

# Industrial Enclosures

## Insulated wall mounting cabinets



GE imagination at work

Application guide / e-catalogue

B.3 ARIA

B.8 PolySafe

B.22 Superpolyrel 400

Insulated boxes

**Insulated wall mounting cabinets**

Wall mounting system enclosures

Steel wall mounting enclosures

Steel floor standing enclosures

Pedestals

Subterranean enclosures

Climate control

General accessories

General characteristics / Index

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


























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## Overview Insulated wall mounting cabinets

	ARIA IP66	PolySafe IP65	SUPERPOLYREL 400 IP44/IP55
	 300 x 200 x 170	 500 x 500 x 320	
	 400 x 300 x 170	 500 x 750 x 320	 500 x 750 x 400
	 500 x 400 x 230	 750 x 500 x 320	 750 x 500 x 400
	 500 x 400 x 230	 750 x 750 x 320	 750 x 750 x 400
	 600 x 400 x 230	 750 x 1000 x 320	 750 x 1000 x 400
	 700 x 500 x 270	 750 x 1250 x 320	
	 800 x 600 x 300	 1000 x 500 x 320	
	 800 x 600 x 300	 1000 x 750 x 320	 1000 x 750 x 400
	 1000 x 800 x 300	 1000 x 1000 x 320	 1000 x 1000 x 400
		 1000 x 1000 x 320	
		 1000 x 1250 x 320	 1000 x 1250 x 400
		 1250 x 750 x 320	 1250 x 750 x 400
		 1250 x 1000 x 320	
		 1250 x 1000 x 320	 1250 x 1000 x 400

H x W x D in mm

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## Universal polyester cabinets



- Ergonomic closing mechanism
- A two point locking mechanism and operated by swing-handle (for profile half cylinder locks)
- Reducing closing force by 25%
- Patented doorlifter ensuring the door taking it's center position during closing (as from ARIA 75)
- Self-adhesive rainhood as a standard accessory with each cabinet

### Standards

IEC 60439-1	EN 60439-1
IEC 60529	EN 60529
IEC 62208	EN 62208

### Approvals



UL types 3, 3R, 3S, 4, 4X, 12 and 13



CSA types 3, 3R, 3S, 4, 4X, 12 and 13



AS 3132-1991  
Australian Standards

### Features

- The range is available in seven sizes, ranging from 300 x 200 to 1000 x 800 mm.
- The cabinets are made of light-grey (RAL 7035) hot moulded, glass fibre reinforced polyester, dyed in mass. The enclosure is furnished with four threaded studs and bolts for mounting plate or mounting frame installation.
- The enclosure provides total insulation and a protection degree of **IP66** following IEC 60529 and EN 60529.
- Protection degree IK10 against external mechanical impacts according to EN 62262 and IEC 62262 (IK07 for cabinets with glazed door).
- This protection covers the total volume of the enclosure according to EN 62208 and IEC 62208.
- Resists temperatures up to 70°C in continuous use (peak temperatures up to 150°C).
- Self extinguishing and halogen-free.
- Cabinets are maintenance free and corrosion resistant.
- Rated insulation voltage  $U_i = 1000V$ .

### Applications

- Heavy industry
- Steel mills
- Petrochemical plants
- Temporary connection (for construction sites)
- Brewery
- Public services
- Street signalisation



- Overview of the range ● Page B.2
- Dimensional drawings ● Page J.18
- Specifications for tender documents ● Page J.63
- Power dissipation values ● Page J.84



## Universal polyester cabinets

		Type	 ARIA 32	 ARIA 43	 ARIA 54	 ARIA 64
	<b>Cabinet</b>  IP66 - IP10	<b>H x W x D</b>	300 x 200 x 170	400 x 300 x 170	500 x 400 x 230	600 x 400 x 230
	With double bit lock 3 mm	<b>Ref. No.</b>	831025	831035	831809	831810
	With double bit lock 3 mm	<b>Ref. No.</b>	-	831036	831052	831065
	With handle	<b>Ref. No.</b>	-	831034	831051	831064
			one point closing system	one point closing system	two point closing system	two point closing system
				three point closing system	three point closing system	three point closing system
				three point closing system	three point closing system	three point closing system
	<b>Glazed door cabinet</b>	<b>H x W x D</b>	-	400 x 300 x 170	500 x 400 x 230	600 x 400 x 230
	 IP66 - IP07	<b>Ref. No.</b>	-	831128	831812	831813
	With double bit lock 3 mm	<b>Ref. No.</b>	-	831815	831129	831130
	With double bit lock 3 mm	<b>Ref. No.</b>	-	-	-	-
				one point closing system	two point closing system	two point closing system
				three point closing system	three point closing system	three point closing system
	<b>Mounting plates</b>	<b>H x W</b>	250 x 150	350 x 250	450 x 350	550 x 350
	Pertinax 5 mm	<b>Ref. No.</b>	831027	831038	831054	831067
	Sendzimir zinc coated sheet steel 2 mm	<b>Ref. No.</b>	831026	831037	831053	831066
	Metal perforated 1.5 mm	<b>Ref. No.</b>	831332	831333	831334	831335
	<b>Mounting frame</b>	<b>Ref. No.</b>	831030	831041	831057	831070
	Banks		2	2	3	3
	Modules		12	24	54	54
	<b>Rail for terminal blocks</b>	<b>Ref. No.</b>	831018	831019	831020	831020
	Available spaces for terminal		2	3	4	4
	<b>Full cover plates</b>					
	Plain	<b>Ref. No.</b>	831028	831039	831055	831068
	With cut-outs for DIN-rail equipment	<b>Ref. No.</b>	831029	831040	831056	831069
	With cut-out for individual modular cover plates	<b>Ref. No.</b>	-	831790	831791	831792
Number of ind. mod. cover plates containable		-	2	3	3	
	<b>Individual modular cover plates</b> IP20 (PVC)	<b>H x W</b>	-	150 x 239	150 x 343	150 x 343
	Plain	<b>Ref. No.</b>	-	831797 (*)	831799	831801 (**)
	With cut-out for DIN-rail equipment	<b>Ref. No.</b>	-	831796 (*)	831798	831800 (**)
	Modules		-	12	17	18

Pack: 1

(\*) and (\*\*): see page B.6

## Applications

- Industry
- Steel works
- Oil refineries
- Breweries
- Shipyards
- Public utilities



ARIA 75



ARIA 86



ARIA 108

700 x 500 x 270	800 x 600 x 300	1000 x 800 x 300
831811	-	-
two point closing system		
831081	831098	831112
three point closing system	three point closing system	three point closing system
831080	831097	831111
three point closing system	three point closing system	three point closing system
700 x 500 x 270	800 x 600 x 300	1000 x 800 x 300
831814	-	-
two point closing system		
831131	831132	831133
three point closing system	three point closing system	three point closing system
650 x 450	750 x 550	950 x 750
831083	831100	831114
831082	831099	831113
831336	831337	831338
831086	831103	831117
4	4	5
88	112	200
831021	831022	831023
6	7	10
831084	831101	831115
831085	831102	831116
831793	831794	831795
4	8	10
150 x 423	150 x 239	150 x 343
831803	831797 (*)	831801 (**)
831802	831796 (*)	831800 (**)
22	12	18



Universal cabinets

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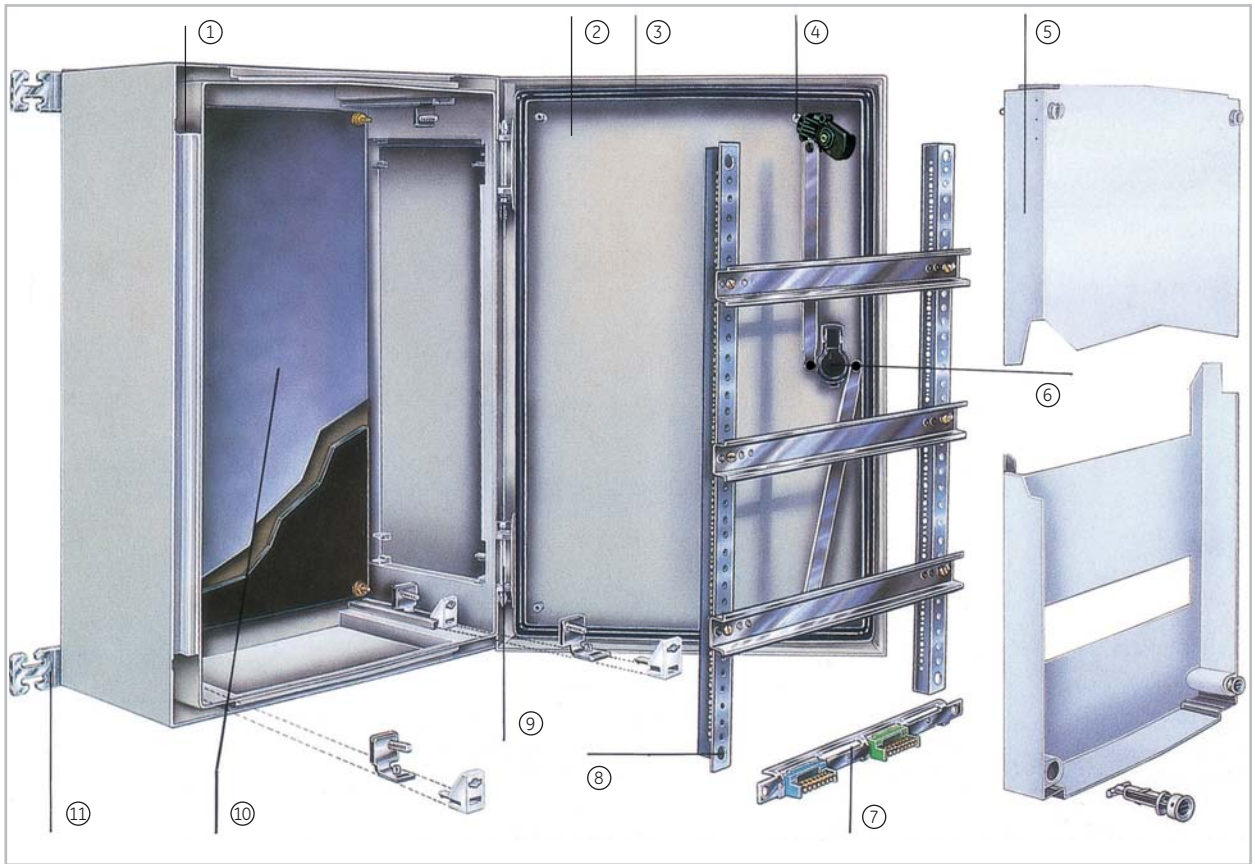
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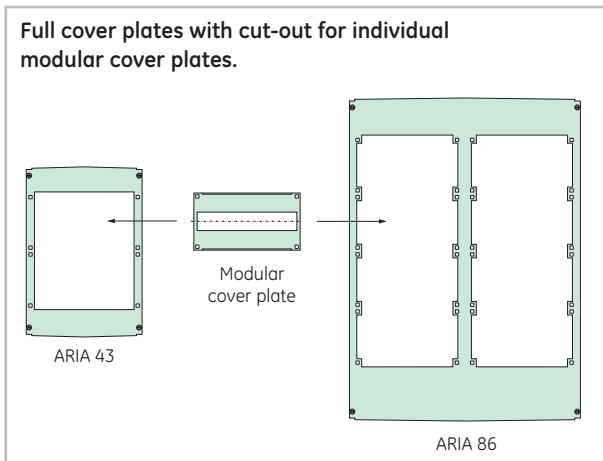
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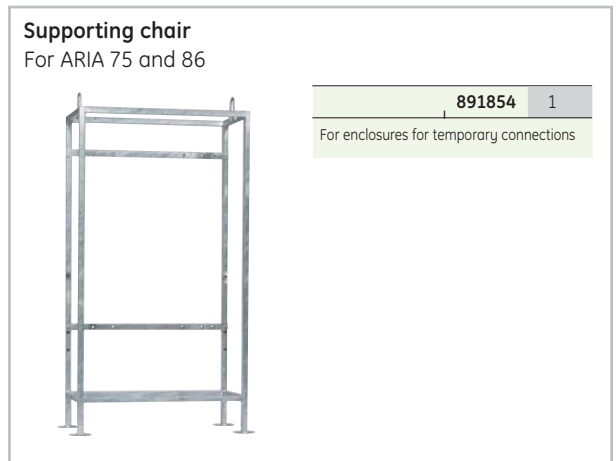




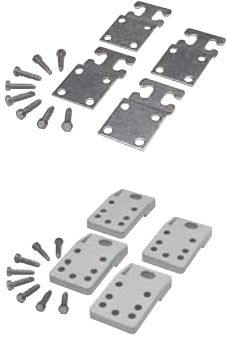
- ① Housing in one piece
- ② Removable door: left- or right-hand hinged
- ③ Slightly curved gasket-slot avoiding stagnant water
- ④ Fixing points at rear of door
- ⑤ Cover plate:
  - polyester RAL 7035
  - hinged
  - independent
  - reversible
  - sealable
  - with snap-on fixing
- ⑥ Three point closing system with one lock. Exchangeable locks.
- ⑦ Independent rail for terminal blocks
- ⑧ Mounting frame
  - removable
  - predrilled
  - reinforced DIN-rails
- ⑨ Integrated hinges. Door opens 180°
- ⑩ Mounting plate
  - metal
  - pertinax
  - perforated
- ⑪ Direct wall fixing points or wall fixing lugs in synthetic material or stainless steel.



The cabinets ARIA 43 and 86 (\*) as well as ARIA 64 and 108 (\*\*) contain the same individual modular cover plates (plain and with cut-out). See page B.4



Accessories




**Fixing lugs**

831000	1
Set of 4 fixing lugs. 304 stainless steel.	
831001	1
Set of 4 fixing lugs in polyamide	




**Hinge supports**

831010	1
Set of 2 hinge supports for cover plate	



**Locks**  
Interchangeable (one key included)

831008	1
3 mm	
831005	1
8 mm	
831006	1
8 mm	
831007	1
11 mm	
Other locks on request.	



**Branch terminals**  
6 x 10 mm<sup>2</sup> + 2 x 16 mm<sup>2</sup>  
to clip on 12 x 2 mm bar

610185	4
Phase bar - black	
610186	4
Earth bar - green	
610187	4
Neutral bar - blue	



**Blanking plate**

610142	4
For 4 modules	
610484	500
For 4 modules	

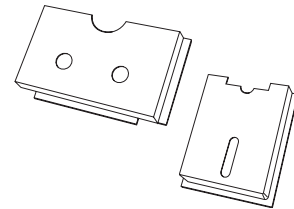
**Marking strip**

851321	1m
Self adhesive	



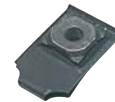
**Document pocket**

811516	1
DIN A4 - W x H = 325 x 180 mm	
832000	1
DIN A5 - W x H = 155 x 225 mm	



**Nuts**  
For perforated mounting plates

831328	50
M4	
831329	50
M5	
831330	50
M6	



**Handles**

① 831003	1
Neutral handle	
① 831004	1
Handle with lock and 2 keys V2432E	
① 831180	1
Handle with lock and 2 keys 1242E	
① 831152	1
Handle with lock and 2 keys 405E	
① 831153	1
Handle with lock and 2 keys 455E	
② 831821	1
Handle for profile half cylinder	
③ 831822	1
Handle for profile half cylinder for padlocking	



**Ventilation grids (IP44)**

831009	1
Set of two ventilation grids Drilling Ø 34,9 mm	



## Multipurpose polyester cabinets



- Ergonomic closing mechanism
- Reducing closing force by 25%
- Patented doorlifter ensuring the door taking it's center position during closing (for bigger dimensions)

### Standards

IEC 60529	EN 60529
IEC 62208	EN 62208
IEC 62262	EN 62262

### Approvals



- Cabinets with one door:  
type 3, 3R, 3S, 4, 4X, 12, 12K and 13
- Cabinets with two doors:  
type 3, 3R, 3S, 4, 4X, 12, 12K and 13
- Coupled cabinets:  
type 3, 3R, 3S, 12, 12K and 13

### Ambient conditions

- Indoor and outdoor stationary use, excluding:
  - arctic conditions below -50°C,
  - excessive heat above +150°C (peak) and excessive height above 2000 m
- Subterranean installation
- Suitable for aggressive and marine or corrosive environments

### Features

- 14 standard dimensions (from 500 x 500 up to 1250 x 1000) in one depth 320 mm
- Cabinets are standard factory assembled (empty or equipped)
- High protection degree **IP65-IK10** (20J) according to IEC 60529 and EN 62262 and IEC 62262 (IP55 - IK07 for cabinets with glazed door)  
This protection covers the total volume of the enclosure according to EN 62208 and IEC 62208.
- Material: self-extinguishing, hot moulded, halogen-free, fiberglass reinforced polyester (environment friendly)
- Colour: grey RAL7035, dyed in mass
- Designed for wall mounting, floor standing and pole fixing
- Coupling possibilities in height, width and depth
- Total insulation
- Door with 5-point latching mechanism
- Execution as pedestal possible
- Rated insulation voltage  $U_i = 1000V$
- Corrosion and maintenance free
- Easy recyclable: no moulded-in metal parts



- Overview of the range ● Page B.2
- Dimensional drawings ● Page J.20
- Specifications for tender documents ● Page J.64
- Power dissipation values ● Page J.86





## Applications

- Commercial**  
 Leisure (market places, camping sites, harbours for pleasure crafts, amusement parks), fuel stations, car washes, laundrettes and laundries, service enclosures for construction yards, ...
- Industrial**  
 Shipyards, mining, automotive, paper and pulp, food and beverage, petro-chemicals, heavy industry, transformers, system monitoring, ...
- Utilities**  
 Water treatment plants, waste management, telecommunications, traffic signaling systems, traffic management, public transport, energy distribution (electricity, gas, water), cable television (CATV), public lighting, railways, ...



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### Rainhood for outdoor use

- Up to IP65, not necessary
- Possibility of ventilation through cut-outs in top panel and air vents on side panels (to prevent internal condensation)
- Protection degree: IP44/IP54 in case of ventilation
- Moulded-in markings on the inside top panel shows the cut-out and fixation points



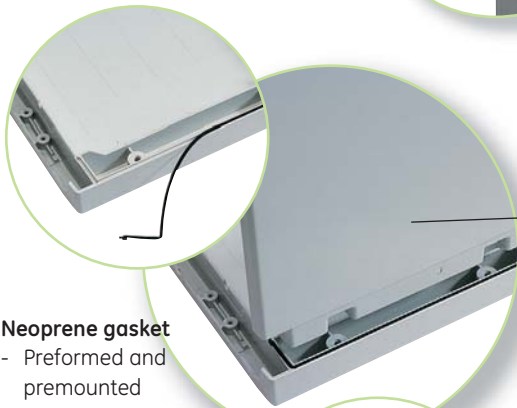
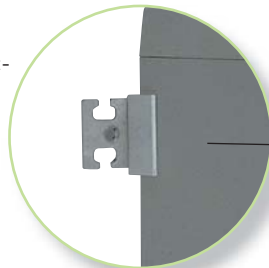
### Backpanel

- Enclosed in main structure
- Has a seamless top panel as a result
- No inserts
- PUR sealing directly injected and responsible for high protection degree IP65



### Wall mounting brackets

- No mounting screws necessary
- Can be mounted vertical or horizontal



### Neoprene gasket

- Preformed and premounted

### Side panels

- Integrated into top and bottom
- Provide a very solid and stable construction



### Floor mounting frame

- Base in polyester (height 65 mm)
- For anchoring the cabinet with the floor
- Moulded-in markings on the inside bottom panel shows the cut-out and fixation points for anchoring



### Mounting plates

- Metal 2 mm
- Pertinax 5 mm
- Metal perforated 2 mm
- Fixed (by means of HiLo) as well as adjustable in depth for all sizes



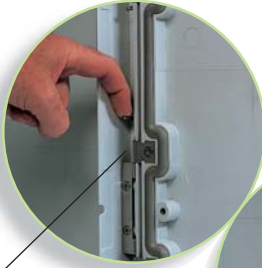
### Mounting frame

- In Alu with standard horizontal Alu C-profiles for all four widths
- Regulation in depth possible for all sizes
- Offering a complete solution (no more sawing necessary)



**Self tapping HiLo screws**

- (no inserts)
- For assembling main structure and fixation of the back panel
  - Makes the cabinet easily dismantled for recycling

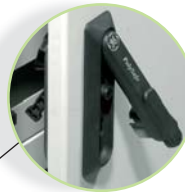


**Hinges**

- Mounted directly on the side panels, each step of 250 mm
- Direct access outside the functional part of the cabinet

**Standard ergonomic operating handle**

- Premounted on the door
- Suitable for all types of profile half cylinder locks (standard depth 40 mm/ alt. depth 45 mm)
- Possibility of padlocking (no access to unauthorised persons)



**Doorlifter**

- For bigger dimensions
- Ensuring the door takes its center position during closing



**Door**

- Flush mounted
- Plain or glazed
- No inserts (HiLo screws)
- Inclosed in main structure
- Has a seamless top panel as a result PUR sealing directly injected results in high protection degree IP65
- Opening angle 100°



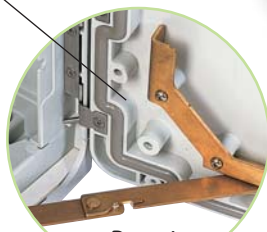
**Standard 5 point latching mechanism**

- Operated by one handle
- Provides secure closing (IP65)
- 3 point mechanism for widths 500 mm



**Doorstop**

Prevents stressing the door hinges caused by wind in outside use



**Door conducting**

For exact door positioning in the main structure



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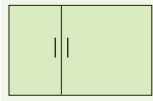
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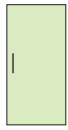
## Multipurpose polyester cabinets

	Depth = 320 mm	PS 220	PS 230	PS 320	PS 330	PS 340
	<p><b>Factory-assembled cabinet IP65</b> Complete with handle and wall mounting brackets of AISI 304 stainless steel (without cylinder lock)</p> <p>Dimensions (H x W)</p> <p>Cabinet with plain door</p> <p>Cabinet with glazed door (polycarbonate window) (IP55)</p> <p>Weight (kg)</p>	500 x 500	500 x 750	750 x 500	750 x 750	750 x 1000
		833000	833004	833008	833012	833016
		833001	833005	833009	833013	833017
		16	19	20	25	30
	<p><b>Mounting plate</b> Dimensions (H - 110 mm x W - 110 mm)</p> <p>Sendzimir zinc coated sheet steel 2 mm</p> <p>Perforated 2 mm</p> <p>Pertinax 5 mm</p> <p>Pertinax 10 mm</p>	833500	833501	833501	833502	833504
		833516	833517	833518	833519	833520
		833508	833509	833509	833510	833512
		-	-	-	-	-
	<p><b>Mounting frame in Alu</b> Consisting out of: four attachment brackets, two vertical C-profiles. Horizontal profiles to be ordered separately, see B.19</p> <p>Continuously adjustable</p> <p>Adjustable in steps of 12,5 mm</p>	833533	833533	833534	833534	833534
		833529	833529	833530	833530	833530
	<p>Length of horizontal profile (mm)</p>	468	718	468	718	968
	<p><b>Depth extension kit IP65</b> To increase the standard depth 320 mm of the cabinet up to 640 mm. The kit consists out of two side panels, one top and bottom panel and two open backpanels.</p>	833584	833585	833586	833587	833588
	<p><b>Rainhood</b> For an efficient ventilation (IP44) in outdoor use by drilling holes in the top panel.</p> <p>As the standard enclosure is IP65, a rainhood is not necessary.</p> <p>In case of extra width or depth, please contact us.</p>	833566	833568	833566	833568	833570
	<p><b>Plinth</b> or floor mounting frame. Cabinet and plinth are anchored together in the flooring - H = 65 mm</p>	833574	833575	833574	833575	833576
	<p><b>Adaptor frame for DIN-base mounting</b> Cabinet and adaptor frame are anchored on the DIN base (polyester or concrete)</p> <p><b>DIN-base</b> For more information, see page F.11</p>	-	833582	-	833582	833583
		-	842100	-	842100	842101





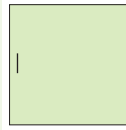
PS 352



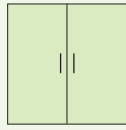
PS 420



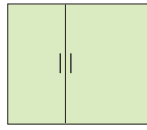
PS 430



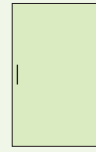
PS 440



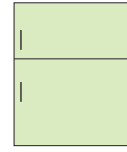
PS 442



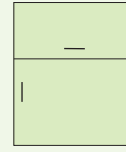
PS 452



PS 530<sup>(1)</sup>



PS 542<sup>(1)</sup>



PS 546<sup>(1)</sup>

750 x 1250

1000 x 500

1000 x 750

1000 x 1000

1000 x 1000

1000 x 1250

1250 x 750

1250 x 1000

1250 x 1000

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833576

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842100

842101

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842100

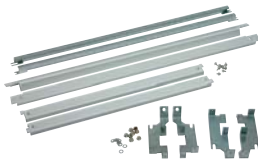
842101

842101

(1) IEC 60439-5 for cabinets height 1250 mm on demand



Modular framework for DIN-rail equipment - IP20



- Delivered in kit-form**  
 Content of the kit:  
 - 2 x support for left vertical profile  
 - 2 x support for right vertical profile  
 - 2 x vertical mounting profile  
 - 2 x insulated vertical cover for IP20  
 - 2 x insulated horizontal cover for IP20  
 - all screws and nuts for assembly



2 rows		4 rows	
Description	Ref. No.	Description	Ref. No.
40 mod. - HxW = 500x500	<b>833264</b>	80 mod. - HxW = 750x500	<b>833266</b>
68 mod. - HxW = 500x750	<b>833265</b>	136 mod. - HxW = 750x750	<b>833267</b>
6 rows		7 rows	
Description	Ref. No.	Description	Ref. No.
120 mod. - HxW = 1000x500	<b>833268</b>	238 mod. - HxW = 1250x750	<b>833270</b>
204 mod. - HxW = 1000x750	<b>833269</b>		

Modular functions and accessoires, see B.15



**Modular functions for DIN-rail equipment (to be mounted on the modular framework)**



- Consists of:
- DIN-rail
  - coverplate with rectangular cut-out
  - accessories for assembly

Centre distance 150 mm			
Height	Width	500 mm	750 mm
150 mm			
	Modules (1 mod. = 18 mm) Ref. No.	20 833272	34 833278

**Modular functions for terminals or other equipment (to be mounted on the modular framework)**



- Consists of:
- DIN-rails
  - plain coverplate
  - accessories for assembly

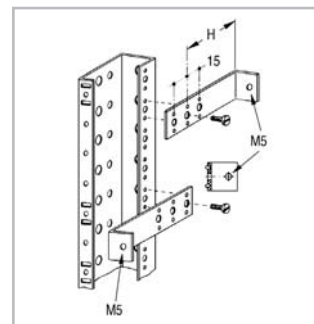
Centre distance 150 mm			
Height	Width	500 mm	750 mm
150 mm			
	Ref. No.	833271	833277
300 mm			
	Ref. No.	833274	833280

**Accessories (to be mounted on the modular framework)**



Metal mounting plates	
833275	1
H x W = 150 x 500 mm	
833281	1
H x W = 150 x 750 mm	
833276	1
H x W = 300 x 500 mm	
833282	1
H x W = 300 x 750 mm	

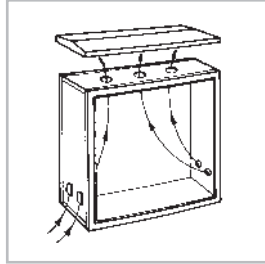
Depth extension studs for metal mounting plates with 2 screws M5 x 10 (1 set = 2 pieces)	
828059	1 set
Length (mm): 20-35-50	
828060	1 set
Length (mm): 25-40-55	
828061	1 set
Length (mm): 30-45-60	
828062	1 set
Length (mm): 65-80-95	
828063	1 set
Length (mm): 70-85-100	
828064	1 set
Length (mm): 75-90-105	
828031	1 set
Length (mm): 110-125-140	



## Mounting applications

### Rainhoods

Four fixing points for securing rainhood are marked off in top panel. By drilling holes in the top panel and by fitting air vents (Ref. No. 833677) on the side panels, the cabinet with rainhood will be efficiently ventilated. (IP44)  
For extra depth or extra width, please contact us.



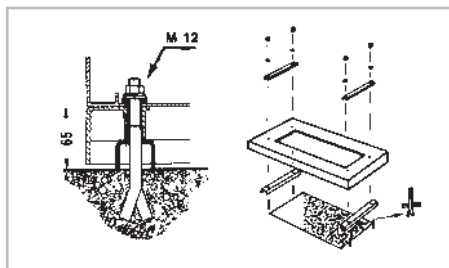
## Customisation



Cabinet also available in kit-form on demand: ease of transportation, space saving storage.

### Plinth

Easily mounted in accordance with the enclosed instructions



Cabinet can be provided with door on the front and at the rear: easy access, two different individual compartments.

## Enclosures for MCCB's

When using a Record Plus breaker<sup>(1)</sup> in a polyester cabinet for outdoor use, we always recommend the breaker in a VMS box.  
Breaker, terminal covers and mounting plate for the external housing have to be ordered separately. Short-circuit resistance 20kA, 440V



### Enclosures for MCCB's Record Plus

In (A) (2)	Breaker type	Internal housing VMS		External housing PolySafe	
		Size	Ref. No.	Size	Ref. No.
125	FD125 w/out RCD	440 x 320 x 254	855085	750 x 500 x 320	833008
160	FE160 w/out RCD	640 x 320 x 254	855087 / 855088	750 x 500 x 320	833008
250	FE250 w/out RCD	640 x 320 x 254	855087 / 855088	750 x 500 x 320	833008

(1) The use of short or long terminal covers for the breaker is mandatory  
(2) Ambient temperature max. 30°C



Cabinet can be supplied painted in other colours or with personal identification: environmental influence adaptation, ease of recognition, anti-graffiti.

## Customisation



Cabinet can be ordered with preformed cut-outs to suit your application: ease and speed of mounting.



Lay-out in compartments and internal separations as a flexible solution for the end customer (e.g. separation of distribution and instrumentation sections).



Coupling in depth by means of a depth extension kit (unlimited).



Cabinet also available with inset polycarbonate window: visibility of operating components, internal signalisation.



Coupling in height and width by means of a coupling kit (see accessories): ease of extension.



Cabinet can be factory equipped and wired according to the customers requirements: ready to install and operate.

A

B

C

D

E

F

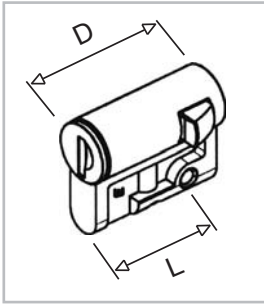
G

H

I

J/X

## Accessories



Profile half cylinder locks		
Standard: D = 40 mm - L = 30,5 mm		
On demand: D = 45 mm - L = 35,5 mm		
	<b>832030</b>	1
With 2 keys V2432-E		
	<b>832031</b>	1
With 2 keys 1242-E		
	<b>832465</b>	1
With 2 keys 455-E		
	<b>832466</b>	1
With 2 keys 405-E		
	<b>843435</b>	1
With 1 square key, 6 mm		
	<b>832032</b>	1
With 1 square key, 8 mm		
	<b>832033</b>	1
With 1 triangular key, 8 mm		
	<b>832034</b>	1
With 1 triangular key, 11 mm		
	<b>832029</b>	1
With 1 double-bit key, 3 mm		



Handle		
	<b>833629</b>	1
For profile half cylinder locks (as replacement)		



Handle		
	<b>783148</b>	1
For two profile half cylinder locks		



Padlocking handle		
	<b>833630</b>	1
For padlocking (max. Ø 10 mm)		

Door stop / Canopy stop		
100° opening angle of the door or the canopy		
	<b>833649</b>	1
Left turning		
	<b>833650</b>	1
Right turning		



Depth adjustment kit		
	<b>833528</b>	1
Set of four brackets for depth adjustment of mounting plate (step 12,5 mm).		



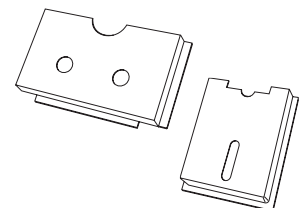
Wall mounting brackets for standard cabinets		
	<b>833651</b>	1
(as replacement)		
Kit of four brackets for clip fixation at the rear of the cabinet.		
Made of stainless steel type 304		



Wall mounting brackets for cabinets with rainhood		
	<b>833624</b>	1
Kit of four special brackets for clip fixation at the rear of the cabinet.		



Document pocket		
	<b>811516</b>	1
DIN A4 - W x H = 325 x 180 mm		
	<b>832000</b>	1
DIN A5 - W x H = 155 x 225 mm		



Accessories (continued)



Pole mounting

<b>833625</b>	1
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500 mm width

<b>833626</b>	1
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750 mm width

At the rear of the enclosure, C-profiles are mounted on the wall mounting brackets.

Around the pole, a steel holding band is installed.

On the C-profiles, clamps are placed to fix the holding band securely.



Coverplate

Mounted in front of mounting plate or mounting frame

PVC sheet - RAL 7035 - 3 mm

For cabinet (HxW)

500 x 500 mm	<b>833549</b>	1
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750 x 500 mm	<b>833550</b>	1
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750 x 750 mm	<b>833551</b>	1
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1000 x 500 mm	<b>833648</b>	1
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1000 x 750 mm	<b>833552</b>	1
---------------	---------------	---

1000x1000 mm	<b>833553</b>	1
--------------	---------------	---

1250 x 750 mm	<b>833554</b>	1
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1250x1000 mm	<b>833555</b>	1
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Transparent sheet - 3 mm

For cabinet (HxW)

500 x 500 mm	<b>833640</b>	1
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750 x 500 mm	<b>833641</b>	1
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750 x 750 mm	<b>833642</b>	1
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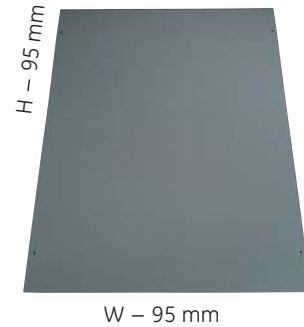
1000 x 500 mm	<b>833643</b>	1
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1000 x 750 mm	<b>833644</b>	1
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1000x1000 mm	<b>833645</b>	1
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1250 x 750 mm	<b>833646</b>	1
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1250x1000 mm	<b>833647</b>	1
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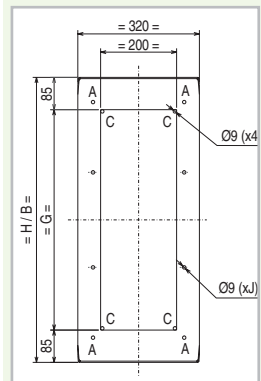
Coupling kit IP65

Depth 320 mm

H/B	G	J		
500	330	6	<b>833608</b>	1
750	580	8	<b>833610</b>	1
1000	830	12	<b>833612</b>	1
1250	1080	14	<b>833614</b>	1



Vertical and/or lateral coupling. Package includes the neoprene gasket, coupling bolts and nuts, and the protection profiles.



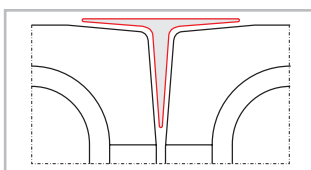
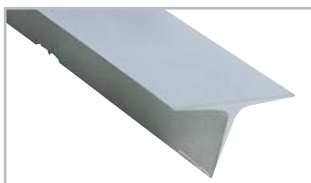
Corner profile

<b>833653</b>	1
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To fill up the corner between two coupled enclosures

Length = 308 mm

Use 2 profiles when coupling 4 enclosures



A

B

C

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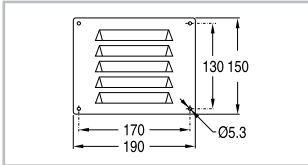
G

H

I

J/X

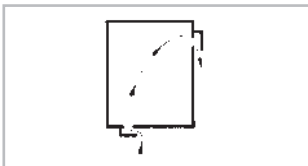
## Accessories (continued)



**Louvre plate**

832019	1
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Fits on ventilation opening.  
Package includes 2 grids and 4 nylon nails.



**Air vents IP44**

833677	1
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Two air vents must be mounted per enclosure to ensure sufficient air circulation and prevent condensation water.  
Complete with template and screws.  
Air vents are preferably mounted in the upper and lower part of the enclosure.

Set of 2 pieces in polyamide.  
RAL 7035



**Filter fans and exhaust filters IP54**

833556	1
--------	---

Exhaust filter with standard filter mat Viledon P15/500S (94% efficiency).  
Use of LV filter fans and/or GV exhaust filters. IP54 protection is achieved by combining a horizontal air flow with a gasket.  
For ref. nrs. see chapter H



**Innerdoor IP20**

H x W		
-------	--	--

500 x 500 mm	833556	1
500 x 750 mm	833557	1
750 x 500 mm	833558	1
750 x 750 mm	833559	1
1000 x 500 mm	833561	1
1000 x 750 mm	833562	1

Frame and door with 2 double-bit locks.  
For controls and automation applications.

**19"/ETSI swing frame**

833680	1
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For direct fixing of 19" or ETSI modular chassis to the standard drillings.

For cabinets H x W = 500 x 750  
6 units 19" - 12 units ETSI

833681	1
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For cabinets H x W = 750 x 750  
12 units 19" - 22 units ETSI

833682	1
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For cabinets H x W = 1000 x 750  
18 units 19" - 32 units ETSI

833683	1
--------	---

For cabinets H x W = 1250 x 750  
23 units 19" - 42 units ETSI

Metal frame: epoxycoating RAL 7035  
19"/ETSI-profiles: galvanised bichromated metal



**Blind coverplates for 19"/ETSI swing frames**

To fill up the remaining free space

833684	1
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For cabinets H x W = 500 x 750  
Height of the coverplate = 32 mm

833685	1
--------	---

For cabinets H x W = 750 x 750  
Height of the coverplate = 15 mm

833686	1
--------	---

For cabinets H x W = 1250 x 750  
Height of the coverplate = 28 mm

Metal: epoxycoating RAL 7035  
Remark: not necessary for cabinet  
H x W = 1000 x 750

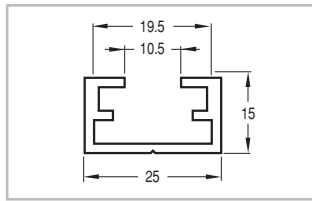
**Supporting chair**

891854	1
--------	---

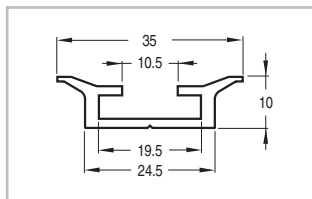
For PS220 and PS320  
For enclosures for temporary connections



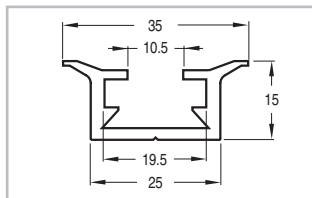
Accessories for Alu mounting frame



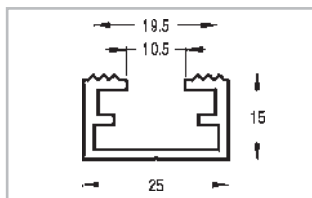
Aluminium profiles (mm)	
<b>833537</b>	1
Enclosure width 500 - Profile length 468	
<b>833538</b>	1
Enclosure width 750 - Profile length 718	
<b>833539</b>	1
Enclosure width 1000 - Profile length 968	
<b>833540</b>	1
Enclosure width 1250 - Profile length 1218	
<b>811421</b>	1
Profile length 3000	



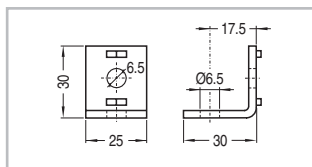
<b>833545</b>	1
Enclosure width 500 - Profile length 468	
<b>833546</b>	1
Enclosure width 750 - Profile length 718	
<b>833547</b>	1
Enclosure width 1000 - Profile length 968	
<b>833548</b>	1
Enclosure width 1250 - Profile length 1218	
<b>811502</b>	1
Profile length 3000	



<b>833541</b>	1
Enclosure width 500 - Profile length 468	
<b>833542</b>	1
Enclosure width 750 - Profile length 718	
<b>833543</b>	1
Enclosure width 1000 - Profile length 968	
<b>833544</b>	1
Enclosure width 1250 - Profile length 1218	
<b>811501</b>	1
Profile length 3000	

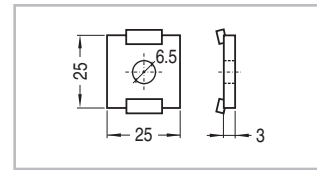


<b>811417</b>	1
Profile length 3000	

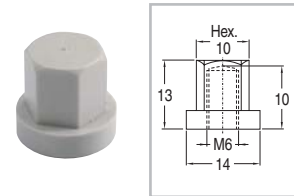


Fixing brackets	
<b>811463</b>	100

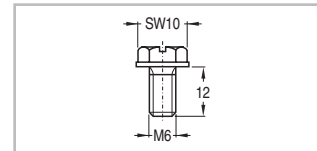
Support for studs	
<b>811462</b>	100



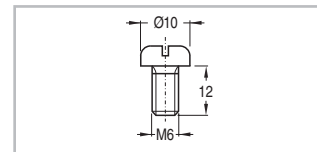
Insulated nut	
<b>601225</b>	100
RAL 7035	



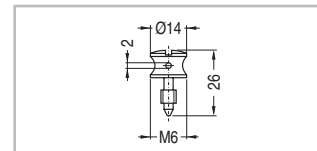
Screws	
<b>811483</b>	100
Screw M6 with flange	



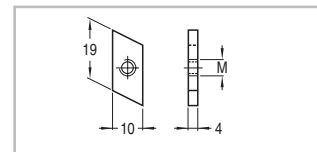
<b>833655</b>	100
Screw M6 x 12	



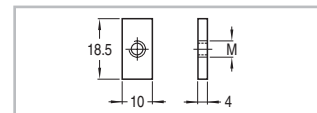
<b>811451</b>	100
Screw M6 in PVC for coverplate (sealable)	



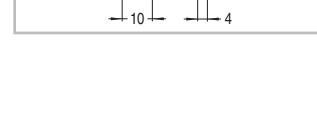
Nuts in metal	
<b>811435</b>	100
M6	



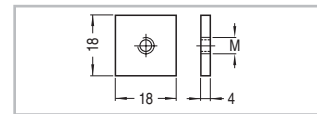
<b>811438</b>	100
M4	



<b>811442</b>	100
M6	

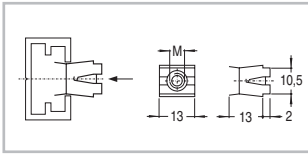


<b>811446</b>	100
M6	

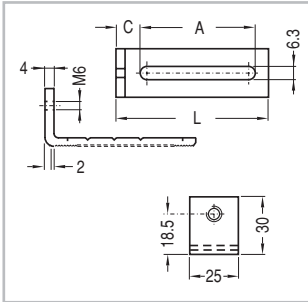


<b>811447</b>	100
M8	

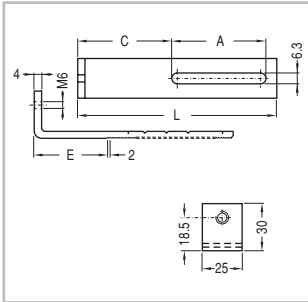
Accessories for Alu mounting frame (continued)



Nuts in PVC	
	<b>811443</b> 100
M6	

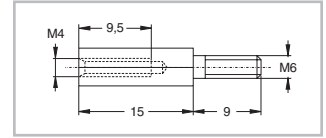
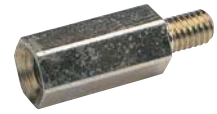


Brackets	
	<b>811477</b> 100
$L = 25 - A = 10 - C = 9,5$	
	<b>811478</b> 100
$L = 40 - A = 24 - C = 9,5$	
	<b>811479</b> 100
$L = 80 - A = 64 - C = 9,5$	

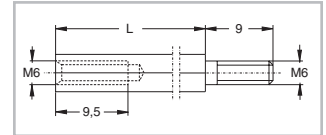
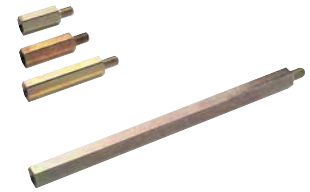


	<b>811480</b> 100
$L = 120 - A = 64 - C = 49,5 - E = 41,5$	

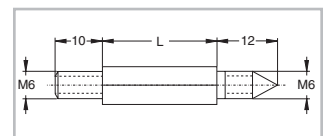
Studs	
Type 1 - M4-M6	
	<b>811336</b> 100
L = 15	



Type 2 - M6-M6	
	<b>811337</b> 100
L = 15	
	<b>811338</b> 100
L = 20	
	<b>811454</b> 100
L = 25	
	<b>811339</b> 100
L = 30	
	<b>811455</b> 100
L = 35	
	<b>811456</b> 100
L = 45	
	<b>811457</b> 100
L = 55	
	<b>811458</b> 100
L = 65	
	<b>811340</b> 100
L = 70	
	<b>811460</b> 100
L = 80	
	<b>811461</b> 100
L = 100	
	<b>811341</b> 100
L = 120	

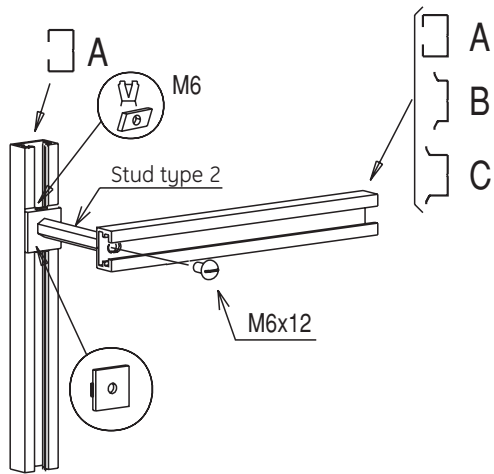
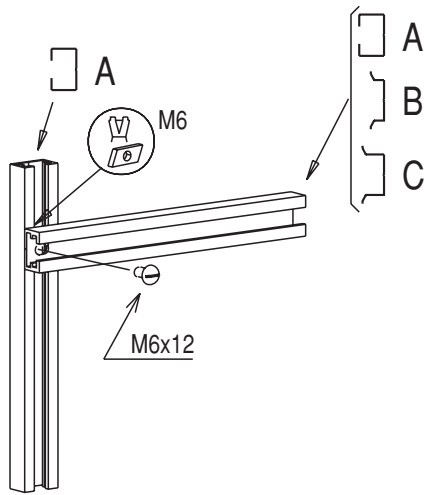


Type 3 - M6-M6	
	<b>811342</b> 100
L = 60	
	<b>811343</b> 100
L = 30	

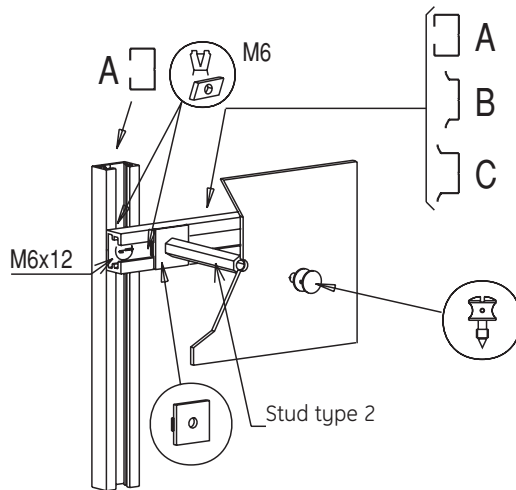
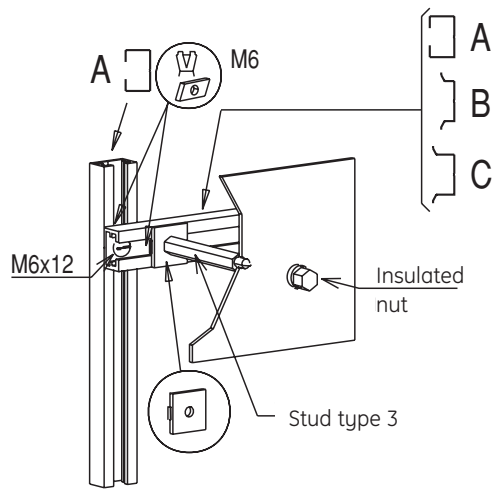


Mounting applications for Alu mounting frame

Continuously adjustable Alu mounting frame

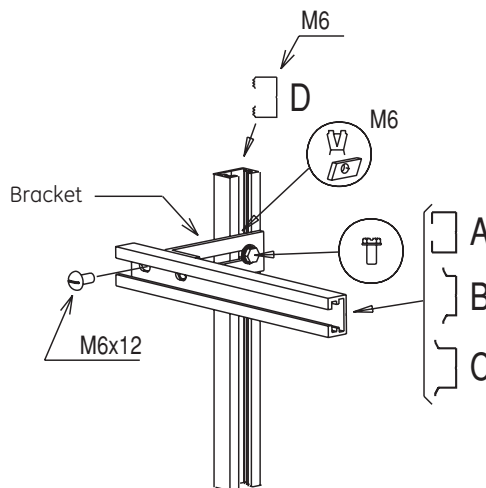


Use of coverplate



**Note:**  
Same way of mounting for coverplate  
as mounting plate

Adjustable Alu mounting frame in steps of 12.5 mm



## Universal polyester cabinets in kit-form



### Standards

IEC 60439-1	EN 60439-1
IEC 60529	EN 60529
IEC 62208	EN 62208

### Approvals



Cabinets with single door:  
types 3, 3R, 3S, 4, 4X and 12  
Cabinets with double door:  
types 3, 3R, 3S and 12



Cabinets with single door:  
types 3, 3R, 3S, 4, 4X and 12  
Cabinets with double door:  
types 3, 3R, 3S and 12



Lloyd's Register of Shipping  
Cert. 600763/17/10/79

### Features

- The range consists of 9 cabinets, ranging from 500 x 750 up to 1250 x 1000 mm, available in one depth: 400 mm.
- Cabinet in self-extinguishing, hot moulded, halogen-free, glassfibre reinforced polyester.
- Colour grey, dyed in mass (RAL 7036).
- Designed for wall mounting, free standing and pole fixing.
- Available in kit-form.
- Can be coupled in height, width and depth.
- Wide operational temperature range: -50°C up to +70°C in continuous use (peak temperatures up to 150°C).
- Door with 5-point latching mechanism.
- Total insulation  $\square$  degree of protection IP44 according to IEC 60529 (IP55 with gasket).
- Protection degree IK10 against external mechanical impacts according to EN 62262 and IEC 62262 (IK07 for cabinets with glazed door).
- This protection covers the total volume of the enclosure according to EN 62208 and IEC 62208.
- Maintenance-free and corrosion resistant.
- For indoor and outdoor applications.
- Available in pedestal version.
- Rated insulation voltage  $U_i = 1000V$ .

### Applications

- Power distribution
- System monitoring (measuring and control equipment)
- Water treatment plants
- Automation and control systems
- Cable television
- Gas distribution
- Traffic signalisation and public lighting
- Service enclosures for construction sites
- Telecommunication and electronic components
- Camping sites and market places
- Transformers

- Overview of the range ● Page B.2
- Dimensional drawings ● Page J.22
- Specifications for tender documents ● Page J.65
- Power dissipation values ● Page J.88

Options - Customisation



With rainhood



Front and rear door



Kit-form - UL / CSA recognised



Coupled in depth



Vertically coupled



With polycarbonate window inset

## Universal polyester cabinets in kit-form

Depth = 400 mm		Type	 SP 230	 SP 320	 SP 330
	<b>Cabinet in kit-form</b>  IP44	<b>H x W</b>	500 x 750	750 x 500	750 x 750
	Plain door	<b>Ref. No.</b>	<b>832469</b>	<b>832470</b>	<b>832471</b>
	Glazed door	<b>Ref. No.</b>	<b>832478</b>	<b>832479</b>	<b>832480</b>
Complete with handle and mounting brackets of stainless steel, type 304					
	<b>Gasket kit</b>  IP55	<b>Ref. No.</b>	<b>832487</b>	<b>832487</b>	<b>832488</b>
	By positioning a gasket inside the groove labyrinths along the panels, the protection degree of the cabinet in kit-form increases from IP44 to IP55				
	<b>Mounting plate</b>	<b>H x W</b>	400 x 650	650 x 400	650 x 650
	Sendzimir zinc coated sheet steel 2 mm	<b>Ref. No.</b>	<b>833501</b>	<b>833501</b>	<b>833502</b>
	Metal perforated 2 mm	<b>Ref. No.</b>	<b>833517</b>	<b>833518</b>	<b>833519</b>
	Pertinax 5 mm	<b>Ref. No.</b>	<b>833509</b>	<b>833509</b>	<b>833510</b>
	Pertinax 10 mm	<b>Ref. No.</b>	-	-	-
	<b>Mounting frame</b>	<b>L</b>	680	430	680
	Comprising: - four enclosure attachment brackets - two vertical rails - four depth adjustment brackets	<b>Ref. No.</b>	<b>832493</b>	<b>832494</b>	<b>832494</b>
	<b>Depth extension kit</b>	<b>H x W</b>	500 x 750	750 x 500	750 x 750
	To increase the standard depth of 400 mm, it can be provided with a 400 mm depth extension kit. The kit consists of a number of side panels, two frames coupled together and the necessary cabinet assembling nuts and screws.	<b>Ref. No.</b>	<b>832498</b>	<b>832498</b>	<b>832499</b>
	<b>Rainhoods</b>	<b>W x D</b>	750 x 400	500 x 400	750 x 400
	When specified for outdoor use, the cabinet should be protected by a rainhood. The non-ventilated cabinet with rainhood has a protection degree IP55, provided the joints are properly gasketed.	<b>Ref. No.</b>	<b>832556</b>	<b>832555</b>	<b>832556</b>
	<b>Wall brackets for enclosures with rainhood</b>	<b>W</b>	830	580	830
	Mounting a cabinet with rainhood to a wall requires the use of special brackets.	<b>Ref. No.</b>	<b>832042</b>	<b>832041</b>	<b>832042</b>
	<b>Floor mounting plinth</b>	<b>W x D</b>	750 x 300	500 x 300	750 x 300
	Cabinet and plinth are anchored together to the flooring.	<b>Ref. No.</b>	<b>832014</b>	<b>832013</b>	<b>832014</b>

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SP 340	SP 430	SP 440	SP 530	SP 452	SP 546
750 x 1000	1000 x 750	1000 x 1000	1250 x 750	1000 x 1250	1250 x 1000
832472 832481	832473 832482	832474 832483	832475 832484	832476 832485	832477 832486
832489	832489	832490	832491	832492	832492
650 x 900	900 x 650	900 x 900	1150 x 650	900 x 1150	1150 x 900
833504 833520 833512 -	833504 833523 833512 -	833505 833524 833513 833386	833506 833526 833514 833385	833507 833525 833515 833387	833507 833527 833515 833387
930 832494	680 832495	930 832495	680 832496	1180 832495	930 832496
750 x 1000 832500	1000 x 750 832500	1000 x 1000 832501	1250 x 750 832502	1000 x 1250 832503	1250 x 1000 832503
1000 x 400 832557	750 x 400 832556	1000 x 400 832557	750 x 400 832556	1250 x 400 832558	1000 x 400 832557
1080 832043	830 832042	1080 832043	830 832042	1330 832044	1080 832043
1000 x 300 832015	750 x 300 832014	1000 x 300 832015	750 x 300 832014	1250 x 300 832016	1000 x 300 832015

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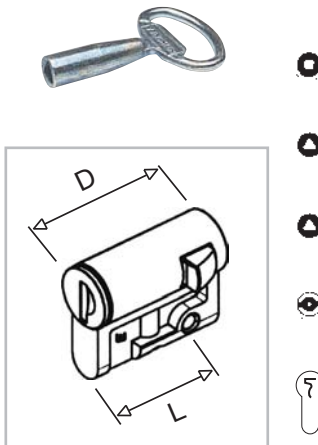
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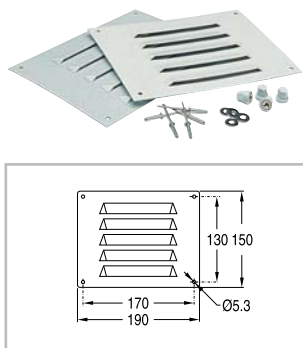
## Accessories



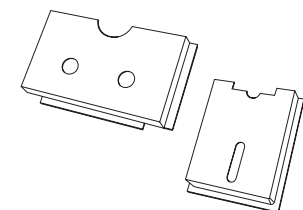
Profile half cylinder locks (L = 30.5)	
832032	1
With 1 square key, 8 mm	
832033	1
With 1 triangular key, 8 mm	
832034	1
With 1 triangular key, 11 mm	
832029	1
With 1 double-kit key, 3 mm	
832030	1
With 2 keys, V2432-E	



Handle	
832023	1
For padlocking (max. Ø 10 mm)	
832024	1
For profile half cylinder locks (as replacement).	
For profile half cylinder types with L > 30.5 mm, please contact us.	



Louvre plates IP44	
832019	1
Outlet 2000 mm <sup>2</sup>	
RAL 7035 - Fits one ventilation opening	
Package includes 2 grids and 4 nylon nails	
Total insulation	
For outlets 4500 and 6500 mm <sup>2</sup> , see page I.10	



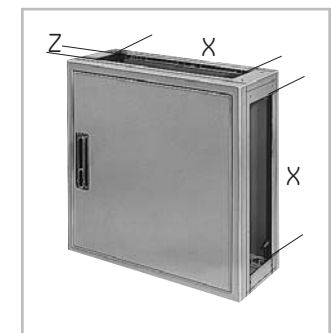
Document pocket	
811516	1
DIN A4 - W x H = 325 x 180 mm	
832000	1
DIN A5 - W x H = 155 x 225 mm	

Brackets	
832045	1
Set of two spare depth adjustment brackets.	
The vertical rails can be fixed in 3 positions using the attachment brackets.	
The depth adjustment brackets are designed for attaching mounting plate or two DIN-rails to vertical rails.	
For each additional DIN (traverse)-rail, another pair of depth adjustment brack- ets must be ordered separately.	
Remark: The standard mounting plates are not suitable for use on the mounting frame.	

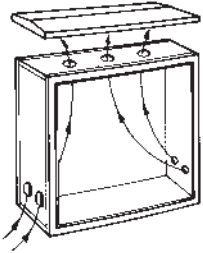


Coupling kit	
- Horizontal and/or vertical coupling.	
- Package includes a drilling template, the necessary gaskets, coupling bolts and nuts, and the mounting instructions.	

Depth 400 mm		Cabinet			
		width	X max. (mm)	Z (mm)	
	832504	1	500	350	250
	832505	1	750	600	250
	832506	1	1000	850	250
	832507	1	1250	1100	250



## Mounting applications



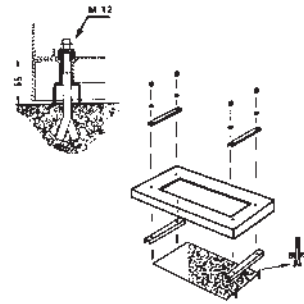
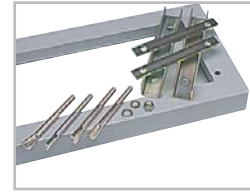
### Rainhoods

Four fixing points for securing rainhood are marked off in top panel. By drilling holes in the top panel and by fitting air vents (852001) on the side panels, the cabinet with rainhood will be efficiently ventilated.

(For extra depth or extra width, please contact us.)

### Floor mounting plinths

Easily mounted in accordance with the enclosed instructions.



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## Notes

Insulated wall mounting cabinets

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# GE Consumer & Industrial Power Protection

Power Protection (formerly GE Power Controls), a division of GE Consumer & Industrial, is a first class European supplier of low-voltage products including wiring devices, residential and industrial electrical distribution components, automation products, enclosures and switchboards. Demand for the company's products comes from wholesalers, installers, panel-board builders, contractors, OEMs and utilities worldwide.

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GE imagination at work