

Zinc coated sheet steel

Scope of delivery:

Mounting plate infill with fixing accessories for mounting into the cabinet.

For cabinet height [mm]	Mounting plate infill dimensions [mm] (HxWxD)	Catalogue number
2000	1867x86x30	WZ-1951-47-01-000
1800	1667x86x30	WZ-1951-47-02-000

Package: 1 pc.



Way of baying mounting plates

Partition

For the cabinets bayed in rows.
It is assembled in the same way as flushed side panels (see page 156).

Material:

Al-Zn coated sheet steel

Scope of delivery:

Partition (1 pc.) with fixing accessories for mounting into the cabinet.

For cabinet		Catalogue number
height [mm]	depth [mm]	
2000	800	WZ-1951-31-01-000
	600	WZ-1951-31-02-000
	500	WZ-1951-31-03-000
	400	WZ-1951-31-13-000
1800	600	WZ-1951-31-05-000
	500	WZ-1951-31-06-000

Package: 1 pc.

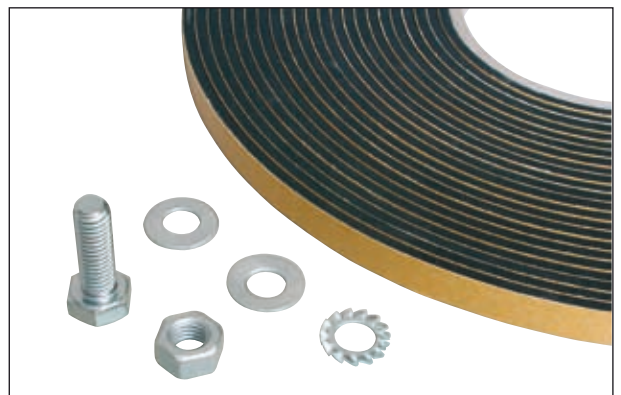


Set of elements for baying cabinets

For cabinets bayed in rows.
One set is required for baying two cabinets together.

Set includes	Catalogue number
Screw M8x25 6 pcs.	WZ-1951-45-00-000
Nut M8 6 pcs.	
Washer 8.4 12 pcs.	
Toothed washer 8.4 6 pcs.	
Self-adhesive gasket 6 m	

Package: 1 set



SUPPLEMENTARY ACCESSORIES FOR SIZE2 CABINETS

Heater

Compact heat device equipped with fan.

Technical data:

- Power supply 230 V AC, 50/60 Hz
- Heating force 200/300/400 W
- Fan capacity 10 m³/h
- Protection degree IP 20

Package	Catalogue number
1 pc.	WN-0316-09-00



Thermostat

Thermostatic regulator indicated for controlling fans, heaters, heat exchanger or for attaching signal generator at exceeding preset temperature limits.

Technical data:

- Sensor element:
thermal bimetal
- Temperature range:
0-60 °C, hysteresis ca. 7 °C
- Contact types:
snap action contact
- Power carrying capacity:
6 A (1) 250 V AC
- Radio frequency interference:
N (according to VDE 0875)

Scope of delivery:

- KTS 1141 or KTO 1140 thermostat,
- DIN rail,
- two holders,
- two screw clamps.

Type of thermostat	Colour of the handwheel	Package	Catalogue number
KTO 1140 – normally closed Switches off devices (e.g. heaters) at selected temperature limit.	●	1 pc.	WN-0201-01-00-000/A
KTS 1141 – normally open Switches on ventilation system (e.g. fans) at selected temperature limit.	●	1 pc.	WN-0201-02-00-000/A



KTS 1141 - thermostat normally open



SUPPLEMENTARY ACCESSORIES FOR SIZE2 CABINETS

Filter fans and exhaust filters

- Intended for mounting in side panels and door of the cabinet.
- Fastened with latches and screws.
- Enclosure made of ABS material, light grey (RAL 7035).
- Equipped with high quality filter inserts and gaskets.
- Possibility of changing direction of air flow by turning the fan.

Capacity:

Filter fans are available in ten options with the following capacities:

- capacity: from 20 to 740 m³/h (air flow through filter fan)
- capacity with exhaust filter: from 16 to 530 m³/h (air flow through the cabinet equipped with 1 filter fan and 1 exhaust filter).

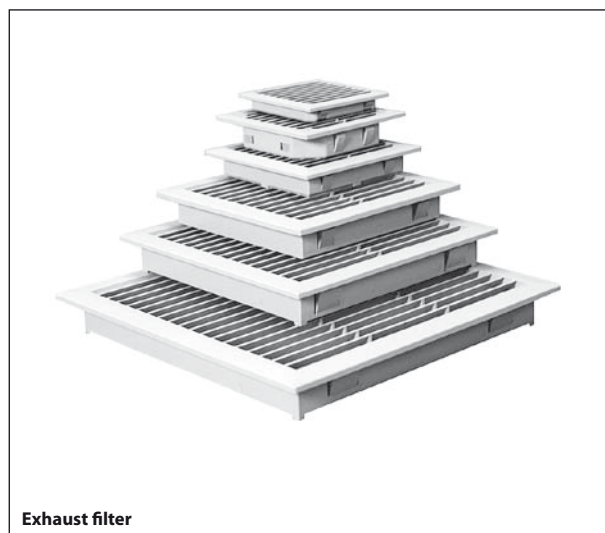
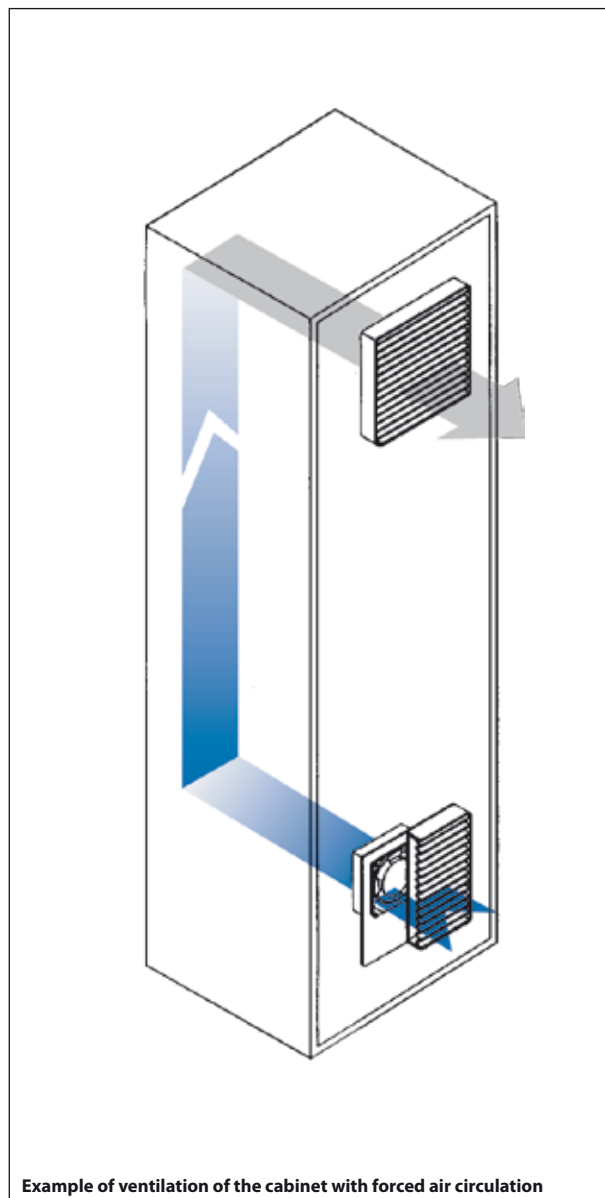
Type of fan supply:

- 230 V, 50/60 Hz,
- 115 V, 50/60 Hz,
- 24 V DC (only fans with capacity up to 250 m³/h).

Protection degree:

IP 54 in accordance with EN 60529

Selection of filter fans and exhaust filters should be consulted with ZPAS customer service.



SUPPLEMENTARY ACCESSORIES FOR SIZE2 CABINETS

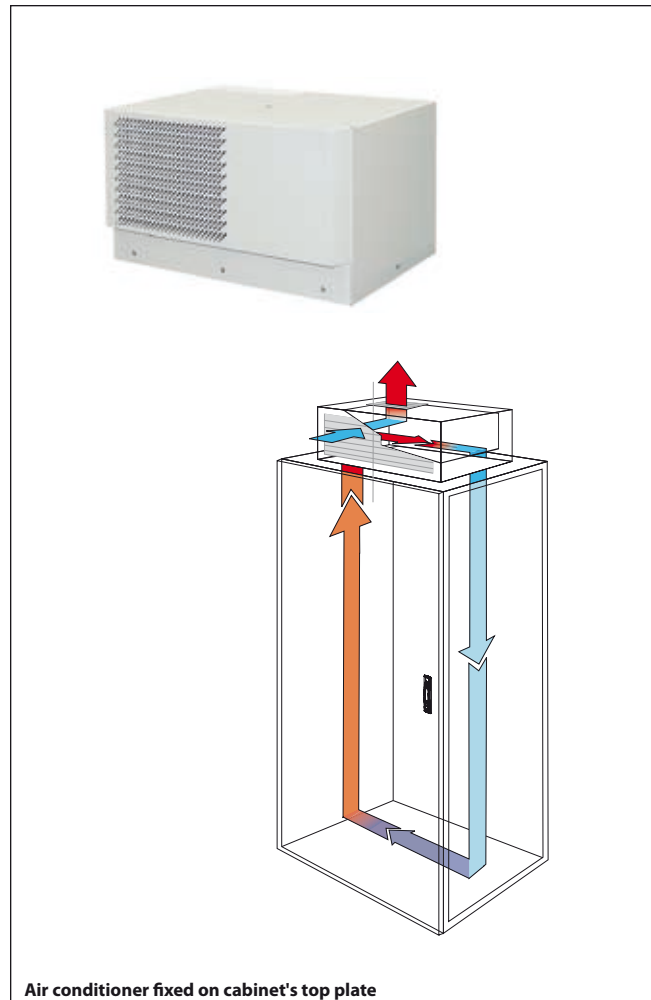
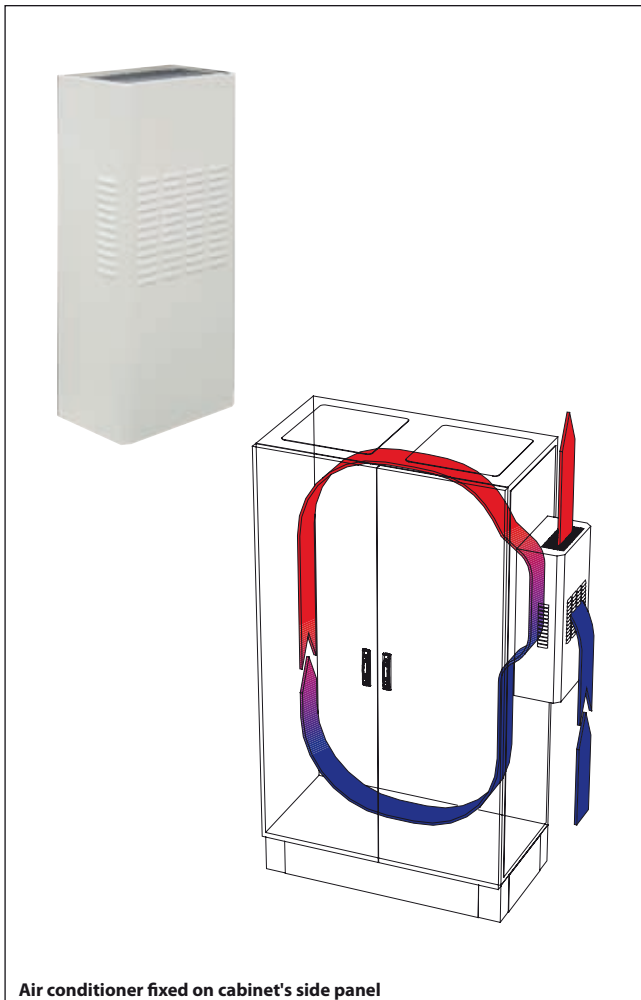
Air conditioner and heat exchanger

On customer's request, SIZE2 cabinets can be equipped with an air conditioner or heat exchanger (air/air type) fixed on the doors, side panels or in the top plate.

Mode of operation:

Internal cabinet air is sucked up from the top, cooled inside the air conditioner or heat exchanger and returned to the cabinet at a high speed towards the bottom. This solution ensures optimum cooling of the entire cabinet.

Selection of the air conditioner or heat exchanger should be consulted with ZPAS customer service.



ZPAS MODULAR SYSTEM

ZPAS modular system is intended for designing switchgears based on SZE2 power cabinets. Modular equipment is installed on dedicated structure.

Basic elements:

1. Mounting profiles II (see page 175)
2. Mounting bar UNI (see page 163)
3. Fixing accessories set (see page 175)
4. DIN rail (see page 176)
5. Assembly angles (see page 176)
6. Module panels 150 (see page 176)
7. Module blanking plates 150, 100, 50 (see page 177)
8. Horizontal and vertical module panels (see page 177)

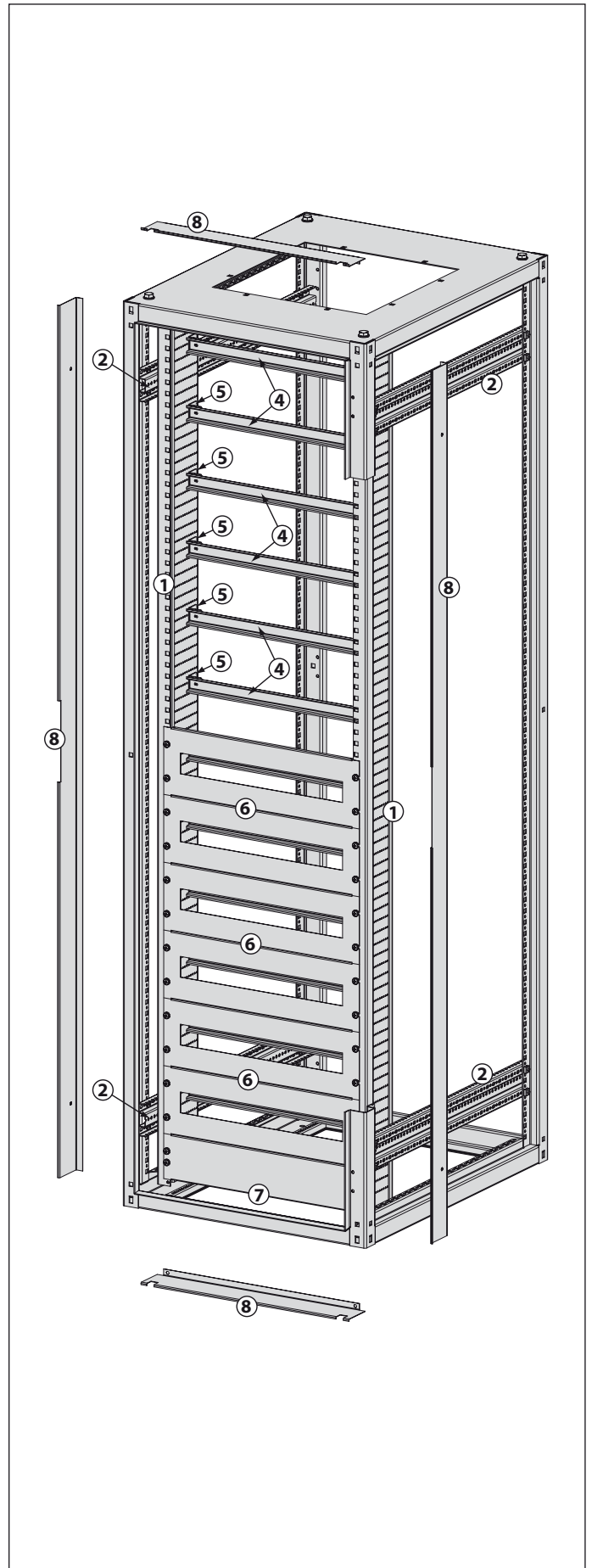
Switchgears based on this design are featured with IP 30 safe-to-touch (for live parts) protection degree. Once closed, SZE2 cabinets are IP 54 protected.

Each switchgear based on SZE2 cabinets is subdivided into bay height modules (BHM). Each module is 150 mm high.

Normally, switchgears equipped with a rail system are composed of 3 mounting zones:

- busbar system zone (3 BMHs),
- apparatus assembly zone (8 BMHs in case of the cabinets 2000 mm high),
- cable entry zone (1 BMHs + 100 mm).

With such a switchgear construction, the cabinets with the below listed dimensions (height x width) can contain the below listed number of modules of modular equipment: cabinet 2000 mm x 600 mm – 288 modules (18 mm); cabinet 2000 mm x 800 mm – 432 modules; cabinet 2000 mm x 1000 mm and 2000 mm x 1200 mm – 576 modules, respectively.



ZPAS MODULAR SYSTEM

Mounting profiles II

Mounting profiles are a racking system, and the other components of modular equipment installation sets (i.e. module panels, assembly angles and DIN rails) are attached to this system. The rail location can be smoothly adjusted with reference to the cabinet width.

Material:

Al-Zn coated steel sheet

Scope of delivery:

Mounting profile without fixing accessories (to be ordered separately).

For cabinet width [mm]	Capacity of mounting profile II*	Catalogue number
2000	12	WZ-4881-67-02-000
1800	11	WZ-4881-67-01-000

Package: 1 pc.

* Maximum number of built-in DIN rails



Mounting profile II fixing elements

A set of fixing accessories for fastening one point of the mounting profile II to the mounting bar UNI.

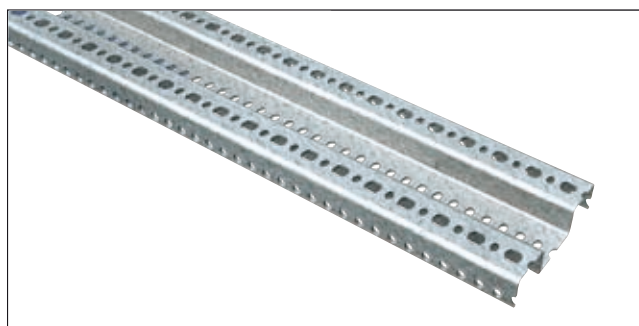
Description of set	Package	Catalogue number
Screw M6x16 - 1 pc. Nut M6 - 1 pc. Washer - 2 pcs Toothed washer - 1 pc.	1 set	WZ-SB00-37-00-000



Mounting bars UNI

Four mounting bars UNI, whose length is matched to the cabinet depth, are necessary to install mounting profiles II inside SZE2 cabinet.

A detailed description of the mounting bars UNI can be found on the page 163.



ZPAS MODULAR SYSTEM

DIN rail

The rail is intended for the installation of modular equipment.
Rail depth: 15 mm

Note: In case of cabinets 1000 and 1200 mm wide, heavy modular equipment can be installed differently. For more information, please contact ZPAS sales department.

Material:

Galvanized steel sheet

Scope of delivery:

DIN rail without fixing accessories.

For cabinet width [mm]	Catalogue number
1200	WZ-0573-52-21-000
1000	WZ-0573-52-22-000
800	WZ-0573-52-23-000
600	WZ-0573-52-24-000

Package: 1 pc.



Assembly angles

These angles are used for fixing DIN rails with the mounting profile II. Two angles are necessary to fix one rail.

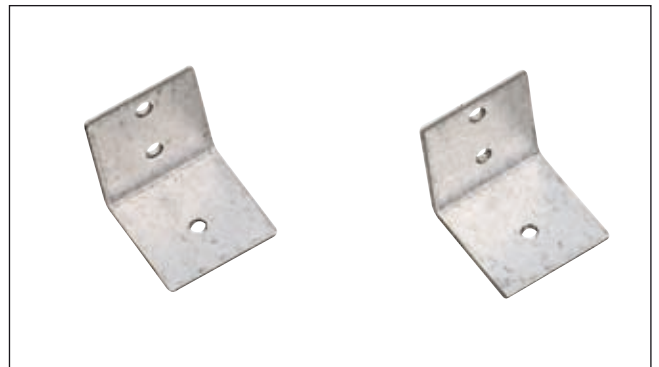
Material:

Al-Zn coated steel sheet

Scope of delivery:

An angle (1 pc.) with fixing accessories to fix it to the mounting profile II and the DIN rail.

Package	Catalogue number
1 pc.	WZ-0573-52-30-000



Module panel 150

Module panels are fixed directly to the mounting profiles II. 150 mm high, the module panels are intended for hiding modular equipment installed on the DIN mounting rail.

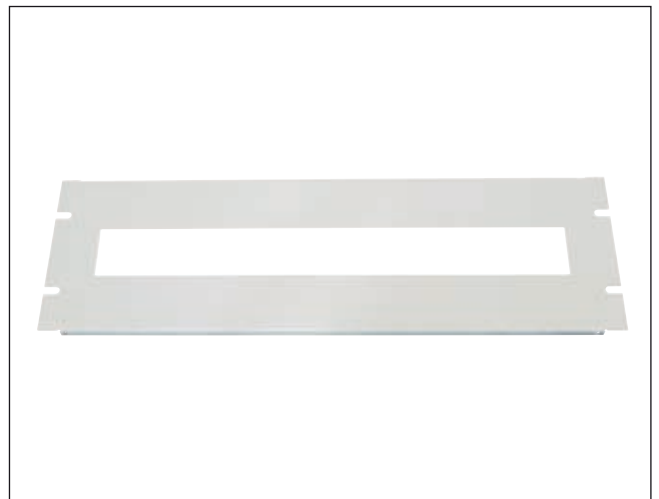
Material:

Powder painted RAL 7035 steel sheet.

Scope of delivery:

Module panel with fixing accessories.

For cabinet width [mm]	Module panel capacity (number of S-type modules, 18 mm wide)	Catalogue number
1200	48	WZ-4881-68-04-011
1000	48	WZ-4881-68-03-011
800	36	WZ-4881-68-02-011
600	24	WZ-4881-68-01-011



Package: 1 pc.



ZPAS MODULAR SYSTEM

Module blanking plates 150, 100, 50

These module blanking plates are used to fill free space left after modular equipment has been installed in the cabinet.

Depending on the cabinet height, it is necessary to use a blanking plate, other than the one 150 mm high.

- cabinet 1800 mm high – blanking plate 50 mm
- cabinet 2000 mm high – blanking plate 100 mm

Material:

Powder painted RAL 7035 steel sheet.

Scope of delivery:

Module panel with fixing accessories.



For cabinet width [mm]	Catalogue number		
	Module blanking plate 150 mm high	Module blanking plate 100 mm high	Module blanking plate 50 mm high
1200	WZ-4881-68-08-011	WZ-4881-71-04-011	WZ-4881-72-04-011
1000	WZ-4881-68-07-011	WZ-4881-71-03-011	WZ-4881-72-03-011
800	WZ-4881-68-06-011	WZ-4881-71-02-011	WZ-4881-72-02-011
600	WZ-4881-68-05-011	WZ-4881-71-01-011	WZ-4881-72-01-011

Package: 1 pc.

Horizontal and vertical module panels

These panels are intended to protect horizontal and vertical space between mounting profiles II and cabinet frame.

Material:

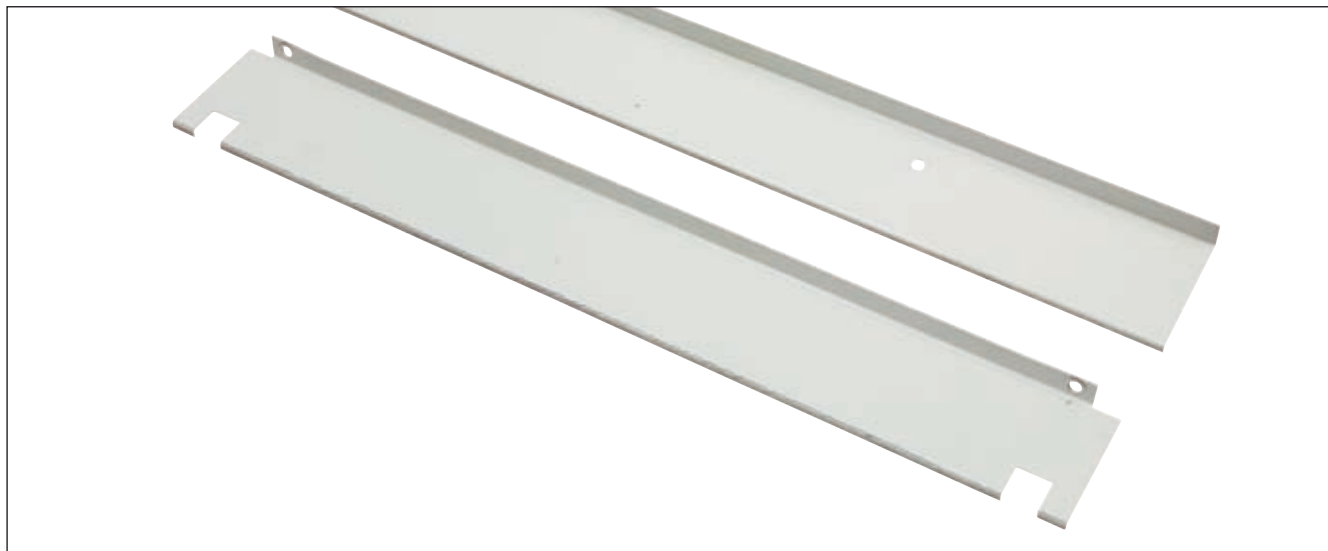
Powder painted RAL 7035 steel sheet.

Scope of delivery:

Horizontal or vertical module panel with fixing accessories.

Product name		Catalogue number
Vertical module blanking plate for the cabinets	2000 mm high	WZ-4881-69-02-011
	1800 mm high	WZ-4881-69-01-011
Horizontal module blanking plate for the cabinets	1200 mm wide	WZ-4881-70-04-011
	1000 mm wide	WZ-4881-70-03-011
	800 mm wide	WZ-4881-70-02-011
	600 mm wide	WZ-4881-70-01-011

Package: 1 pc.



WALL-MOUNTED CABINETS



SWN WALL-MOUNTED CABINETS



- Compact wall-mounted cabinets designed for electrical installations.
- In the standard version they are designed for indoor applications.
- Manufactured in 20 dimensions in accordance with the chart below.
- Cabinets of non-standard dimensions or stainless steel options are quoted individually.

Reference chart

Width [mm]	Depth [mm]	Height [mm]					
		300	400	500	600	800	1000
		Catalogue numbers of standard SWN cabinets					
200	115	WZ-2285-01-01-011	—	—	—	—	—
300	150	WZ-2285-01-02-011	—	—	—	—	—
	210	—	WZ-2285-01-03-011	—	—	—	—
400	150	—	—	—	—	—	—
	210	WZ-2285-01-04-011	WZ-2285-01-05-011	WZ-2285-01-06-011	—	—	—
	250	—	—	—	WZ-2285-01-07-011	—	—
	300	—	WZ-2285-01-08-011	WZ-2285-01-09-011	—	—	—
500	210	—	—	WZ-2285-01-10-011	—	—	—
	250	—	WZ-2285-01-11-011	—	WZ-2285-01-12-011	—	—
	300	—	—	—	WZ-2285-01-13-011	—	—
600	250	—	WZ-2285-01-14-011	—	WZ-2285-01-15-011	WZ-2285-01-16-011	WZ-2285-01-17-011
	300	—	—	—	—	WZ-2285-01-18-011	—
800	300	—	—	—	—	WZ-2285-01-19-011	WZ-2285-01-20-011

Technical data

Material:
Sheet steel

Protection degree:
IP 65 in accordance with EN 60529

Surface finish:

Body, door, blanking plate – Epoxide-polyester thick-texture powder paint in RAL 7035, intended for indoor usage. On customer's request, it is possible to use facade paint with improved resistance to adverse weather conditions and optional use of polyzinc base.

Mounting plate - Al-Zn coated

Note:

On request, the body, door and blanking plate can be made of stainless steel.

Description of SWN cabinet design

Body

- The body of SWN is a tight-welded sheet metal structure. Optimised door light ensures maximum use of available space.
- A multi-folded enclosure aperture protects against dust and moisture even when the door is open.
- In the bottom of the body, there is an opening for a gland plate. Dimensions of the opening depend on cabinet dimensions.
- Inside the body there are self-tapping screws for fixing the mounting plate.
- On the rear side of the body there are cut-outs for mounting the cabinet directly on the wall or by using lifting brackets.



SWN WALL-MOUNTED CABINETS

Door

- Cabinets are provided with a single-wing door.
- Depending on height, either one or two locks including double-bit insert are used:
 - cabinets up to 400 mm high - one lock in the middle;
 - cabinets from 500 to 1000 mm high - two locks.
- There are hinges fixed to the door; the number depends on cabinet height: from 300 to 600 mm - two hinges, from 800 to 1000 mm - three hinges.
- Interior of the door including sealing gasket and earthing studs.
- Left or right door option.
- Maximum door opening angle 120°.

Mounting plate

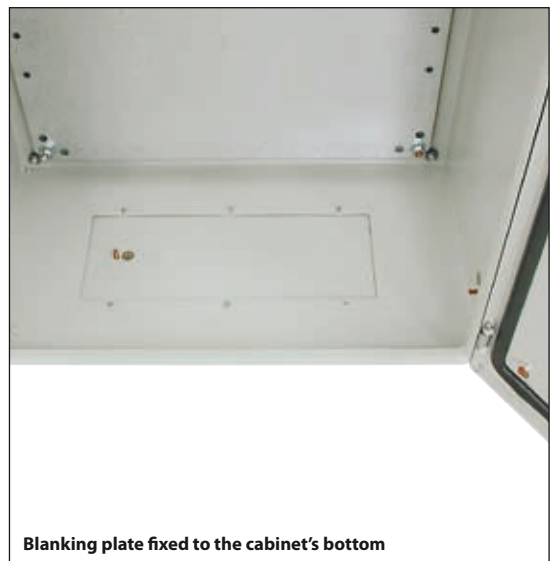
- Fixed to rear side of the body.
- In cabinets up to 600 mm high the flat mounting plate is used.
- In cabinets 800 or 1000 mm high, a folded mounting plate is used to maintain appropriate stiffness.
- Mounting plate including fixing points for earthing bar.

Blanking plate - cable entry plate

- Fixed to cut-out in the bottom plate by self-tapping screws.
- Includes sealing gasket and earthing stud.
- Gland cable entries available on request.

Earthing and potential equalisation

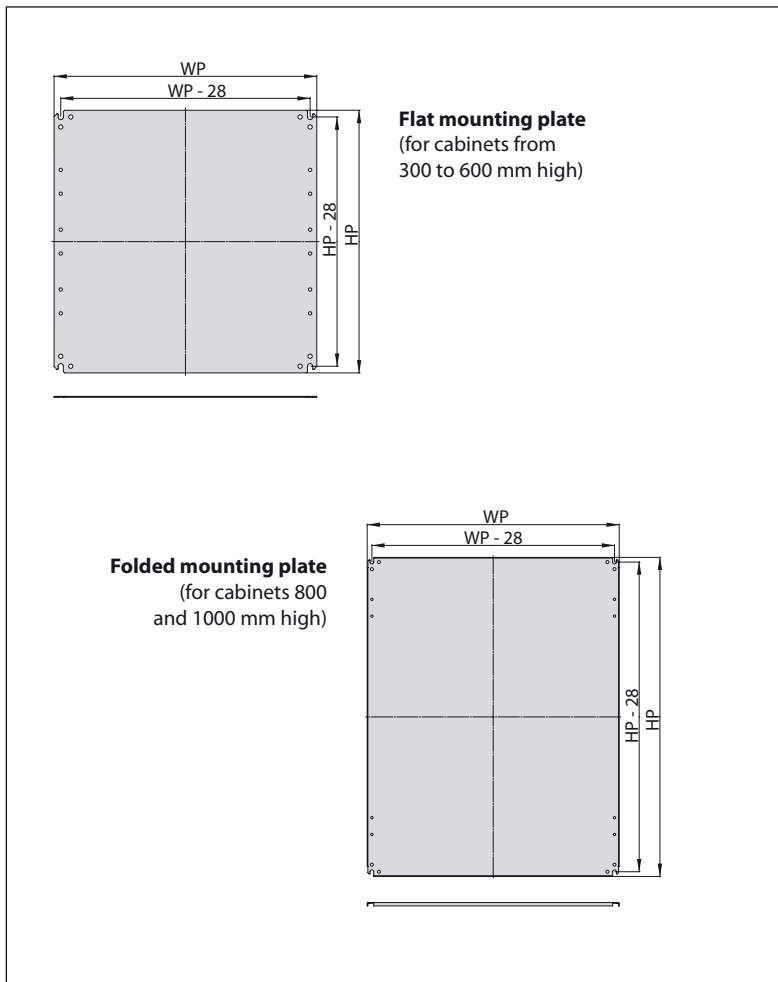
- The door and the blanking plate including earthing studs.
- Earthing bar and potential equalisation bar (for fixing to the mounting plate) and earthing cables are delivered as supplementary accessories.



Blanking plate fixed to the cabinet's bottom



DESIGN OF SWN CABINETS



Reference chart

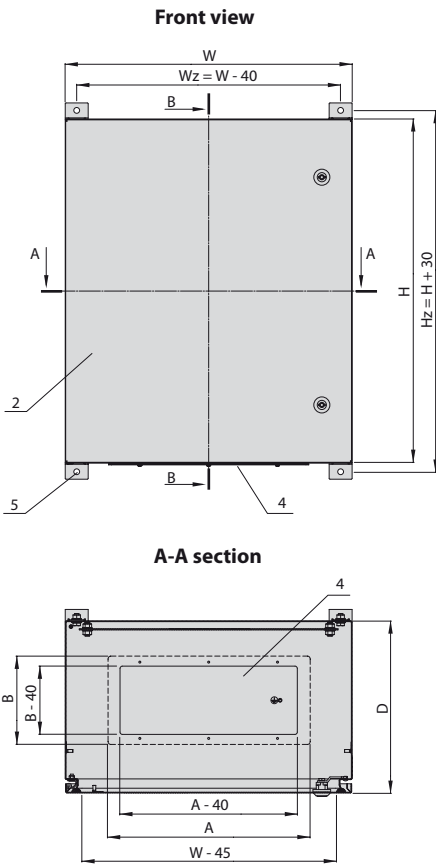
Cabinet dimensions [mm]	Height H	300			400				
	Width W	200	300	400	300	400	400	500	600
	Depth D	115	150	210	210	210	300	250	250
Number of locks in the door		1	1	1	1	1	1	1	1
Number of hinges in the door		2	2	2	2	2	2	2	2
Mounting plate dimensions [mm]	Height HP	251	251	251	351	351	351	351	351
	Width WP	151	251	251	251	351	251	451	551
Cable entry plate dimensions	A dimension	172	172	341	172	341	341	349	540
	B dimension	82	82	101	82	101	101	159	159

		Package	Catalogue numbers							
SWN cabinet*		1 pc.	WZ-2285-01-01-011	WZ-2285-01-02-011	WZ-2285-01-04-011	WZ-2285-01-03-011	WZ-2285-01-05-011	WZ-2285-01-08-011	WZ-2285-01-11-011	WZ-2285-01-14-011
Supplementary accessories	Potential equalisation bar	1 pc.	WZ-2285-10-01-000	WZ-2285-10-01-000	WZ-2285-10-01-000	WZ-2285-10-01-000	WZ-2285-10-01-000	WZ-2285-10-01-000	WZ-2285-10-02-000	WZ-2285-10-02-000
	Earthing set	1 set	WZ-2285-13-00-000							
	Set of brackets for wall mounting	1 set = 4 pcs.	WZ-2285-14-00-000							

*) SWN cabinet - scope of delivery: body, door, mounting plate, blanking plate (cable entry plate).



DESIGN OF SWN CABINETS



DESIGN

1. Body
2. Door
3. Mounting plate
4. Blanking plate - cable entry plate
5. Wall bracket

Note:
Wall brackets are ordered separately.



Ordering Instruction

When ordering SWN wall mounted cabinet or supplementary accessories, refer to catalogue numbers from the chart.

500			600				800			1000	
400	400	500	400	500	500	600	600	600	800	600	800
210	300	210	250	250	300	250	250	300	300	250	300
2	2	2	2	2	2	2	2	2	2	2	2
2	2	2	2	2	2	2	3	3	3	3	3
451	451	451	551	551	551	551	751	751	751	951	951
351	351	451	351	451	451	551	551	551	751	551	751
341	341	349	341	349	349	540	540	540	540	540	540
101	101	159	101	159	159	159	159	159	159	159	159

WZ-2285-01-06-011	WZ-2285-01-09-011	WZ-2285-01-10-011	WZ-2285-01-07-011	WZ-2285-01-12-011	WZ-2285-01-13-011	WZ-2285-01-15-011	WZ-2285-01-16-011	WZ-2285-01-18-011	WZ-2285-01-19-011	WZ-2285-01-17-011	WZ-2285-01-20-011
WZ-2285-10-01-000	WZ-2285-10-01-000	WZ-2285-10-02-000	WZ-2285-10-01-000	WZ-2285-10-02-000	WZ-2285-10-02-000	WZ-2285-10-02-000	WZ-2285-10-02-000	WZ-2285-10-02-000	WZ-2285-10-02-000	WZ-2285-10-02-000	WZ-2285-10-02-000
WZ-2285-13-00-000											
WZ-2285-14-00-000											

Detailed description of supplementary accessories: page 184.



SUPPLEMENTARY ACCESSORIES FOR SWN CABINETS

Potential equalisation bar

Fixed to the mounting plate by insulators (fixing points are made during assembly).

Threaded holes M5 for fixing wires.

Material:

Copper bar 30 x 4 mm.

Scope of delivery:

Potential equalisation bar with 2 insulators and screws for fixing on the mounting plate.

For cabinets width [mm]	Length of the bar [mm]	Package	Catalogue number
200 - 400	130	1 pc.	WZ-2285-10-01-000
500 - 800	230	1 pc.	WZ-2285-10-02-000



Earthing set

Consists of an earthing bar and 2 earthing cables.

Earthing bar

- Fixed to mounting plate by distance pins (standard mounting plate includes fixing points for earthing bar).
- Threaded holes M5 for fixing wires.

Earthing cables

- Insulated copper wires for joining removable elements of the cabinet with earthing bar or directly with cabinet's body.
- With contact eyes.

Material:

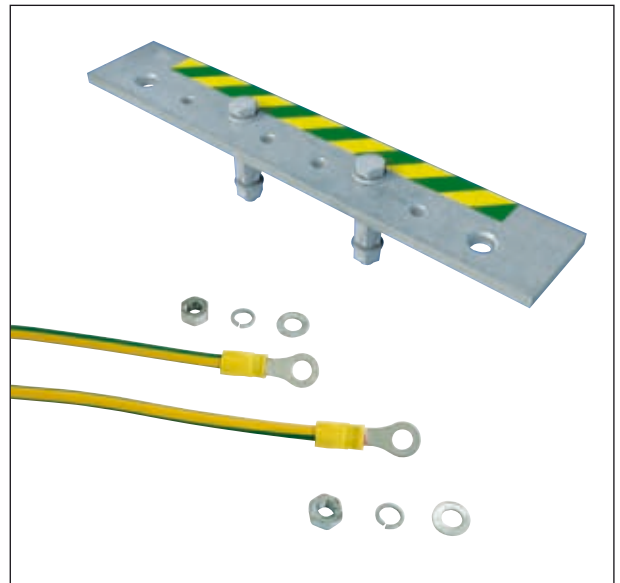
Galvanised steel rail 30 x 4 x 170 mm

Copper cables, full section 6 mm²

Scope of delivery:

Set: earthing bar 170 mm long with distance pins, washers and nuts for fixing to mounting plate, 2 grounding cables 300 mm long, fixing accessories.

Package	Catalogue number
1 set	WZ-2285-13-00-000



Set of wall brackets for wall mounting

Wall brackets are fixed to openings in the rear side of the cabinet horizontally or vertically. Diameter of openings: 10 mm. Spacing between rear side of the cabinet and the wall: 20 mm.

1 set = 4 brackets per cabinet.

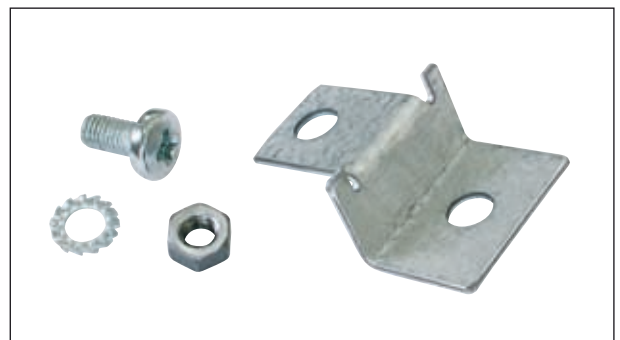
Material:

Al-Zn coated sheet steel.

Scope of delivery:

Set: 4 wall brackets with screws, nuts and washers for fixing to the rear side.

Package	Catalogue number
1 set = 4 pcs.	WZ-2285-14-00-000



CABINETS WITH ELECTRICAL EQUIPMENT



Double-section switchgear
with modular equipment

Control box for Power Plant Bełchatów
based on SWN-type cabinets



ZPAS also offers floor-standing and wall-mounted cabinets including electrical equipment and wiring:

- low voltage up to 2500 A distributor cabinets,
- AC and DC guaranteed voltage distribution cabinets,
- path and cable cabinets,
- meter cabinets,
- protection, control and signalling cabinets,
- remote control engineering cabinets and others.



CABINETS WITH ELECTRICAL EQUIPMENT



Low-voltage distribution cabinet in Galess Zinc Plant in Świdnica

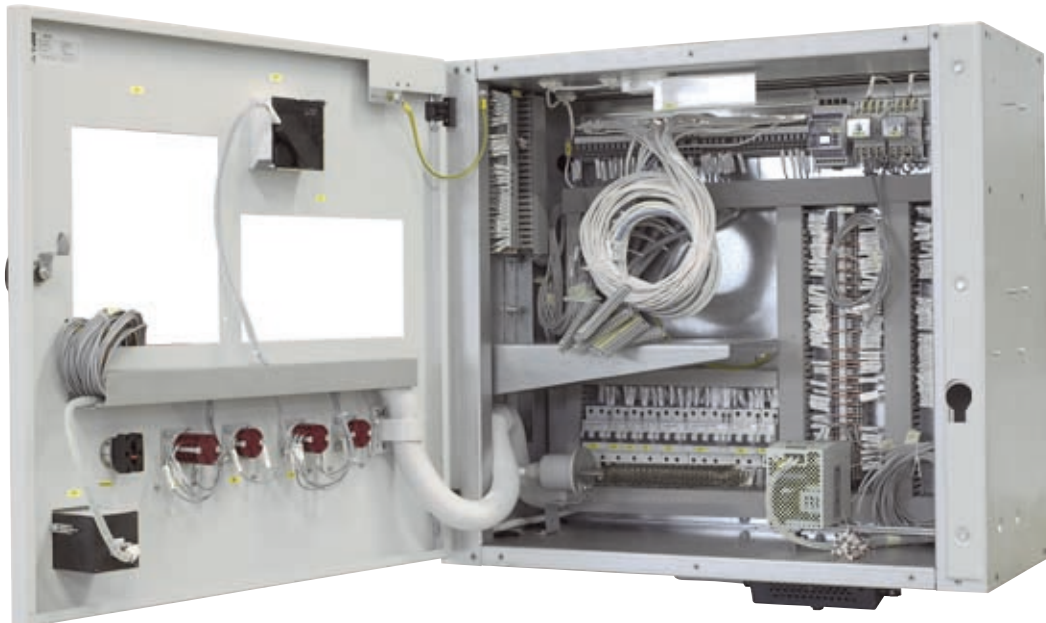


CABINETS WITH ELECTRICAL EQUIPMENT



Control and measuring cabinet



CABINETS WITH ELECTRICAL EQUIPMENT

LV chamber for 12 kV power distribution station switchgear (oil extraction industry – Siberia, Russia).



CABINETS WITH ELECTRICAL EQUIPMENT



LV switchgear for 35/6 kV power distribution station
(oil extraction industry – Siberia, Russia).



CABINETS WITH ELECTRICAL EQUIPMENT



220/110/24 V switchgear for a mining company



Set of control and power cabinets for a ceramic plant



CONTROL DESKS



PSL CONTROL DESKS

- PSL control desks are designed for mounting control apparatus, monitoring systems, measurement devices and visualisation of production processing.
- They are particularly recommended for operation stations, automated processing lines or machinery rooms.
- Equipped with revolving hinge panel which allows for maintenance of mounted devices.
- Manufactured in 4 configurations and 60 dimensions.
- Option of openings in the hinged panel on customer's request.

Reference chart

Width W [mm]	Depth D [mm]	Type of configuration			
		Type I	Type II	Type III	Type IV
Catalogue numbers of standard PSL desks					
600	450	WZ-0950-01-15-011	WZ-0950-01-30-011	WZ-0950-01-45-011	WZ-0950-01-60-011
	600	WZ-0950-01-14-011	WZ-0950-01-29-011	WZ-0950-01-44-011	WZ-0950-01-59-011
	800	WZ-0950-01-13-011	WZ-0950-01-28-011	WZ-0950-01-43-011	WZ-0950-01-58-011
800	450	WZ-0950-01-12-011	WZ-0950-01-27-011	WZ-0950-01-42-011	WZ-0950-01-57-011
	600	WZ-0950-01-11-011	WZ-0950-01-26-011	WZ-0950-01-41-011	WZ-0950-01-56-011
	800	WZ-0950-01-10-011	WZ-0950-01-25-011	WZ-0950-01-40-011	WZ-0950-01-55-011
1000	450	WZ-0950-01-09-011	WZ-0950-01-24-011	WZ-0950-01-39-011	WZ-0950-01-54-011
	600	WZ-0950-01-08-011	WZ-0950-01-23-011	WZ-0950-01-38-011	WZ-0950-01-53-011
	800	WZ-0950-01-07-011	WZ-0950-01-22-011	WZ-0950-01-37-011	WZ-0950-01-52-011
1200	450	WZ-0950-01-06-011	WZ-0950-01-21-011	WZ-0950-01-36-011	WZ-0950-01-51-011
	600	WZ-0950-01-05-011	WZ-0950-01-20-011	WZ-0950-01-35-011	WZ-0950-01-50-011
	800	WZ-0950-01-04-011	WZ-0950-01-19-011	WZ-0950-01-34-011	WZ-0950-01-49-011
1500	450	WZ-0950-01-03-011	WZ-0950-01-18-011	WZ-0950-01-33-011	WZ-0950-01-48-011
	600	WZ-0950-01-02-011	WZ-0950-01-17-011	WZ-0950-01-32-011	WZ-0950-01-47-011
	800	WZ-0950-01-01-011	WZ-0950-01-16-011	WZ-0950-01-31-011	WZ-0950-01-46-011

Technical data

Material:

Sheet steel

Protection degree:

IP 54 in accordance with EN 60529

Surface finishing:

Body of individual segments, doors, rear panels, plinth – Epoxide–polyesther powder paint, light grey RAL 7035, recommended for indoor applications

Mounting plates – Al-Zn coated

Note:

On request, the bodies, doors, panels and plinth can be made of stainless sheet steel.



TYPE I



TYPE II



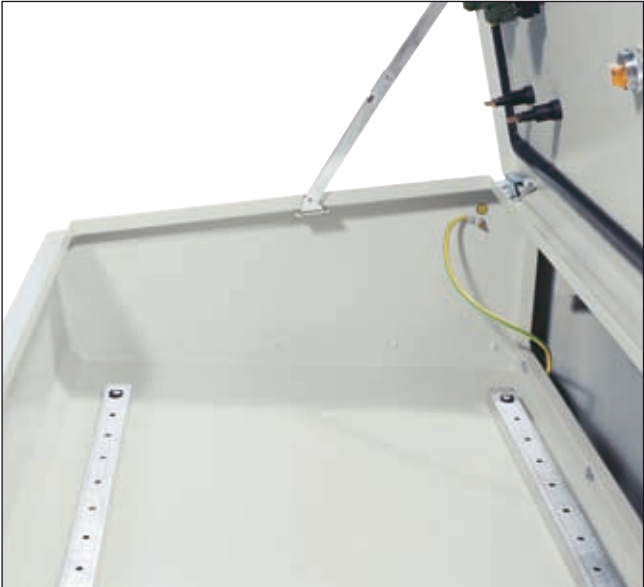
TYPE III



TYPE IV



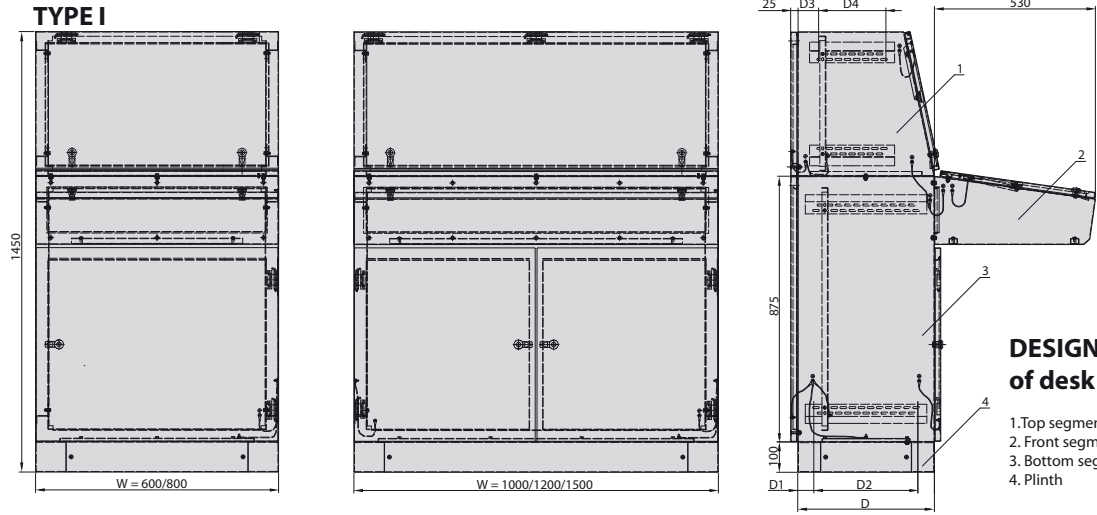
PSL CONTROL DESKS



PSL CONTROL DESKS

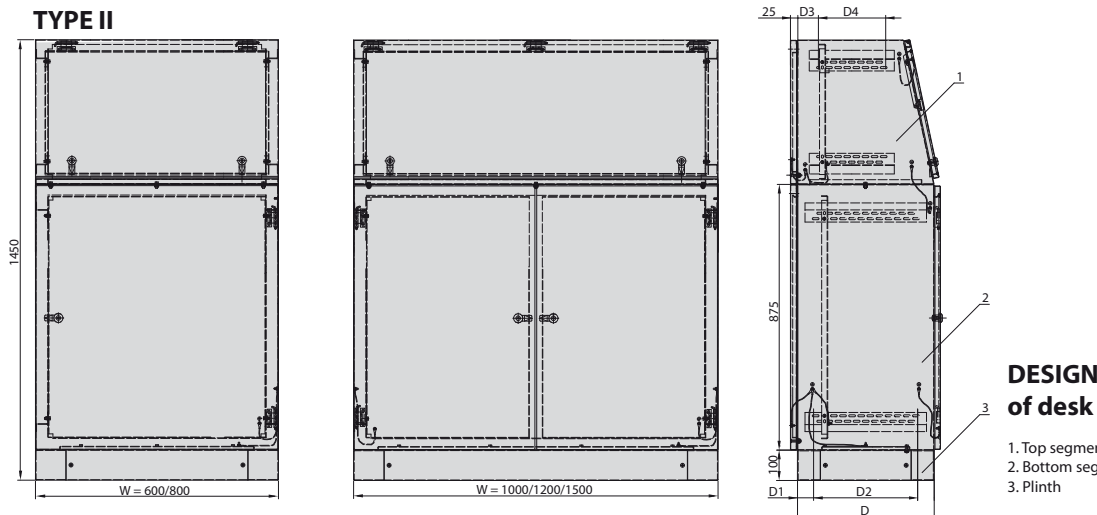


PSL CONTROL DESKS



DESIGN of desk type I

1. Top segment (higher version)
2. Front segment
3. Bottom segment
4. Plinth



DESIGN of desk type II

1. Top segment (higher version)
2. Bottom segment
3. Plinth

Reference chart

Desk dimensions [mm]	Width W	600			800			1000		
	Depth D	450	600	800	450	600	800	450	600	800

		Package	Catalogue numbers								
PSL Desk	Type I	1 pc.	WZ-0950-01-15-011	WZ-0950-01-14-011	WZ-0950-01-13-011	WZ-0950-01-12-011	WZ-0950-01-11-011	WZ-0950-01-10-011	WZ-0950-01-09-011	WZ-0950-01-08-011	WZ-0950-01-07-011
	Type II	1 pc.	WZ-0950-01-30-011	WZ-0950-01-29-011	WZ-0950-01-28-011	WZ-0950-01-27-011	WZ-0950-01-26-011	WZ-0950-01-25-011	WZ-0950-01-24-011	WZ-0950-01-23-011	WZ-0950-01-22-011
	Type III	1 pc.	WZ-0950-01-45-011	WZ-0950-01-44-011	WZ-0950-01-43-011	WZ-0950-01-42-011	WZ-0950-01-41-011	WZ-0950-01-40-011	WZ-0950-01-39-011	WZ-0950-01-38-011	WZ-0950-01-37-011
	Type IV	1 pc.	WZ-0950-01-60-011	WZ-0950-01-59-011	WZ-0950-01-58-011	WZ-0950-01-57-011	WZ-0950-01-56-011	WZ-0950-01-55-011	WZ-0950-01-54-011	WZ-0950-01-53-011	WZ-0950-01-52-011

Scope of delivery:

Desks are segment-based structures (see drawings). Individual segments consist of:

- top segment (higher version) – body, door (revolving hinge panel), rear panel, mounting plate;
- top segment (lower version) – body, door (revolving hinge panel);
- bottom segment – body with cable entry in bottom plate blind with blanking plate, front door, rear panel, mounting plate;
- front segment – body, door (revolving hinge panel), two slotted mounting bars.

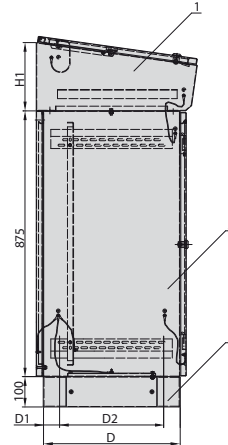
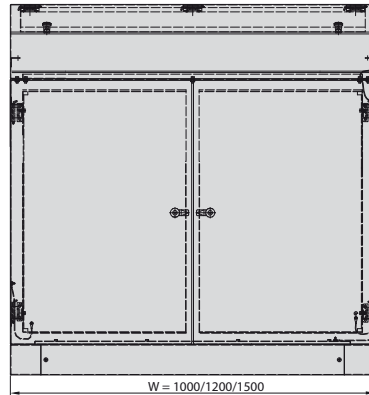
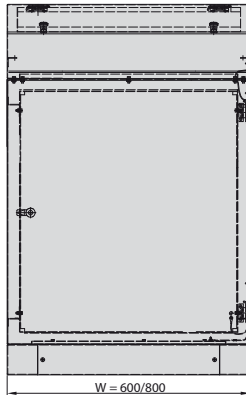
The desk is placed on a 100 mm plinth.

Elements of the desk are connected with each other by earthing cables.



PSL CONTROL DESKS

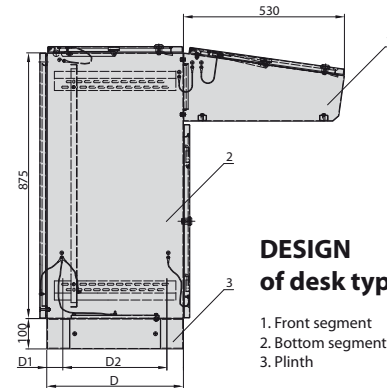
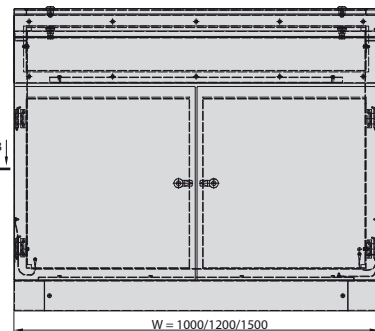
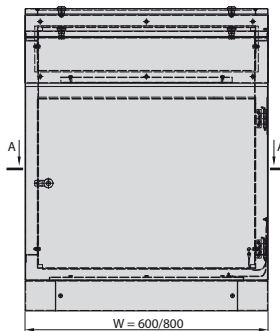
TYPE III



DESIGN of desk type III

- 1. Top segment (lower version)
- 2. Bottom segment
- 3. Plinth

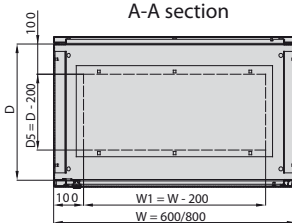
TYPE IV



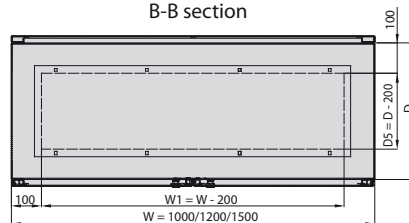
DESIGN of desk type IV

- 1. Front segment
- 2. Bottom segment
- 3. Plinth

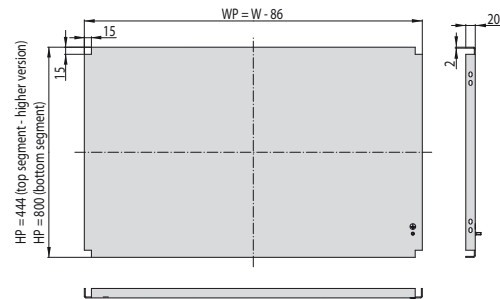
A-A section



B-B section



Mounting plate



1200			1500		
450	600	800	450	600	800

WZ-0950-01-06-011	WZ-0950-01-05-011	WZ-0950-01-04-011	WZ-0950-01-03-011	WZ-0950-01-02-011	WZ-0950-01-01-011
WZ-0950-01-21-011	WZ-0950-01-20-011	WZ-0950-01-19-011	WZ-0950-01-18-011	WZ-0950-01-17-011	WZ-0950-01-16-011
WZ-0950-01-36-011	WZ-0950-01-35-011	WZ-0950-01-34-011	WZ-0950-01-33-011	WZ-0950-01-32-011	WZ-0950-01-31-011
WZ-0950-01-51-011	WZ-0950-01-50-011	WZ-0950-01-49-011	WZ-0950-01-48-011	WZ-0950-01-47-011	WZ-0950-01-46-011

Ordering instruction

For ordering PSL desks refer to catalogue numbers from the chart.

Dimensions [mm]					
D	D1	D2	D3	D4	H1
450	60	330	70	210	225
600	60	480	70	330	262
800	55	690	70	360	290



SAMPLE MODELS OF CONTROL AND DISPATCH DESKS



A detailed description of control and dispatch desks is available in a dedicated catalogue or online at www.zpas.net

ZPAS MULTIMEDIA KIOSKS

ZPAS GROUP

solutions for connections

Grupa ZPAS
Siedziba zarządcy: apomex
ZPAS / ZPAS-NEI
Przygodzka 209
87-431 Wąsosz
Tel: +48 748 720 300
Fax: +48 748 724 074
info@zpas.pl

Informacje prasowe

Cały świat informacyjny na ZPAS
Wszystko z pasem i pasem
ZPAS i Media
ZPAS-NEI
ZPAS-NEI
ZPAS-NEI
ZPAS-NEI

NowoDOL

Komunikacja z pasem
Kampanie reklamowe
Kioski multimediaalne
Systemy obsługi klientów
ZPAS DATA CENTER
Szafka serwerowa SZD-100
3-wyświetlowy monitor 520, 520, 520
024 5211 962 Fax: 024 521 963

S Data Center

Monitor serwerowa
Szafka serwerowa



- Newsy
- Oferta
- Cennik
- Atrakcje
- Za nami
- Kontakt
- Galeria
- On-line

ZPAS MULTIMEDIA KIOSKS

Info kiosk design

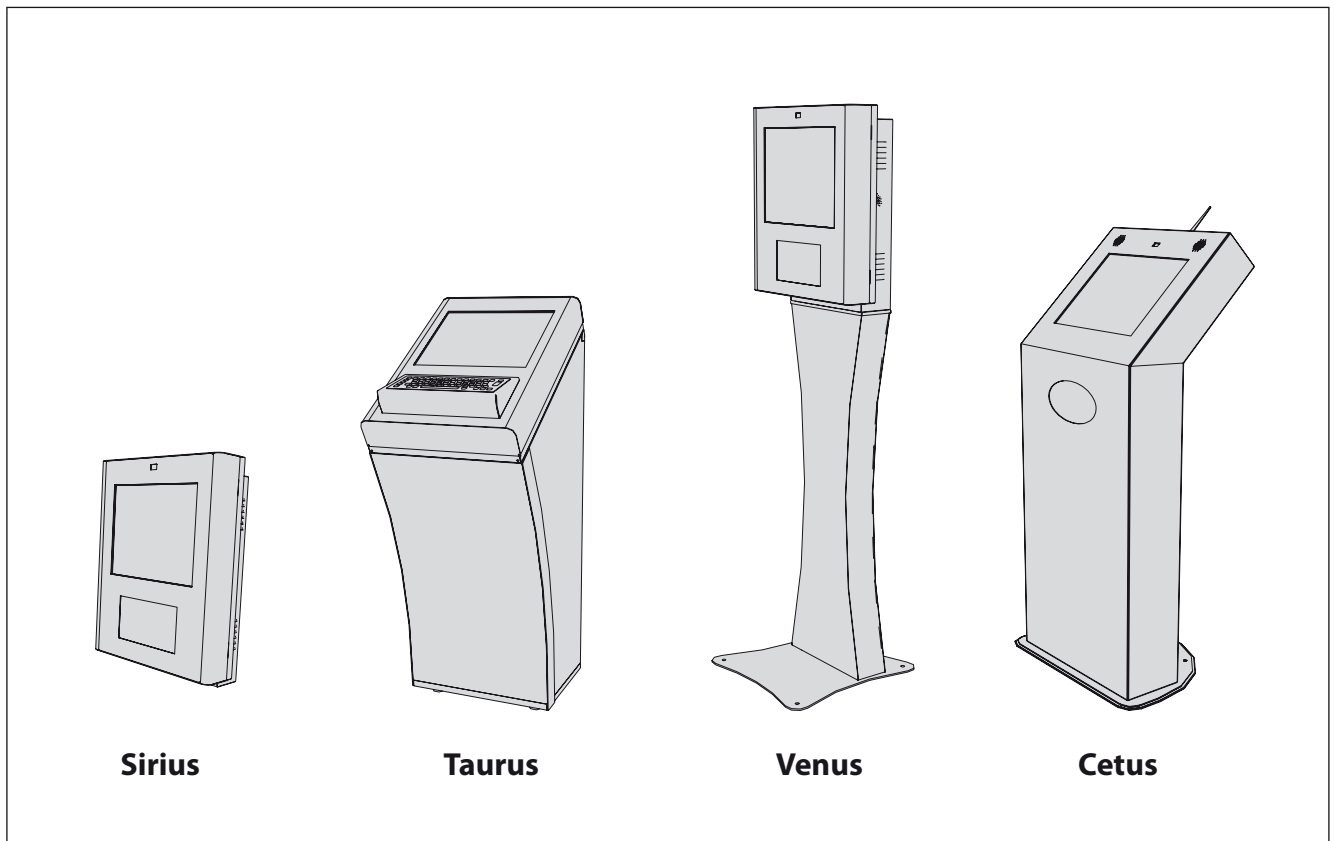
The multimedia kiosks are housed in enclosures which are highly resistant to damage. The inside part of the info kiosks is equipped with cooling and heating systems, as well as surge protection. The housing is made of suitable materials, fully protecting the devices and wiring inside against unauthorised access. Info kiosks designed for outside applications are provided with a high degree of leaktightness, so that no humid air or precipitation is able to penetrate inside the kiosk and damage the computer equipment. The special design of info kiosks makes it possible for people in wheelchairs to use them.

According to standards observed in products of this type, info kiosks are operated using a touch screen. All the hardware parameters of the computer and monitor are customised to meet customer's requirements. A standard version of the info kiosk is provided with a 19" LCD panel, stereo speakers and a Nettop computer with excellent technical parameters.

Optionally, the kiosk can be operated using a special vandal-proof keyboard with an extra trackball option.

On the ZPAS Group website you can find multimedia kiosk configurator that allows you to freely configure the kiosks included in our standard offer.

Since ZPAS is a manufacturer, not a distributor, of info kiosks, it is possible to order equipment with any monitor size and non-standard enclosure types.



ZPAS MULTIMEDIA KIOSKS

Special features of ZPAS multimedia kiosks

1. Stainless steel sheet housing, powder painted with a structural paint. Outdoor kiosks are painted with façade and UV-resistant paint.
2. The Infokiosk housing is covered by a 5-year warranty.
3. The electronic components are covered by a 2-year warranty.
4. Vandal-proof construction. 19" vandal-proof SAW overlay, hardness: 7 on the Mohs scale, transparency: 90%-92%, stability: 5 mln of touches without calibration, touch sensitivity: <100 g.
5. Rounded, safe edges.
6. Small dimensions; computer components are installed directly on the walls of the Infokiosk housing.
7. Software that allows the user to define a start site that will be displayed upon the Infokiosk start-up. When idle, the software will automatically return to the start site. The start site can be saved on the local drive of the device and the user can select any website for this purpose.
8. Displaying websites, including the start site, that contain all state-of-the-art technologies used on the Internet, by means of the installed Internet browser or dedicated software. Should new technologies appear, the browser can be updated free of charge.
9. Defining settings that influence the security of the Infokiosk's operation (blocking cookies, movies and VB or Java scripts).
10. The devices include software that allows to update the content displayed within the Infokiosk.
11. The kiosk content can be remotely updated without interrupting its operation.
12. Defining Internet websites that can or cannot be accessed.
13. A selection of applications (*.exe files in Windows system) which the user can run by pressing a selected key.
14. Possibility of using a screen saver, also in the form of a slide or video show. After a given time of idle operation, an application will close all open windows, delete temporary Internet files, clear browser history and start displaying selected websites. Touching the screen, moving the mouse or pressing a key on the keyboard will stop the show and display the start site.
15. Sending e-mails without access to the operating system.
16. Hiding the menu bar.
17. Safe operation of the Infokiosk is ensured by:
 - a) the possibility of setting the maximum resolution of the screen.
 - b) the possibility of blocking critical Windows shortcuts, such as CTRL+ALT+DEL, Windows-Logo, ALT+TAB, Shift+F10, CTRL+ESC, ALT+ESC
 - c) system monitoring in terms of memory capacity. If memory is too low, the system is restarted in order to ensure proper operation of the device.
 - d) system monitoring (WatchDog software), which controls the operation of the management software and, if necessary, reinitializes it.
18. Infokiosk operation by means of a touch screen. Screen keyboard software available for Infokiosks without external keyboards.
19. An application that automatically closes windows working in the background or windows that are found idle.
20. Limited access to settings and configuration — password protection.
21. Automatic shut-down at a defined hour.
22. Camera support — optional.
23. Registering user activity and generating statistics.
24. Displaying homepage with the possibility of display settings modification (three modes available: static – bmp, animated – flash, full screen – a website displayed on the whole screen with the possibility of quick return e.g. by means of a home button at the bottom).



"SIRIUS" MULTIMEDIA KIOSK

- Designed for use indoors. However, you can adapt the kiosk for outdoor use.
- In the wall-mounted housing with a high resistance to damage.
- The ideal solution in areas where there is no possibility of using a free-standing kiosk.
- Access to the inside part of the info kiosk through the openable front frame, closed with a lock.
- The inside part is equipped with cooling and heating systems, as well as surge protection.
- Operation via touch screen or keyboard with trackball.
- Wide range of accessories: Wi-Fi adapter, camera, UPS, barcode reader, etc.
- Operating system: Windows 7 Professional or Windows 7 Home Premium, other system available on customer's request.
- Kiosk colour tailored to the needs of the customer.
- Customised kiosk design in line with the needs of the customer.
- Dimensions (Height x Width x Depth):
 - without keyboard — 640 x 533 x 200 mm
 - with keyboard — 640 x 533 x 269 mm

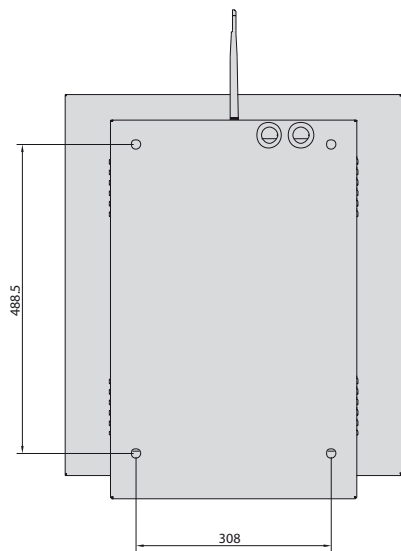
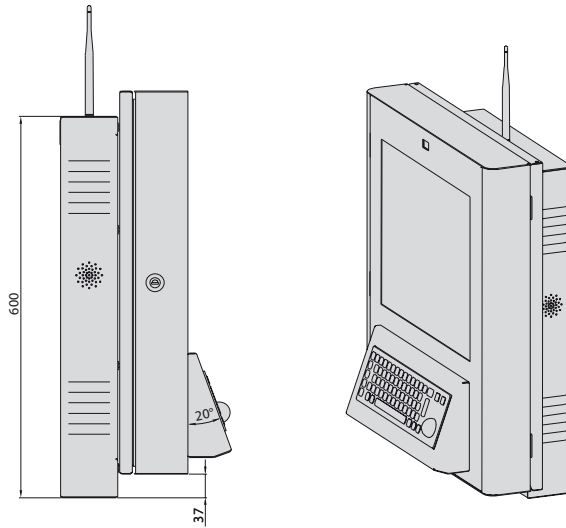
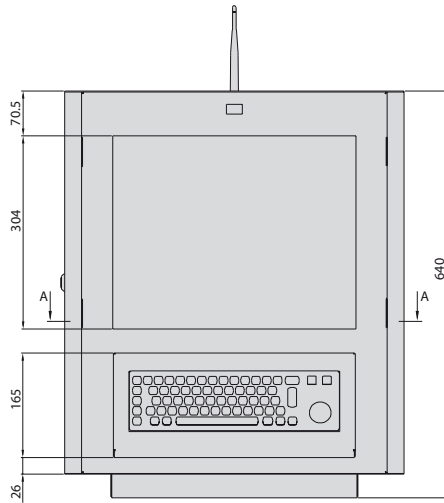
Scope of delivery:

- housing,
- nettop computer,
- 19" monitor,
- service mouse,
- service keyboard,
- 19" SAW touch overlay and/or vandal-proof keyboard with or without trackball,
- speakers,
- Kiosk Application for configuring a kiosk and monitoring its functioning to ensure proper operation,
- additional equipment on customer's request.

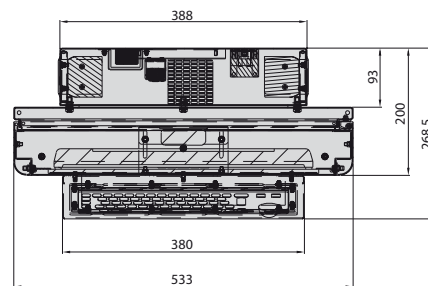


"SIRIUS" MULTIMEDIA KIOSK

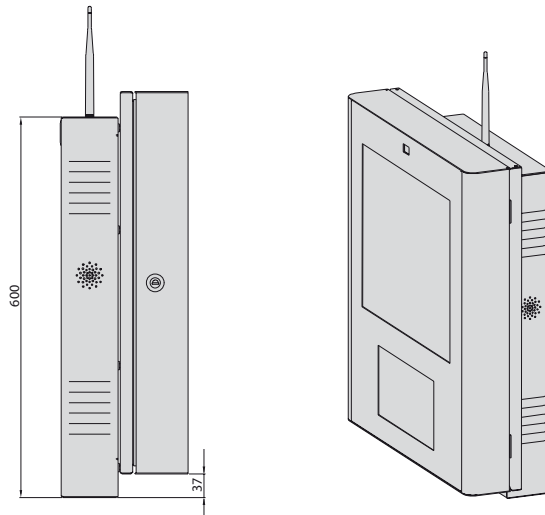
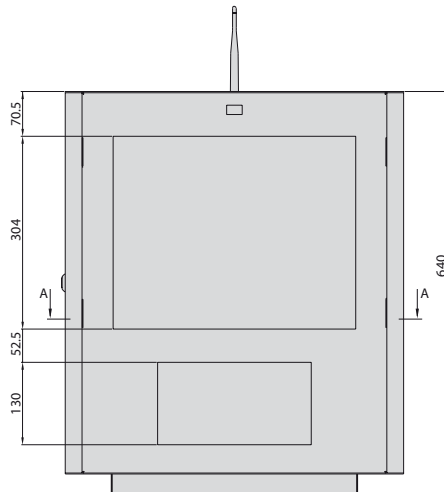
Version with keyboard



A-A section



Version without keyboard



"TAURUS" MULTIMEDIA KIOSK

- Designed for use indoors.
- In the free-standing housing with a high resistance to damage.
- Large removable panel closed with two locks with one-key system, on the kiosk rear wall, provides easy access to installed equipment.
- The inside part is equipped with cooling and heating systems, as well as surge protection.
- Operation via touch screen or keyboard with trackball.
- Wide range of accessories: Wi-Fi adapter, camera, UPS, barcode reader, etc.
- Operating system: Windows 7 Professional or Windows 7 Home Premium, other system available on customer's request.
- Kiosk colour tailored to the needs of the customer.
- Customised kiosk design in line with the needs of the customer.
- Dimensions (Height x Width): 1145 x 533 mm
- Monitor panel height: 603 mm

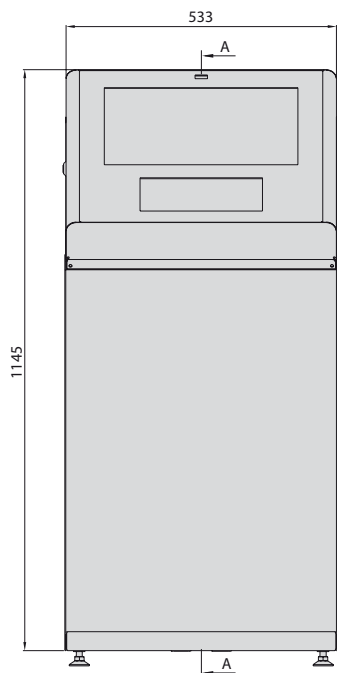
Scope of delivery:

- housing,
- nettop computer,
- 19" monitor,
- service mouse,
- service keyboard,
- 19" SAW touch overlay and/or vandal-proof keyboard with or without trackball,
- speakers,
- Kiosk Application for configuring a kiosk and monitoring its functioning to ensure proper operation,
- additional equipment on customer's request.

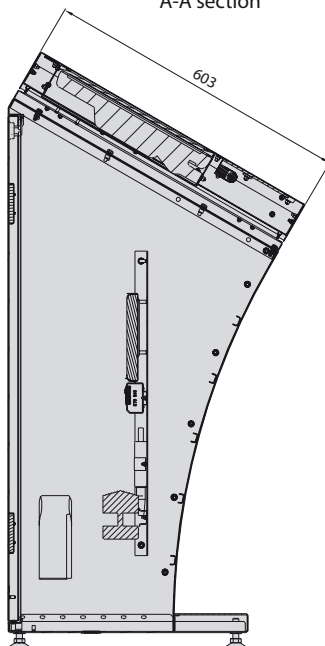


"TAURUS" MULTIMEDIA KIOSK

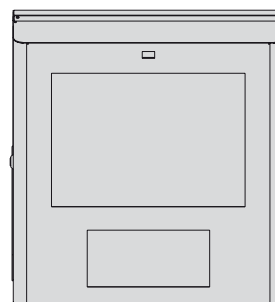
Version without keyboard



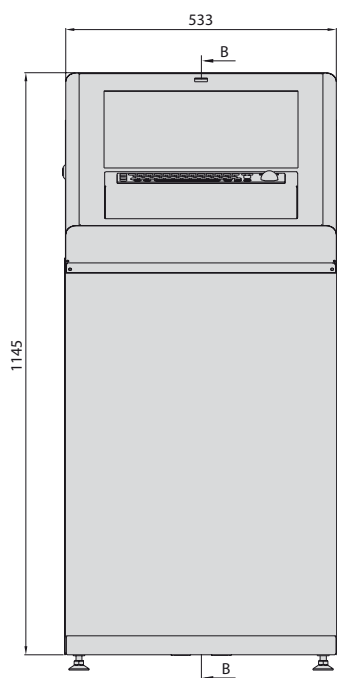
A-A section



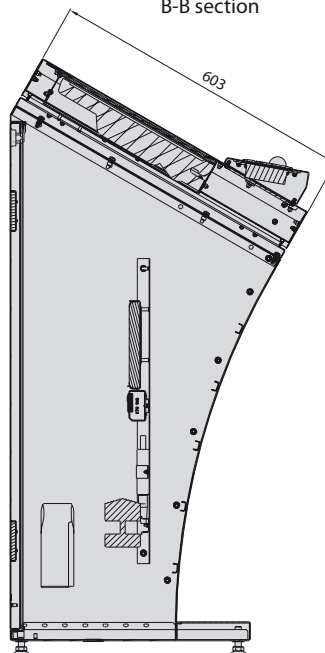
Top view



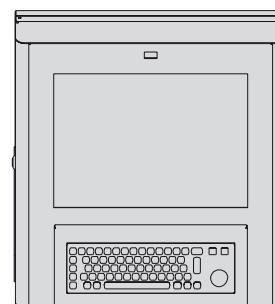
Version with keyboard



B-B section



Top view



“VENUS” MULTIMEDIA KIOSK

- Designed for use indoors. However, you can adapt the kiosk for outdoor use.
- Contained in a free-standing housing, screw mounted to the floor.
- Access to the inside part of the info kiosk through the openable front frame, closed with a lock.
- The inside part is equipped with cooling and heating systems, as well as surge protection.
- Operation via touch screen or keyboard with trackball.
- Wide range of accessories: Wi-Fi adapter, camera, UPS, barcode reader, etc.
- Operating system: Windows 7 Professional or Windows 7 Home Premium, other system available on customer's request.
- Kiosk colour tailored to the needs of the customer.
- Customised kiosk design in line with the needs of the customer.
- Kiosk dimensions (Height x Width x Depth):
 - without keyboard - 1889 x 533 x 199 mm
 - with keyboard - 1889 x 533 x 268 mm

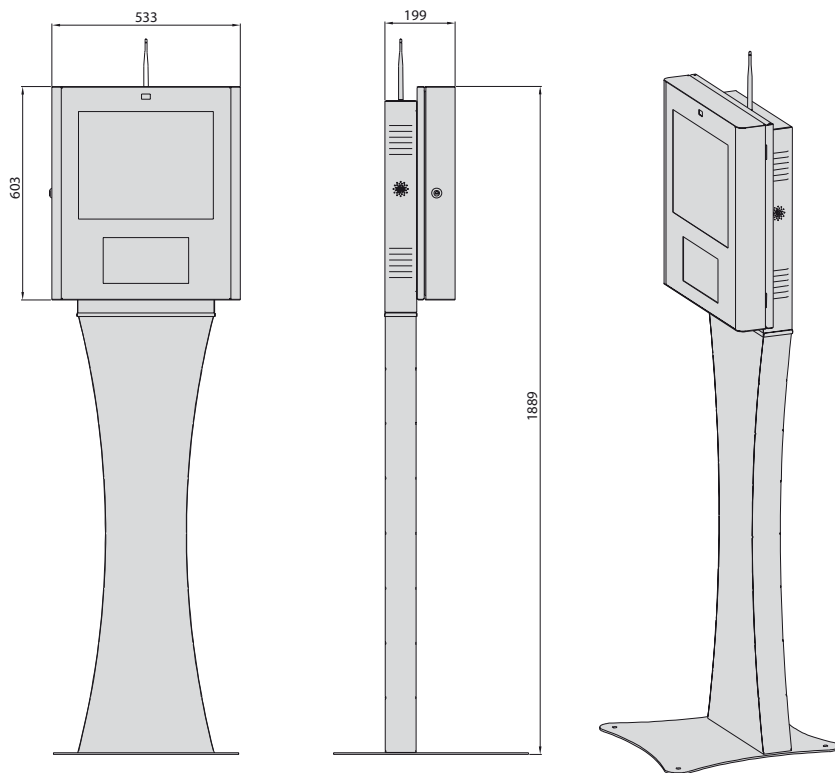
Scope of delivery:

- housing,
- nettop computer,
- 19" monitor,
- service mouse,
- service keyboard,
- 19" SAW touch overlay and/or vandal-proof keyboard with or without trackball,
- speakers,
- Kiosk Application for configuring a kiosk and monitoring its functioning to ensure proper operation,
- additional equipment on customer's request.

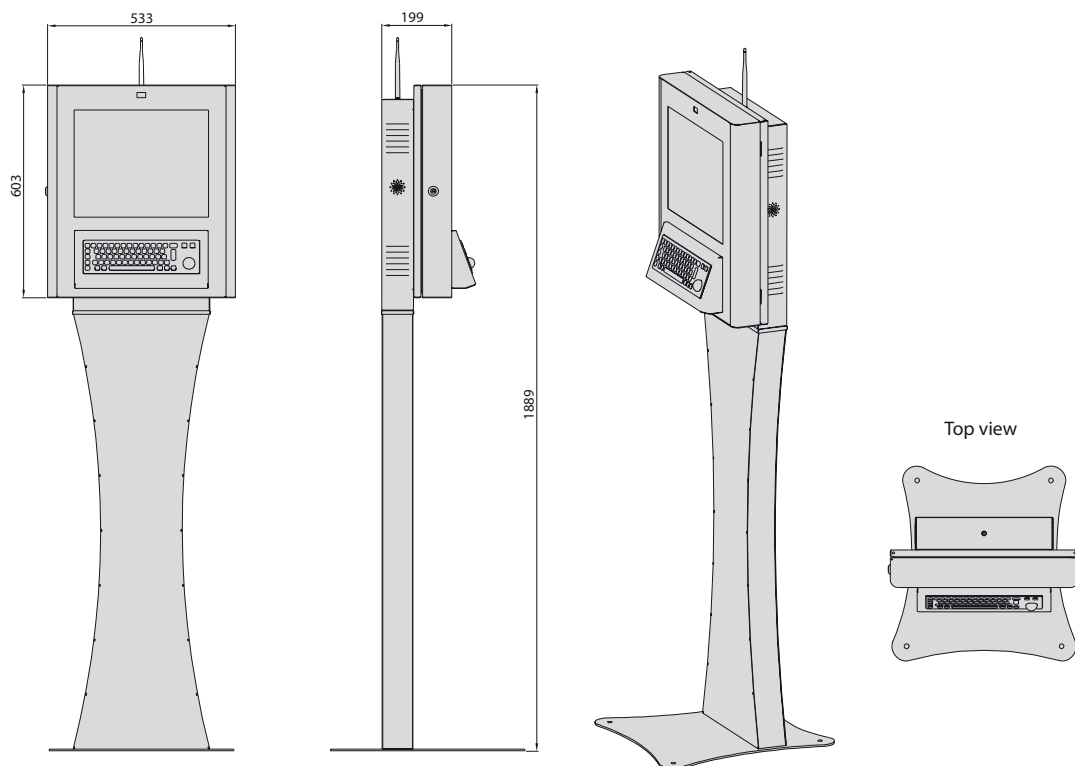


"VENUS" MULTIMEDIA KIOSK

Version without keyboard



Version with keyboard



“CETUS” MULTIMEDIA KIOSK

- Designed for use indoors. However, you can adapt the kiosk for outdoor use.
- In the free-standing housing with a high resistance to damage.
- The upper part of the Infokiosk is inclined at an angle of 45° relative to the lower part.
- Large removable panels closed with two locks with one-key system, on the kiosk rear wall, provides easy access to installed equipment.
- The inside part is equipped with cooling and heating systems, as well as surge protection.
- Operation via touch screen.
- Wide range of accessories: Wi-Fi adapter, camera, UPS, barcode reader, etc.
- Operating system: Windows 7 Professional or Windows 7 Home Premium, other system available on customer's request.
- Kiosk colour tailored to the needs of the customer.
- Customised kiosk design in line with the needs of the customer.
- Frame dimensions (Height x Width): 1424 x 550 mm
- Base width: 650 mm

Scope of delivery:

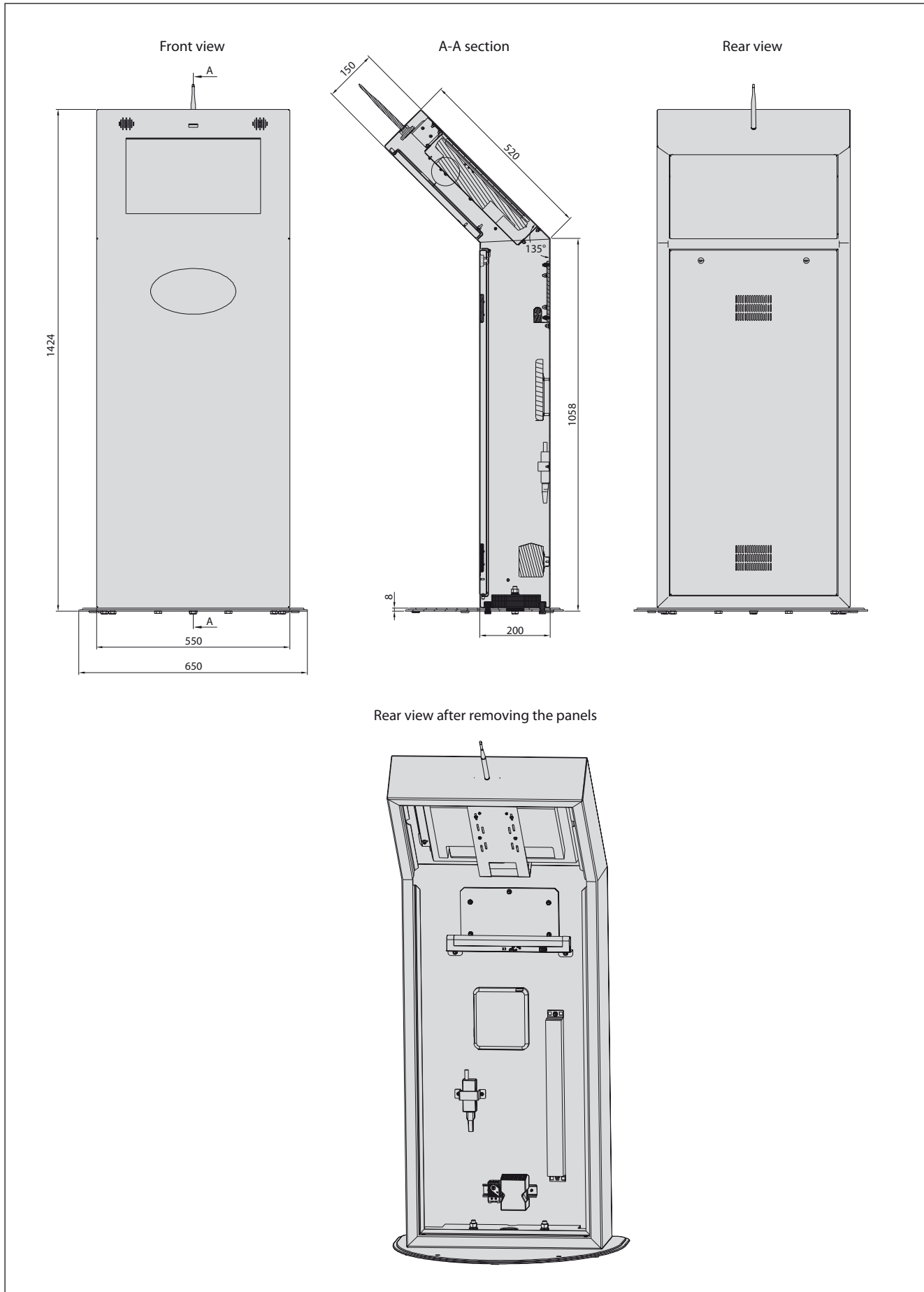
- housing,
- nettop computer,
- 19" monitor,
- service mouse,
- service keyboard,
- 19" SAW touch overlay,
- speakers,
- Kiosk Application for configuring a kiosk and monitoring its functioning to ensure proper operation,
- additional equipment on customer's request.



“CETUS” Infokiosk with the cut out and illuminated logo



"CETUS" MULTIMEDIA KIOSK



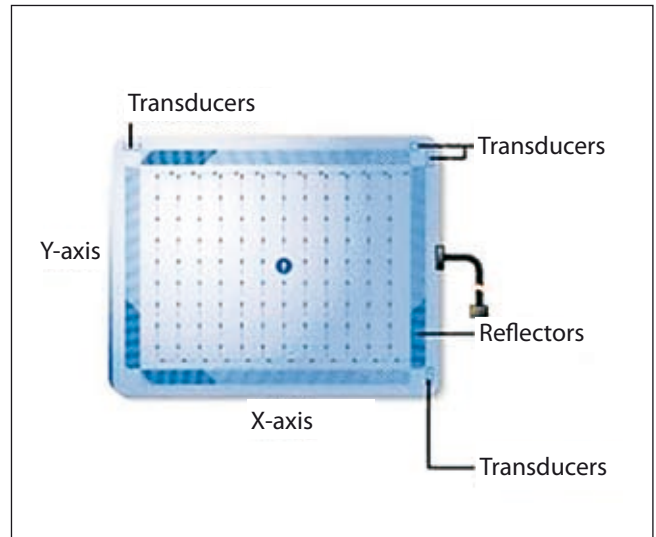
OPTIONAL MULTIMEDIA KIOSKS COMPONENTS

SAW touch overlay

The SAW touch overlay is made of an optical glass surface with piezoelectric transducers installed in its corners. The transducers are concealed under the monitor frame. As a result, the user has no access to them; consequently, it is impossible to damage them. As opposed to resistive and capacitive overlays, the SAW overlay has no additional layers of foil or metal than could be damaged. The SAW touch overlay is the dedicated solution, but not the only one. On special request, we can fit a kiosk with a different type of touch overlay.

Parameters:

- Standard size: 19" 4:3
- Resolution (interpolated): 4096 x 4096
- 4 mm of tempered glass or 6 mm of optical glass
- Hardness of glass surfaces: 7 on the Mohs scale
- Endurance: > 70 mln touches
- Positioning accuracy: < 1%
- Touchpoint density: $\geq 100\,000$ touchpoints/cal²
- Light permeance: $\leq 90\%$
- Temperature rangeability: -20°C ~ +70°C
- Storing range: -40°C ~ 85°C
- Relative humidity range: 5% ~ 90%
- Electric range:
 - Voltage 5 V DC
 - Power from USB or PS/2 port, max. ripple power 200 mV rms
 - Full Duplex Interface USB 2.0 (Full Speed) Plug&Play
- Certificates: CE, FCC, RoHS



Vandal-proof keyboard

IP 65 metal keyboard

Vandal-proof metal keyboard with 65 keys

- Size of the front panel: 300 x 100 mm
- USB connection
- Key travel: 2.5 mm
- Certificates: CE, FCC, ROHS, IP65, IK07



IP 65 metal keyboard with trackball

Vandal-proof metal keyboard with 65 keys and trackball

- Size of the front panel: 330 x 100 mm
- USB connection
- Key travel: 2.5 mm
- Two mouse keys
- Certificates: CE, FCC, ROHS, IP65, IK07



OPTIONAL MULTIMEDIA KIOSKS COMPONENTS

Loudspeakers

2.0 speaker system with an elegant, modern design and high quality sound. Magnetic shielding ensures no interference with other equipment. Small size of the system allows you to fit it even in the small Infokiosk housing.

Number of speakers: 2 pcs.

Number of satellite speakers: 2 pcs.

Woofers: No

Power of satellite speakers: 5 W

Speaker frequency: 80 Hz–20 KHz

External power unit: No

Nominal Impedance: 4 Ohm

Wireless Network Card

Wireless long-range USB network card allows you to connect your PC or laptop to a wireless network, giving access to a high-speed Internet connection. Owing to the Align™ 1-stream technology based on the 802.11n standard, the adapter provides a better wireless signal as compared to devices using the 802.11g technology. Thanks to the pluggable antenna with 4 dBi gain, the strength and the range of data transmission is increased. The pluggable antenna with 4 dBi gain provides excellent work efficiency over long distances and in difficult conditions. The device receives a wireless signal going through even two building floors.

Functions:

- wireless data transmission speed up to 150 Mb/s,
- two operation modes: ad-hoc and infrastructure,
- Quick Secure Setup function enables the WPS decryption to secure data transmission,
- WEP 64/128 decryption, compatible with the 128-bit WPA standard, MCI, IV Expansion, Shared Key Authentication, compatible with the IEEE 802.1X standard.

Software specification:

- Standards IEEE 802.11n, IEEE 802.11g, IEEE 802.11b
- Frequency range: 2.4-2.4835 GHz
- Output Power: 20 dBm
- Modulation: OFDM/CCK/16-QAM/64-QAM

Webcam

Webcam with the CMOS 8.0 Mpix sensor with a maximum resolution of 1280 x 720 pixels. Connected with the USB 2.0 interface cable. 360° rotatable, 75° inclination angle. Saves images in JPEG format and video in WMV format.

Video mode: 1280 x 720 pixels

Interface: USB 2.0

Power supply: USB



OPTIONAL MULTIMEDIA KIOSKS COMPONENTS

UPS

UPS is the device that provides continuous supply for electrical and electronic equipment.

Product description:

- Capacity: 650 VA or 390 W
- Typical operation time: 25 min.
- Input characteristics:
Voltage range 192 ~ 263 V
Frequency: 50/60 Hz (+/- 3 Hz) auto-sensing
- Output characteristics:
Battery supply, output voltage: simulated sinewave – 230 V (+/- 5%)
Battery supply, output frequency: 50/60 Hz (+/- 1 Hz)
- Typical switchover time: 4 ms
Overload protection: AC supply – fuse, Battery supply – internal current limiter
Protection against voltage spike: 405 J (L-N)
- Battery information:
Maintenance-free lead-acid battery, easy to replace 12 V, 7 AH x 1
Typical recharge time: 8 hours
- Sockets on the device:
6 grounded sockets: 3 sockets providing surge protection and battery supply, and 3 sockets providing surge protection only
RJ11/RJ45 input/output surge protection
USB port for computer connection
- Control and management:
Ability to manually trigger the device auto-test
Automatic recharging
Automatic reboot
Schedule stop function
Power Panel ® Personal Edition computer software for management and controlling the behaviour of the system
- Physical properties
Dimensions: 271 x 161 x 114 mm
Weight: 3.8 kg
Ambient Storage Temperature: -15°C ~ +45°C,
Operation Temperature: 0°C ~ 40°C
Operation humidity: 0%~95% no condensation,
- Standards/EMC:
CE/EN62040-1-1 and directive 2006/95/CE (73/23/EEC & 93/68/EEC)
EN 62040 cat. C1 and directive 2004/108/CE

Other equipment

On customer's request we may equip the multimedia kiosks with such components as barcode reader, magnetic card reader, printer, optical drive, etc.



OPTIONAL MULTIMEDIA KIOSKS COMPONENTS

“KIOSK APPLICATION” configurator

An application that allows you to quickly configure the content of your Infokiosk and lets you activate mechanisms that control its operation. The software has been created as an administration panel that helps to fully configure all mechanisms of your Infokiosk.

WatchDog Application

This application controls the operating system and reinitialises the Infokiosk software if it gets blocked. The application is continuously running in the background and if any application starts to overload the operating system, it checks whether it works correctly. When not working properly, it reinitialises the Infokiosk.

Infokiosk statistics

The Infokiosk Statistics software has been created for the purpose of reporting the kiosk's activity. It allows to generate charts based on log files saved on the Infokiosk's workstation. It also includes the feature of automated report creation and can e-mail the reports to an e-mail address provided.

Virtual keyboard

The Virtual Keyboard is a tool used wherever a standard keyboard cannot be used. The main advantages of such a keyboard are impregnability and additional protection against the unauthorized use aimed at taking control of the computer.

Screen saver controller

The “Screen saver controller” is an application that checks periodically open windows and, if not attended by the user, clears unused content. When the Infokiosk is not in use, the Controller activates a slide show and reinitialises the selected software.

Start menu editor

The “Start Menu Editor” is an application that allows users to quickly create graphical menus. The procedure for creating your own menu could not be easier. What you do is you enter description of buttons and assign them to web addresses to which they should refer.

Side Menu

This is an application that activates the side menu and displays defined and configured keys, which the user can access at any time. It is very useful when defining an additional key for a home page or an email program.



OPTIONAL MULTIMEDIA KIOSKS COMPONENTS

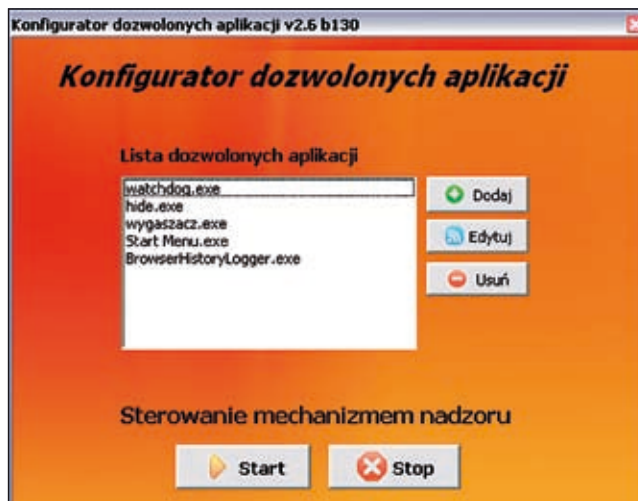
“KIOSK APPLICATION” configurator

“Safe browser” software

Such software allows to browse website content by means of a properly secured web browser. Such a solution significantly decreases the risk of installing malicious software and virus infections in your Infokiosk.

Allowed applications configurator

Allowed Applications Configurator is an application that allows to define a list of allowed Windows applications. Consequently, applications not included in the list will not be run. The mechanism of the Configurator can be used as an additional means of protecting the computer against unwanted content that may be installed on the computer as a result of connecting the Infokiosk to the Internet. Using it, the Infokiosk administrator may increase their control over the processes taking place in it.



Screen Shots

This mechanism periodically makes and saves screen shots that show the Infokiosk operation. Most often, administrators use it as an additional tool to control the device operation. The user can define times when screen shots will be saved, as well as when screen shot archives will be deleted.

Restarts or shutdowns

The “Restarts or Shutdowns” option allows to automatically shut down, restart or start-up the computer at an hour defined by the user. This option, in connection with the possibility of automatic computer start-up, allows to quickly define a time schedule for the Infokiosk operation.

Web Filtering

Configurator for managing the list of websites, which can be displayed in the Infokiosk. Websites not entered by the administrator in the list will be blocked. This solution allows you to quickly secure a kiosk before opening unwanted content.

Infokiosk Maintenance System

This mechanism is activated automatically after Infokiosk start-up. It periodically checks the availability of the Infokiosk home page, and when no connection is detected it displays specially crafted web page with an appropriate message. Therefore, standard browser message that the user could interpret as a Infokiosku malfunction will never appear on screen.



OPTIONAL MULTIMEDIA KIOSKS COMPONENTS

Advanced Visualisation Software

This software allows the user to create an advanced start menu. As opposed to the option available in the Infokiosk Configurator, the user may freely arrange the keys and graphical elements. The application also allows to arrange the start menu as a tree structure. In order to create such a menu, the user needs to arrange the images, animations and other visualisation components, using the drag&drop method.



The basic components of the visualisation can be selected from the Library window. A very interesting feature of this software is the possibility of inserting swf vector animations into the visualisations, which will make your Infokiosk even more attractive and interesting to use.



EXAMPLES OF INFOKIOSK APPLICATIONS



EXAMPLES OF INFOKIOSK APPLICATIONS



Version for Bank Zachodni WBK



Version for Michelin



Version for the Polish Police



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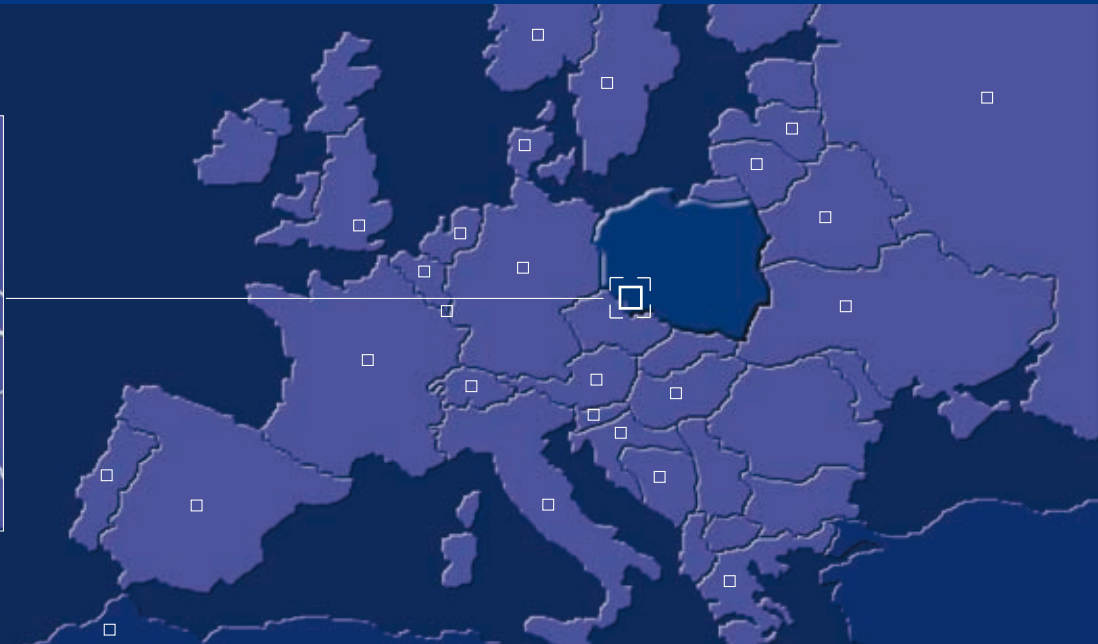
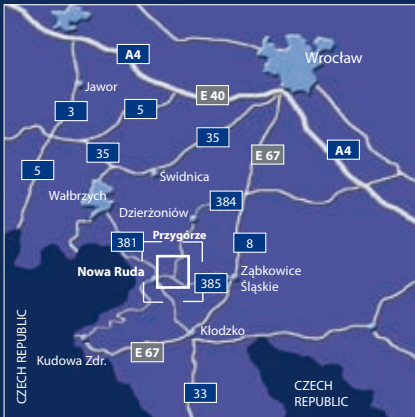
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