PolySafe

Multipurpose polyester cabinets

Standards

EN/IEC 60529
EN/IEC 62208
EN/IEC 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
Available on request

Lloyd's Register of Shipping

Ambient conditions

Indoor and outdoor stationary use,
at temperatures between -35°C and
70°C in continuous use and at peak
temperatures up to +150°C

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 & IP54**-IK10 (20 J) according to IEC 60529 and EN/IEC 62262 (IP54 - IK07 for cabinets with glazed door)
- 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 Ui= 1000V
- Easy recyclable: no moulded-in metal parts

Applications

- **Commercial**
  Leisure (market places, camping sites, harbours for pleasure crafts, amusement parks), fuel stations, car washes, launderettes 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, ...
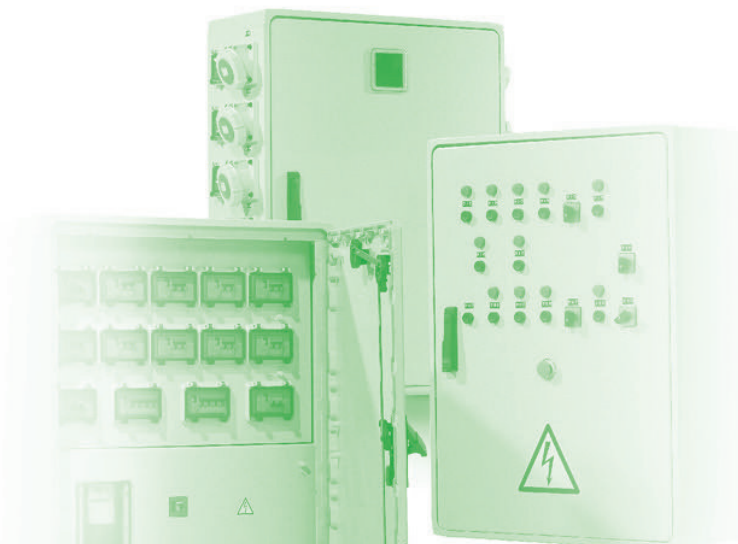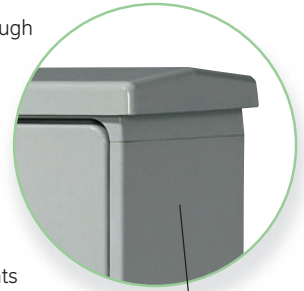
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Rainhood for outdoor use
- Up to IP65, not necessary
- Possibility of ventilation through cut-outs in top panel and air vents on side panels (to prevent internal condensation)
- Protection degree: IP44/IP54 in case of ventilation
- Moulded-in markings on the inside top panel shows the cut-out and fixation points
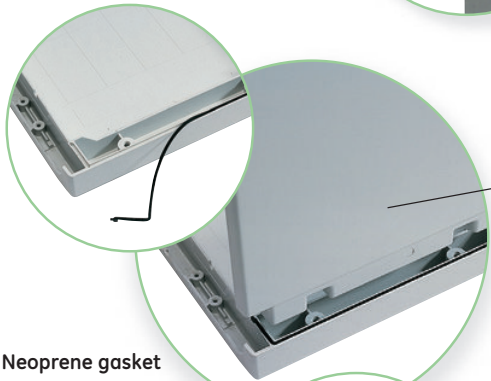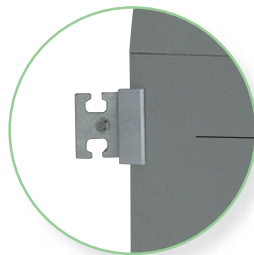
Backpanel
- Enclosed in main structure
- Has a seamless top panel as a result
- No inserts
- PUR sealing directly injected and responsible for high protection degree IP65/54

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

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)

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
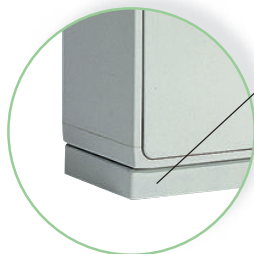
Mounting plates
- Metal 2 mm
- Pertinax 5 mm
- Metal perforated 2 mm
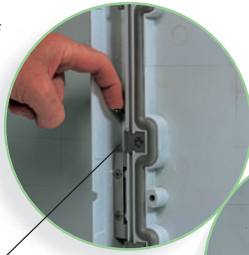- Fixed (by means of HiLo) as well as adjustable in depth for all sizes
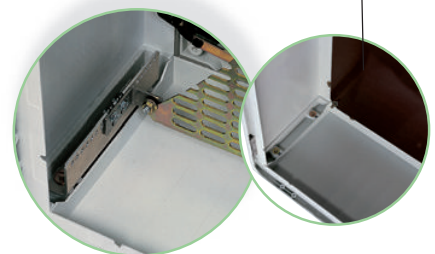
Self tapping HiLo screws
(no inserts)
- For assembling main structure and fixation of the back panel
- Makes the cabinet easily dismantled for recycling

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
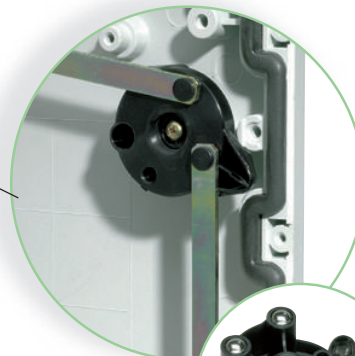- Ensuring the door takes its center position during closing
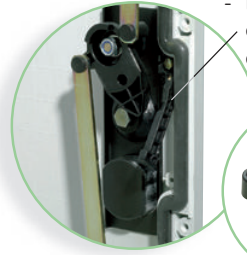
Door
- Flush mounted
- Plain or glazed
- No inserts (HiLo screws)
- Inclosed in main structure
- Has a seamless top panel as a result
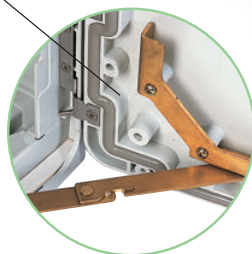- Injected PUR sealing (IP54) or EPDM sealing (IP65)
- Opening angle 100°

Standard 5 point latching mechanism
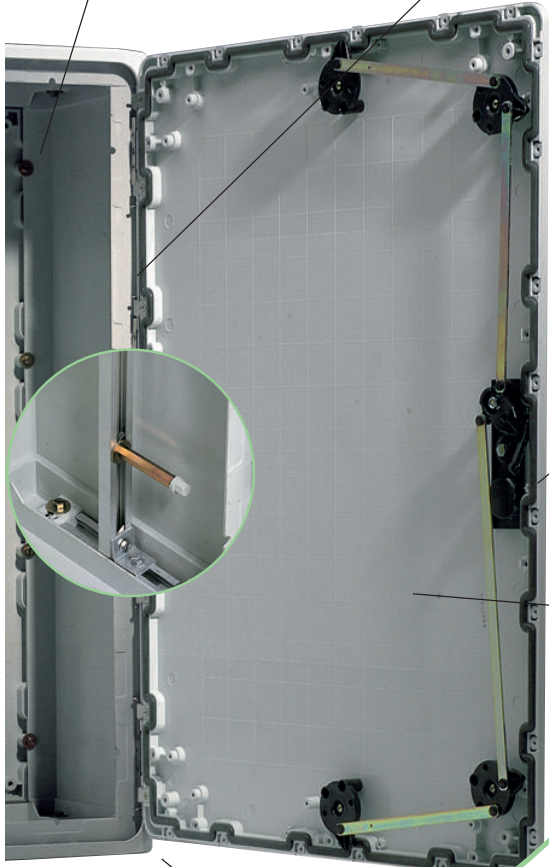- Operated by one handle
- Provides secure closing (IP65)

Doorstop
Prevents stressing the door hinges caused by wind in outside use.
For enclosure width 750 mm and larger.

Door conducting
For exact door positioning in the main structure

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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: visability of operating components, internal signalisation.
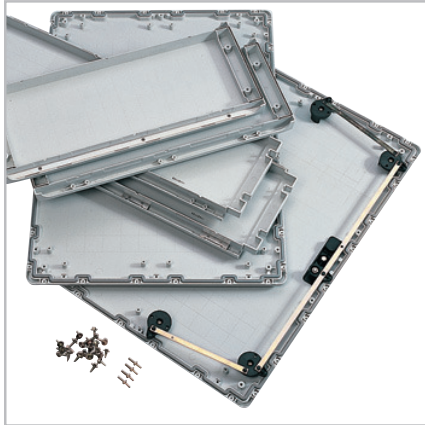

Coupling in height and width by means of a coupling kit (see accessories): ease of extension.

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

Insulated wall mounting cabinets

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Customisation

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

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


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

Mounting applications

Rainhoods

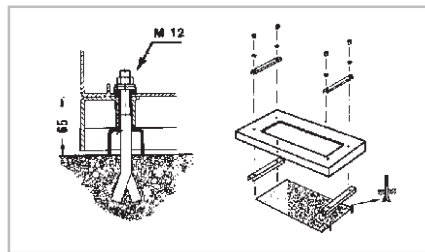Four fixing points for securing rainhood are marked off in top panel. By drilling holes in the top panel and by fitting air vents (Ref. No. 833677) on the side panels, the cabinet with rainhood will be efficiently ventilated. (IP44)
For extra depth or extra width, please contact us.
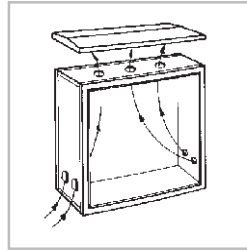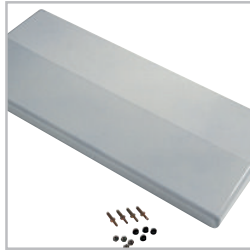
Plinth

Easily mounted in accordance with the enclosed instructions

Multipurpose cabinets

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Multipurpose polyester cabinets

Depth = 320 mm	PS 220	PS 230	PS 320	PS 330	PS 340
Factory-assembled cabinet Complete with handle and wall mounting brackets of AISI 304 stainless steel (without cylinder lock)					
Dimensions (H x W)	500 x 500	500 x 750	750 x 500	750 x 750	750 x 1000
IP54 Cabinet with plain door	833745	833746	833747	833748	833749
IP54 Cabinet with glazed door (polycarbonate window)	833850	833851	833852	833853	833854
IP65 Cabinet with plain door	833000	833004	833008	833012	833016
Weight (kg)	16	19	20	25	30
Cabinet with door on the front and at the back					
IP54	833863	833864	833865	833866	833867
IP65	833076	833086	833219	833373	833077
Mounting plate Dimensions (H - 110 mm x W - 110 mm)					
Sendzimir zinc coated sheet steel 2 mm	833500	833501	833501	833502	833504
Perforated 2 mm	833516	833517	833518	833519	833520
Pertinax 5 mm	833508	833509	833509	833510	833512
Pertinax 10 mm	-	-	-	-	-
IP54 Depth extension kit	833877	833878	833879	833880	833881
IP65 Depth extension kit	833584	833585	833586	833587	833588
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.					
Rainhood For an efficient ventilation (IP44) in outdoor use by drilling holes in the top panel. As the standard enclosure is IP65, a rainhood is not necessary. In case of extra width or depth, see B.24.	833566	833568	833566	833568	833570
Plinth or floor mounting frame. Cabinet and plinth are anchored together in the flooring - H = 65 mm	833574	833575	833574	833575	833576
Adaptor frame for DIN-base mounting Cabinet and adaptor frame are anchored on the DIN base (polyester or concrete)	-	833582	-	833582	833583
DIN-base Polyester base - kit-form	-	842100	-	842100	842101
Mounting frame in Alu Consisting out of: four attachment brackets, two vertical C-profiles. Horizontal profiles to be ordered separately, see B.19					
Continuously adjustable	833533	833533	833534	833534	833534
Adjustable in steps of 12,5 mm	833529	833529	833530	833530	833530
Length of horizontal profile (mm)	468	718	468	718	968
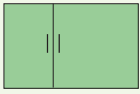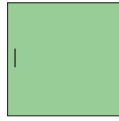
	PS 352	PS 420	PS 430	PS 440	PS 442	PS 452	PS 530	PS 542	PS 546
	750 x 1250	1000 x 500	1000 x 750	1000 x 1000	1000 x 1000	1000 x 1250	1250 x 750	1250 x 1000	1250 x 1000
	833754	833750	833751	833752	833755	833756	833753	833757	833758
	833855	833856	833857	-	833858	833859	833860	833861	833862
	833020	833024	833028	833032	833036	833040	833044	833052	833056
	38	25	30	36	39	41	37	45	45
	833868	833869	833870	833871	833872	833873	833874	833875	833876
	833374	833375	833085	833376	833377	833378	833379	833380	833381
	833506	833503	833504	833505	833505	833507	833506	833507	833507
	833521	833522	833523	833524	833524	833525	833526	833527	833527
	833514	833511	833512	833513	833513	833515	833514	833515	833515
	833385	-	-	833386	833386	833387	833385	833387	833387
	833882	833883	833884	833885	833885	833886	833887	833888	833888
	833589	833590	833591	833592	833592	833593	833594	833595	833595
	833572	833566	833568	833570	833570	833572	833568	833570	833570
	833577	833574	833575	833576	833576	833577	833575	833576	833576
	-	-	833582	833583	833583	-	833582	833583	833583
	-	-	842100	842101	842101	-	842100	842101	842101
	833534	833535	833535	833535	833535	833535	833536	833536	833536
	833530	833531	833531	833531	833531	833531	833532	833532	833532
	1218	468	718	968	968	1218	718	968	968

Accessories
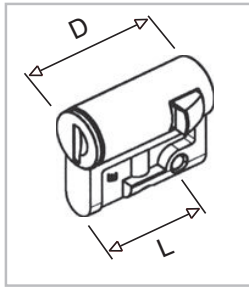
Profile half cylinder locks

Standard: D = 40 mm - L = 30,5 mm

	832030	1
With 2 keys V2432-E		
	832741	2
Spare keys for 832030		
	832031	1
With 2 keys 1242-E		
	832465	1
With 2 keys 455-E		
	832466	1
With 2 keys 405-E		
	843435	1
With 1 square key, 6 mm		
	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-bit key, 3 mm		

Handle

	833629	1

For profile half cylinder locks with length of 40 mm (as replacement)

Handle

	833290	1

Jumbo version, for profile half cylinder locks with length of 45 mm

Handle

	783148	1

For two profile half cylinder locks. For utility applications.

Padlocking handle

	833630	1

For padlocking (max. Ø 10 mm)

Depth adjustment kit

	833528	1

Set of four brackets for depth adjustment of mounting plate (step 12,5 mm).

Door stop / Canopy stop

100° opening angle of the door or the canopy

	833649	1
Left turning		
	833650	1
Right turning		

Wall mounting brackets for standard cabinets

	833651	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

	833624	1

Kit of four special brackets for clip fixation at the rear of the cabinet.

Rainhood

Rainhoods for enclosure combinations.
Standard rainhoods on page B.22
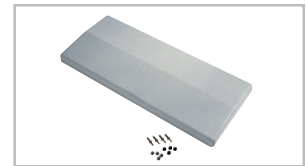
833656	1	1500 x 320 mm
833657	1	1750 x 320 mm
833658	1	2000 x 320 mm
833659	1	2250 x 320 mm
833660	1	2500 x 320 mm
833689	1	2750 x 320 mm
833661	1	3000 x 320 mm
833693	1	500 x 640 mm
833692	1	750 x 640 mm
833783	1	1000 x 640 mm
833784	1	1250 x 640 mm
833743	1	1750 x 640 mm
833691	1	2000 x 640 mm
833764	1	2500 x 640 mm

Accessories *(continued)*

Pole mounting

	833625	1
500 mm width		

	833626	1
750 mm width		

At the rear of the enclosure, C-profiles are mounted on the wall mounting brackets (delivered with the enclosure).
Around the pole, a steel holding band is installed (not delivered with the enclosure)
On the C-profiles, clamps are placed to fix the holding band securely.

Coupling kit IP65

H/B	G	J	Depth 320 mm		
500	330	6		**833608**	1
750	580	8		**833610**	1
1000	830	12		**833612**	1
1250	1080	14		**833614**	1

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

Corner profile

	833653	1

To fill up the corner between two coupled enclosures
Length = 308 mm
Use 2 profiles when coupling 4 enclosures

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

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

	833680	1
For cabinets H x W = 500 x 750		
6 units 19" - 12 units ETSI		

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

	833682	1
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
For cabinets H x W = 500 x 750		
Height of the coverplate = 32 mm		

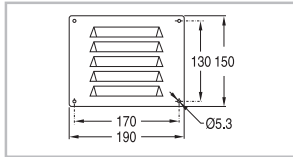|		
	833685	1
For cabinets H x W = 750 x 750		
Height of the coverplate = 15 mm		

	833686	1
For cabinets H x W = 1250 x 750		
Height of the coverplate = 28 mm		

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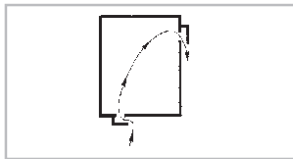Remark: not necessary for cabinet
H x W = 1000 x 750

Multipurpose cabinets

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Accessories (continued)

Louvre plate

832019	1

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

Supporting chair

891854	1

For PS220 and PS320
For enclosures for temporary connections

Air vents IP44

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.

833677	1

Set of 2 pieces in polyamide.
RAL 7035

Please refer to chapter G for more ventilation options.

Filling pellets

422902	1

Pellets made out of clay as humidity barrier between ground and enclosure.
Recommended filling height 200-300 mm.
DIN 00-1: 1 bag
DIN 2-3: 2 bags

Notes

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Modular framework for DIN-rail equipment - IP20
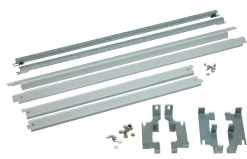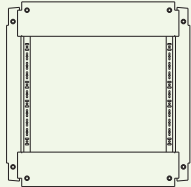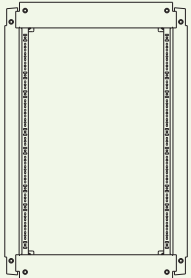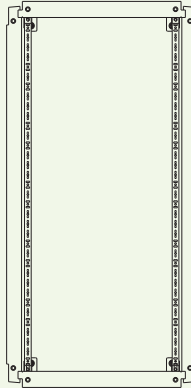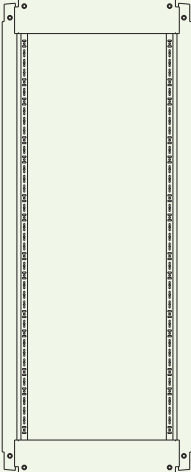
Delivered in kit-form
Content of the kit:
- 2 × support for left vertical profile
- 2 × support for right vertical profile
- 2 × vertical mounting profile
- 2 × insulated vertical cover for IP20
- 2 × insulated horizontal cover for IP20
- all screws and nuts for assembly

2 rows	
Description	**Ref. No.**
40 mod. - HxW = 500x500	**833264**
68 mod. - HxW = 500x750	**833265**

4 rows	
Description	**Ref. No.**
80 mod. - HxW = 750x500	**833266**
136 mod. - HxW = 750x750	**833267**

6 rows	
Description	**Ref. No.**
120 mod. - HxW = 1000x500	**833268**
204 mod. - HxW = 1000x750	**833269**

7 rows	
Description	**Ref. No.**
238 mod. - HxW = 1250x750	**833270**

Modular functions and accessoires, see B.29

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)	20	34	
	Ref. No.	**833272**	**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)
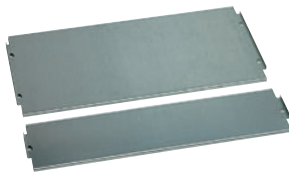
Metal mounting plates	
833275	1
H x W = 150 x 500 mm	
833281	1
H x W = 150 x 750 mm	
833276	1
H x W = 300 x 500 mm	
833282	1
H x W = 300 x 750 mm	

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	
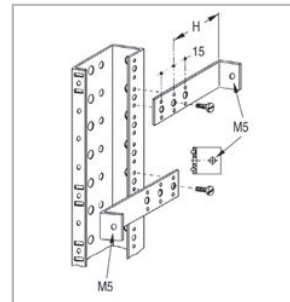
Accessories for Alu mounting frame
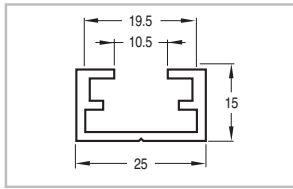
Aluminium profiles (mm)

833537	1

Enclosure width 500 - Profile length 468

833538	1

Enclosure width 750 - Profile length 718

833539	1

Enclosure width 1000 - Profile length 968

833540	1

Enclosure width 1250 - Profile length 1218
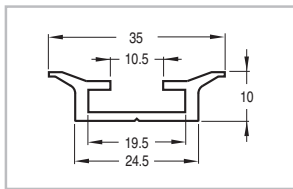
833545	1

Enclosure width 500 - Profile length 468

833546	1

Enclosure width 750 - Profile length 718

833547	1

Enclosure width 1000 - Profile length 968

833548	1

Enclosure width 1250 - Profile length 1218
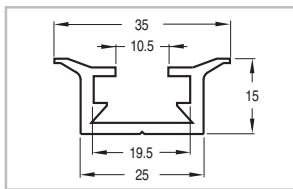
833541	1

Enclosure width 500 - Profile length 468

833542	1

Enclosure width 750 - Profile length 718

833543	1

Enclosure width 1000 - Profile length 968

833544	1

Enclosure width 1250 - Profile length 1218
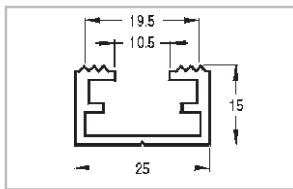
811417	1

Profile length 3000
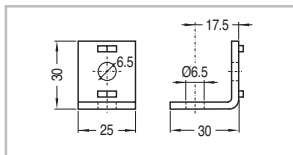
Fixing brackets

811463	100

Support for studs

811462	100
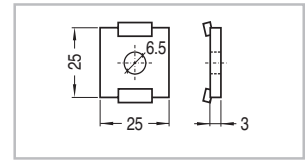
Insulated nut

601225	100

RAL 7035
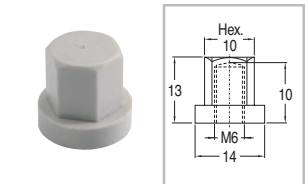
Screws

811483	100

Screw M6 with flange
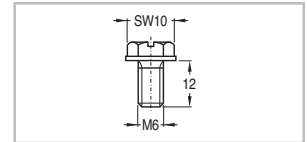
833655	100

Screw M6 x 12
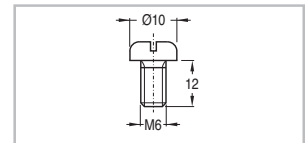
811451	100

Screw M6 in PVC for coverplate (sealable)
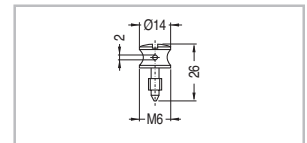
Nuts in metal

811435	100

M6
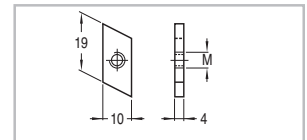
811438	100

M4
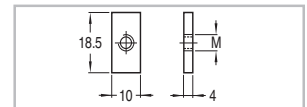
811442	100

M6

811446	100

M6
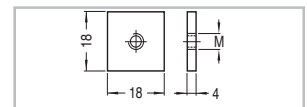
811447	100

M8

Accessories for Alu mounting frame *(continued)*
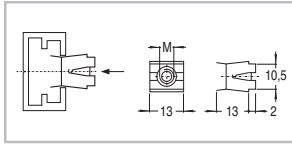
Nuts in PVC

	811443	100

M6
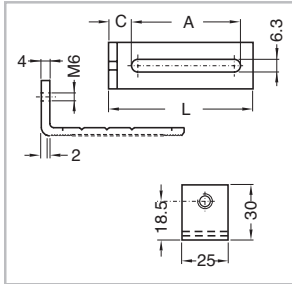
Brackets

	811477	100

L = 25 - A = 10 - C = 9,5

	811478	100

L = 40 - A = 24 - C = 9,5

	811479	100

L = 80 - A = 64 - C = 9,5
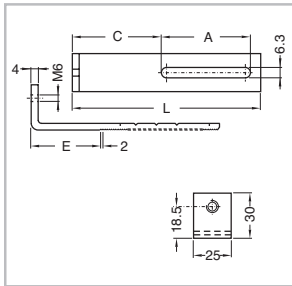
	811480	100

L = 120 - A = 64 - C = 49,5 - E = 41,5

Studs

Type 1 - M4-M6

	811336	100

L = 15
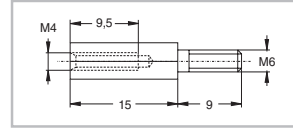
Type 2 - M6-M6

	811337	100

L = 15
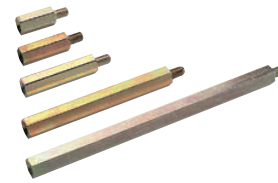
	811338	100

L = 20

	811454	100

L = 25
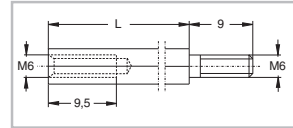
	811339	100

L = 30

	811455	100

L = 35

	811456	100

L = 45

	811457	100

L = 55

	811458	100

L = 65

	811340	100

L = 70

	811460	100

L = 80

	811461	100

L = 100

	811341	100

L = 120

Type 3 - M6-M6

	811342	100

L = 60

	811343	100

L = 30

Multipurpose cabinets

Intro

A

B

C

D

E
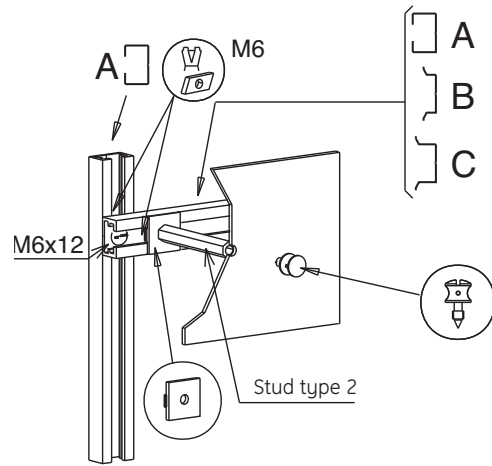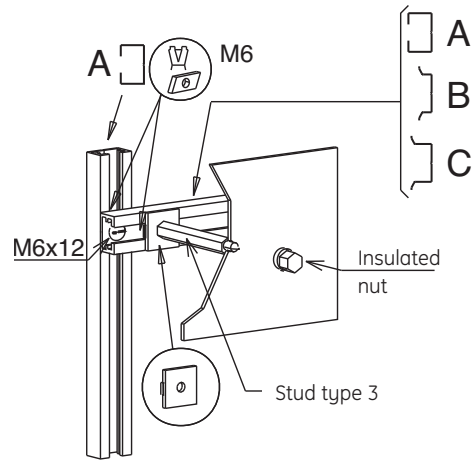
F

G

H

I

X
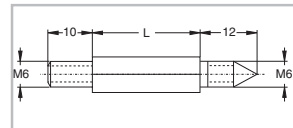
Mounting applications for Alu mounting frame

Continuously adjustable Alu mounting frame
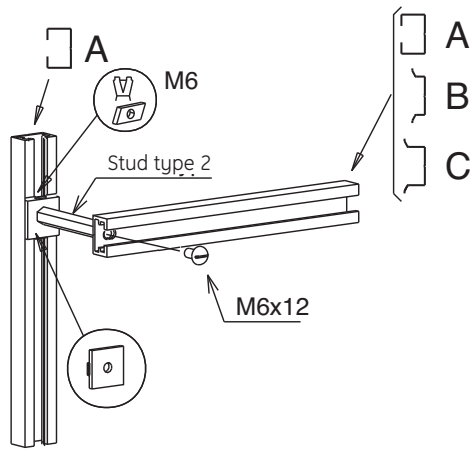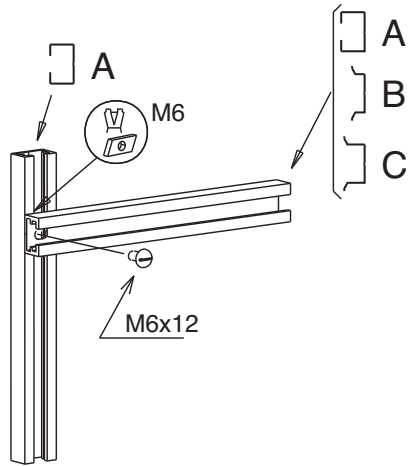
Use of coverplate

Note:
Same way of mounting for coverplate
as mounting plate

Adjustable Alu mounting frame in steps of 12.5 mm