



Electrical Enclosures



Company profile

The company SENCO Příbram spol. s r. o. was founded in 1992.

The company is concerned in construction and production of electrical enclosures in sheet-steel or stainless steel design, either in piece or series character of production.

Among additional activities of the company belong the surface treatment of metals with powder coating, CNC sheet-steel processing and locksmith's production.

All processes are subject to standards ISO 9001:2008 and IRIS Rev.01.

Welding processes are controlled by quality system according to the ČSN EN ISO 3834-2, they also comply with the requirements of product standards according to the ČSN EN 15085-2 CL2 and ČDV95/5. Welding is done by usage of methods MIG and TIG.

The company has corrosion technologists (corrosion technologist-KTG-C) certified in field of corrosion and corrosion protection according to the requirements of Std-401 APC:2007.

Production capacity and floor space

- | | | |
|--------------------------|----------------|----------------------|
| • locksmith's production | 2 000 h/month. | 1 700 m ² |
| • powder coating | 500 h/month. | 600 m ² |

Production of electrical enclosures

The company produces series electrical enclosures of own construction KAPPA, ESO-A and RIO-N.

Within the scope of custom-made production we offer to our customers production of atypical dimensions, punching of separate parts according to the specification, variable finish of the surface treatment (shade and color character, thickness and number of layers), changes of used materials for steel and mechanical parts (including stainless and zinc-coated materials) or glass doors.

The electrical enclosures are intended for usage cross-wise branches of industries e.g. technological lines, working machines, electrical power distribution, cabinets of measurement and regulation (M&R), compensation electrical cabinets etc.



Initiated code key is only informative. You can compile the concrete ordering code according to the relevant table by particular enclosures.

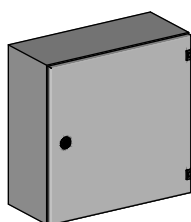
T Y P E	T Y P E	RIO-N	- universal self-supporting steel sheet enclosure for surface assembly
		ESO-A	- universal enclosure, welded skeleton
		KAPPA	- compact steel sheet construction
H	H	Height	Value
		for RIO-N	in cm
/		for ESO-A and KAPPA	in dm
D	D	Depth	Value
		for RIO-N	in cm
/		for ESO-A and KAPPA	in dm
W	W	Width	Value
		for RIO-N	in cm
		for ESO-A and KAPPA	in dm
1	1	Type of locking	
		B	- Doppelbart 3
2		F	- cylindrical inlet with unified key (DIRAK 1333)
3	2	Surface treatment / Design	
		1	- powder paint RAL 7032 inner, matting, glossy
4		2	- powder paint RAL 7035 inner, matting, glossy
5		N *	- stainless design (1.4301 acc. EN 10027-2), grind P240
6	3	Front door	
		L	- left-handed door (hinges on the left)
7		P	- right-handed door (hinges on the right)
		D	- double-wing doors
	4	Back cover / Rear door	
		Z	- solid back cover (non-removable)
		K	- removable back cover
		L	- left-handed door (hinges on the left)
		P	- right-handed door (hinges on the right)
		D	- double-wing door
	5	Door type	
		0	- full metal door
		S	- 1 pc glass door
		V	- more glass door (upon request)
	6	Protection of enclosure acc. ČSN EN 60529	
		4	- IP 54
		5	- IP 55
		6	- IP 65
		7	- IP 66
	7	Catalogue marking	
		1	- type production marking

* Except of the ESO-A enclosures, where the skeleton is extra powder coated with RAL 7043

E. G.:

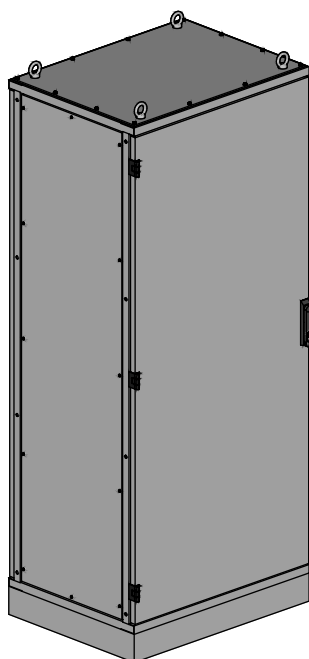
RIO-N120/30/90 B1LZ061 - electrical enclosure RIO-N with dimensions 1200x300x900 mm (HxDxW), Doppelbart inlet, powder paint RAL 7032, left-handed door, solid back cover (not type removable), without glass, IP protection 65, type (catalogue) dimension

ESO-A-20/06/08 F2PKS51 - electrical enclosure ESO-A with dimension 2000x600x800 mm (HxDxW), cylindrical inlet, powder paint RAL 7035, right-handed door, removable back cover, glass door, IP protection 55, type (catalogue) dimension



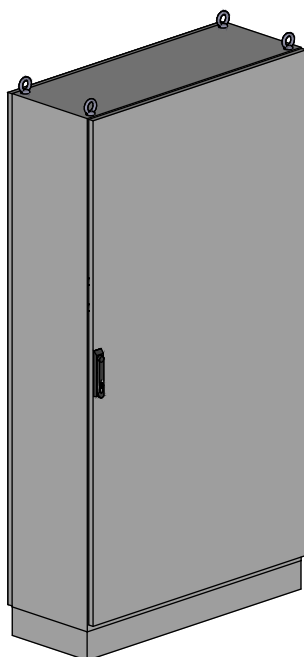
RIO-N

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ESO-A

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KAPPA

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Electrical Enclosure RIO-N is self-supporting steel sheet enclosure intended to be wall-mounted. The enclosures are suitable as electrical cabinets for machinery equipment, measurement and regulation cabinets, control, terminal and delocking electrical cabinets.

Technical Design

The body of the enclosure is a welded self-supporting skeleton made of steel sheet of thickness 1,5mm. The door is made of steel sheet 1,5mm and the mounting plate of zinc-coated steel sheet (DX51D) 2mm. The door is equipped with a lock inlet Doppelbart 3 mm. For height dimensions up to 600mm (incl.) there is only one lock, for dimension 900mm there are 2 locks. For height dimensions 1200mm and 1500mm there is one three-point lock. Hanging of the doors is done with 2 or 3 hanging stiles. The enclosure is equipped with welded-on grounding bolts.

The preliminary surface treatment is done by ferrous phosphate. The powder coating technology is used as a consequential surface treatment of the enclosure (except of the stainless design). The width of the single-layer coating is min. 50µm. The resistance of the surface treatment is verified by corrosion test in NSM (neutral saline mist) - 500 hours according to the standard ČSN EN ISO 9227.

Mounting of the electrical cabinet is realized by usage of the openings in the rear side of the enclosure or with the fixing lugs for mounting from the outer side of the enclosure.

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7

Adjustment of ordering code:

H	Height		Value
	for RIO-N		in cm

D	Depth		Value
	for RIO-N		in cm

W	Width		Value
	for RIO-N		in cm

1	Type of locking		
	B	- doppelbart 3	
	F	- cylindrical inlet with unified key (DIRAK 1333)	

2	Surface treatment / Design		
	1	- powder paint RAL 7032 inner, matting, glossy	
	2	- powder paint RAL 7035 inner, matting, glossy	
	N	- stainless design (1.4301 acc. EN 10027-2), grind P240	

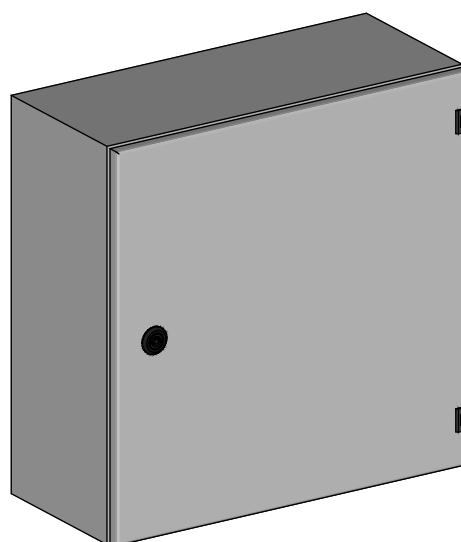
3	Front door		
	L	- left-handed door (hinges on the left)	
	P	- right-handed door (hinges in the right)	

4	Back cover / Rear door		
	Z	- solid back cover (non-removable)	

5	Door type		
	0	- full metal door	
	S	- 1pc glass door	

6	Protection of enclosure (acc. ČSN EN 60 529)		
	5	- IP 55	
	6	- IP 65	

7	Catalogue marking		
	1	- type production marking	



Standard design includes:

- enclosures skeleton RIO-N (anchorage opening in rear enclosure wall)
- full metal door
- mounting plate (enclosures with depth of 100 mm do not include mounting plates)

Type dimensions of the enclosure RIO-N

Type dimensions of enclosure [mm]		
Height	Depth	Width
300	100	150
300	100	300
300	100	450
300	100	600
450	100	300
450	100	450
450	100	600
600	100	300
600	100	450
300	150	150
300	150	300
300	150	450
300	150	600
450	150	300
450	150	450
450	150	600
450	150	900
600	150	450
600	150	600
900	150	450
900	150	600
1200	150	600
1200	150	900
300	200	300
300	200	450
300	200	600
450	200	300
450	200	450
450	200	600
450	200	900
600	200	450
600	200	600
900	200	600
900	200	900
1200	200	600
1200	200	900
600	300	600
600	300	900
900	300	600
900	300	900
1200	300	600
1200	300	900
1500	300	600
1500	300	900

Mounting plate	Plastic lock + hinges	Metal lock + hinges	Ordering code (IP55)
✗	✓	✗	RIO-N030/10/15 B2LZ051
✗	✓	✗	RIO-N030/10/30 B2LZ051
✗	✓	✗	RIO-N030/10/45 B2LZ051
✗	✓	✗	RIO-N030/10/60 B2LZ051
✗	✓	✗	RIO-N045/10/30 B2LZ051
✗	✓	✗	RIO-N045/10/45 B2LZ051
✗	✓	✗	RIO-N045/10/60 B2LZ051
✗	✓	✗	RIO-N060/10/30 B2LZ051
✗	✓	✗	RIO-N060/10/45 B2LZ051
✓	✓	✗	RIO-N030/15/15 B2LZ051
✓	✓	✗	RIO-N030/15/30 B2LZ051
✓	✓	✗	RIO-N030/15/45 B2LZ051
✓	✓	✗	RIO-N030/15/60 B2LZ051
✓	✓	✗	RIO-N045/15/30 B2LZ051
✓	✓	✗	RIO-N045/15/45 B2LZ051
✓	✓	✗	RIO-N045/15/60 B2LZ051
✓	✓	✗	RIO-N045/15/90 B2LZ051
✓	✓	✗	RIO-N060/15/45 B2LZ051
✓	✓	✗	RIO-N060/15/60 B2LZ051
✓	✗	✓	RIO-N090/15/45 B2LZ051
✓	✗	✓	RIO-N090/15/60 B2LZ051
✓	✗	✓	RIO-N120/15/60 B2LZ051
✓	✗	✓	RIO-N120/15/90 B2LZ051
✓	✓	✗	RIO-N030/20/30 B2LZ051
✓	✓	✗	RIO-N030/20/45 B2LZ051
✓	✓	✗	RIO-N030/20/60 B2LZ051
✓	✓	✗	RIO-N045/20/30 B2LZ051
✓	✓	✗	RIO-N045/20/45 B2LZ051
✓	✓	✗	RIO-N045/20/60 B2LZ051
✓	✓	✗	RIO-N045/20/90 B2LZ051
✓	✓	✗	RIO-N060/20/45 B2LZ051
✓	✓	✗	RIO-N060/20/60 B2LZ051
✓	✗	✓	RIO-N090/20/60 B2LZ051
✓	✗	✓	RIO-N090/20/90 B2LZ051
✓	✗	✓	RIO-N120/20/60 B2LZ051
✓	✗	✓	RIO-N120/20/90 B2LZ051
✓	✓	✗	RIO-N060/30/60 B2LZ051
✓	✓	✗	RIO-N060/30/90 B2LZ051
✓	✗	✓	RIO-N090/30/60 B2LZ051
✓	✗	✓	RIO-N090/30/90 B2LZ051
✓	✗	✓	RIO-N120/30/60 B2LZ051
✓	✗	✓	RIO-N120/30/90 B2LZ051
✓	✗	✓	RIO-N150/30/60 B2LZ051
✓	✗	✓	RIO-N150/30/90 B2LZ051

Mounting plate	Metal lock + hinges	Ordering code (IP65)
✗	✓	RIO-N030/10/15 B2LZ061
✗	✓	RIO-N030/10/30 B2LZ061
✗	✓	RIO-N030/10/45 B2LZ061
✗	✓	RIO-N030/10/60 B2LZ061
✗	✓	RIO-N045/10/30 B2LZ061
✗	✓	RIO-N045/10/45 B2LZ061
✗	✓	RIO-N045/10/60 B2LZ061
✗	✓	RIO-N060/10/30 B2LZ061
✗	✓	RIO-N060/10/45 B2LZ061
✓	✓	RIO-N030/15/15 B2LZ061
✓	✓	RIO-N030/15/30 B2LZ061
✓	✓	RIO-N030/15/45 B2LZ061
✓	✓	RIO-N030/15/60 B2LZ061
✓	✓	RIO-N045/15/30 B2LZ061
✓	✓	RIO-N045/15/45 B2LZ061
✓	✓	RIO-N045/15/60 B2LZ061
✓	✓	RIO-N045/15/90 B2LZ061
✓	✓	RIO-N060/15/45 B2LZ061
✓	✓	RIO-N060/15/60 B2LZ061
✓	✓	RIO-N090/15/45 B2LZ061
✓	✓	RIO-N090/15/60 B2LZ061
✓	✓	RIO-N120/15/60 B2LZ061
✓	✓	RIO-N120/15/90 B2LZ061
✓	✓	RIO-N030/20/30 B2LZ061
✓	✓	RIO-N030/20/45 B2LZ061
✓	✓	RIO-N030/20/60 B2LZ061
✓	✓	RIO-N045/20/30 B2LZ061
✓	✓	RIO-N045/20/45 B2LZ061
✓	✓	RIO-N045/20/60 B2LZ061
✓	✓	RIO-N045/20/90 B2LZ061
✓	✓	RIO-N060/20/45 B2LZ061
✓	✓	RIO-N060/20/60 B2LZ061
✓	✓	RIO-N090/20/60 B2LZ061
✓	✓	RIO-N090/20/90 B2LZ061
✓	✓	RIO-N120/20/60 B2LZ061
✓	✓	RIO-N120/20/90 B2LZ061
✓	✓	RIO-N060/30/60 B2LZ061
✓	✓	RIO-N060/30/90 B2LZ061
✓	✓	RIO-N090/30/60 B2LZ061
✓	✓	RIO-N090/30/90 B2LZ061
✓	✓	RIO-N120/30/60 B2LZ061
✓	✓	RIO-N120/30/90 B2LZ061
✓	✓	RIO-N150/30/60 B2LZ061
✓	✓	RIO-N150/30/90 B2LZ061

Glossary: ✓ - included in enclosure
✗ - not included in enclosure

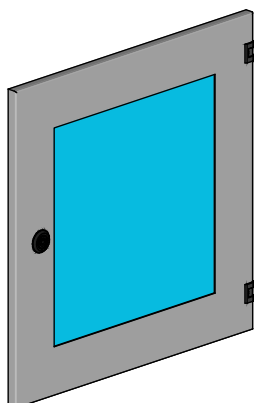
Above mentioned ordering codes are for standard versions of enclosures:

- doppelbart 3 lock
- powder paint RAL 7035 inner, matting structure, glossy
- left-handed door (hinges on the left side)
- full metal door
- protection IP 55 or IP 65

Other possible version are listed directly in separated price list.

For justification of the ordering code (for other version - e.g. color, lock type, left- /right-handed door) use the code key on page 4.

Example of glass door



- clear safety glass CONNEX 3.3.1.
- glass thickness 6,3 mm.

Ordering acc. to the modified specification of the ordering code:

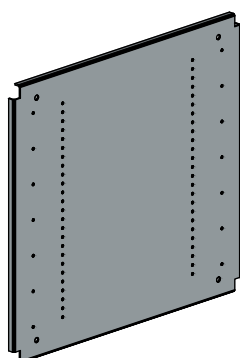
Door type: (0) full metal door
(S) glass door

Standard version: RIO-N H/D/W 0

Glass version: RIO-N H/D/W S

To order glass door for type version of the electrical enclosure just change number in the code key on position 5 (door type).

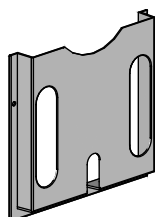
Mounting plate



- zinc-coated sheet metal (DX51D)
- material thickness 2mm

For enclosure dimension [mm]		Ordering code
Height	Width	
300	150	MP 030/15
300	300	MP 030/30
300	450	MP 030/45
300	600	MP 030/60
450	300	MP 045/30
450	450	MP 045/45
450	600	MP 045/60
450	900	MP 045/90
600	300	MP 060/30
600	450	MP 060/45
600	600	MP 060/60
900	600	MP 090/60
900	900	MP 090/90
1200	600	MP 120/60
1200	900	MP 120/90
1500	600	MP 150/60
1500	900	MP 150/90

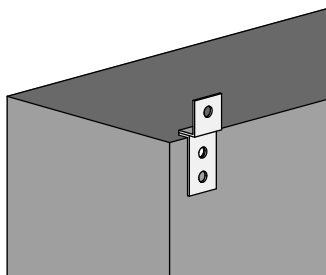
Documentation pocket



- for minimal door dimension 450 x 450 mm
- size A4
- plastic, self-adhesive

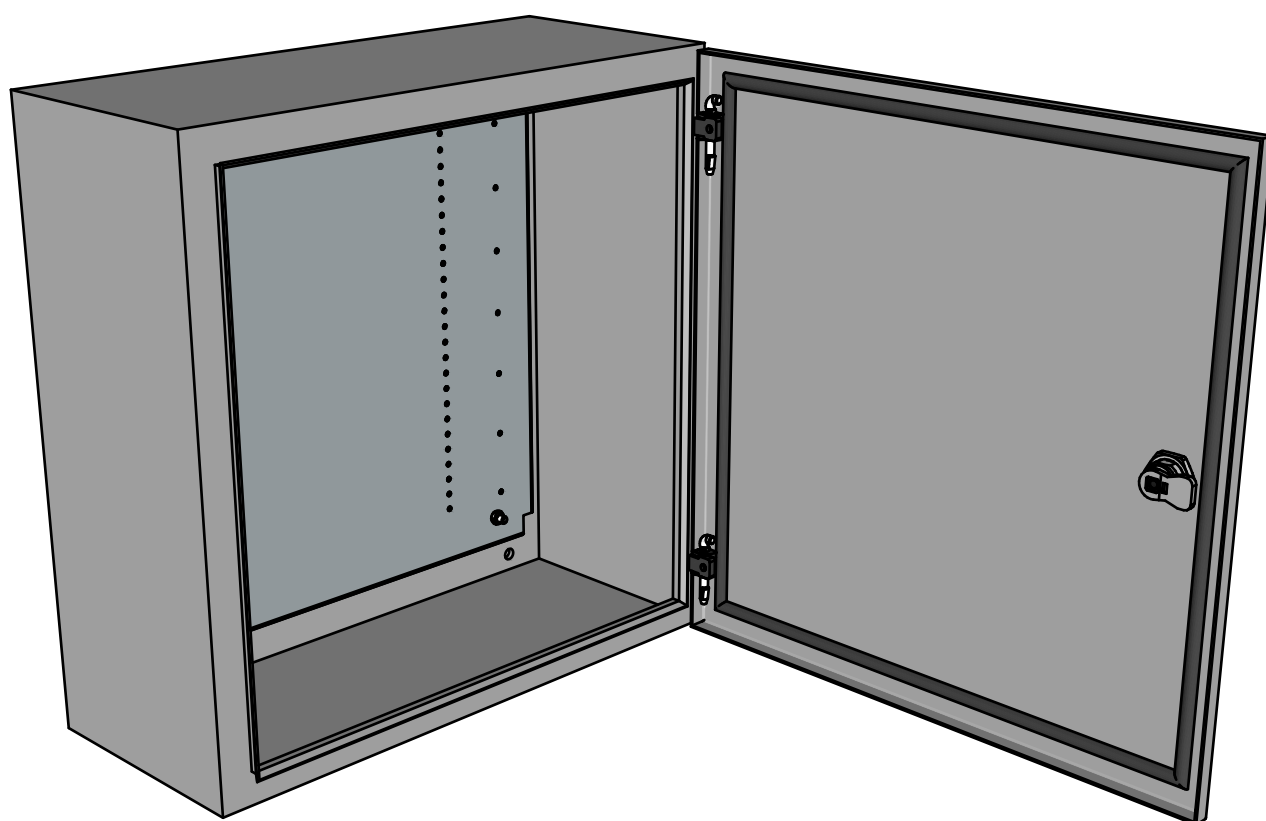
Design	Ordering code
Documentation pocket A4	6A 255

Outer fixing lug

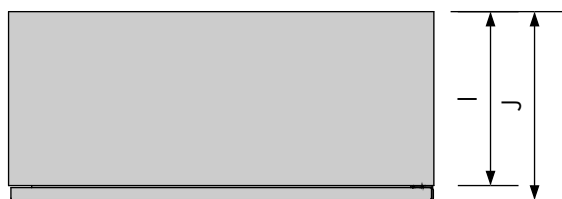
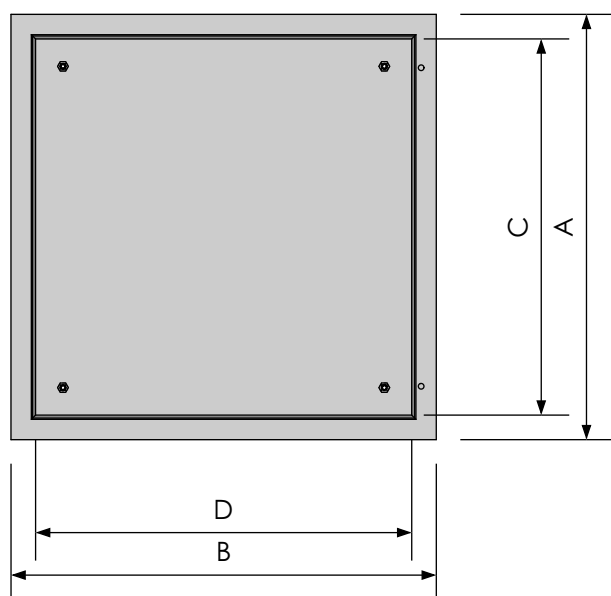


- package includes: 4 pc fixing lugs + connection accessories

Design	Ordering code
Outer fixing lug - RAL 7032	PVRIO 0100001
Outer fixing lug - RAL 7035	PVRIO 0200001
Outer fixing lug - stainless steel (1.4301)	PVRIO 0N00001



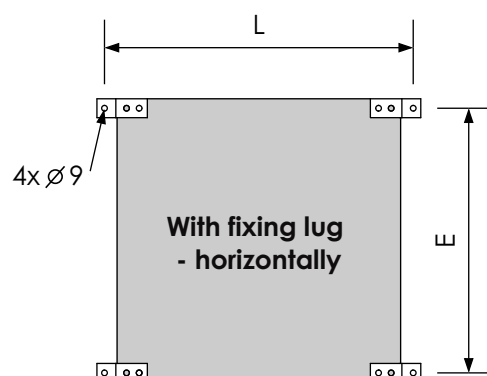
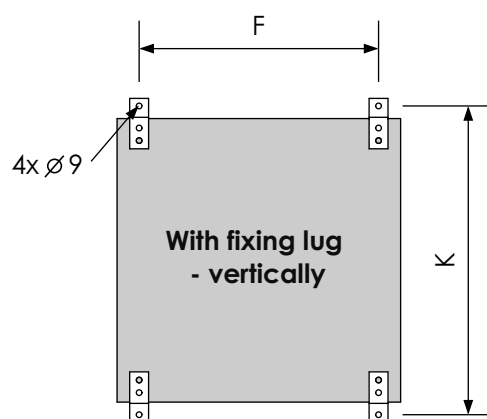
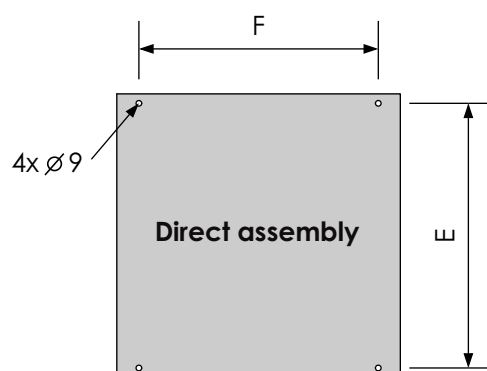
Basic dimensions (view without doors)



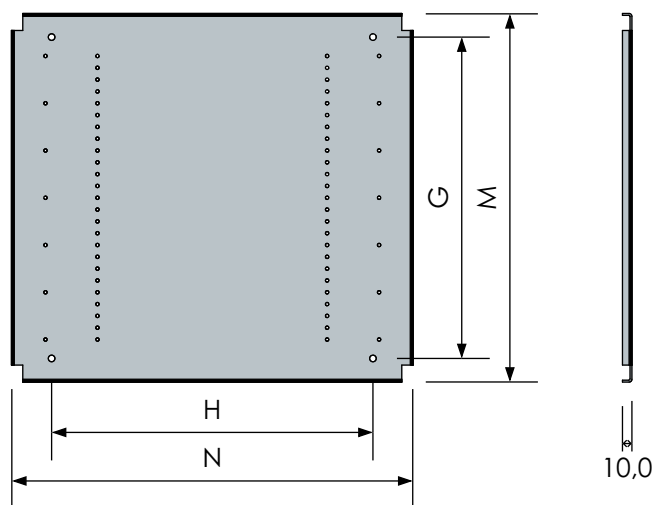
Enclosure depth [mm]	
(J)	(I)
100	80
150	130
200	180
300	280

Enclosure dimension [mm]		Enclosure throughpass [mm]		Anchor openings [mm] direct assembly		Anchor openings [mm] -with fixing lug -vertically		Anchor openings [mm] -with fixing lug -horizontally	
Height (A)	Width (B)	Height (C)	Width (D)	Height (E)	Width (F)	Height (K)	Width (F)	Height (E)	Width (L)
300	150	248	98	270	80	340	80	270	190
300	300	248	248	270	230	340	230	270	340
300	450	248	398	270	380	340	380	270	490
300	600	248	548	270	530	340	530	270	640
450	300	398	248	420	230	490	230	420	340
450	450	398	398	420	380	490	380	420	490
450	600	398	548	420	530	490	530	420	640
450	900	398	848	420	830	490	830	420	940
600	300	548	248	570	230	640	230	570	340
600	450	548	398	570	380	640	380	570	490
600	600	548	548	570	530	640	530	570	640
900	600	844	544	870	530	940	530	870	640
900	900	844	844	870	830	940	830	870	940
1200	600	1144	544	1170	530	1240	530	1170	640
1200	900	1144	844	1170	830	1240	830	1170	940
1500	600	1444	544	1470	530	1540	530	1470	640
1500	900	1444	844	1470	830	1540	830	1470	940

Enclosure anchorage - rear view



Basic dimensions of mounting plate



For enclosure dimension [mm]		Mounting hole pitch [mm]		Bolts for mounting plate assembly	Mounting plate dimension [mm]	
Height	Width	Height (G)	Width (H)		Height (M)	Width (N)
300	150	190	40	M 5	240	140
300	300	190	190	M 5	240	275
300	450	190	340	M 5	240	425
300	600	190	490	M 5	240	570
450	300	340	190	M 5	390	275
450	450	340	340	M 5	390	425
450	600	340	490	M 5	390	570
450	900	340	790	M 5	390	870
600	300	490	190	M 5	540	275
600	450	490	340	M 5	540	425
600	600	490	490	M 5	540	570
900	600	790	490	M 6	840	570
900	900	790	790	M 6	840	870
1200	600	1090	490	M 6	1140	570
1200	900	1090	790	M 6	1140	870
1500	600	1390	490	M 6	1440	570
1500	900	1390	790	M 6	1440	870

Electrical enclosure ESO-A is a universal enclosure intended for standalone or single-row switchgear cabinets. Enclosures are suitable above all for technological and distribution electrical cabinets.

Technical design

Construction of the electrical enclosure is made of non-dismountable connected bent steel sections. Covers are made of steel sheet of thickness 1,5 mm, the door of steel sheet 2,0 mm and mounting plate of zinc-coated steel sheet 2,5 mm. The door is equipped with a swing handle and a four-point lock with a lock inlet doppelbart 3 mm or with a cylindrical inlet with the unified key (DIRAK 1333). Enclosures are equipped with 4pc of lifting lugs for manipulation. The enclosure is equipped with welded-on grounding bolts.

The skeleton for the stainless design is extra powder coated with RAL 7043, other stainless parts (upper cover, sideways covers, doors) are made of grinded stainless sheet P240.

There is a prepared perforation in the skeleton of the enclosure for additional component and mechanics assembling. It is possible to buy various components, made of zinc-coated steel sheet (see page 12-15).

The preliminary surface treatment is done by ferrous phosphate. The powder coating technology is used as a consequential surface treatment of the enclosure (except of the stainless design). The width of the single-layer coating is min. 50µm. The resistance of the surface treatment is verified by corrosion test in NSM (neutral saline mist) - 500 hours according to the standard ČSN EN ISO 9227.

E S O - A	Adjustment of ordering code:	
	H	Height for ESO-A
		Value in dm
	D	Depth for ESO-A
		Value in dm
	W	Width for ESO-A
		Value in dm
	1	Type of locking
		B - doppelbart 3
		F - cylindrical inlet with unified key (DIRAK 1333)
	2	Surface treatment / Design
		1 - powder paint RAL 7032 inner, matting, glossy
		2 - powder paint RAL 7035 inner, matting, glossy
		N - stainless design (1.4301), P240 - stainless skeleton powder coat.
	3	Front door
		L - left-handed door (hinges on the left)
		P - right-handed door (hinges on the right)
		D - double wing door
	4	Back cover / Rear door
		K - removable back cover
		L - left-handed door (hinges on the left)
		P - right-handed door (hinges on the right)
		D - double wing doors
	5	Door type
		0 - full metal door
		S - 1 pc glass door
		V - more glass doors
	6	Protection of enclosure (acc. ČSN EN 60 529)
		4 - IP 54 (double-wing design)
		5 - IP 55 (single-wing design)
	7	Catalogue marking
		1 - production type marking



Standard design includes:

- enclosure skeleton
- door with four-point lock
- upper cover + lifting lug
- back cover

Type dimensions of the enclosure ESO-A

Type dimensions of enclosure [mm]			Ordering code (single-wing design)		Ordering code (double-wing design)		Ordering code (single-wing, glass design)	
Height	Depth	Width						
1600	400	600	ESO-A16/04/06 B2LK051	-	ESO-A16/04/08 B2DK041	ESO-A16/04/06 F2LKS51		
1600	400	800	ESO-A16/04/08 B2LK051	-	ESO-A16/04/10 B2DK041	ESO-A16/04/08 F2LKS51		
1600	400	1000	ESO-A16/04/10 B2LK051	-	ESO-A16/04/12 B2DK041	ESO-A16/04/10 F2LKS51		
1600	400	1200	-	-	-	-		
1600	600	600	ESO-A16/06/06 B2LK051	-	ESO-A16/06/08 B2DK041	ESO-A16/06/06 F2LKS51		
1600	600	800	ESO-A16/06/08 B2LK051	-	ESO-A16/06/10 B2DK041	ESO-A16/06/08 F2LKS51		
1600	600	1000	ESO-A16/06/10 B2LK051	-	ESO-A16/06/12 B2DK041	ESO-A16/06/10 F2LKS51		
1600	600	1200	-	-	-	-		
1600	800	600	ESO-A16/08/06 B2LK051	-	ESO-A16/08/08 B2DK041	ESO-A16/08/06 F2LKS51		
1600	800	800	ESO-A16/08/08 B2LK051	-	ESO-A16/08/10 B2DK041	ESO-A16/08/08 F2LKS51		
1600	800	1000	ESO-A16/08/10 B2LK051	-	ESO-A16/08/12 B2DK041	ESO-A16/08/10 F2LKS51		
1600	800	1200	-	-	-	-		
1800	400	600	ESO-A18/04/06 B2LK051	-	ESO-A18/04/08 B2DK041	ESO-A18/04/06 F2LKS51		
1800	400	800	ESO-A18/04/08 B2LK051	-	ESO-A18/04/10 B2DK041	ESO-A18/04/08 F2LKS51		
1800	400	1000	ESO-A18/04/10 B2LK051	-	ESO-A18/04/12 B2DK041	ESO-A18/04/10 F2LKS51		
1800	400	1200	-	-	-	-		
1800	600	600	ESO-A18/06/06 B2LK051	-	ESO-A18/06/08 B2DK041	ESO-A18/06/06 F2LKS51		
1800	600	800	ESO-A18/06/08 B2LK051	-	ESO-A18/06/10 B2DK041	ESO-A18/06/08 F2LKS51		
1800	600	1000	ESO-A18/06/10 B2LK051	-	ESO-A18/06/12 B2DK041	ESO-A18/06/10 F2LKS51		
1800	600	1200	-	-	-	-		
1800	800	600	ESO-A18/08/06 B2LK051	-	ESO-A18/08/08 B2DK041	ESO-A18/08/06 F2LKS51		
1800	800	800	ESO-A18/08/08 B2LK051	-	ESO-A18/08/10 B2DK041	ESO-A18/08/08 F2LKS51		
1800	800	1000	ESO-A18/08/10 B2LK051	-	ESO-A18/08/12 B2DK041	ESO-A18/08/10 F2LKS51		
1800	800	1200	-	-	-	-		
2000	400	600	ESO-A20/04/06 B2LK051	-	ESO-A20/04/08 B2DK041	ESO-A20/04/06 F2LKS51		
2000	400	800	ESO-A20/04/08 B2LK051	-	ESO-A20/04/10 B2DK041	ESO-A20/04/08 F2LKS51		
2000	400	1000	ESO-A20/04/10 B2LK051	-	ESO-A20/04/12 B2DK041	ESO-A20/04/10 F2LKS51		
2000	400	1200	-	-	-	-		
2000	600	600	ESO-A20/06/06 B2LK051	-	ESO-A20/06/08 B2DK041	ESO-A20/06/06 F2LKS51		
2000	600	800	ESO-A20/06/08 B2LK051	-	ESO-A20/06/10 B2DK041	ESO-A20/06/08 F2LKS51		
2000	600	1000	ESO-A20/06/10 B2LK051	-	ESO-A20/06/12 B2DK041	ESO-A20/06/10 F2LKS51		
2000	600	1200	-	-	-	-		
2000	800	600	ESO-A20/08/06 B2LK051	-	ESO-A20/08/08 B2DK041	ESO-A20/08/06 F2LKS51		
2000	800	800	ESO-A20/08/08 B2LK051	-	ESO-A20/08/10 B2DK041	ESO-A20/08/08 F2LKS51		
2000	800	1000	ESO-A20/08/10 B2LK051	-	ESO-A20/08/12 B2DK041	ESO-A20/08/10 F2LKS51		
2000	800	1200	-	-	-	-		
2200	400	600	ESO-A22/04/06 B2LK051	-	ESO-A22/04/08 B2DK041	ESO-A22/04/06 F2LKS51		
2200	400	800	ESO-A22/04/08 B2LK051	-	ESO-A22/04/10 B2DK041	ESO-A22/04/08 F2LKS51		
2200	400	1000	ESO-A22/04/10 B2LK051	-	ESO-A22/04/12 B2DK041	ESO-A22/04/10 F2LKS51		
2200	400	1200	-	-	-	-		
2200	600	600	ESO-A22/06/06 B2LK051	-	ESO-A22/06/08 B2DK041	ESO-A22/06/06 F2LKS51		
2200	600	800	ESO-A22/06/08 B2LK051	-	ESO-A22/06/10 B2DK041	ESO-A22/06/08 F2LKS51		
2200	600	1000	ESO-A22/06/10 B2LK051	-	ESO-A22/06/12 B2DK041	ESO-A22/06/10 F2LKS51		
2200	600	1200	-	-	-	-		
2200	800	600	ESO-A22/08/06 B2LK051	-	ESO-A22/08/08 B2DK041	ESO-A22/08/06 F2LKS51		
2200	800	800	ESO-A22/08/08 B2LK051	-	ESO-A22/08/10 B2DK041	ESO-A22/08/08 F2LKS51		
2200	800	1000	ESO-A22/08/10 B2LK051	-	ESO-A22/08/12 B2DK041	ESO-A22/08/10 F2LKS51		
2200	800	1200	-	-	-	-		

Above mentioned ordering codes are for standard versions of the enclosures:

- swing handle with doppelbart 3 (glass door with unified key DIRAK 1333)
- powder paint RAL 7035 inner, matting structure, glossy
- left-handed door (hinges on the left)
- IP protection 55 (single-wing design), IP protection 54 (double-wing design)
- without side covers and bottom cover

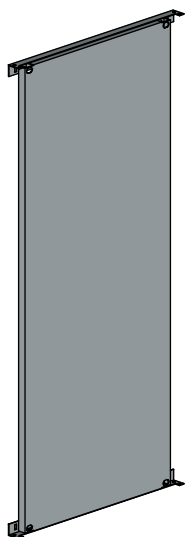
Other possible versions are listed directly in separate price list.

For justification of the ordering code (for other versions - e. g. color, lock type, left-/right-handed door) use the code key on page 10.

Additional mechanical parts:

- mechanical parts of the mounting system
- documentation pocket
- mounting plate
- stand

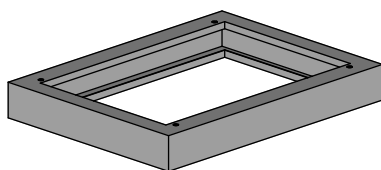
Mounting plate



- zinc-coated sheet metal (DX51D)
- material thickness 2,5 mm
- mounting plate holders - 2 pc

For enclosure dimension [mm]		Ordering code
Height	Width	
1600	600	MPE-A 16/06
1600	800	MPE-A 16/08
1600	1000	MPE-A 16/10
1600	1200	MPE-A 16/12
1800	600	MPE-A 18/06
1800	800	MPE-A 18/08
1800	1000	MPE-A 18/10
1800	1200	MPE-A 18/12
2000	600	MPE-A 20/06
2000	800	MPE-A 20/08
2000	1000	MPE-A 20/10
2000	1200	MPE-A 20/12
2200	600	MPE-A 22/06
2200	800	MPE-A 22/08
2200	1000	MPE-A 22/10
2200	1200	MPE-A 22/12

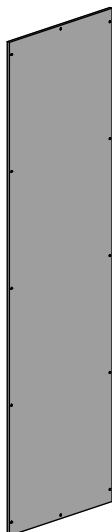
Stand



- stand height: 100 mm
- powder paint RAL 7035 *
- material thickness 2,0 mm

For enclosure dimensions [mm]		Ordering code
Depth	Width	
400	600	PDSE-A10 04/06 0200001
400	800	PDSE-A10 04/08 0200001
400	1000	PDSE-A10 04/10 0200001
400	1200	PDSE-A10 04/12 0200001
600	600	PDSE-A10 06/06 0200001
600	800	PDSE-A10 06/08 0200001
600	1000	PDSE-A10 06/10 0200001
600	1200	PDSE-A10 06/12 0200001
800	600	PDSE-A10 08/06 0200001
800	800	PDSE-A10 08/08 0200001
800	1000	PDSE-A10 08/10 0200001
800	1200	PDSE-A10 08/12 0200001

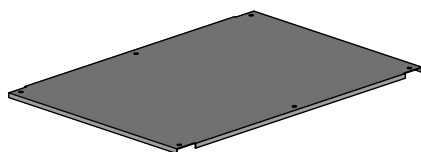
Side cover



- powder paint RAL 7035 *
- material thickness 1,5 mm
- connection accessories + sealing enclosed

For enclosure dimensions [mm]		Ordering code
Height	Depth	
1600	400	BKE-A 16/04 0200001
1600	600	BKE-A 16/06 0200001
1600	800	BKE-A 16/08 0200001
1800	400	BKE-A 18/04 0200001
1800	600	BKE-A 18/06 0200001
1800	800	BKE-A 18/08 0200001
2000	400	BKE-A 20/04 0200001
2000	600	BKE-A 20/06 0200001
2000	800	BKE-A 20/08 0200001
2200	400	BKE-A 22/04 0200001
2200	600	BKE-A 22/06 0200001
2200	800	BKE-A 22/08 0200001

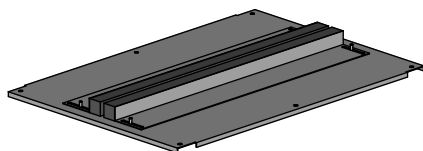
Bottom cover



- powder paint RAL 7035 *
- connection accessories + sealing enclosed

For enclosure dimension [mm]		Ordering code
Depth	Width	
400	600	KDE-A 04/06 0200001
400	800	KDE-A 04/08 0200001
400	1000	KDE-A 04/10 0200001
400	1200	KDE-A 04/12 0200001
600	600	KDE-A 06/06 0200001
600	800	KDE-A 06/08 0200001
600	1000	KDE-A 06/10 0200001
600	1200	KDE-A 06/12 0200001
800	600	KDE-A 08/06 0200001
800	800	KDE-A 08/08 0200001
800	1000	KDE-A 08/10 0200001
800	1200	KDE-A 08/12 0200001

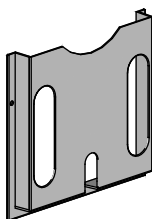
Bottom cover with adjustable rails



- powder paint RAL 7035 *
- adjustable rails with foam
- connection accessories + sealing enclosed

For enclosure dimension [mm]		Ordering code
Depth	Width	
400	600	KDLE-A 04/06 0200001
400	800	KDLE-A 04/08 0200001
400	1000	KDLE-A 04/10 0200001
400	1200	KDLE-A 04/12 0200001
600	600	KDLE-A 06/06 0200001
600	800	KDLE-A 06/08 0200001
600	1000	KDLE-A 06/10 0200001
600	1200	KDLE-A 06/12 0200001
800	600	KDLE-A 08/06 0200001
800	800	KDLE-A 08/08 0200001
800	1000	KDLE-A 08/10 0200001
800	1200	KDLE-A 08/12 0200001

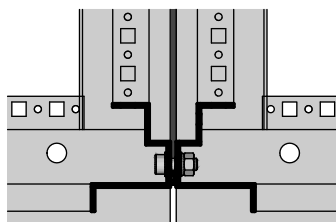
Documentation pocket



- size A4
- plastic, self-adhesive

Design	Ordering code
Documentation pocket A4	6A 255

Connection accessory



- made for connection of two enclosures into single-row side-by-side
- connection of enclosures with 8 pc of socket-head screws
- set includes:
 - sealing between enclosures
 - screws, mats, nuts - M8 (8 pc)

Design	Ordering code
Connection accessory	SSE-A

* In case of color change requirement (design) change the number **2 (RAL 7035)** for number **1 (RAL 7032)** or with letter **N (stainless design)**.

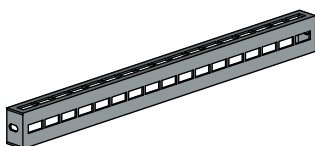
Vertical beam



- zinc-coated sheet metal (DX51D)
- material thickness 2,0 mm

For enclosure dimension H [mm]	Ordering code
1600	NE-A 16
1800	NE-A 18
2000	NE-A 20
2200	NE-A 22

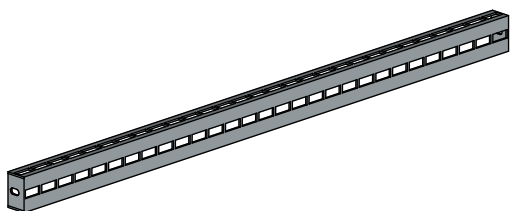
Side beam



- zinc-coated sheet metal (DX51D)
- material thickness 2,0 mm

For enclosure dimension D [mm]	Ordering code
400	NBE-A 04
600	NBE-A 06
800	NBE-A 08

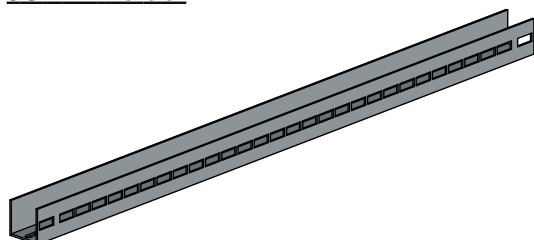
Inner beam



- zinc-coated sheet metal (DX51D)
- material thickness 2,0 mm

For enclosure dimension W [mm]	Ordering code
600	NSVE-A 06
800	NSVE-A 08
1000	NSVE-A 10
1200	NSVE-A 12

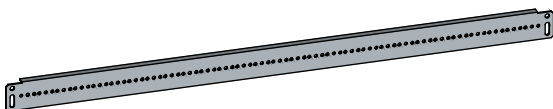
SONAP holder



- zinc-coated sheet metal (DX51D)
- material thickness 2,0 mm

For enclosure dimension W [mm]	Ordering code
600	DSE-A 06
800	DSE-A 08
1000	DSE-A 10
1200	DSE-A 12

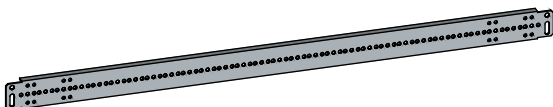
Cableduct holder



- zinc-coated sheet metal (DX51D)
- material thickness 2,0 mm

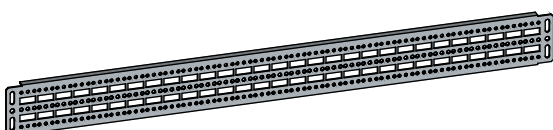
For enclosure dimension W [mm]	Ordering code
600	DZ4E06U
800	DZ4E08U
1000	DZ4E10U
1200	DZ4E12U

Device beams



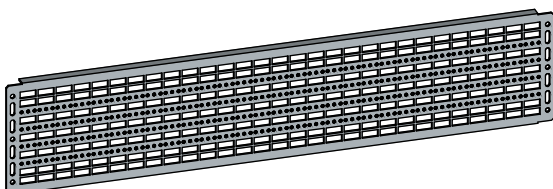
- zinc-coated sheet metal (DX51D)
- material thickness 2,0 mm

For enclosure dimension W [mm]	Ordering code
600	N04E06U
800	N04E08U
1000	N04E10U
1200	N04E12U



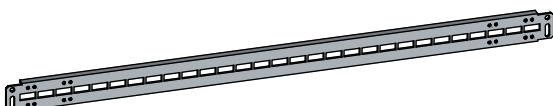
- zinc-coated sheet metal (DX51D)
- material thickness 2,0 mm

For enclosure dimension W [mm]	Ordering code
600	N08E06U
800	N08E08U
1000	N08E10U
1200	N08E12U



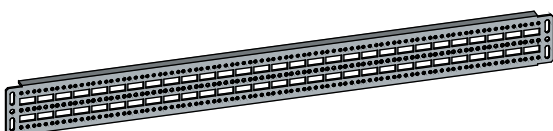
- zinc-coated sheet metal (DX51D)
- material thickness 2,5 mm

For enclosure dimension W [mm]	Ordering code
600	N17E06U
800	N17E08U
1000	N17E10U
1200	N17E12U



- zinc-coated sheet metal (DX51D)
- material thickness 3,0 mm

For enclosure dimension W [mm]	Ordering code
600	N04E06U3
800	N04E08U3
1000	N04E10U3
1200	N04E12U3



- zinc-coated sheet metal (DX51D)
- material thickness 3,0 mm

For enclosure dimension W [mm]	Ordering code
600	N08E06U3
800	N08E08U3
1000	N08E10U3
1200	N08E12U3

Electrical enclosure KAPPA is a compact universal enclosure intended for standalone switchgear cabinets. Enclosures are suitable above all for technological and distribution electrical cabinets.

Technical design

KAPPA is a compact steel sheet enclosure with removable back cover. Frame of the enclosure is made of steel sheet of thickness 1,3 mm (with stainless design 1,25 mm). Back cover is made of steel sheet of thickness 1,0 mm, doors of steel sheet 2,0 mm and mounting plate of zinc-coated steel sheet of thickness 2,5 mm. Enclosure doors are equipped with a swing handle and four-point lock with Doppelbart 3mm inlet or cylindrical inlet with the unified key (DIRAK 1333). The enclosures are equipped with 4pc of lifting lugs for manipulation. There is a polyurethane cast sealing that guarantees the high degree of protection IP 65. The enclosure is equipped with welded-on grounding bolts.

It is possible to buy various components made of zinc-coated steel sheet (see page 18-20).

The preliminary surface treatment is done by ferrous phosphate. The powder coating technology is used as a consequential surface treatment of the enclosure (except of the stainless design). The width of the single-layer coating is min. 50µm. The resistance of the surface treatment is verified by corrosion test in NSM (neutral saline mist) - 500 hours according to the standard ČSN EN ISO 9227.

K
A
P
P
A

H

/

D

/

W

1

2

3

4

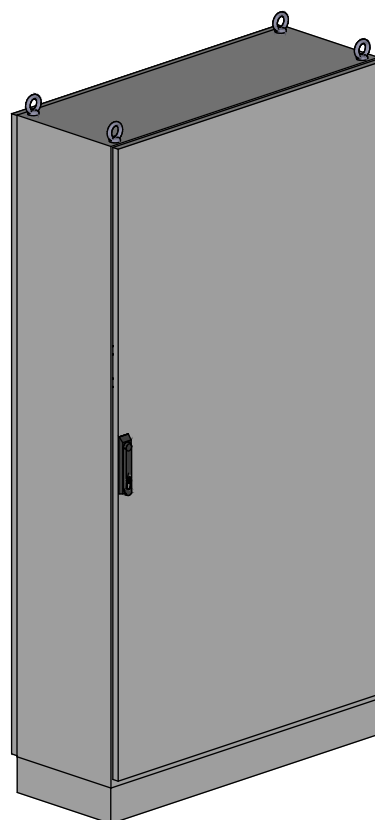
5

6

7

Adjustment of ordering code:

H Height		Value
for KAPPA		in dm
D Depth		Value
for KAPPA		in dm
W Width		Value
for KAPPA		in dm
Type of locking		
1	B	- doppelbart 3
	F	- cylindrical inlet with unified key (DIRAK 1333)
Surface treatment / Design		
2	1	- powder paint RAL 7032 inner, matting, glossy
	2	- powder paint RAL 7035 inner, matting, glossy
	N	- stainless design (1.4301 acc. EN 10027-2), grind P240
Front door		
3	L	- left-handed door (hinges on the left)
	P	- right-handed door (hinges on the right)
	D	- double wing door
Back cover / Rear door		
4	K	- removable back cover
	L	- left-handed door (hinges on the left)
	P	- right-handed door (hinges on the right)
	D	- double wing doors
Door type		
5	0	- full metal door
	S	- 1 pc glass door
	V	- more glass doors
Protection of enclosure (acc. ČSN EN 60 529)		
6	5	- IP 55 (double-wing design)
	7	- IP 66 (single-wing design)
Catalogue marking		
7	1	- production type marking



Standard design included:

- enclosure skeleton
- door with four-point lock
- back cover
- bottom cover (full, unperforated)
- lifting lugs

Type dimensions of the enclosure KAPPA

Type dimensions of enclosure [mm]			Ordering code (single-wing powder coated design)		Ordering code (double-wing powder coated design)		Ordering code (single-wing stainless design)	
Height	Depth	Width						
1600	400	600	KAPPA-16/04/06 B2LK071		-		KAPPA-16/04/06 BNLK071	
1600	400	800	KAPPA-16/04/08 B2LK071		KAPPA-16/04/08 B2DK051		KAPPA-16/04/08 BNLK071	
1600	400	1000	KAPPA-16/04/10 B2LK071		KAPPA-16/04/10 B2DK051		KAPPA-16/04/10 BNLK071	
1600	400	1200	-		KAPPA-16/04/12 B2DK051		-	
1600	600	600	KAPPA-16/06/06 B2LK071		-		KAPPA-16/06/06 BNLK071	
1600	600	800	KAPPA-16/06/08 B2LK071		KAPPA-16/06/08 B2DK051		KAPPA-16/06/08 BNLK071	
1600	600	1000	KAPPA-16/06/10 B2LK071		KAPPA-16/06/10 B2DK051		KAPPA-16/06/10 BNLK071	
1600	600	1200	-		KAPPA-16/06/12 B2DK051		-	
1600	800	600	KAPPA-16/08/06 B2LK071		-		KAPPA-16/08/06 BNLK071	
1600	800	800	KAPPA-16/08/08 B2LK071		KAPPA-16/08/08 B2DK051		KAPPA-16/08/08 BNLK071	
1600	800	1000	KAPPA-16/08/10 B2LK071		KAPPA-16/08/10 B2DK051		KAPPA-16/08/10 BNLK071	
1600	800	1200	-		KAPPA-16/08/12 B2DK051		-	
1800	400	600	KAPPA-18/04/06 B2LK071		-		KAPPA-18/04/06 BNLK071	
1800	400	800	KAPPA-18/04/08 B2LK071		KAPPA-18/04/08 B2DK051		KAPPA-18/04/08 BNLK071	
1800	400	1000	KAPPA-18/04/10 B2LK071		KAPPA-18/04/10 B2DK051		KAPPA-18/04/10 BNLK071	
1800	400	1200	-		KAPPA-18/04/12 B2DK051		-	
1800	600	600	KAPPA-18/06/06 B2LK071		-		KAPPA-18/06/06 BNLK071	
1800	600	800	KAPPA-18/06/08 B2LK071		KAPPA-18/06/08 B2DK051		KAPPA-18/06/08 BNLK071	
1800	600	1000	KAPPA-18/06/10 B2LK071		KAPPA-18/06/10 B2DK051		KAPPA-18/06/10 BNLK071	
1800	600	1200	-		KAPPA-18/06/12 B2DK051		-	
1800	800	600	KAPPA-18/08/06 B2LK071		-		KAPPA-18/08/06 BNLK071	
1800	800	800	KAPPA-18/08/08 B2LK071		KAPPA-18/08/08 B2DK051		KAPPA-18/08/08 BNLK071	
1800	800	1000	KAPPA-18/08/10 B2LK071		KAPPA-18/08/10 B2DK051		KAPPA-18/08/10 BNLK071	
1800	800	1200	-		KAPPA-18/08/12 B2DK051		-	
2000	400	600	KAPPA-20/04/06 B2LK071		-		KAPPA-20/04/06 BNLK071	
2000	400	800	KAPPA-20/04/08 B2LK071		KAPPA-20/04/08 B2DK051		KAPPA-20/04/08 BNLK071	
2000	400	1000	KAPPA-20/04/10 B2LK071		KAPPA-20/04/10 B2DK051		KAPPA-20/04/10 BNLK071	
2000	400	1200	-		KAPPA-20/04/12 B2DK051		-	
2000	600	600	KAPPA-20/06/06 B2LK071		-		KAPPA-20/06/06 BNLK071	
2000	600	800	KAPPA-20/06/08 B2LK071		KAPPA-20/06/08 B2DK051		KAPPA-20/06/08 BNLK071	
2000	600	1000	KAPPA-20/06/10 B2LK071		KAPPA-20/06/10 B2DK051		KAPPA-20/06/10 BNLK071	
2000	600	1200	-		KAPPA-20/06/12 B2DK051		-	
2000	800	600	KAPPA-20/08/06 B2LK071		-		KAPPA-20/08/06 BNLK071	
2000	800	800	KAPPA-20/08/08 B2LK071		KAPPA-20/08/08 B2DK051		KAPPA-20/08/08 BNLK071	
2000	800	1000	KAPPA-20/08/10 B2LK071		KAPPA-20/08/10 B2DK051		KAPPA-20/08/10 BNLK071	
2000	800	1200	-		KAPPA-20/08/12 B2DK051		-	
2200	400	600	KAPPA-22/04/06 B2LK071		-		KAPPA-22/04/06 BNLK071	
2200	400	800	KAPPA-22/04/08 B2LK071		KAPPA-22/04/08 B2DK051		KAPPA-22/04/08 BNLK071	
2200	400	1000	KAPPA-22/04/10 B2LK071		KAPPA-22/04/10 B2DK051		KAPPA-22/04/10 BNLK071	
2200	400	1200	-		KAPPA-22/04/12 B2DK051		-	
2200	600	600	KAPPA-22/06/06 B2LK071		-		KAPPA-22/06/06 BNLK071	
2200	600	800	KAPPA-22/06/08 B2LK071		KAPPA-22/06/08 B2DK051		KAPPA-22/06/08 BNLK071	
2200	600	1000	KAPPA-22/06/10 B2LK071		KAPPA-22/06/10 B2DK051		KAPPA-22/06/10 BNLK071	
2200	600	1200	-		KAPPA-22/06/12 B2DK051		-	
2200	800	600	KAPPA-22/08/06 B2LK071		-		KAPPA-22/08/06 BNLK071	
2200	800	800	KAPPA-22/08/08 B2LK071		KAPPA-22/08/08 B2DK051		KAPPA-22/08/08 BNLK071	
2200	800	1000	KAPPA-22/08/10 B2LK071		KAPPA-22/08/10 B2DK051		KAPPA-22/08/10 BNLK071	
2200	800	1200	-		KAPPA-22/08/12 B2DK051		-	

Above mentioned ordering codes are intended for standard versions of enclosures:

- swing handle with doppelbart 3 inlet
- stainless design or powder paint RAL 7035 inner, matting structure, glossy
- left-handed door (hinges on the left)
- IP protection 66 (single-wing design), IP protection 55 (double-wing design)
- including bottom cover

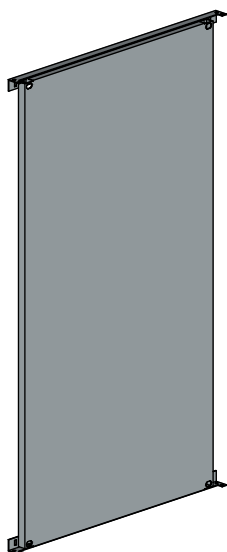
Other possible versions are listed directly in separated price list.

For justification of the ordering code (for other versions - e. g. color, lock type, left-/right-handed door) use the code key on page 16.

Additional mechanical parts:

- mechanical parts of the mounting system
- documentation pocket
- mounting plate
- stand

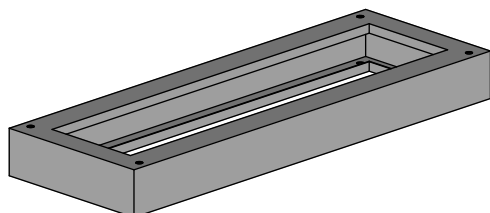
Mounting plate



- zinc-coated sheet metal (DX51D)
- material thickness 2,5 mm
- mounting plate holders - 2 pc

For enclosure dimension [mm]		Ordering code
Height	Width	
1600	600	MPK 16/06
1600	800	MPK 16/08
1600	1000	MPK 16/10
1600	1200	MPK 16/12
1800	600	MPK 18/06
1800	800	MPK 18/08
1800	1000	MPK 18/10
1800	1200	MPK 18/12
2000	600	MPK 20/06
2000	800	MPK 20/08
2000	1000	MPK 20/10
2000	1200	MPK 20/12
2200	600	MPK 22/06
2200	800	MPK 22/08
2200	1000	MPK 22/10
2200	1200	MPK 22/12

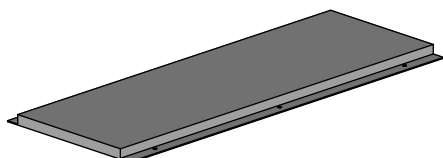
Stand



- stand height: 100 mm
- powder paint RAL 7035 *
- material thickness 2,0 mm

For enclosure dimension [mm]		Ordering code
Depth	Width	
400	600	PDSK10 04/06 0200001
400	800	PDSK10 04/08 0200001
400	1000	PDSK10 04/10 0200001
400	1200	PDSK10 04/12 0200001
600	600	PDSK10 06/06 0200001
600	800	PDSK10 06/08 0200001
600	1000	PDSK10 06/10 0200001
600	1200	PDSK10 06/12 0200001
800	600	PDSK10 08/06 0200001
800	800	PDSK10 08/08 0200001
800	1000	PDSK10 08/10 0200001
800	1200	PDSK10 08/12 0200001

Bottom cover

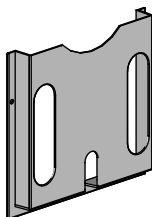


- powder paint RAL 7035 *
- connection accessories + sealing enclosed

For enclosure dimension [mm]		Ordering code
Depth	Width	
400	600	KDK 04/06 0200001
400	800	KDK 04/08 0200001
400	1000	KDK 04/10 0200001
400	1200	KDK 04/12 0200001
600	600	KDK 06/06 0200001
600	800	KDK 06/08 0200001
600	1000	KDK 06/10 0200001
600	1200	KDK 06/12 0200001
800	600	KDK 08/06 0200001
800	800	KDK 08/08 0200001
800	1000	KDK 08/10 0200001
800	1200	KDK 08/12 0200001

* In case of color change requirement (design) change the number 2 (RAL 7035) for number 1 (RAL 7032) or letter N (stainless design).

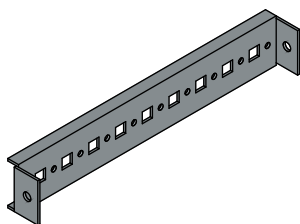
Documentation pocket



- size A4
- plastic, self-adhesive

Design	Ordering code
Documentation pocket A4	6A 255

Side beam



- zinc-coated sheet metal (DX51D)
- material thickness 2,0 mm

For enclosure dimension D [mm]	Ordering code
400	NBK 04
600	NBK 06
800	NBK 08

- for usage it is necessary to order:

- application without mounting plate:
2 pc vertical beam (NK)
- application together with mounting plate
1 pc vertical beam (NK) and
1 pc vertical rear beam (NZK)

Vertical beam

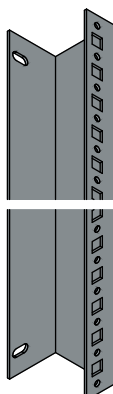


- zinc-coated sheet metal (DX51D)
- material thickness 2,0 mm

For enclosure dimension H [mm]	Ordering code
1600	NK 16
1800	NK 18
2000	NK 20
2200	NK 22

- for usage of device plates

Vertical rear beam

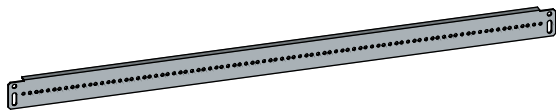


- zinc-coated sheet metal (DX51D)
- material thickness 2,0 mm

For enclosure dimension H [mm]	Ordering code
1600	NZK 16
1800	NZK 18
2000	NZK 20
2200	NZK 22

- to be used with mounting plate together with side beam

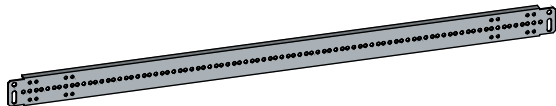
Cableduct holder



- zinc-coated sheet metal (DX51D)
- material thickness 2,0 mm

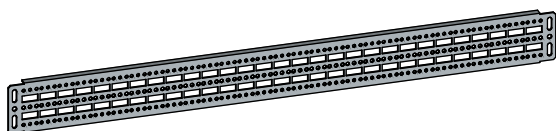
For enclosure dimension W [mm]	Ordering code
600	DZ4E06U
800	DZ4E08U
1000	DZ4E10U
1200	DZ4E12U

Device beams



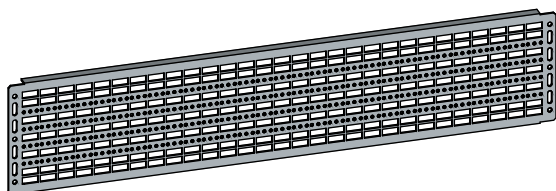
- zinc-coated sheet metal (DX51D)
- material thickness 2,0 mm

For enclosure dimension W [mm]	Ordering code
600	N04E06U
800	N04E08U
1000	N04E10U
1200	N04E12U



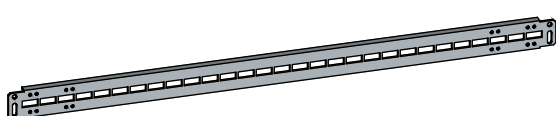
- zinc-coated sheet metal (DX51D)
- material thickness 2,0 mm

For enclosure dimension W [mm]	Ordering code
600	N08E06U
800	N08E08U
1000	N08E10U
1200	N08E12U



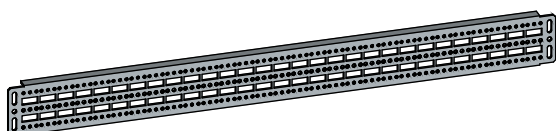
- zinc-coated sheet metal (DX51D)
- material thickness 2,5 mm

For enclosure dimension W [mm]	Ordering code
600	N17E06U
800	N17E08U
1000	N17E10U
1200	N17E12U



- zinc-coated sheet metal (DX51D)
- material thickness 3,0 mm

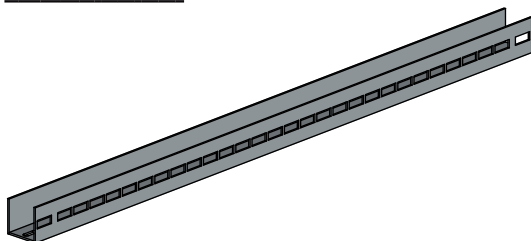
For enclosure dimension W [mm]	Ordering code
600	N04E06U3
800	N04E08U3
1000	N04E10U3
1200	N04E12U3



- zinc-coated sheet metal (DX51D)
- material thickness 3,0 mm

For enclosure dimension W [mm]	Ordering code
600	N08E06U3
800	N08E08U3
1000	N08E10U3
1200	N08E12U3

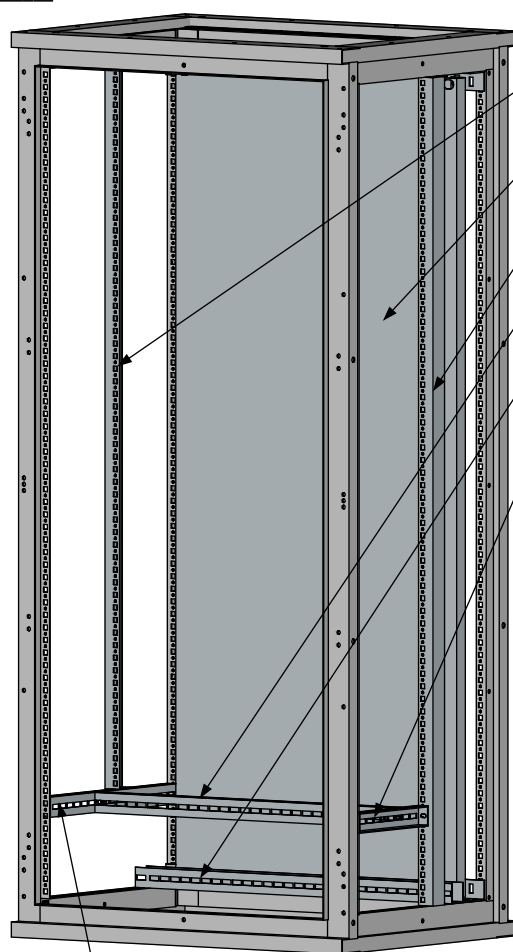
SONAP holder



- zinc-coated sheet metal (DX51D)
- material thickness 2,0 mm

For enclosure dimension W [mm]	Ordering code
600	DSE-A 06
800	DSE-A 08
1000	DSE-A 10
1200	DSE-A 12

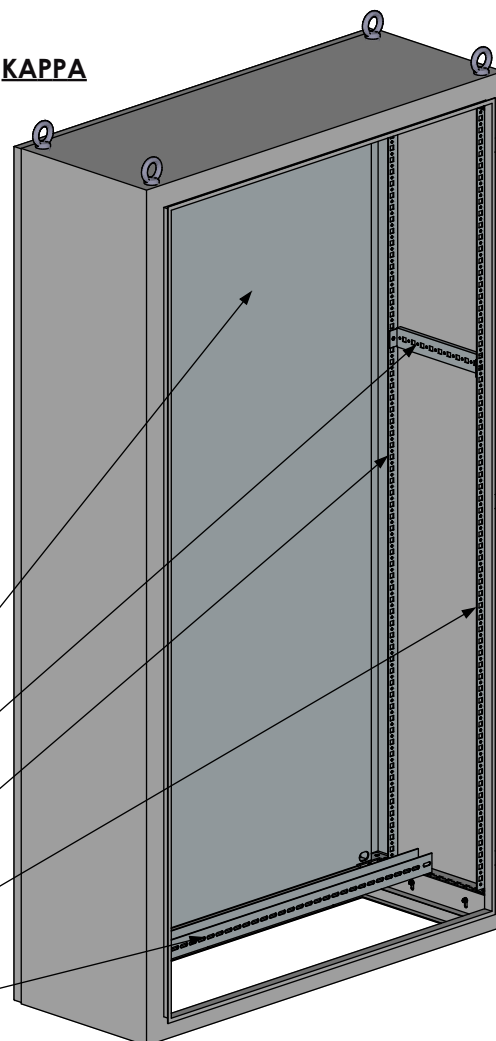
ESO-A



- NE-A - Vertical beam ESO-A
- MPE-A - Mounting plate ESO-A
- NE-A - Vertical beam ESO-A
- NSVE-A - Inner beam ESO-A
- DSE-A - SONAP holder ESO-A
- NBE-A - Side beam ESO-A

NBE-A - Side beam ESO-A

KAPPA



Mounting plate KAPPA - MPK

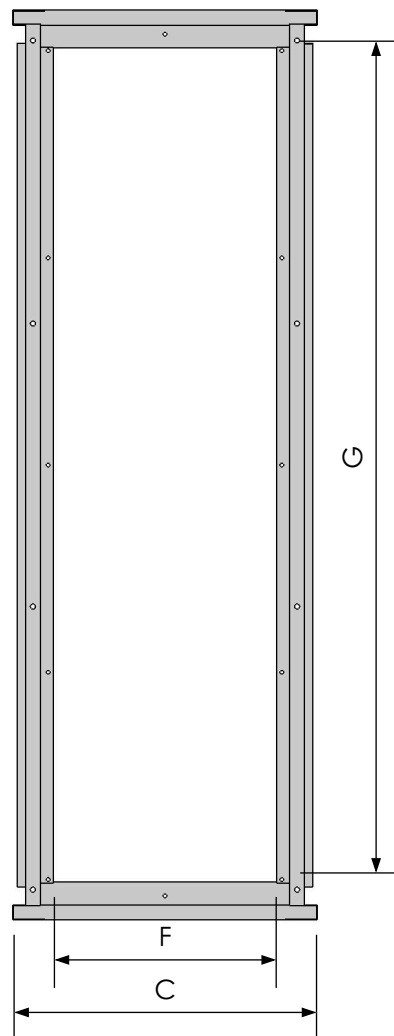
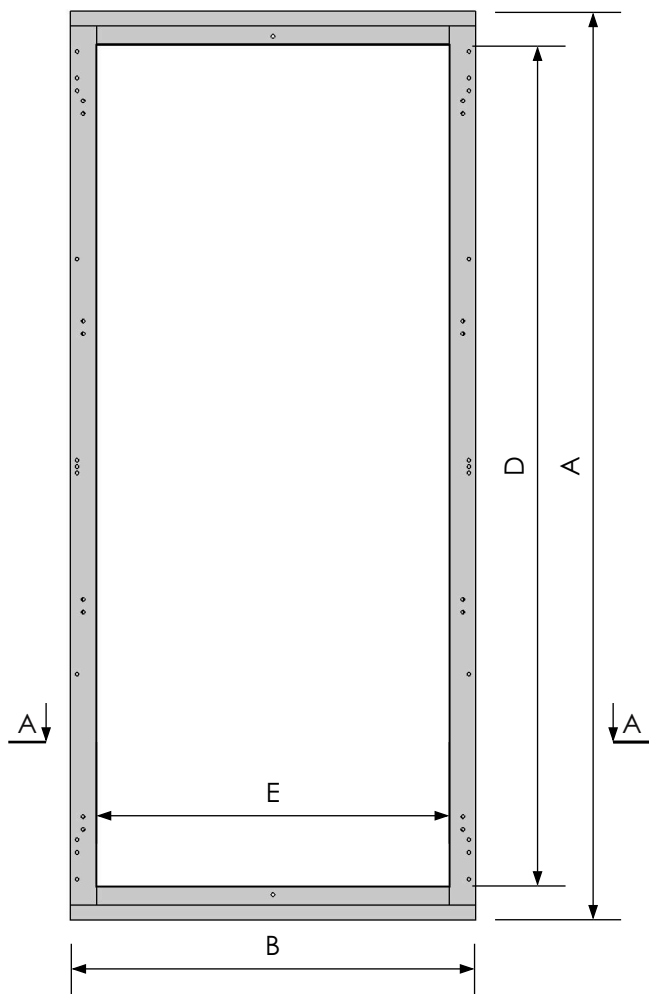
Side beam KAPPA - NBK

Vertical rear beam KAPPA - NZK

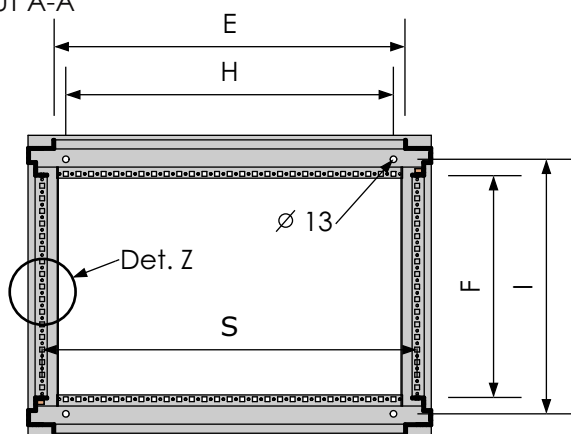
Vertical beam KAPPA - NK

SONAP holder KAPPA - DSE

Basic enclosure dimensions



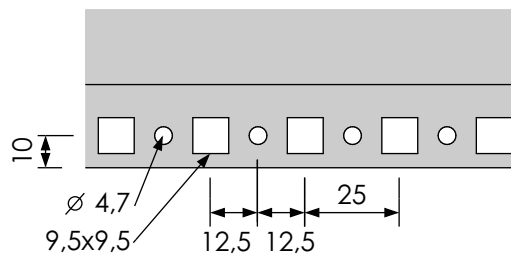
CUT A-A



Mounting openings in frame

- for mounting of additional mechanics
- avg. 4.7 mm is prepared for self-drilling screw ST 5,5 mm
- openings 9,5x9,5 mm are prepared for cage nuts M4 - M6

DETAIL Z



Height dimensions [mm]				
A	1600	1800	2000	2200
D	1466	1666	1866	2066
G	1450	1650	1850	2050

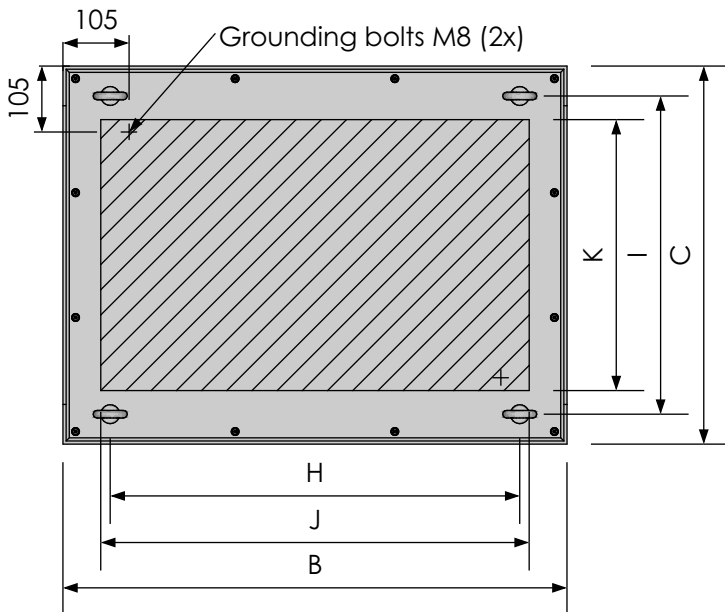
Width dimensions [mm]				
B	600	800	1000	1200
E	496	696	896	1096
H	450	650	850	1050
S	543	743	943	1143

Depth dimensions [mm]			
C	400	600	800
F	240	440	640
I	305	505	705

- AxBxC** - basic enclosure dimension (HxDxW)
DxE - basic enclosure inlet opening
GxF - basic side enclosure opening
HxI - anchorage enclosure dimensions

Grounding bolts M8.

Upper cover (top view)



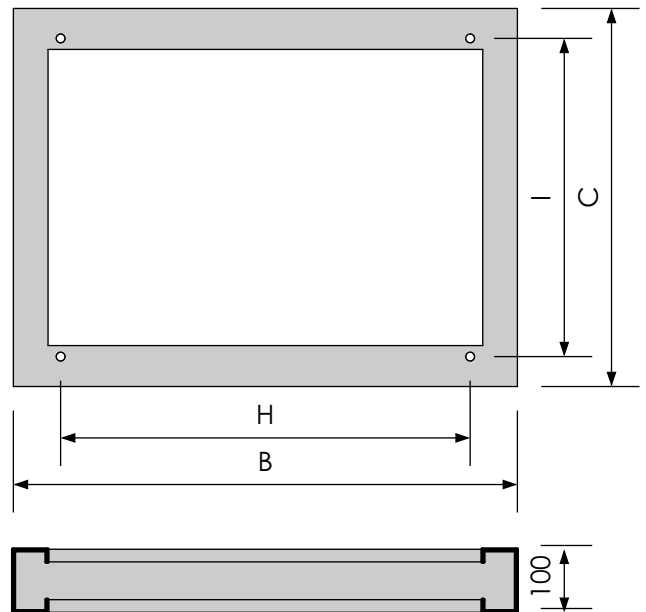
Width dimensions [mm]				
B	600	800	1000	1200
J	480	680	880	1080
H	450	650	850	1050

Depth dimensions [mm]			
C	400	600	800
K	230	430	630
I	305	505	705

- BxC** - basic enclosure dimension (WxD)
JxK - maximum dimension for bushing assembly
HxI - anchorage enclosure dimensions (mounting lifting lugs)

Dimensions of upper cover are about 10 mm shorter than basic enclosure dimensions.
 Material thickness 1,5 mm.
 Grounding bolts M8.

Stand



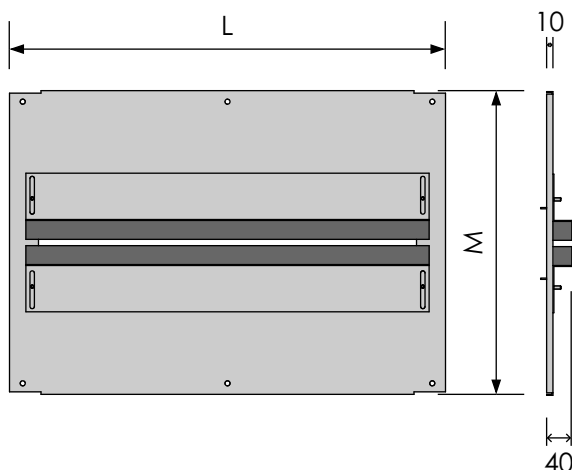
Width dimensions [mm]				
B	600	800	1000	1200
H	450	650	850	1050

Depth dimensions [mm]			
C	400	600	800
I	305	505	705

- BxC** - basic enclosure dimension (WxD)
HxI - anchorage enclosure dimensions

Stand height is 100 mm.
 Material thickness 2,0 mm.

Bottom cover with adjustable rails



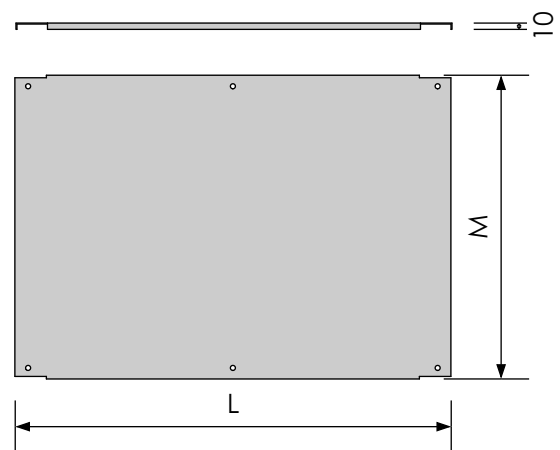
Width dimensions [mm]				
B	600	800	1000	1200
L	492	692	892	1092

Depth dimensions [mm]			
C	400	600	800
M	282	482	682

- BxC** - basic enclosure dimension (WxD)
LxM - bottom cover dimension

Opening depth under adjustable rails is 100 mm.
 Material thickness 1,5 mm.
 Grounding bolt M8.

Bottom cover



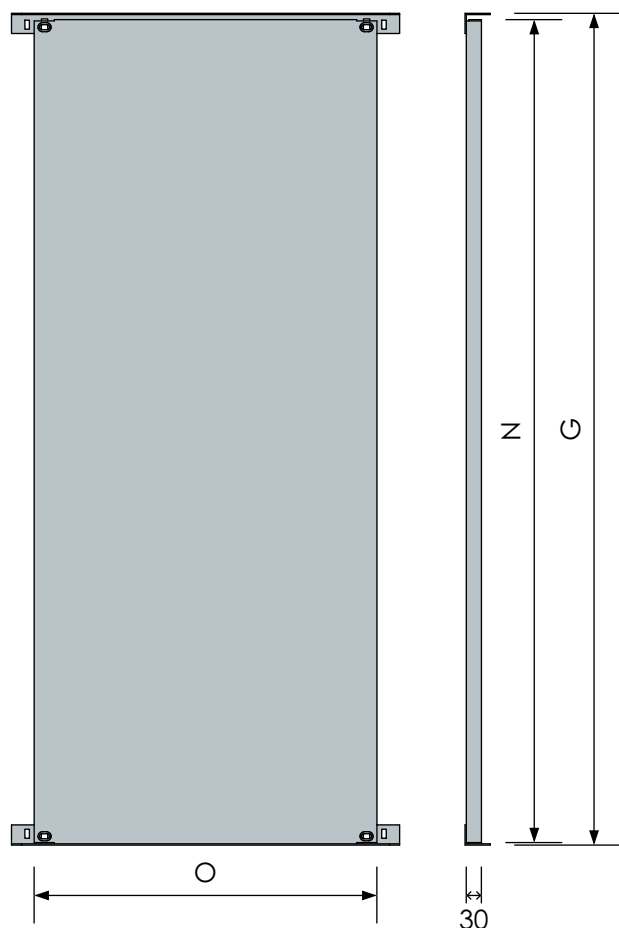
Width dimensions [mm]				
B	600	800	1000	1200
L	492	692	892	1092

Depth dimensions [mm]			
C	400	600	800
M	282	482	682

- BxC** - basic enclosure dimension (WxD)
LxM - bottom cover dimension

Material thickness 1,5 mm.
 Grounding bolt M8.

Mounting plate



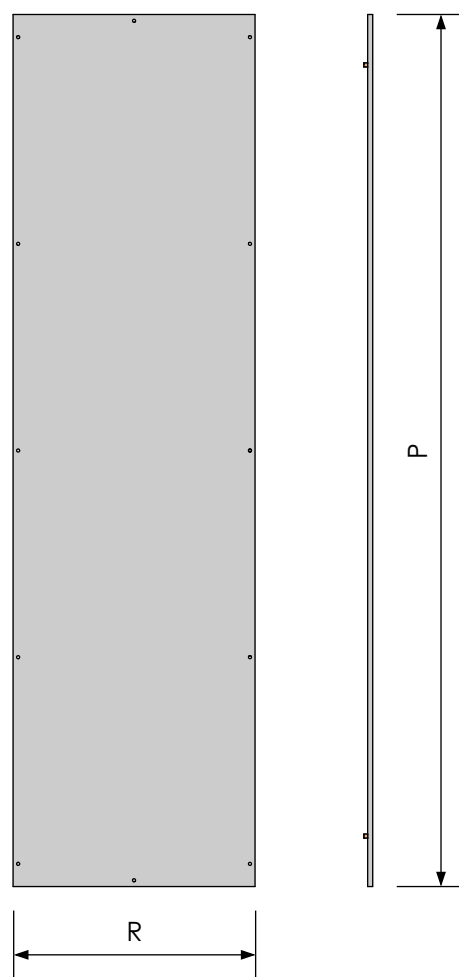
Height dimensions [mm]				
A	1600	1800	2000	2200
G	1450	1650	1850	2050
N	1435	1635	1835	2035

Width dimensions [mm]				
B	600	800	1000	1200
O	480	680	880	1080

AxB - basic enclosure dimension (HxW)
GxY - mounting openings distance
NxO - mounting plate dimension

Assembly of the mounting plate requires 2pc of mounting plate holders - included in delivery.
 Material thickness 2,5 mm.
 Grounding bolt M8.

Side cover



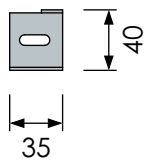
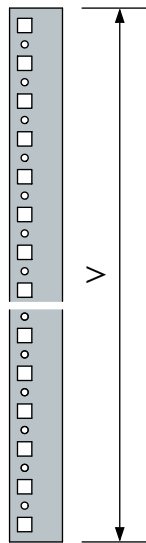
Height dimensions [mm]				
A	1600	1800	2000	2200
P	1530	1730	1930	2130

Width dimensions [mm]			
C	400	600	800
R	280	480	680

AxC - basic enclosure dimension (HxD)
PxR - side cover dimension

Material thickness 1,5 mm.
 Grounding bolts M8.

Vertical beam

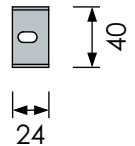
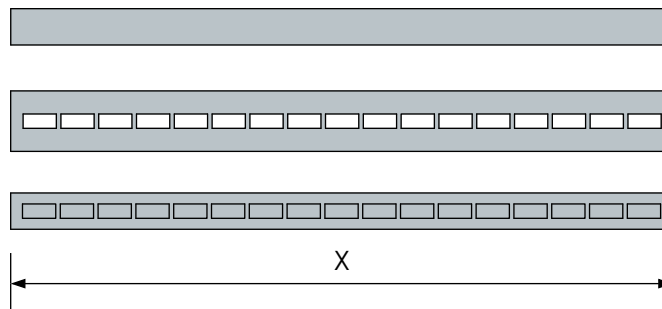


Height dimensions [mm]				
A	1600	1800	2000	2200
V	1448	1648	1848	2048

A - enclosure height (H)
V - beam height

Material thickness 2,0 mm.
 Openings for cage nuts M4 - M6.
 Openings for self-drilling screws ST 5,5 mm.

Side beam

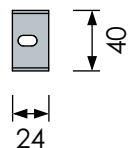
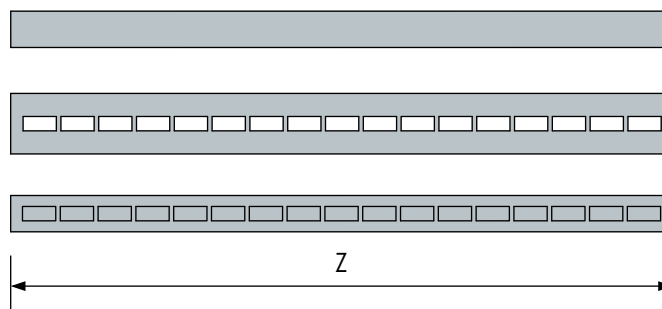


Depth dimensions [mm]			
C	400	600	800
X	238	438	638

C - enclosure depth (D)
X - beam length

Material thickness 2,0 mm.
 Openings for cage nuts M4 - M6.

Inner beam

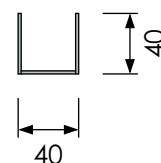
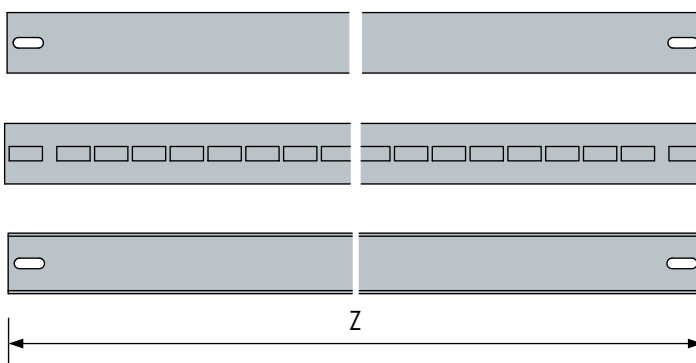


Width dimensions [mm]				
B	600	800	1000	1200
Z	525	725	925	1125

B - enclosure width (W)
Z - beam length

Material thickness 2,0 mm.
 Openings for cage nuts M4 - M6.
 Beam is inserted between vertical beams. (It has to be ordered separately.)

SONAP holder

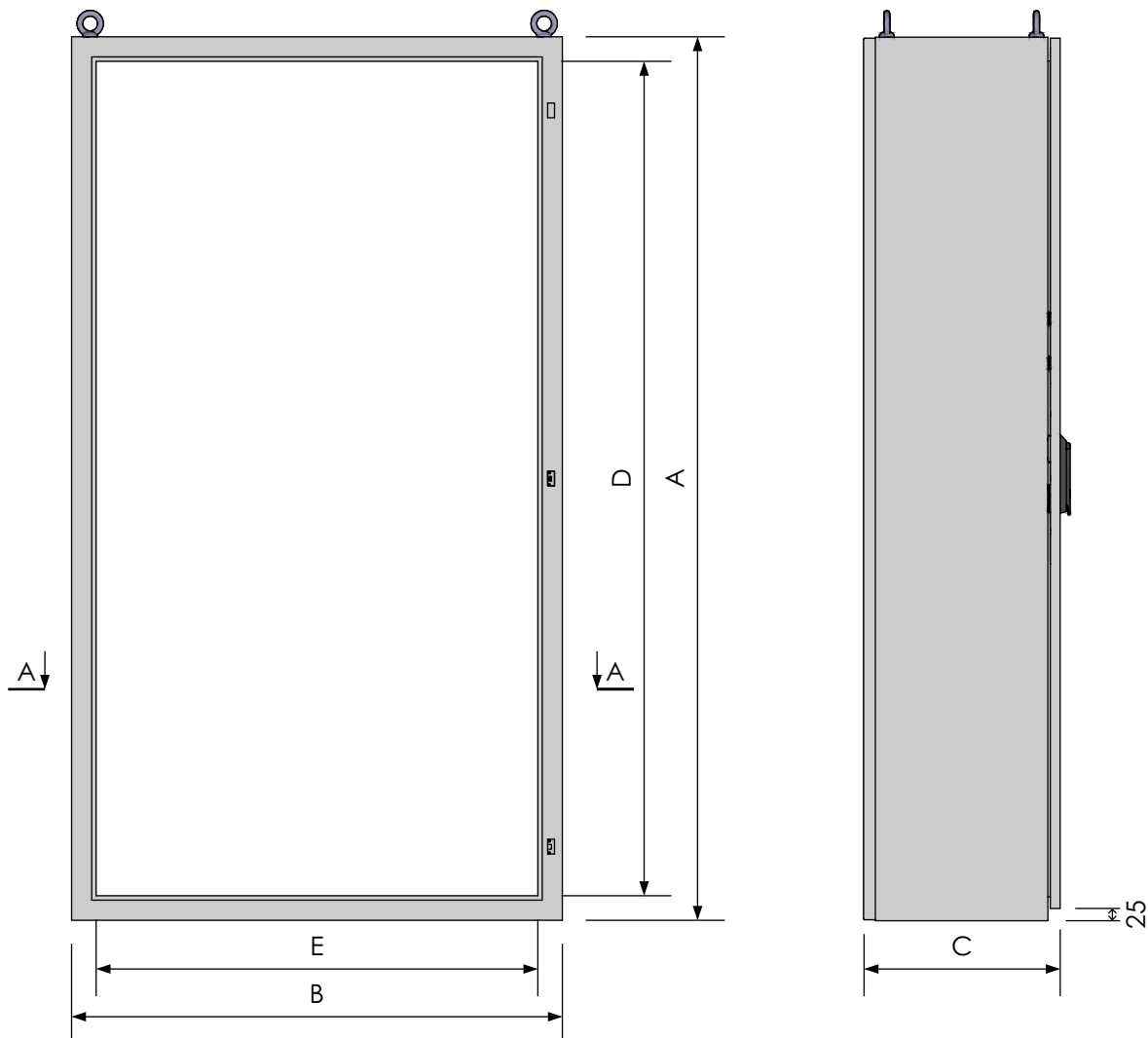


Width dimensions [mm]				
B	600	800	1000	1200
Z	566	766	966	1166

B - enclosure width (W)
Z - beam length

Material thickness 2,0 mm.
 Openings for cage nuts M4 - M6.

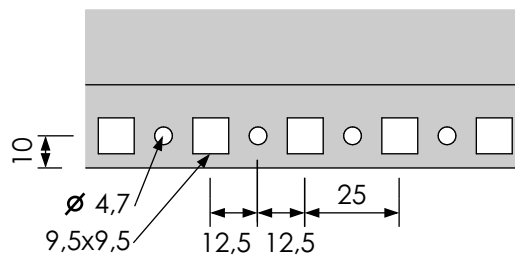
Basic enclosure dimensions



Mounting opening in frame

- for mounting of additional mechanics
- avg. 4.7 mm is prepared for self-drilling screws ST 5,5 mm
- opening 9,5x9,5 mm are prepared for cage nuts M4 - M6

DETAIL Z



Height dimensions [mm]				
A	1600	1800	2000	2200
D	1496	1696	1896	2096

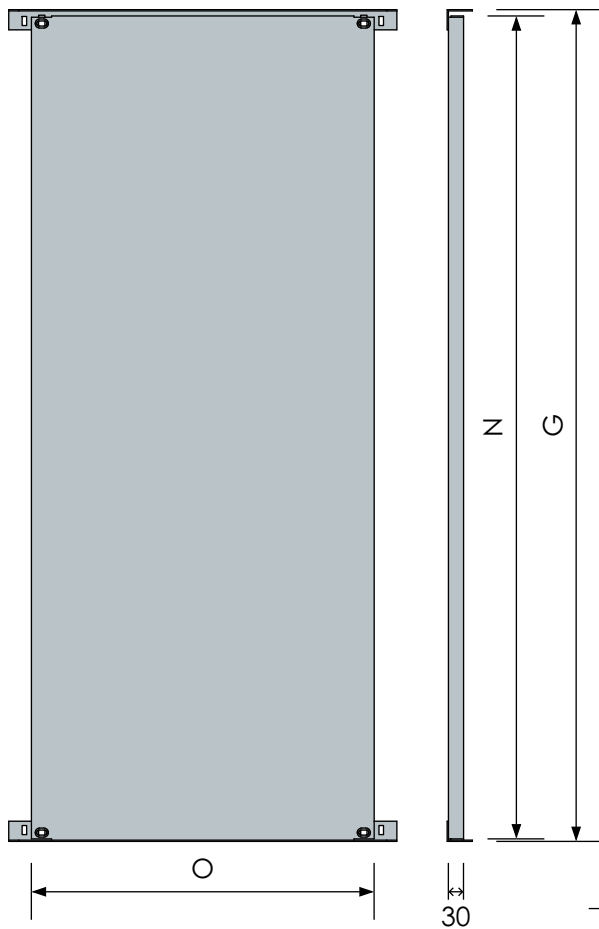
Width dimensions [mm]				
B	600	800	1000	1200
E	496	696	896	1096
H	525	725	925	1125

Depth dimensions [mm]			
C	400	600	800
I	305	505	705

- AxBxC** - basic enclosure dimensions
DxE - basic enclosure inlet opening
HxI - anchorage enclosure dimensions

Grounding bolts M6.

Mounting plate



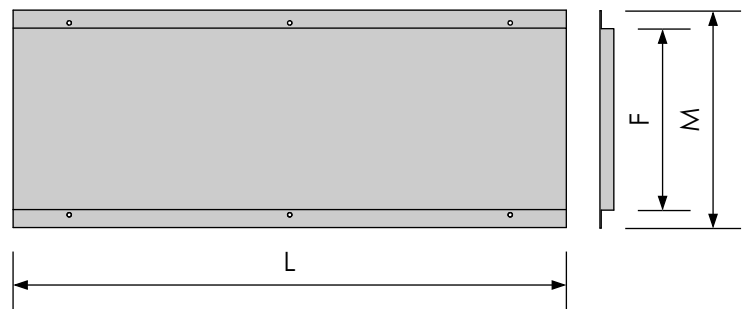
Height dimensions [mm]				
A	1600	1800	2000	2200
G	1450	1650	1850	2050
N	1435	1635	1835	2035

Width dimensions [mm]				
B	600	800	1000	1200
O	480	680	880	1080

AxB - basic enclosure dimension (HxW)
GxY - mounting openings distance
NxO - mounting plate dimensions

Material thickness 2,5 mm.
 Grounding bolts M6.

Bottom cover



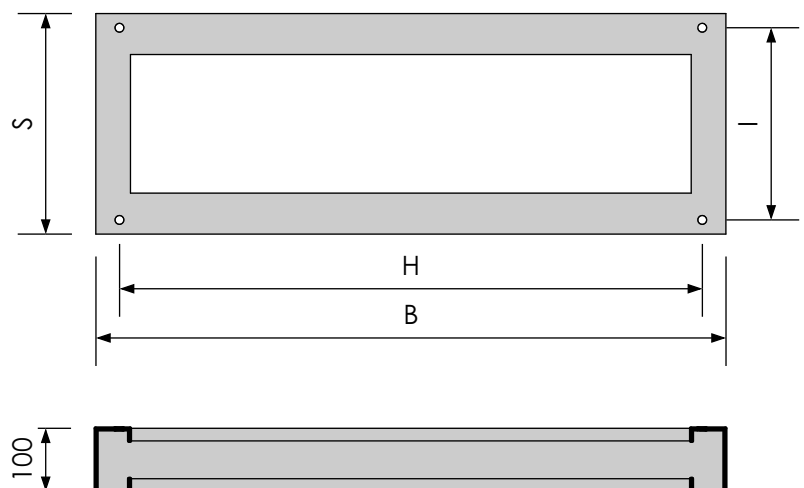
Width dimensions [mm]				
B	600	800	1000	1200
L	478	678	878	1078

Depth dimensions [mm]			
C	400	600	800
F	1450	1650	1850
M	1435	1635	1835

BxC - basic enclosure dimensions (WxD)
LxM - bottom cover dimensions
F - utilizable bottom cover depth

Material thickness 2,0 mm.
 Grounding bolt M6.

Stand



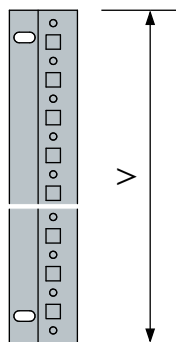
Width dimensions [mm]				
B	600	800	1000	1200
H	525	725	925	1125

Depth dimensions [mm]			
C	400	600	800
I	305	505	705
S	350	550	750

BxC - basic enclosure dimension (WxD)
HxI - anchorage enclosure dimensions
BxS - stand dimensions

Stand height 100 mm.
 Material thickness 2,0 mm.

Vertical rear beam

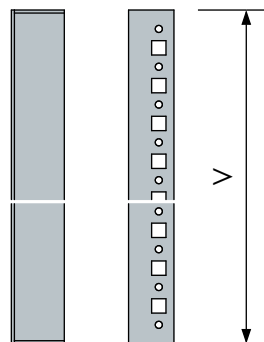


Height dimensions [mm]				
A	1600	1800	2000	2200
V	1443	1643	1843	2043

A - enclosure height (H)
V - beam height

Material thickness 2,0 mm.
 Openings for cage nuts M4 - M6.
 Openings for self-drilling screws ST 5,5 mm.

Vertical beam

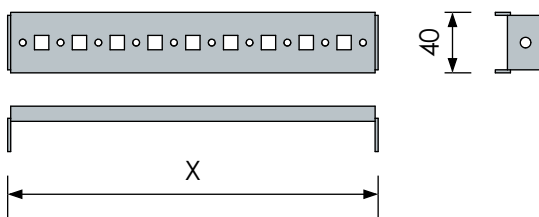


Height dimensions [mm]				
A	1600	1800	2000	2200
V	1450	1650	1850	2050

A - enclosure height (H)
V - beam height

Material thickness 2,0 mm.
 Openings for cage nuts M4 - M6.
 Openings for self-drilling screws ST 5,5 mm.

Side beam

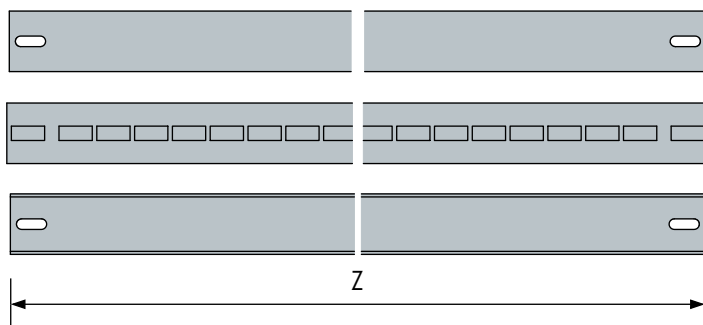


Depth dimensions [mm]			
C	400	600	800
X	245	445	645

C - enclosure depth (D)
X - beam length

Material thickness 2,0 mm.
 Openings for cage nuts M4 - M6.

SONAP holder

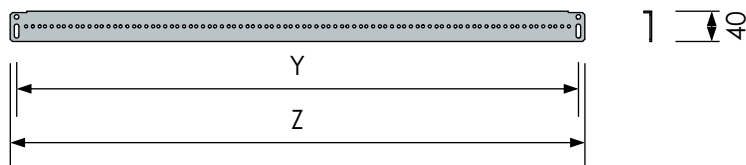


Width dimensions [mm]				
B	600	800	1000	1200
Z	566	766	966	1166

B - enclosure width (W)
Z - beam length

Material thickness 2,0 mm.
 Openings for cage nuts M4 - M6.

Cableduct holder

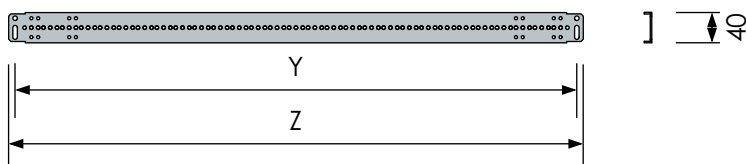


Width dimensions [mm]				
B	600	800	1000	1200
Y	543	743	943	1143
Z	560	760	960	1160

B - enclosure width (W)
Y - beam length for mounting
Z - beam length

Material thickness 2,0 mm.
 Openings for mounting of plastic rivets for cableducts.

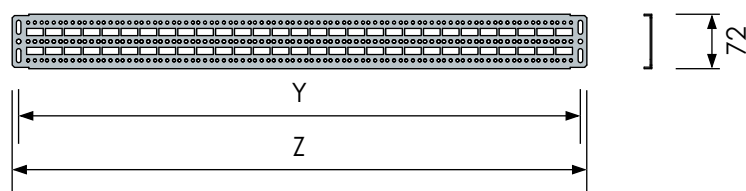
Device beams



Width dimensions [mm]				
B	600	800	1000	1200
Y	543	743	943	1143
Z	560	760	960	1160

B - enclosure width (W)
Y - beam length for assembling
Z - beam length

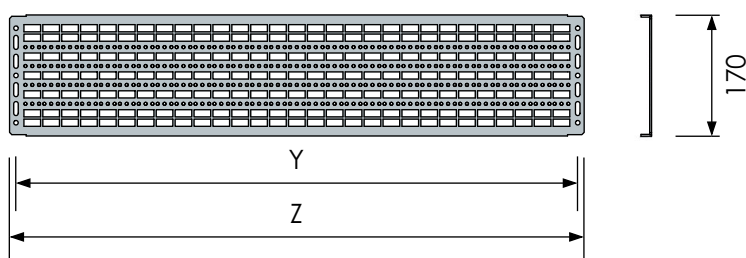
Material thickness 2,0 mm.
 Openings for mounting of plastic rivets for cableduct.
 Openings for self-drilling screws ST 5,5 mm.



Width dimensions [mm]				
B	600	800	1000	1200
Y	543	743	943	1143
Z	560	760	960	1160

B - enclosure width (W)
Y - beam length for assembling
Z - beam length

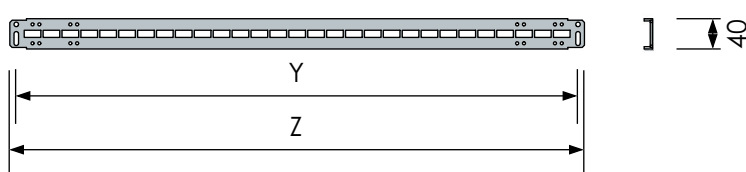
Material thickness 2,0 mm.
 Openings for mounting of plastic rivets for cableduct.
 Openings for self-drilling screws ST 5,5 mm.
 Openings for cage nuts M4 - M6.



Width dimensions [mm]				
B	600	800	1000	1200
Y	543	743	943	1143
Z	560	760	960	1160

B - enclosure width (W)
Y - beam length for assembling
Z - beam length

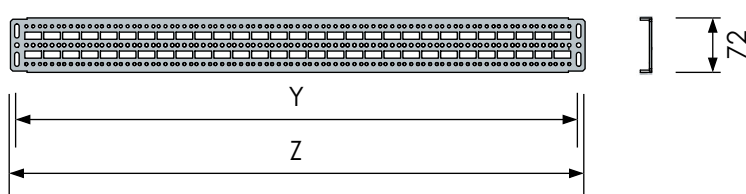
Material thickness 2,5 mm.
 Openings for mounting of plastic rivets for cableduct.
 Openings for self-drilling screws ST 5,5 mm.
 Openings for cage nuts M4 - M6.



Width dimensions [mm]				
B	600	800	1000	1200
Y	543	743	943	1143
Z	560	760	960	1160

B - enclosure width (W)
Y - beam length for assembling
Z - beam length

Material thickness 3,0 mm.
 Openings for mounting of plastic rivets for cableduct.
 Openings for cage nuts M4 - M6.



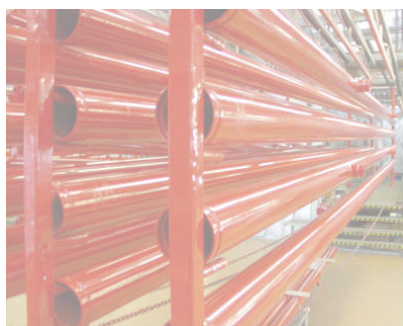
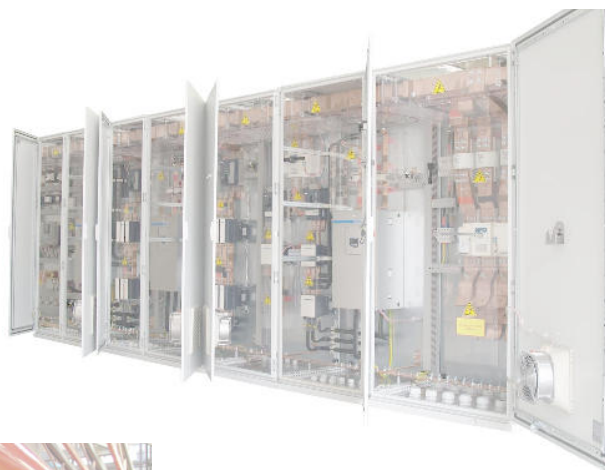
Width dimensions [mm]				
B	600	800	1000	1200
Y	543	743	943	1143
Z	560	760	960	1160

B - enclosure width (W)
Y - beam length for assembling
Z - beam length

Material thickness 3,0 mm.
 Openings for mounting of plastic rivets for cableduct.
 Openings for self-drilling screws ST 5,5 mm.
 Openings for cage nuts M4 - M6.

Company activities

- Construction and production of series electrical enclosures and their accessories
- Custom-made production of atypical electrical enclosures
- Construction and production of LV electrical switchgear cabinets
- Powder coating
- Production of locksmith's units, punching and bending on CNC machines
- OEM production



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