



 **DKC**

 **RAM
BOX**

"RAM box" – polycarbonate industrial boxes

Industrial boxes "RAM box" are made from polycarbonate. This material has high resistance to mechanical impact, corrosion and flame.

Polycarbonate advantages:

- resistance to mechanical impact
- resistance to corrosion
- resistance to flame (self extinguishing)
- UV resistant
- high IP rating (IP67)
- total insulation
- light weight and comfortable installation
- temperature resistant

"RAMbox" series advantages:

- range of boxes includes 144 different types
- transparent covers
- possibility to build modular construction (removable walls)
- opportunities to install different devices inside box
- compatibility with other DKC production series (such as Octopus, Express and so on)
- good choice of accessories

Applications:

- distribution boards
- industry
- elevator devices
- outside illumination
- outside security systems
- ventilation systems
- railroads, electrical urban transport



Range Main components

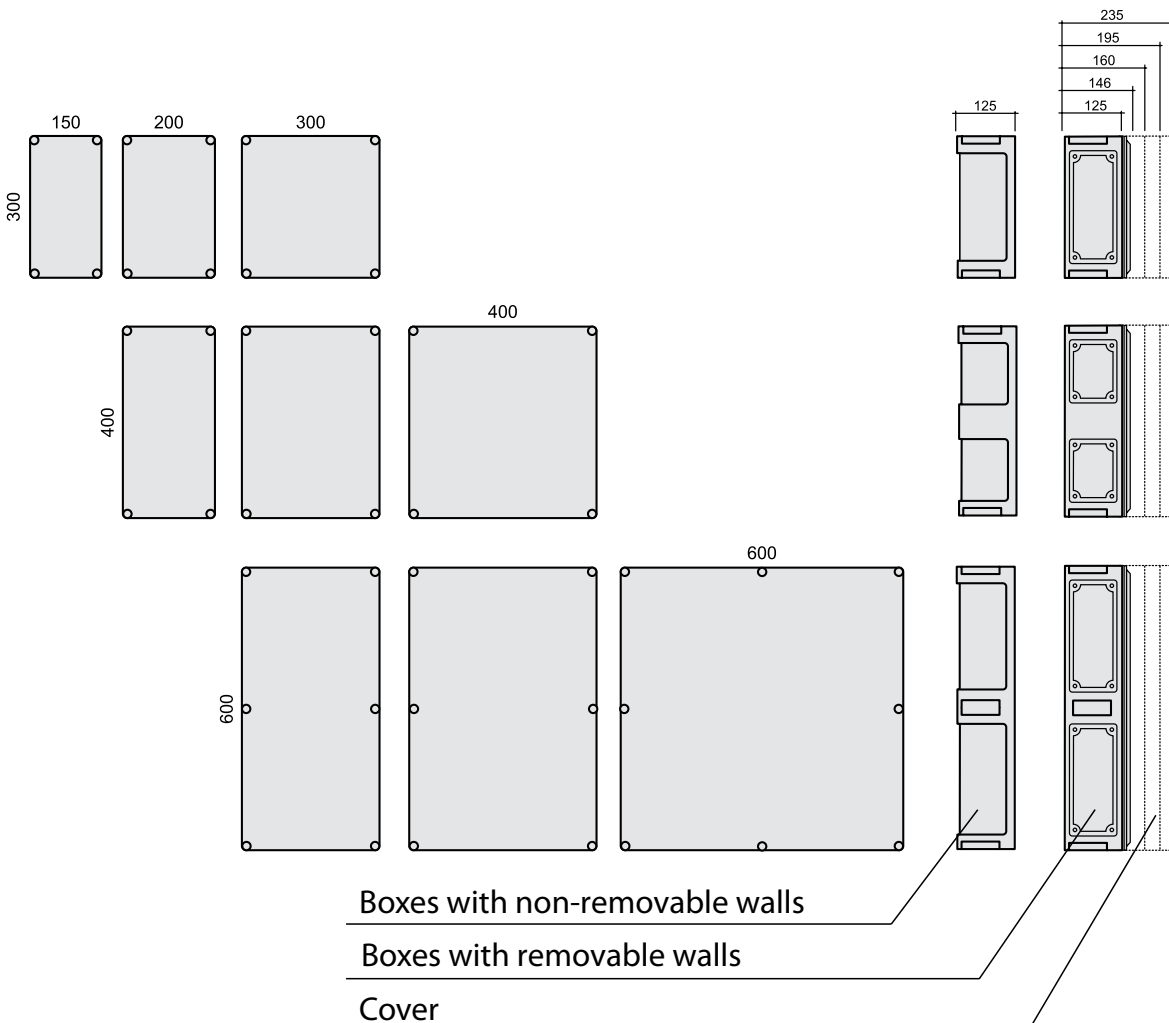
Standard color of RAMbox main components is RAL 7035 (gray) (except covers made from transparent polycarbonate).

Base

RAM box range includes 9 dimensions of bases. Bases have the same height (125 mm)
 RAM box range includes 9 dimensions of bases. Bases have the same height (125 mm) but they vary in length and width. Also there are 2 types: with removable walls and with non-removable walls. You can build modular constructions for panel building using boxes with removable walls.
 All base dimensions (length and width) are divisible by 100. This way projection and panel building of modular construction are very comfortable.
 There are slots for threaded inserts (M6) on the bottom of base to obtain fast and comfortable fixing of DIN-rails, mounting plates or other equipment.

Cover

You can purchase the box with different height of cover (21, 35, 70, 110 mm) if you need to vary the height of box. There are covers made from transparent or opaque polycarbonate.
 Polyurethane gasket provides high IP rating (IP67).
 Cover is fixed on base by captive screws (except cover with height 21 mm)



Characteristics		
IP rating	IP 67	
IK rating	IK 08 (6 Joule)	
Insulation class	II	
Box material	Policarbonato	
Gasket material	Poliuretano	
Temperature range for mounting	-40°C +60°C	
Temperature range for operation	-80°C +100°C	
For short time	up to +120° C	
Working voltage/Normal voltage	650V / 1000V	
	For gray opaque polycarbonate	For transparent polycarbonate
Color	gray RAL 7035	-
CFlame resistance	V0	V2
Hot-wire ignition test	960°C	750°C

Main technical characteristics of polycarbonate

Parameter	Method	Unit of Measure	Opaque PC	Transparent PC
Density	ISO 1183	g/cm ³	1,21	1,20
Tension Modulus	ISO 178	MPa	2400	2400
Rupture Resistance	ISO 178	MPa	95	95
Extension Coefficient	ISO 527	MPa	60	60
Failure elongation	ISO 527	%	>100	>100
Impact Resistance (Izod notched specimen 3,2 mm 23° C)° C	ISO 180/4a	J/M	500-700	500-700
Impact Resistance (Izod notched specimen 3,2 mm -30° C)° C	ISO 180/4a	J/M	100-180	100-180
Vicat Softening Temperature 9,8 H	ISO 306/A	°C	150-155	150-155
Vicat Softening Temperature 49 H	ISO 306/B	°C	140-145	140-145
Thermal Degradation Temperature	ISO R 75	°C	138	138
Reduction Temperature	-	°C	> 260	> 260
	IEC 216	°C	115	115
Dielectric constant 106Hz	DIN 53483		3.0	3.0
Breakdown strength	DIN 53481	KV/mm	35	35
Surface resistance	DIN 53482	Ohm	10 ¹⁴	10 ¹⁴

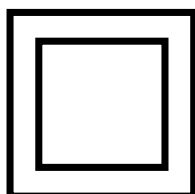
Polycarbonate resistance to chemical injury

Medium	Strength, %	Temperature, 0°C	PC
acetone		20	X
ammonia		20	X
benzol		20	X
distilled water		20	*
ethanol	50	20	*
hexane		20	*
natrium hydrete			X
methylene chloride			X
hydrochloric acid	20	20	*
boric acid			*
acetic acid	5	20	*
sulphuric acid	96	20	*
sulphuric acid	30	20	*
medical oil		20	*
methanol	50	20	X
propane			*
benzine		20	*
butyl alcohol	50	20	*
diethyl alcohol		20	X
hydrogen peroxide	20	20	*
carbon tetrachloride		20	X
transformer oil		20	*
potassium permanganat	10	20	*

* - resistant to chemical injury
 X - non-resistant to chemical injury

Standards and certification:

- Russia: - GOST R 51321.1-2000
- NPB 246-97 (Fire resistance)



Decoding of code

You can receive the main information about dimensions and another options of box right from its code.

Exemple:

Code box 531200

Height cover 21 mm



Lenght base
300 mm

Width base
150 mm

1st number	Series type: RAMbox
2nd number	length (the same for base and cover)
3	300 mm
4	400 mm
6	600 mm
2nd number	width (the same for base and cover)
1	150 mm
2	200 mm
3	300 mm
4	400 mm
6	600 mm
4th number	Cover height
2	21 mm
3	35 mm
7	70 mm
9	110 mm
5th number	Type of base
0	Non-removable walls
1	Removable walls
6th number	Type of cover
0	Opaque
1	Transparent

Boxes with opaque cover and non-removable walls


Box height 146 mm (cover height 21 mm, base height 125 mm)	
Code	Dimensions (LxWxH)
531200	300x150x146
532200	300x200x146
533200*	300x300x146
542200	400x200x146
543200*	400x300x146
544200*	400x400x146
563200*	600x300x146
564200*	600x400x146



Box height 160 mm (cover height 35 mm, base height 125 mm)	
Code	Dimensions (LxWxH)
531300	300x150x160
532300	300x200x160
533300	300x300x160
542300	400x200x160
543300	400x300x160
544300	400x400x160
563300*	600x300x160
564300*	600x400x160
566300*	600x600x160



Box height 195 mm (cover height 70 mm, base height 125 mm)	
Code	Dimensions (LxWxH)
531700	300x150x195
532700	300x200x195
533700	300x300x195
542700	400x200x195
543700	400x300x195
544700	400x400x195
563700	600x300x195
564700	600x400x195
566700	600x600x195



Box height 235 mm (cover height 110 mm, base height 125 mm)	
Code	Dimensions (LxWxH)
532900*	300x200x235
533900*	300x300x235
542900*	400x200x235
543900*	400x300x235
544900*	400x400x235
563900	600x300x235
564900	600x400x235
566900*	600x600x235

* On request

Boxes with transparent cover and non-removable walls



Box height 146 mm (cover height 21 mm, base height 125 mm)	
Code	Dimensions (LxWxH)
531201	300x150x146
532201	300x200x146
533201*	300x300x146
542201	400x200x146
543201*	400x300x146
544201*	400x400x146
563201*	600x300x146
564201*	600x400x146



Box height 160 mm (cover height 35 mm, base height 125 mm)	
Code	Dimensions (LxWxH)
531301	300x150x160
532301	300x200x160
533301	300x300x160
542301	400x200x160
543301	400x300x160
544301	400x400x160
563301*	600x300x160
564301*	600x400x160
566301*	600x600x160



Box height 195 mm (cover height 70 mm, base height 125 mm)	
Code	Dimensions (LxWxH)
531701	300x150x195
532701	300x200x195
533701	300x300x195
542701	400x200x195
543701	400x300x195
544701	400x400x195
563701	600x300x195
564701	600x400x195
566701	600x600x195



Box height 235 mm (cover height 110 mm, base height 125 mm)	
Code	Dimensions (LxWxH)
532901*	300x200x235
533901*	300x300x235
542901*	400x200x235
543901*	400x300x235
544901*	400x400x235
563901	600x300x235
564901	600x400x235
566901*	600x600x235

* On request

Boxes with opaque cover and removable walls


Box height 146 mm (cover height 21 mm, base height 125 mm)	
Code	Dimensions (LxWxH)
531210	300x150x146
532210	300x200x146
533210*	300x300x146
542210	400x200x146
543210*	400x300x146
544210*	400x400x146
563210*	600x300x146
564210*	600x400x146



Box height 160 mm (cover height 35 mm, base height 125 mm)	
Code	Dimensions (LxWxH)
531310	300x150x160
532310	300x200x160
533310	300x300x160
542310	400x200x160
543310	400x300x160
544310	400x400x160
563310*	600x300x160
564310*	600x400x160
566310*	600x600x160



Box height 195 mm (cover height 70 mm, base height 125 mm)	
Code	Dimensions (LxWxH)
531710	300x150x195
532710	300x200x195
533710	300x300x195
542710	400x200x195
543710	400x300x195
544710	400x400x195
563710	600x300x195
564710	600x400x195
566710	600x600x195



Box height 235 mm (cover height 110 mm, base height 125 mm)	
Code	Dimensions (LxWxH)
532910*	300x200x235
533910*	300x300x235
542910*	400x200x235
543910*	400x300x235
544910*	400x400x235
563910	600x300x235
564910	600x400x235
566910*	600x600x235

* On request

Boxes with transparent cover and removable walls



Box height 146 mm (cover height 21 mm, base height 125 mm)		
Code	Dimensions (LxWxH)	
531211	300x150x146	
532211	300x200x146	
533211*	300x300x146	
542211	400x200x146	
543211*	400x300x146	
544211*	400x400x146	
563211*	600x300x146	
564211*	600x400x146	



Box height 160 mm (cover height 35 mm, base height 125 mm)		
Code	Dimensions (LxWxH)	
531311	300x150x160	
532311	300x200x160	
533311	300x300x160	
542311	400x200x160	
543311	400x300x160	
544311	400x400x160	
563311*	600x300x160	
564311*	600x400x160	
566311*	600x600x160	



Box height 195 mm (cover height 70 mm, base height 125 mm)		
Code	Dimensions (LxWxH)	
531711	300x150x195	
532711	300x200x195	
533711	300x300x195	
542711	400x200x195	
543711	400x300x195	
544711	400x400x195	
563711	600x300x195	
564711	600x400x195	
566711	600x600x195	



Box height 235 mm (cover height 110 mm, base height 125 mm)		
Code	Dimensions (LxWxH)	
532911*	300x200x235	
533911*	300x300x235	
542911*	400x200x235	
543911*	400x300x235	
544911*	400x400x235	
563911	600x300x235	
564911	600x400x235	
566911*	600x600x235	

* On request

Hinges

Hinges are used when you need to make frequent access inside the box more comfortable. You can install hinges on covers height 35, 70, 110mm

Code	Name
502001	Hinges kit, type 1
502002	Hinges kit, type 2
502003	Hinges kit, type 3



Hinges kit, type 1



Hinges kit, type 2

Kit includes:
Hinges – 2 psc.
Self-tapping screws to install hinges on box – 8 psc.



Hinges kit, type 3



Flange cover

Code	Name	Dimensions
501001	Flange cover type A	73x88
501002	Flange cover type B	123x88
501003	Flange cover type C	223x88

Kit includes:
Flange cover – 1 psc.
Screws to fix cover on box – 4 psc.



Make attention: to keep IP rating you need install gasket (code 501012)

Threaded inserts (M6)

Code	Name	No. in package
501007	Threaded inserts (M6)	10 pcs



Screws M6 (for equipment installation inside box)

Code	Name	No. in package
501010	Screws M6	10 pcs



Screws and nuts to join boxes

Code	Name	No. in package
501013	Screws to join boxes	10 pcs
501014	Nuts to join boxes	10 pcs



Polyurethane gasket for flanges

Code	Name	No. in package
501012	Polyurethane gasket for flanges	3 mt



Cones, IP55



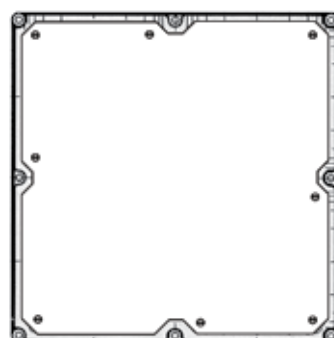
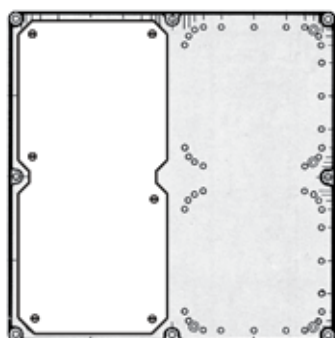
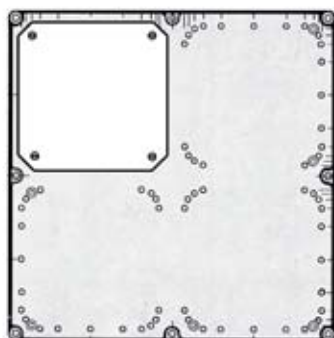
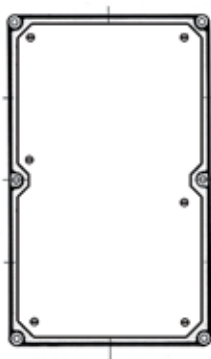
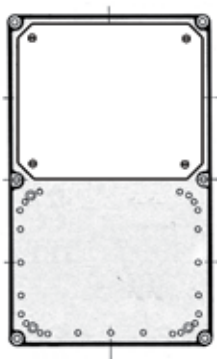
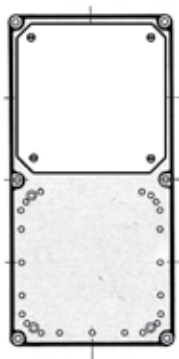
Diameter internal, mm	Diameter mounting hole, mm	Code	No. in package
20	25	54520	200
25	32	54525	100
32	40	54532	100
40	50	54540	100

Mounting Plate



Code	Dimension	Thickness steel
503310	300x150	1,5
503320	300x200	1,5
503330	300x300	1,5
503420	400x200	1,5
503430	400x300	1,5
503440	400x400	1,5
503630	600x300	1,5
503640	600x400	1,5
503660	600x600	1,5

Examples



Installation on wall



Fix the box on wall



Fix the box on wall



General view

Installation cable clips



Drill holes



Install cable clips



Enter the tube or the cable into cable clips

Modular construction building

Make attention to flange size compatibility when you build modular construction.



Move off the plastic from connection screw holes



Move off the flanges



Install threaded inserts



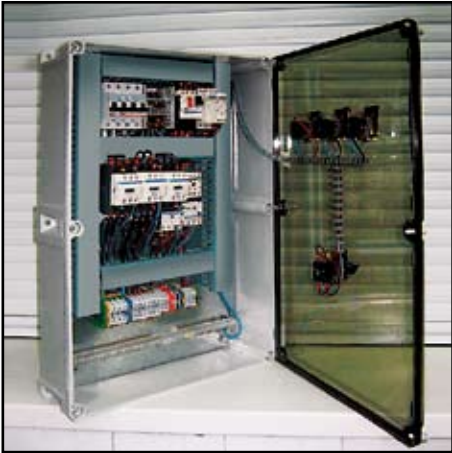
Install gasket to provide IP rating



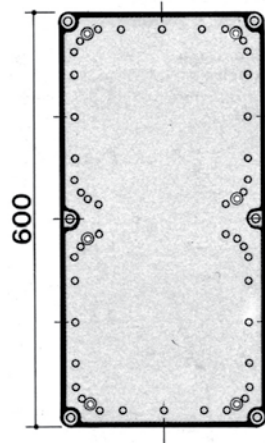
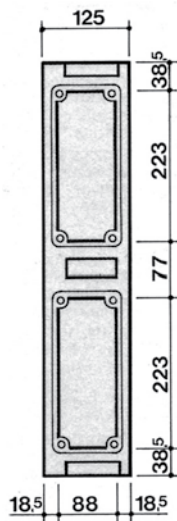
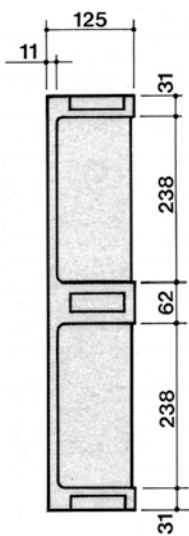
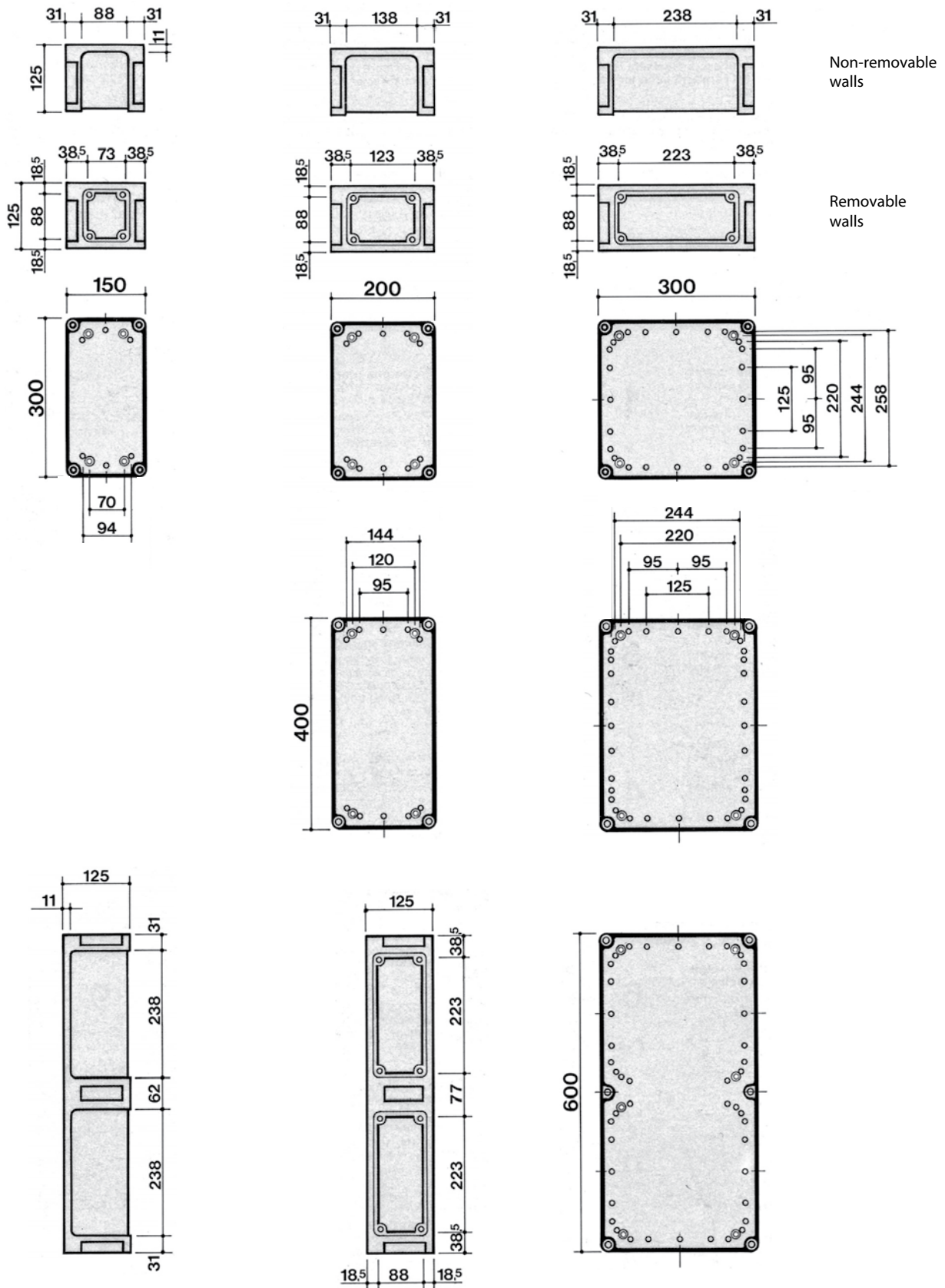
Join the boxes



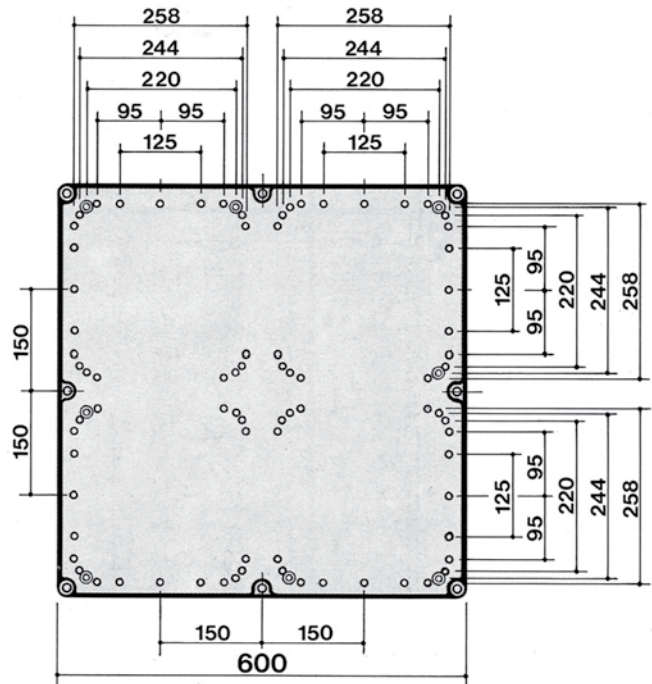
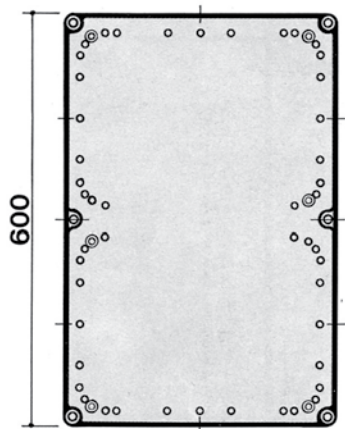
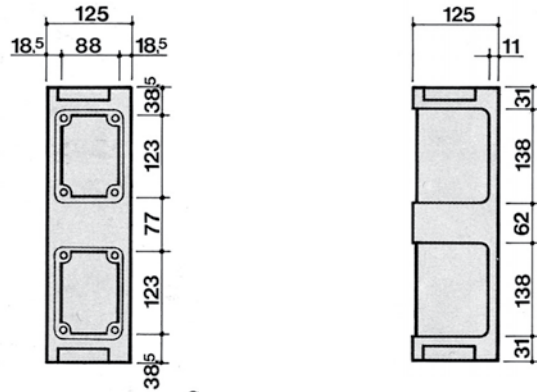
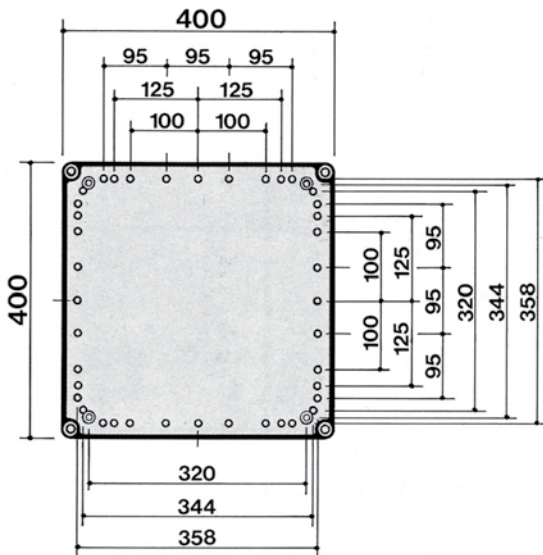
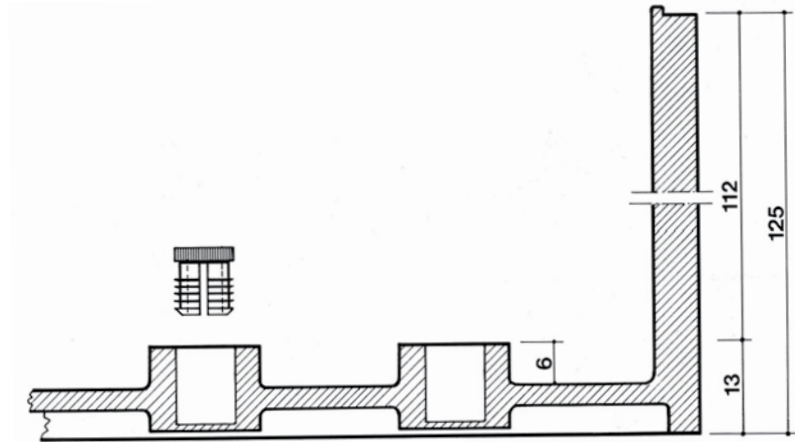
Install connection screws and nuts, Din-rails or buses.



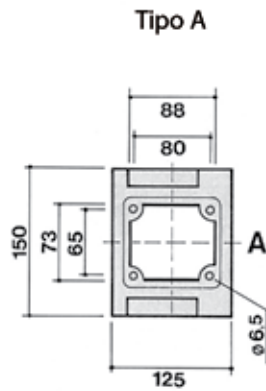
Boxes dimensions



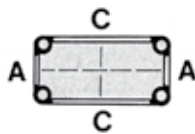
Threaded inserts



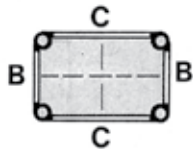
Flange cover



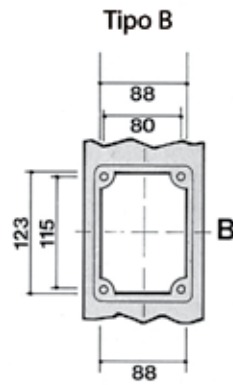
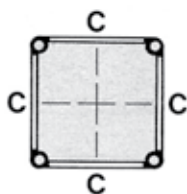
300 x 150 mm



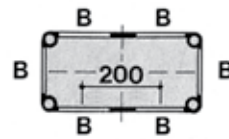
300 x 200 mm



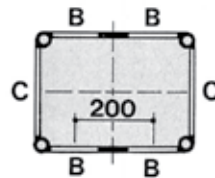
300 x 300 mm



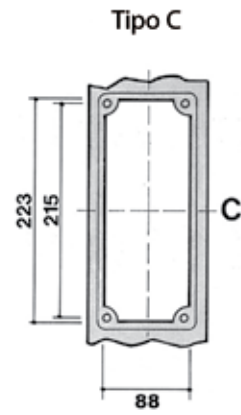
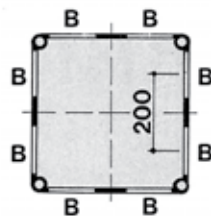
400 x 200 mm



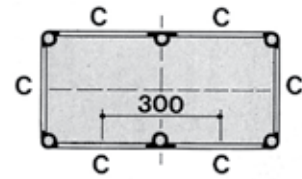
400 x 300 mm



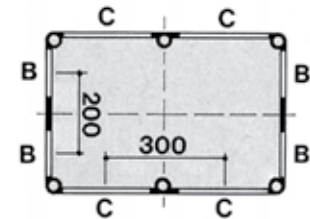
400 x 400 mm



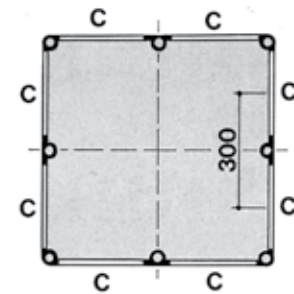
600 x 300 mm



600 x 400 mm

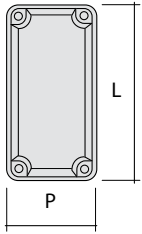


600 x 600 mm

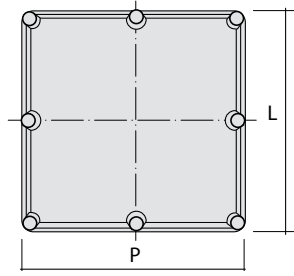
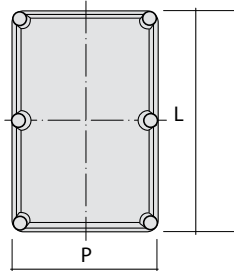
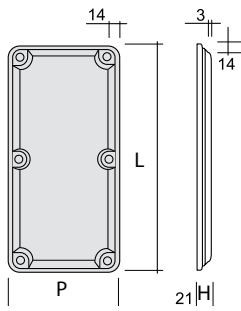
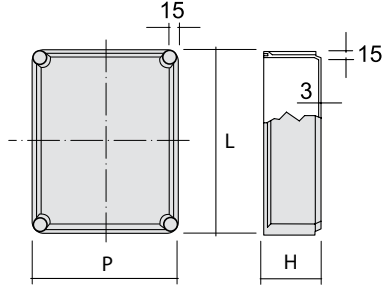


Cover

Height (H) 21 mm

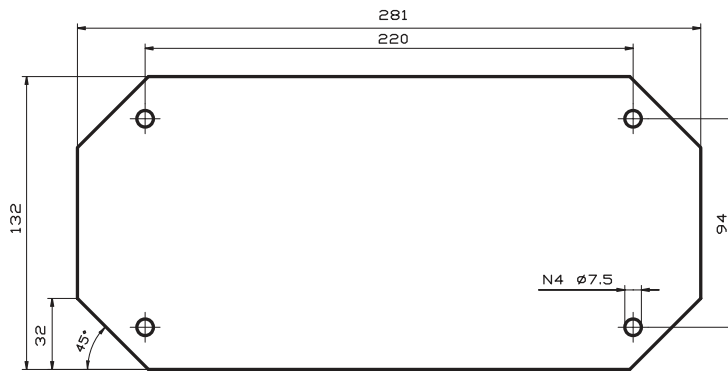


Height (H) 35-70-110 mm

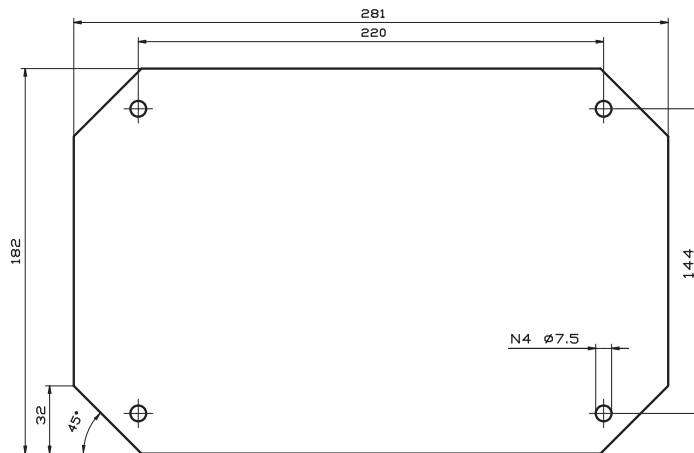


Mounting plate

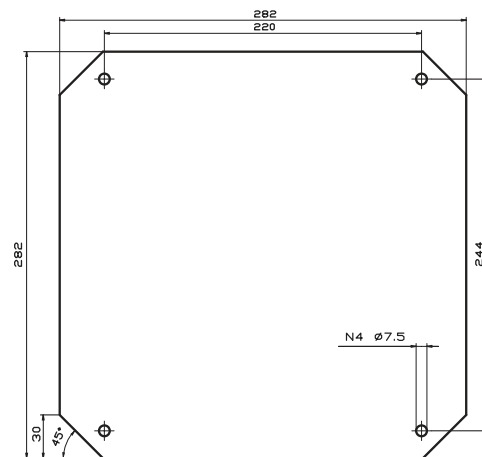
300x150 mm



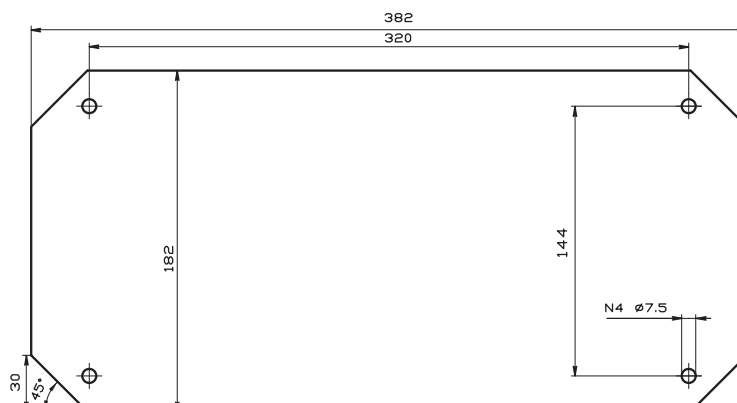
300x200 mm



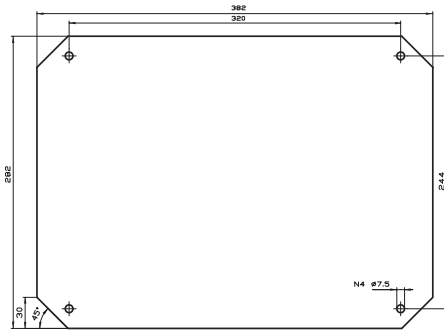
300x300 mm



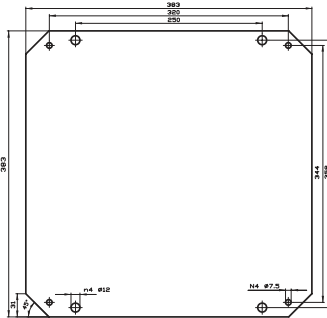
400x200 mm



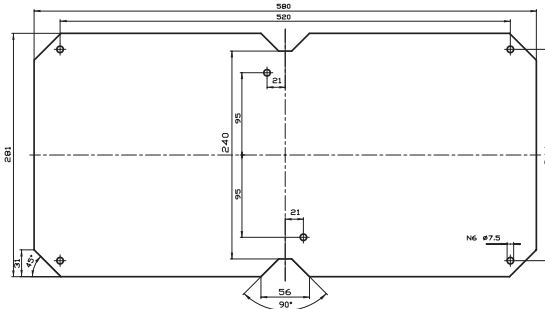
400x300 mm



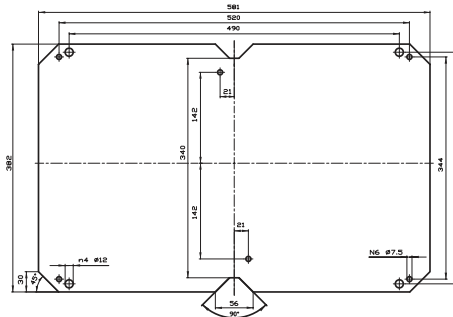
400x400 mm



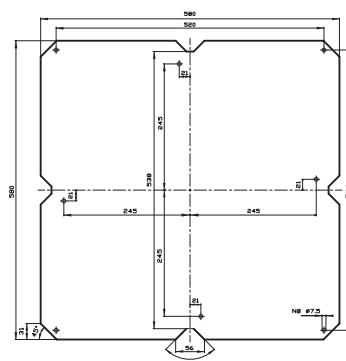
600x300 mm



600x400 mm



600x600 mm



Index

Code	Page	Code	Page	Code	Page
54520	13	533700	6	563300	6
54525	13	533701	7	563301	7
54532	13	533710	8	563310	8
54540	13	533711	9	563311	9
501001	12	533900	6	563700	6
501002	12	533901	7	563701	7
501003	12	533910	8	563710	8
501007	13	533911	9	563711	9
501010	13	542200	6	563900	6
501012	13	542201	7	563901	7
501013	13	542210	8	563910	8
501014	13	542211	9	563911	9
502001	12	542300	6	564200	6
502002	12	542301	7	564201	7
502003	12	542310	8	564210	8
503310	14	542311	9	564211	9
503320	14	542700	6	564300	6
503330	14	542701	7	564301	7
503420	14	542710	8	564310	8
503430	14	542711	9	564311	9
503440	14	542900	6	564700	6
503630	14	542901	7	564701	7
503640	14	542910	8	564710	8
503660	14	542911	9	564711	9
531200	6	543200	6	564900	6
531201	7	543201	7	564901	7
531210	8	543210	8	564910	8
531211	9	543211	9	564911	9
531300	6	543300	6	566300	6
531301	7	543301	7	566301	7
531310	8	543310	8	566310	8
531311	9	543311	9	566311	9
531700	6	543700	6	566700	6
531701	7	543701	7	566701	7
531710	8	543710	8	566710	8
531711	9	543711	9	566711	9
532200	6	543900	6	566900	6
532201	7	543901	7	566901	7
532210	8	543910	8	566910	8
532211	9	543911	9	566911	9
532300	6	544200	6		
532301	7	544201	7		
532310	8	544210	8		
532311	9	544211	9		
532700	6	544300	6		
532701	7	544301	7		
532710	8	544310	8		
532711	9	544311	9		
532900	6	544700	6		
532901	7	544701	7		
532910	8	544710	8		
532911	9	544711	9		
533200	6	544900	6		
533201	7	544901	7		
533210	8	544910	8		
533211	9	544911	9		
533300	6	563200	6		
533301	7	563201	7		
533310	8	563210	8		
533311	9	563211	9		



**Catalogo cassette in policarbonato
01/10**

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