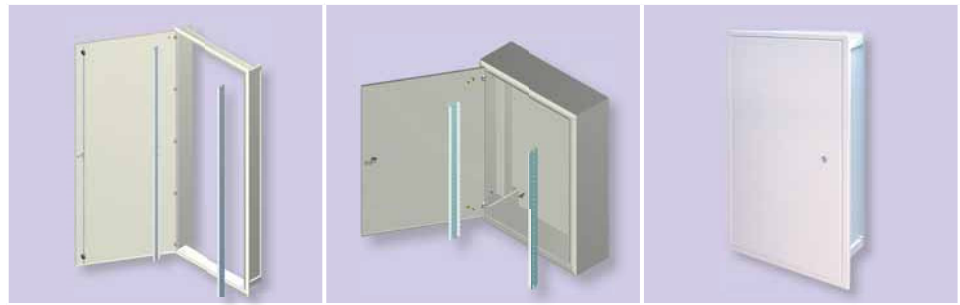


SUMMARY OF MODELS


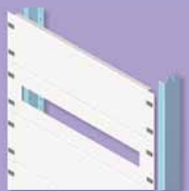





Type	DZ	DN	DZ...EI30S
Design	steel-sheet	steel-sheet	steel-sheet with fire resistance
Fire resistance	-	-	EI30S
Installation	flush-mounted	wall-mounted	flush-mounted
Degree of protection	IP43	IP43	IP54
Rated values of the used devices	max. 400 A, AC 230/400 V		
Protection class	I		
Standard equipment	modular rails (see pictures above)		

Parameters after completion of the modular system

Total number of modules	72 ÷ 741	72 ÷ 741	72 ÷ 455
Total number of electrometer plates	2 ÷ 20	2 ÷ 20	2 ÷ 12

Accessories - modular system

<p>"U" rails</p> 	<p>for modular device fastening, height 35 mm, depth 15 mm</p>
<p>Covers</p> 	<p>with cut-out 45 mm or without cut-out, height 50 to 450 mm</p>
<p>Device rails</p> 	<p>for device fastening, e.g. moulded case circuit breakers, contactors and fuse switch-disconnectors, rail height 50 to 130 mm, mounting depth of devices 38 to 130 mm</p>
<p>Sliding brackets</p> 	<p>for setting the depth of the device rails</p>
<p>Electrometer plates</p> 	<p>2 to 5 meter places next to each other</p>

DESCRIPTION

Description of cabinet and modular system

Frame

- welded from steel-sheet thick 1.3 mm (DZ); 1.5 mm (DN, DZ...EI30)
- earthing points for connection of earth conductor

Modular system - modular rails (part of enclosures supply)

- steel-sheet of thickness 1.5 mm

Modular system - "U" rails (accessories)

- according to EN 60715

Modular system - device rails (accessories)

- steel-sheet of thickness 2 mm, rail height 50, 100 mm
- installation by means of sliding brackets PD-D-...DP...

Door

- steel-sheet of thickness 1.5 mm
- left, easily modifiable to right
- earthing points for connection of protective conductor
- opening door 120°
- in design with fire resistance EI30S it is equipped with fire-proof sealing plate GREMAT
- double door from internal width 910 mm

Closing

- 3 ÷ 5 rows 1 quarter turn lock (female square 6 x 6 mm)
- 7 ÷ 9 rows 2 quarter turn locks (female square 6 x 6 mm)
- 11 ÷ 13 rows three-point bar closure (internal square 6 x 6 mm)
- Three-point closure is used for all fire-resistant designs

Closure

- closing by turning by 90°
- sealing option



Modular system - covers (accessories)

- plastic of thickness 3 mm
- with cut-out 45 mm, covers height 150 mm
- without cut-out, covers height 50, 150, 300, 450 mm
- fastening by means of quick-acting closures with handles

Modular system - electrometer plates (accessories)

- on the entire width of the cabinet
- 2 ÷ 5 electrometer plates side-by-side
- galvanized steel sheet of 1 mm thickness
- electrometer plate reinforcement
- cable grommets

OEZ configurator can be used for specification of the enclosures and accessories.

FIRE RESISTANT STEEL-SHEET FLUSH-MOUNTED ENCLOSURES DZ...EI30S



DZ54-2405-EI30S

The fire stoppings of enclosures are manufactured according to EN 1634-1 and EN 13501-2 (Fire classification of construction products and building elements).

Basic description

- For building, residential and similar installations.
- Suitable for installation of Minia, Modeion, Varius, Conteo devices.
- The enclosure are normally equipped with modular rails for installation of device rails and covers.
- Fire resistance EI,30.
- Smoke control S_f/S_m (intrusion of cold and hot smoke).
- Degree of protection IP54.
- Three-point bar closure.
- The package contains:
 - frame
 - door
 - modular rails
 - fastening material.

Purchase order example:

Order code	Type	Product name	pcs
OEZ:42727	DZ54-2407-EI30S	Flush-mounted enclosure DZ, fire resistance EI30S, delivered with modular rails	1
OEZ:39504	PD-D-1E224	Electrometer plate, height 400 mm, approved for use in PRE, ĆEZ, E.ON	1
OEZ:39462	PD-D-KM01524	Cover for modular system DZ without cut-out, height 150 mm	2
OEZ:39466	PD-D-KM03024	Cover for modular system DZ without cut-out, height 300 mm	1
OEZ:39454	PD-D-KMV01524	Cover for modular system DZ with cut-out, height 150 mm	1
OEZ:39500	PD-D-L35-VU24	"U" rail TH35-15, depth 15 mm	4
OEZ:39354	PD-R-ZAS1000-S	Blind plate, grey (RAL 7035), 55 modules	1
OEZ:39732	PD-D-UM5P	Sealing screws, 4 pcs in set	1

OEZ configurator can be used for specification of the enclosures.

FIRE RESISTANCE CERTIFICATION EI30S

The product has been certified in the authorized testing laboratory PAVUS a.s. (Authorized body no. 216, Notified body no. 1391) Prosecká 412/74, 190 00 Praha 9 - Prosek.

Selection table


Frame internal dimensions		Number of modules in a row	Number of rows height 150 mm	Max. total number of modules	Door design *)	Number of meters in a row	Max. number of rows of electric meters	Type	Order code	Weight [kg]	Package [pcs]
height [mm]	width [mm]										
550	514	24	3	72	1K	2	1	DZ54-2403-EI30S	OEZ:42724	25	1
750			5	120			1	DZ54-2405-EI30S	OEZ:42725	30	1
950			6	144			2	DZ54-2406-EI30S	OEZ:42726	36	1
1 150			7	168			2	DZ54-2407-EI30S	OEZ:42727	42	1
1 350			9	216			3	DZ54-2409-EI30S	OEZ:42728	47	1
1 750			11	264			4	DZ54-2411-EI30S	OEZ:42730	59	1
550	714	35	3	105	1K	3	1	DZ54-3503-EI30S	OEZ:42732	36	1
750			5	175			1	DZ54-3505-EI30S	OEZ:42733	42	1
950			6	210			2	DZ54-3506-EI30S	OEZ:42734	47	1
1 150			7	245			2	DZ54-3507-EI30S	OEZ:42735	53	1
1 350			9	315			3	DZ54-3509-EI30S	OEZ:42736	59	1
1 750			11	385			4	DZ54-3511-EI30S	OEZ:42738	70	1
1 950			13	455			4	DZ54-3513-EI30S	OEZ:42739	76	1

1 module = 18 mm

*) Door 1K - single, door 2K - double

FIRE RESISTANT STEEL-SHEET FLUSH-MOUNTED ENCLOSURES DZ...EI30S

Specifications

Type	DZ...EI30S	
Standards	EN 60439-1, EN 60439-3, EN 62208	
Approval marks		
Colour	grey (RAL7035)	
Degree of protection	DZ54...EI30S	IP54
Degree of protection against external mechanical impacts	IK08	
For circuits up to rated voltages	U_n	AC 1 000 V, DC 1 500 V
For circuits up to rated current	I_n	400 A
Place of use	indoor	
Sea level	max. 1 000 m	
Protection class	I	
Door	opening	standardly left, easily modifiable to right
	design	non-transparent
Material	steel sheet	
Mounting	flush-mounted	
Fire resistance	EI _{2,30} for DZ54...EI30S	
Smoke control	S ₂ /S _m for DZ54...EI30S	

Type designation



Power loss and static load

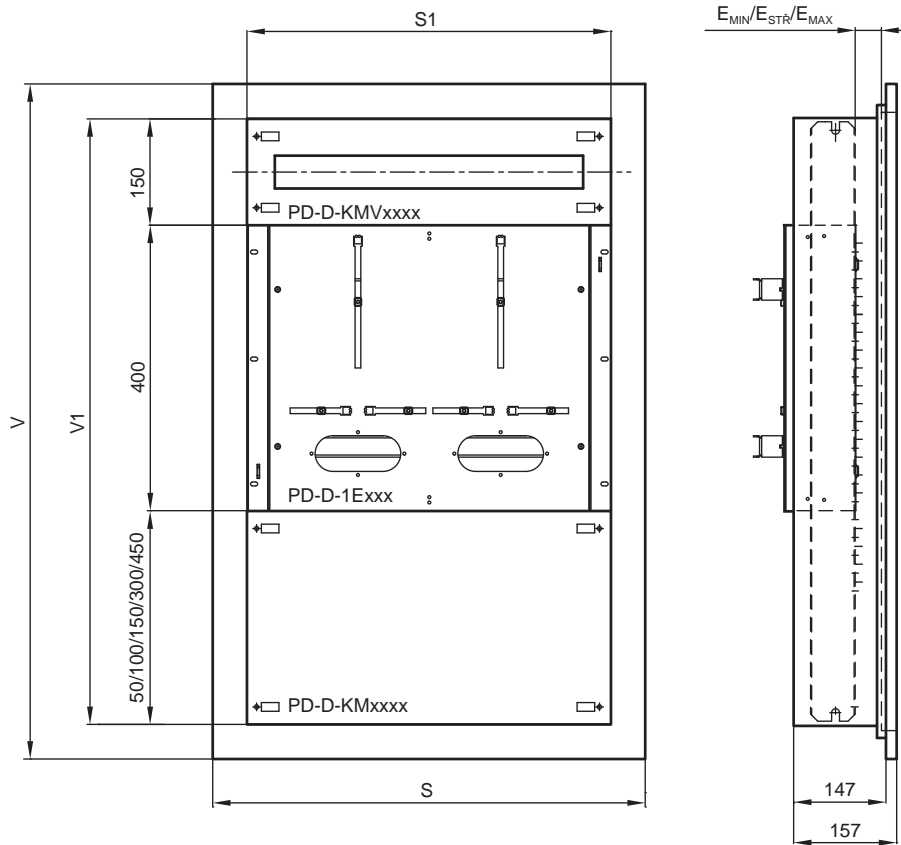
Type of fire resistant wall-mounted enclosure	Power loss *) [W]	Static load of enclosures **) [kg]
DZ54-2403-EI30S	56	11.7
DZ54-2405-EI30S	72	15.8
DZ54-2406-EI30S	88	19.4
DZ54-2407-EI30S	104	23.1
DZ54-2409-EI30S	120	26.9
DZ54-2411-EI30S	152	34.6
DZ54-3503-EI30S	72	15.6
DZ54-3505-EI30S	93	20.7
DZ54-3506-EI30S	113	25.8
DZ54-3507-EI30S	134	30.9
DZ54-3509-EI30S	155	35.9
DZ54-3511-EI30S	196	46.0
DZ54-3513-EI30S	217	51.1

*) Power loss dissipated by the surface of the enclosure according to IEC 890 + A1 - A method of temperature-rise assessment by extrapolation for partially type-tested assemblies (PTTA) of low-voltage switchgear and control gear, $\Delta T = 15$ K (difference between internal and external temperature).

**) Static load of door DZ43... 0 kg (no load).

FIRE RESISTANT STEEL-SHEET FLUSH-MOUNTED ENCLOSURES DZ...EI30S

Flush-mounted



Dimensions in installation of modular rails:

- in position E_{min} = 51.5 mm the depth of the opening for embedding is 150 mm
- in position E_{str} = 70.0 mm the depth of the opening for embedding is 162 mm
- in position E_{max} = 88.5 mm the depth of the opening for embedding is 181 mm
- with sliding brackets PD-xxDP50 in position E_{max} = 88.5 mm the depth of the opening for embedding is 240 mm
- with sliding brackets PD-xxDP100 in position E_{max} = 88.5 mm the depth of the opening for embedding is 292 mm
- with electrometer plates in position E_{str} = 70.0 mm the depth of the opening for embedding is 250 mm

The enclosure „EI30S“ must be embedded and perfectly sealed on perimeter by the building material!

Type of enclosure	V [mm]	S [mm]	V1 - height for covering [mm]	S1 [mm]
DZ54-2403-EI30S	673	678	550	514
DZ54-2405-EI30S	873		750	
DZ54-2406-EI30S	1 073		950	
DZ54-2407-EI30S	1 273		1 150	
DZ54-2409-EI30S	1 473		1 350	
DZ54-2411-EI30S	1 873		1 750	
DZ54-3503-EI30S	673	878	550	714
DZ54-3505-EI30S	873		750	
DZ54-3506-EI30S	1 073		950	
DZ54-3507-EI30S	1 273		1 150	
DZ54-3509-EI30S	1 473		1 350	
DZ54-3511-EI30S	1 873		1 750	
DZ54-3513-EI30S	2 073		1 950	

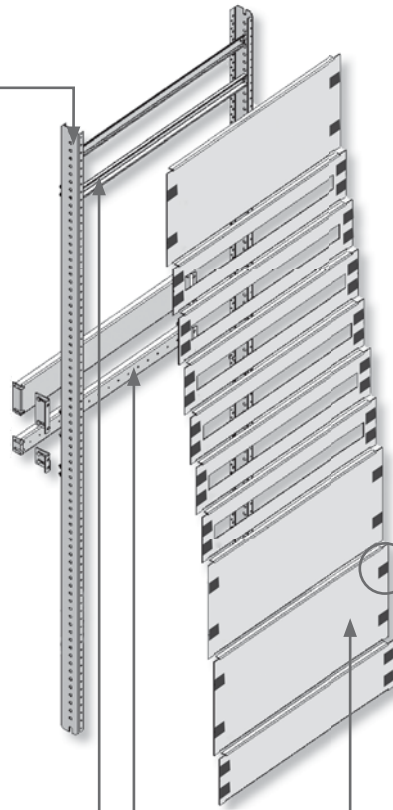
Hole for immuration [mm]	
Height	Width
626	631
826	
1 026	
1 226	
1 426	
1 826	831
626	
826	
1 026	
1 226	
1 426	2 026
1 826	

ACCESSORIES OF DZ, DN, DZ...EI30S

Description of modular system

Modular system - modular rails
(part of enclosures supply)

- steel-sheet of thickness 1.5 mm



Closure

- closing by turning by 90°
- sealing option



Modular system - "U" rails
(accessories)

- according to EN 60715

Modular system - device rails
(accessories)

- steel-sheet of thickness 2 mm, rail height 50, 100 mm
- installation by means of sliding brackets PD-D-...DP...

Modular system - covers
(accessories)

- plastic of thickness 3 mm
- with cut-out 45 mm, covers height 150 mm
- without cut-out, covers height 50, 150, 300, 450 mm
- fastening by means of quick-acting closures with handles

Modular system - electrometer plates
(accessories)

- on the entire width of the cabinet
- 2 ÷ 5 electrometer plates side-by-side
- galvanized steel sheet of 1 mm thickness
- electrometer plate reinforcement
- cable grommets

OEZ configurator can be used for specification of the enclosures and accessories.

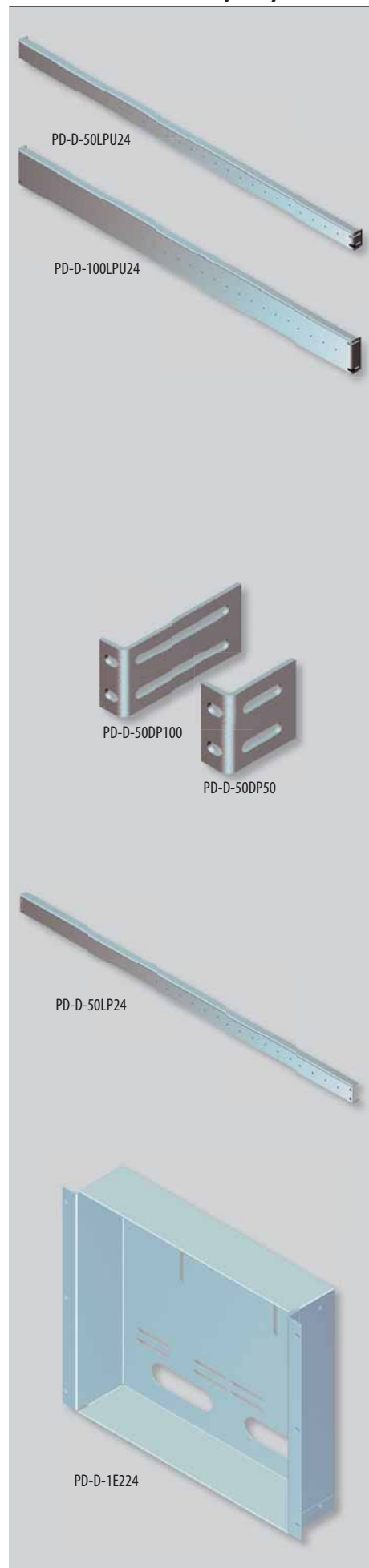


"U" rails

- Intended for device fastening.
- "U" rails according to EN 60715 of width 35 mm.
- Surface finishing by zinc plating.
- The package contains:
 - 1 rail
 - fastening material.

For enclosure		Rail height [mm]	Type	Order code	Weight [kg]	Package [pcs]
of internal width [mm]	modules in a row					
510	24	15	PD-D-L35-VU24	OEZ:39500	0.2	1
710	35		PD-D-L35-VU35	OEZ:39501	0.3	1
910	46		PD-D-L35-VU46	OEZ:39502	0.4	1
1 110	57		PD-D-L35-VU57	OEZ:39503	0.4	1

ACCESSORIES OF DZ, DN, DZ...EI30S



Device rails

- Common for DZ, DN, DZ...EI30S.
- Intended for device fastening.
- Device rail fastening by means of sliding brackets to modular rails.
- Steel sheet of thickness 2 mm.
- Surface finishing by zinc plating.
- PD-D-50LPU.. perforated for "U" rail fastening.
- The package contains:
 - 1 rail
 - fastening material.

For enclosure		Rail height [mm]	Type	Order code	Weight [kg]	Package [pcs]
of internal width [mm]	modules in a row					
510	24	50	PD-D-50LP24	OEZ:39719	0.7	1
		100	PD-D-100LP24	OEZ:39720	1.1	1
		130	PD-D-130LP24	OEZ:41312	1.4	1
710	35	50	PD-D-50LP35	OEZ:39721	0.9	1
		100	PD-D-100LP35	OEZ:39722	1.2	1
		130	PD-D-130LP35	OEZ:41313	1.6	1
910	46	50	PD-D-50LP46	OEZ:39723	1.3	1
		100	PD-D-100LP46	OEZ:39724	1.9	1
		130	PD-D-130LP46	OEZ:41314	2.3	1
1 110	57	50	PD-D-50LP57	OEZ:39725	1.5	1
		100	PD-D-100LP57	OEZ:39726	2.3	1
		130	PD-D-130LP57	OEZ:41315	2.8	1

Rails PD-D-130LPU.. are fastened by means of sliding brackets PD-D-100DP..

Sliding brackets

- Serve for adaptation of the mounting depth of devices.
- The package contains:
 - 2 brackets
 - fastening material.

Type	Order code	For rails	Depth [mm]	Weight [kg]	Package [pcs]
PD-D-50DP50	OEZ:39494	PD-D-50LPU..	50	0.10	1
PD-D-50DP100	OEZ:39495		100	0.12	1
PD-D-100DP50	OEZ:39757	PD-D-100LPU..	50	0.20	1
PD-D-100DP100	OEZ:39758	PD-D-130LPU..	100	0.24	1

Device rails

- Common for DZ, DN, DZ...EI30S.
- Intended for devices or "U" rails fastening.
- Device rail fastening directly to modular rails.
- Steel sheet of thickness 2 mm.
- Surface finishing by zinc plating.
- The package contains:
 - 1 rail
 - fastening material.

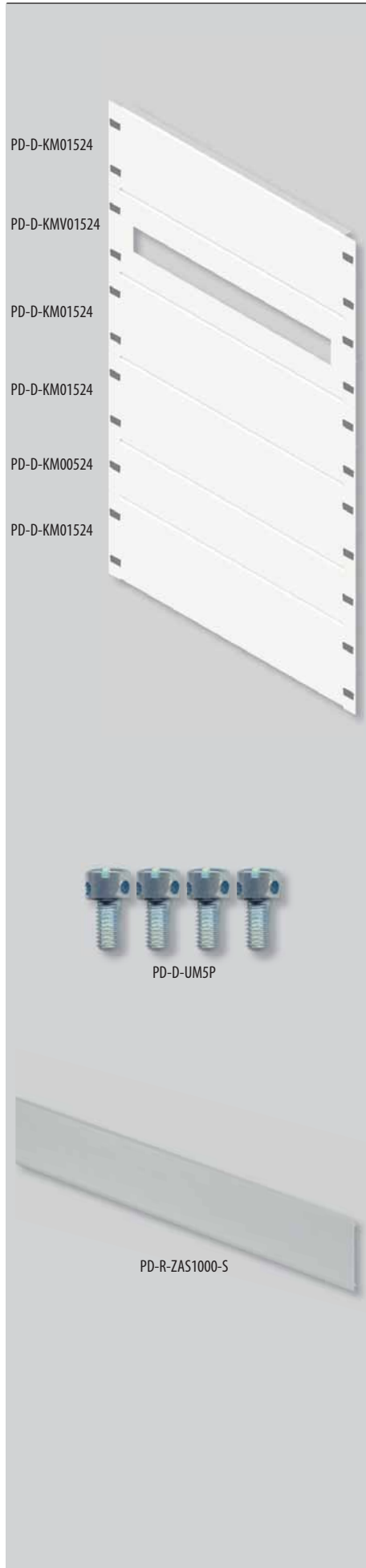
For enclosure		Rail height [mm]	Type	Order code	Weight [kg]	Package [pcs]
of internal width [mm]	modules in a row					
510	2	50	PD-D-50LP24	OEZ:39474	0.7	1
710	3		PD-D-50LP35	OEZ:39479	0.9	1
910	4		PD-D-50LP46	OEZ:39484	1.3	1
510	2		PD-D-50LP57	OEZ:39489	1.5	1

Electrometer plates

- Serve for installation of electric meters in the enclosure DZ, DN, DZ...EI30S.
- Equipped with sealing places.
- Steel-sheet thickness 1 mm.
- Surface finishing by zinc plating.
- The package contains:
 - 1 electrometer plate
 - 2 sealing screws
 - plastic bushes
 - fastening material.

For enclosure		Type	Order code	Tank height [mm]	Weight [kg]	Package [pcs]
of internal width [mm]	number of meters in a row					
510	2	PD-D-1E224	OEZ:39504	400	2.8	1
710	3	PD-D-1E335	OEZ:39505	400	3.2	1
910	4	PD-D-1E446	OEZ:39506	400	3.6	1
1 110	5	PD-D-1E557	OEZ:39507	400	4.2	1
510	2	PD-D-1E224-450	OEZ:39759	450	3.0	1

ACCESSORIES OF DZ, DN, DZ...EI30S



Covers

- Serve for covering the devices.
- Plastic of thickness 2 mm with cut-out of 45 mm or without cut-out, for coverage of e.g. terminals or empty place.
- Grey RAL7035.
- Overall height for coverage is identical to the internal height of the enclosure.
- The package contains:
 - 1 cover
 - fastening material.

For enclosure		Cover height [mm]	Cover design	Type	Order code	Cut-out width [mm]	Weight [kg]	Package [pcs]
of internal width [mm]	modules in a row							
510	24	50	without cut-out	PD-D-KM00524	OEZ:39598	432	0.13	1
710	35		without cut-out	PD-D-KM00535	OEZ:39599	630	0.15	1
910	46		without cut-out	PD-D-KM00546	OEZ:39600	828	0.23	1
1 110	57		without cut-out	PD-D-KM00557	OEZ:39601	1 026	0.26	1
510	24	100	without cut-out	PD-D-KM01024	OEZ:39458	432	0.25	1
710	35		without cut-out	PD-D-KM01035	OEZ:39459	630	0.31	1
910	46		without cut-out	PD-D-KM01046	OEZ:39460	828	0.45	1
1 110	57		without cut-out	PD-D-KM01057	OEZ:39461	1 026	0.51	1
510	24	150	cut-out 45 mm	PD-D-KMV01524	OEZ:39454	432	0.24	1
710	35		cut-out 45 mm	PD-D-KMV01535	OEZ:39455	630	0.28	1
910	46		cut-out 45 mm	PD-D-KMV01546	OEZ:39456	828	0.35	1
1 110	57		cut-out 45 mm	PD-D-KMV01557	OEZ:39457	1 026	0.45	1
510	24	150	without cut-out	PD-D-KM01524	OEZ:39462	432	0.26	1
710	35		without cut-out	PD-D-KM01535	OEZ:39463	630	0.35	1
910	46		without cut-out	PD-D-KM01546	OEZ:39464	828	0.50	1
1 110	57		without cut-out	PD-D-KM01557	OEZ:39465	1 026	0.56	1
510	24	300	without cut-out	PD-D-KM03024	OEZ:39466	432	0.48	1
710	35		without cut-out	PD-D-KM03035	OEZ:39467	630	0.66	1
910	46		without cut-out	PD-D-KM03046	OEZ:39468	828	0.97	1
1 110	57		without cut-out	PD-D-KM03057	OEZ:39469	1 026	1.08	1
510	24	450	without cut-out	PD-D-KM04524	OEZ:39470	432	0.94	1
710	35		without cut-out	PD-D-KM04535	OEZ:39471	630	1.05	1
910	46		without cut-out	PD-D-KM04546	OEZ:39472	828	1.10	1
1 110	57		without cut-out	PD-D-KM04557	OEZ:39473	1 026	2.10	1

Sealing screws

- Serve for sealing the electrometer plates and covers for modular systems.
- The package contains:
 - 4 sealing screws M5x10.

Type	Order code	Weight [kg]	Package [sets]
PD-D-UMSP	OEZ:39732	0.015	1

Blind plates

- Serve for coverage of unused 45 mm cut-outs in the modular covers.
- Material - plastic.
- The package contains:
 - 1 blind plate.

Colour	Number of modules	Type	Order code	Weight [kg]	Package [pcs]
Grey (RAL7035)	55	PD-R-ZAS1000-S	OEZ:39354	0.142	1

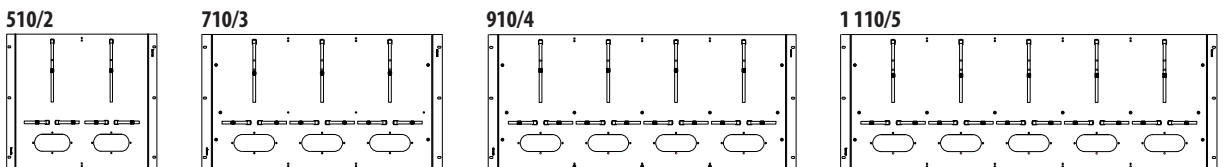
Spare parts

Type	Order code	Description	Weight [kg]	Package [pcs]
ND-D-M8P	OEZ:41329	cage nut for fastening vertical rails, set of 10 pcs, for DZ, DN	0.09	1
ND-D-UR3	OEZ:38548	closures for modular covers, set of 10 pcs, for DZ, DN	0.14	1
ND-D-PD	OEZ:41167	hinge for DZ43, DN43, 1 pc	0.01	1

EXAMPLES OF FITTING OF THE ENCLOSURES DZ, DN, DZ...EI30S

Internal height (mm)		Flush-mounted DZ			
550	100		150		
	150				
	150				
	150				
750	150		150		
	150				
	150				
	150				
	150				
950	50		100		
	150		150		
	150				
	150				
	150				
	150				
	150				
150	150				
1150	100		150		
	150		150		
	150		150		
	150				
	150				
	150				
	150				
	150				
150	150				
150	150				
1350	150		50		
	150		150		
	150		150		
	150		150		
	150		150		
	150				
	150				
	150				
	150				
	150				
150	150				
150	150				

Electrometer plates: enclosure internal width / number of meters in a row



EXAMPLES OF FITTING OF THE ENCLOSURES DZ, DN, DZ...EI30S

Internal height (mm)				Flush-mounted DZ			
1550	50		100		150		50
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
1750	100		150		50		100
	150		150		150		150
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
1950	150		50		100		150
	150		150		150		150
	150		150		150		150
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		
	150		150		150		

Wall-mounted enclosures DN - total height for covering = (cabinet height- 100 mm).