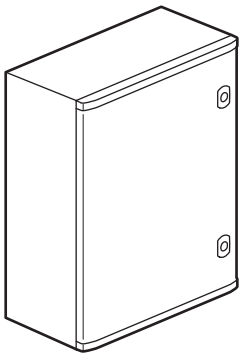
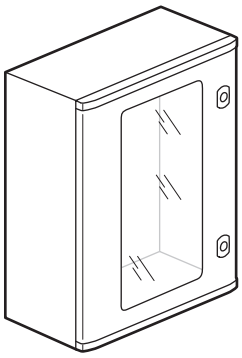
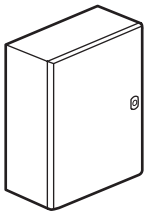
87045 LIMOGES Cedex
Telephone: 0 5 55 06 87 87 - Fax: 0 5 55 06 88 88

Marina Cabinets

Cat. No(s): 362 50/51/52/55/56/61/63/64
362 71/72/75/76/81/83/84
362 40/42/44 - 364 08/09 - 365 13

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1. Main characteristics 1
2. Range 1
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4. Dimensions 3
5. Equipments 4
6. Mounting 7
7. Accessories 8

1. GENERAL CHARACTERISTICS

Grey polyester cabinets RAL 7035, IP 66 - IK 10(1) - Classe II, particularly suited to corrosive environments.

Direct mounting of equipment at back of cabinet.

Possible to fit a partial plate (cabinets height ≥ 500 mm) and/or rails (cabinets height ≥ 400 mm) on intermediate fixing points.·

Optional:
- equipments depth adjustment (cabinet height ≥ 400 mm),
- horizontal or vertical coupling (cabinet height ≥ 500 mm),
- reinforced protection with roof (cabinet height ≥ 700 mm),
- up to 7 solutions for cabinet mounting (with brackets, on base, on stand, etc...)

2. RANGE

Cat. No(s)		Dimensions Height x Width x Depth (mm)	
With plane door	With glass door	Overall	Corresponding metal cabinets
362 50		300 x 220 x 160	300 x 200 x 160
362 51	**362 71**	400 x 300 x 206	400 x 300 x 200
362 52	**362 72**	500 x 400 x 206	500 x 400 x 200
362 55	**362 75**	610 x 400 x 257	600 x 400 x 250
362 56	**362 76**	720 x 510 x 250	700 x 500 x 250
362 61	**362 81**	820 x 610 x 300	800 x 600 x 300
362 63	**362 83**	1020 x 810 x 300	1000 x 800 x 300
362 64	**362 84**	1220 x 810 x 300	1200 x 800 x 300

3. TECHNICAL CHARACTERISTICS

3.1 Framework

- Fibreglass filled polyester resin RAL 7035 (SMC), heat polymerised,
- one-piece body, without cable entries,
- brass fixing inserts (only supplied with Cat. No. 362 50),
- top and bottom protective flange (except Cat. No 362 50),
- reversible door with captive pin (except Cat. No 362 50) in stainless steel, opening 180° (130° for Cat. No 362 50),
- two-point closure with two plastic double bar locks (one bolt for Cat. No 362 50) with interchangeable barrel,
- polyurethane seal,
- tinted tempered glass door.

(1) Cabinet height 300 mm.

3.2 Protection index, insulation class

- IP 66 according to IEC EN 60529: totally protected against dust and totally protected against jets of water of similar force to heavy seas,
- IK 10 according to IEC EN 62262: protected against mechanical impacts of 20 joules (IK 08 = 5 joules for Cat. No 362 50),
- conform to IEC EN 62208,
- classe II: allow for the production of assemblies in total insulation according to IEC EN 60439-1.

3.3 Mechanical resistance

- maximum load: 500 kg / m^3,
- maximum load on door: 2.5 kg per 100 mm height,
- maximum static load with 4 fixing brackets:
  - Cat. No 364 08 (for cabinets height 300 mm) : 100 kg,
  - Cat. No 364 09 (for cabinets height ≥ 400 mm) : 150 kg,
- insert resistance: axial wrenching > 250 kg (by insert)
- fixing with stand Cat. No 364 36/37 conform to EN 50125-3 (railway applications, permanent installations).

3.4 Resistance to climatic conditions

- operating temperature: - 40°C to + 85°C (+ 100°C at peak),
- salt spray according to ISO 9227 (NSS test) and IEC EN 60068-2-11 (Ka test): 1500 hours,
- sulphur dioxide with condensation according to EN ISO 6988: 500 hours,
- ultraviolet resistance (UV): exposure 240 hours according to EN ISO 4892-2 (A method) with $\Delta E < 2.5$ (colorimetric variation).

3.5 Fire behaviour

- glow wire resistance according to IEC EN 60695-2-11: 960°C,
- limited owygen index (LOI) according to EN ISO 4589 / ASTM D 2863: 22 %,
- without halogens.

3. TECHNICAL CHARACTERISTICS *(continued)*

3.6 Resistance to chemical agents

Resistant to ambient temperature compared to exposure risk spraying.

++: Excellent resistance (continuous exposure)
+ : Good resistance (prolonged exposure)
– : Limited resistance (possible momentary exposure)
– –: Weak resistance (exposure to be acoided)

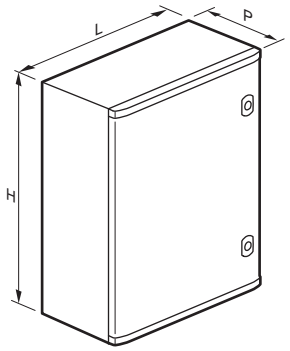
Aqueous solutions	Cold water		++
	Hot water		+
	Vapor		–
	Saltwater 5 %		+
	Hydrogen peroxide		–
	Water + detergent		+
	Water + surfactants		+
	Aldehyde		–
Alcohols	Ethanol		+
	Methyl alcohol		+
	Propanol		+
	Butanol		+
Glycols	Ethylene glycol		+
Carbolic			–
Cresols			–
Bases	Ammoniia		+
	Sodium hydroxide		+
	Sodium hypoclorite		+
	Potassium hydroxide		+
Strong oxidant acids	Acetic acid		+
	Nitric acid 5 %		+
	Sulfuric acid 30 %		+
	Muriatic acid 30 %		+
	Perchloric acid 70 %		++
	Hydrofluoric acid 70 %		– –
	Chromic acid 50 %		–
	Phosphoric acid 30 %	+	
Weak acids	Diluted acetic acid < 25 %		+
	Citric acid		++
	Lactic acid		++
	Formic acid		+
	Uric acid		+
Oils and greases	**From of animal origins**	Lard	++
		Butter and cream	++
	From of vegetable origins	Linseed oil	++
		Peanut and olive	++
		Castor oil	++
		Glycerin	+
	From of mineral origins	Paraffin	++
		Engin oil	+
		Silicon oil	++
		Machine oils	++
		Hydraulic fluid	+
Hydrocarbons	Unleaded gas		+
	Diesel oil		++
	Kerosene		++
	White spirit		++
Chlorinated solvents	Trychloroethylene		– –
	Trichloroethane		–
	Perchloroethylene		– –
	Methylene chloride		– –
	Carbon tetrachloride		– –
	Chloroform		–
Aromatic solvents	Benzene		+
	Toluene		–
	Xylene		+
Aliphatic solvents	Hexane		++
	Heptane		++
Fluoride solvents	Trichlorofluoromethane		– –
Ketones	Acetone		–
	Methyl ethyl ketone		–
	Ethyl acetate		–
Terpenes	Turpentine		–

3.7 Painting behaviour

After having used sandpaper (grain 400 to 600) and degreasing, Marina cabinets can be painted using a polyurethane component paint.
The application of a bonding primer allows the use of all types of paint.

4. DIMENSIONS

4.1 Overall dimensions/weight

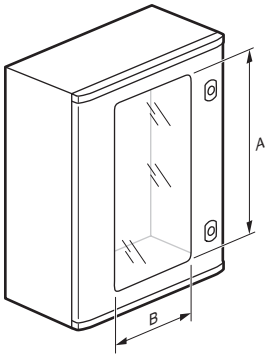


Cat. No.	Overall dimensions H x L x P (mm)	Weight (kg)	Weight with glass door (kg)
362 50	300 x 220 x 160	1.75	-
362 51/71	400 x 300 x 206	3.7	4
362 52/72	500 x 400 x 206	5.1	5.6
362 55/75	610 x 400 x 257	6.4	7
362 56/76	720 x 510 x 250	11.2	12.3
362 61/81	820 x 610 x 300	15.2	16.7
362 63/83	1020 x 810 x 300	21.8	23.9
362 64/84	1220 x 810 x 300	25	27.5

4. DIMENSIONS *(continued)*

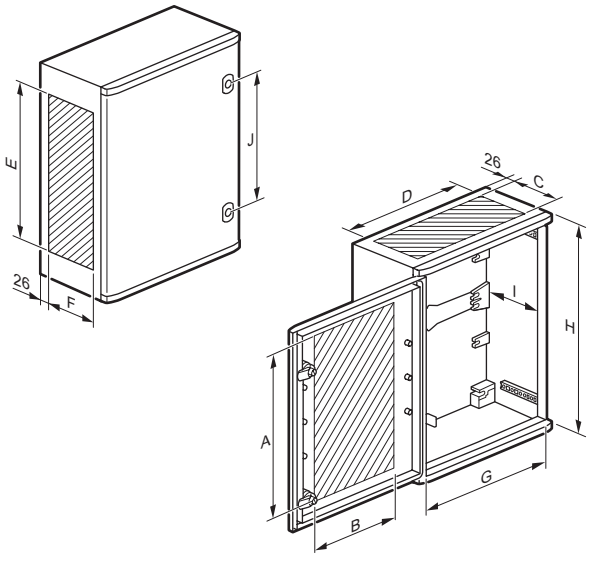
4.2 Dimensions for the window (glass door)

Window centred in height and width.

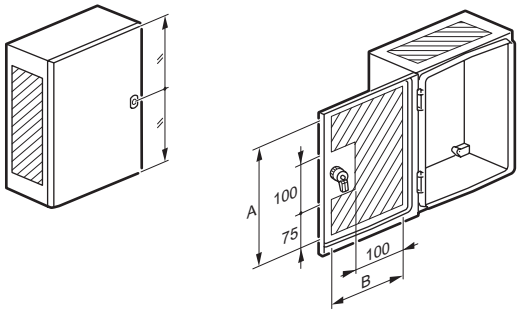


Cat. No.	A (mm)	B (mm)
362 71	235	145
362 72	335	245
362 75	463	245
362 76	570	272
362 81	672	372
362 83	770	495
362 84	970	495

4.3 Useable dimensions



Cat. No. 362 50



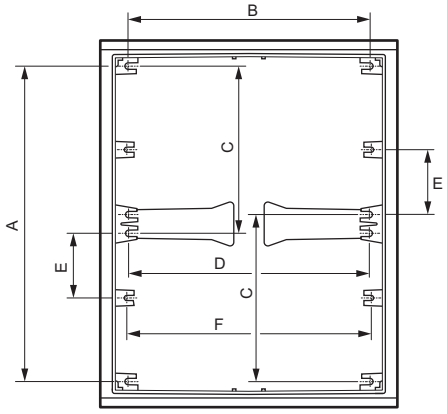
Cat. No.	Useable dimensions (mm)									
	A(1)	B(1)	C	D	E	F	G	H	I maxi	J
362 50	250	150	105	195	250	115	194	280	130	–
362 51/71	300	180	130	250	260	150	260	350	178	200
362 52/72	400	280	130	350	360	150	360	450	178	300
362 55/75	500	280	180	350	460	180	360	560	225	400
362 56/76	600	340	170	400	560	170	460	662	211	400
362 61/81	700	440	220	500	660	230	560	762	261	500
362 63/83	900	600	220	700	860	230	760	962	261	580
362 64/84	1100	600	220	700	1060	230	960	1162	261	700

(1) Except cabinets with glass door
Marking every 50 mm (25 mm for Cat. No. 362 50) inside the door.

Cat. No.	Thiekness of wall (indicative dimensions) (mm)		
	Door	Sides	Rear
362 50	2.5	2.5	2.5
362 51/71	2.7	2.5	3
362 52/72	2.7	2.5	3
362 55/75	2.7	2.5	3
362 56/76	4	3.5	3.5
362 61/81	4	3.5	3.5
362 63/83	4	3.5	3.5
362 64/84	4	3.5	3.5

4.4 Equipment fixing

Direct fixing at back of cabinet.
Intermediate fixing points for partial plate
(except Cat. No. 362 50/51/71) and rails (except Cat. No. 362 50).

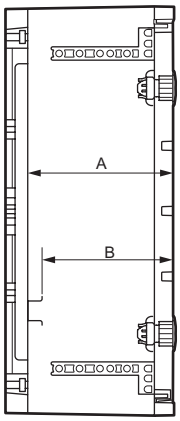


Cat. No.	Dimensions (mm)					
	A	B	C	D	E	F
362 50	263	163	-	-	-	-
362 51/71	325	225	125	225	102.5	228.5
362 52/72	425	325	225	325	87.5	228.5
362 55/75	525	325	325	325	95	328.5
362 56/76	625	425	425	425	100	428.5
362 61/81	725	525	525	525	100	528.5
362 63/83	925	725	725	725	100	728.5
362 64/84	1125	725	925	725	100	728.5

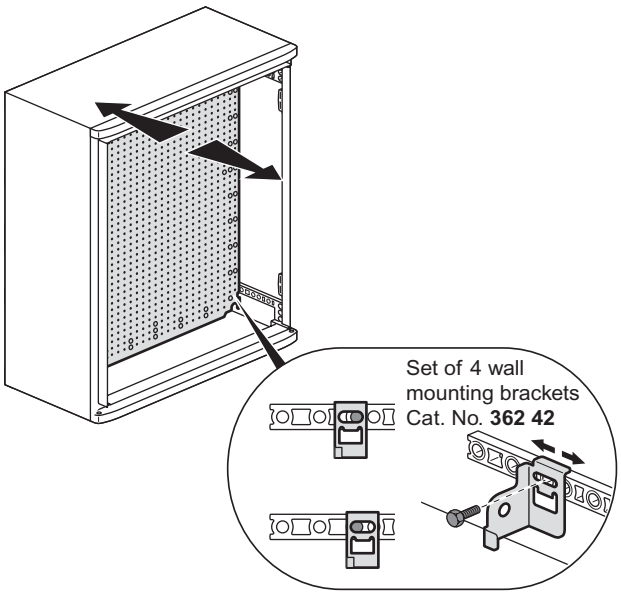
4. DIMENSIONS *(continued)*

4.5 Equipment adjustment

Depth adjustment using kit Cat. No. 362 42 (except Cat. No. 362 50).



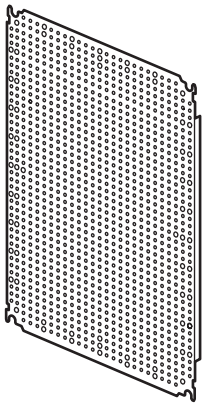
Cat. No.	Total plate (mm)		Chassis with rail ⌐¬ (mm)	
	A max.	A min. with Cat. No 362 42	B max.	B min. with Cat. No 362 42
362 50	135	-	-	-
362 51/71	170	70	155	55
362 52/72	170	70	155	55
362 55/75	220	70	205	55
362 56/76	220	70	205	55
362 61/81	270	70	255	55
362 63/83	270	70	255	55
362 64/84	270	70	255	55



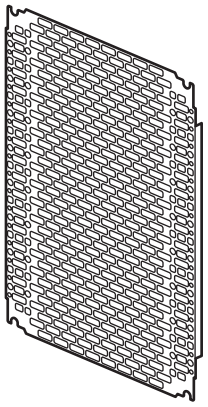
5. EQUIPMENTS

5.1 Plain plates, Lina 12.5, perforated Lina 25

Lina 12.5



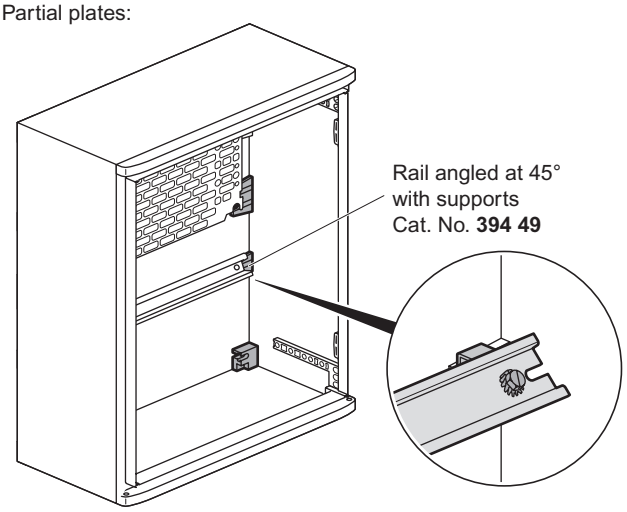
Lina 25



- Total plates:

Cabinets		Total plate		
Cat. No.	H x L (mm)	Plain	Lina 12.5	Lina 25
362 50	300 x 220	360 49	360 01	360 99
362 51/71	400 x 300	360 52	360 04	360 12
362 52/72	500 x 400	360 55	360 09	360 15
362 55/75	600 x 400	360 56	360 22	360 16
362 56/76	700 x 500	360 58	360 31	360 18
362 61/81	800 x 600	360 59	360 33	360 19
362 63/83	1000 x 800	360 61	360 42	360 21
362 64/84	1200 x 800	360 64	360 46	360 87

- Partial plates:



Example of a cabinet Cat. No. 362 52 with partial plate and rail mounted on intermediate studs.

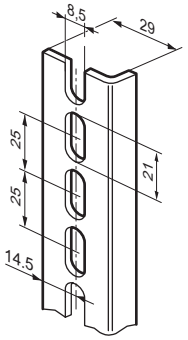
Cabinets	Plates H x L (mm)	Partial plates		
		Plain	Lina 12.5	Lina 25
362 52/72	300 x 400	360 52	360 04	360 11
362 55/75	400 x 400	360 70	360 05	360 92
362 56/76	500 x 500	360 71	360 14	360 93
362 61/81	600 x 600	360 57	360 24	360 17
362 63/83	800 x 800	360 60	360 34	360 20
362 64/84	1000 x 800	360 61	360 42	360 21

5. EQUIPMENTS *(continued)*

5.2 Sectioned uprights and Lina 25 rails

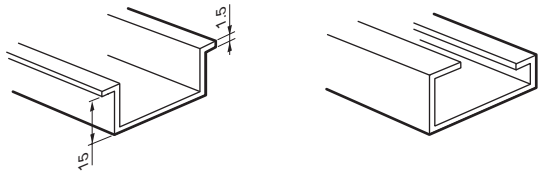
For chassis production

- Uprights:



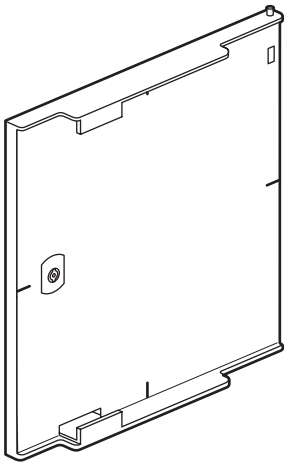
Cabinet		Uprights (set of 2)
Cat. No.	Height (mm)	
362 51/71	400	361 51
362 52/72	500	361 52
362 55/75	600	361 53
362 56/76	700	361 54
362 61/81	800	361 55
362 63/83	1000	361 56
362 64/84	1200	361 58
3 m to be cut to length		361 92

- Rails:



Cabinet		Rail Cat. No.	
Cat. No.	Width (mm)	⌐¬	⌐¬
362 51/71	300	367 80	
362 52/55/72/75	400	367 81	
362 56/76	500	367 82	
362 61/81	600	367 83	
362 63/64/83/84	800	367 84	
2 m to be cut to lenght		374 07	374 02

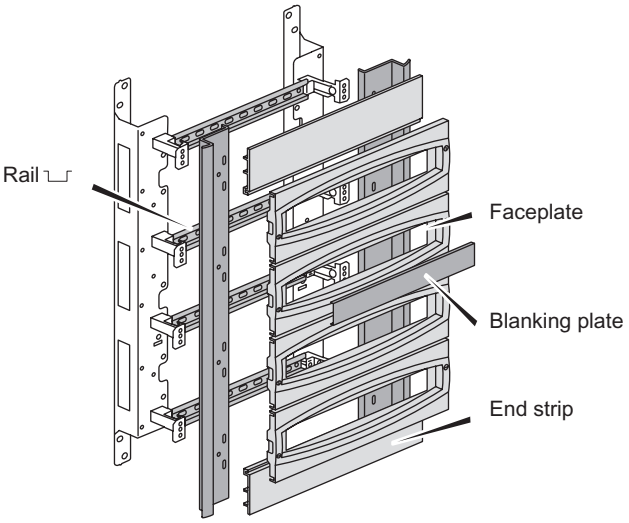
5.3 Internal polyester doors RAL 7035



Cabinet		Internal door Cat. No.
Cat. No.	H x L (mm)	
362 51/71	400 x 300	363 59
362 52/72	500 x 400	363 60
362 55/75	600 x 400	363 61
362 56/76	700 x 500	363 62
362 61/81	800 x 600	363 63
362 63/83	1000 x 800	363 64
362 64/84	1200 x 800	363 65(1)

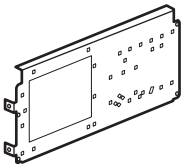
(1) Internal door like Cat. No. 363 64 with adjustable distance of 200 mm at top and bottom of door.

5.4 Chassis with insulating plates RAL 7035



Cabinet		Chassis	
Cat. No.	H x L x P (mm)	Cat. No.	Capacity
362 51/71	400 x 300 x 200	361 01	3 rows of 10 modules
362 52/72	500 x 400 x 200	361 02	3 rows of 16 modules
362 55/75	600 x 400 x 250	361 03	3 rows of 16 modules
362 56/76	700 x 500 x 250	361 05	4 rows of 21 modules
362 61/81	800 x 600 x 300	361 06	4 rows of 27 modules
362 63/83	1000 x 800 x 300	361 09	5 rows of 38 modules
362 64/84	1200 x 800 x 300	361 10	6 rows of 38 modules

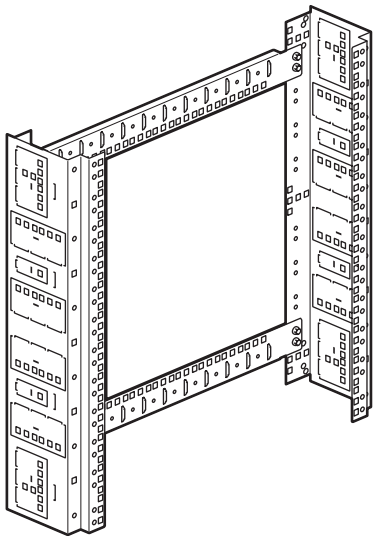
- Mounting plate for chassis:



Chassis		Mouting plate	
Cat. No.	H x L x P (mm)	Cat. No.	For power devices
361 06	800 x 600 x 300	360 44	DPX 125, DPX160 ou Vistop 160 A
361 09	1000 x 800 x 300	360 45	DPX 125, DPX 160, DPX 250 ER, Vistop 160 A ou Vistop 250 A
361 10	1200 x 800 x 300		

5. EQUIPMENTS *(continued)*

5.5 VDI chassis

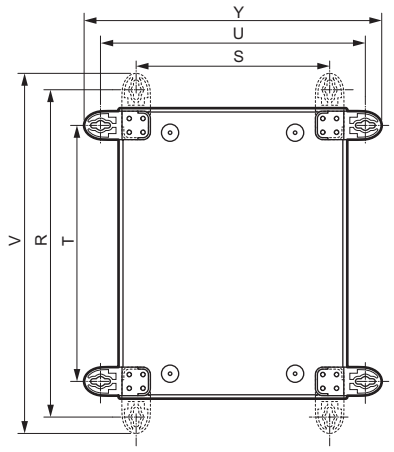


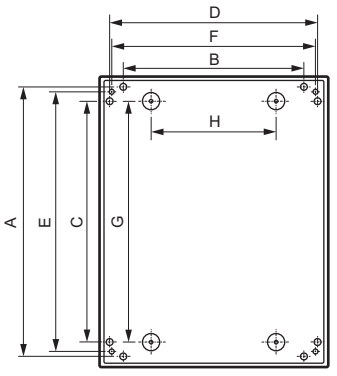
Cabinet		VDI chassis	
Cat. No.	H x L x P (mm)	Cat. No.	Capacity
362 55/75	600 x 400 x 250	340 71	12 U (1)
362 61/81	800 x 600 x 300	340 72	16 U (2)

(1) For same equipment as mini XL VDI cabinet Cat. No. 329 81.
(2) For 19-inch equipment.

6. FIXING

Rear fixing on inserts (no passthrough) maintains IP66 and Class II.



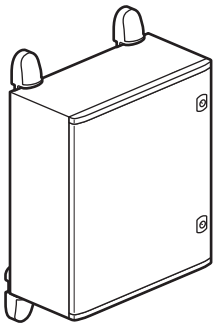


Cat. No.	On stand Cat. No. 364 36 and by threaded rods (mm)		On post with kit Cat. No. 364 46/47/ 364 46/47/48/49 and by threaded rods (mm)		Direct fixing outside mounting equipment area and on stand Cat. No. 364 37 (mm^3)	
	A	B	C	D	E	F
362 50	-	-	-	-	-	-
362 51/71	364	218	325	266	358	259
362 52/72	464	318	425	366	458	359
362 55/75	574	318	525	366	558	358
362 56/76	683	427	630	460,5	664	468
362 61/81	781	525	730	560,5	764	568
362 63/83	-	-	-	-	964	768
362 64/84	-	-	-	-	1164	768

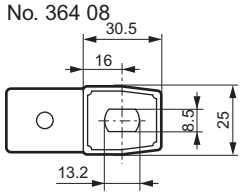
Cat. No.	Direct fixing through rear of cabinet (mm^3)		With vertical brackets (mm)			With horizontal brackets (mm)		
	G	H	R	S	V	T	U	Y
362 50(1)(2)	220	150	330	190	359	270	250	279
362 51/71	325	120	470	241	525	341	370	425
362 52/72	425	220	570	341	625	441	470	525
362 55/75	525	220	680	341	735	551	470	525
362 56/76	600	200	789	441	844	641	579	634
362 61/81	700	300	887	548	942	758	677	732
362 63/83	900	500	1087	748	1142	958	877	932
362 64/84	1100	500	1287	748	1342	1158	877	932

(1) With brackets Cat. No. 364 08
(2) S and T: insert centre distances
(3) Through fixing

- Wall fixing with brackets:

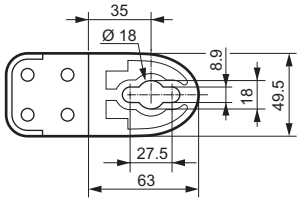


Set of brackets RAL 7035
Cat. No. 364 08



For cabinet H 300 mm
Polyamide

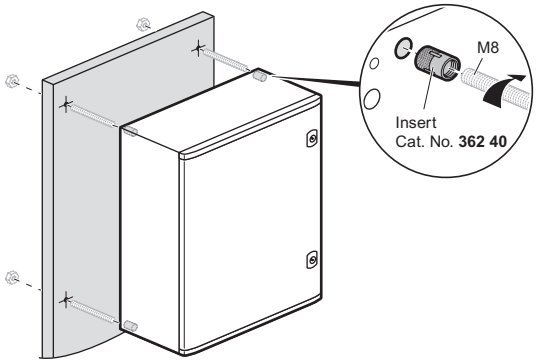
Cat. No. 364 09



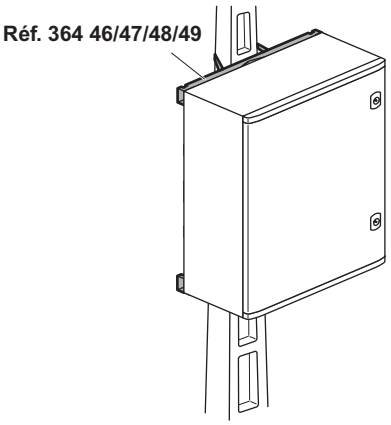
For cabinets H ≥ 400 mm
Polyester
Polyamide cover RAL 7016

6. FIXING *(continued)*

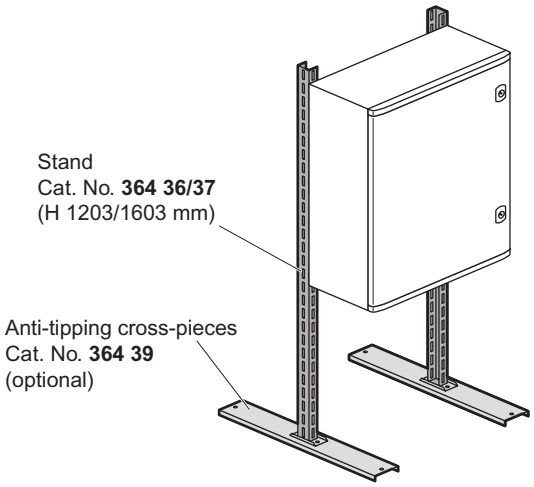
- Wall fixing by threaded rods:



- Fixing on post:

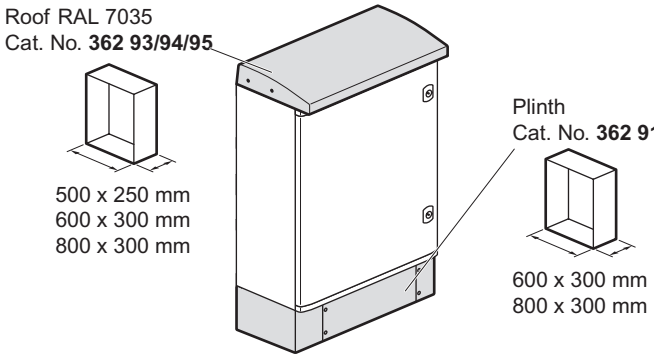


- Floor fixing with stand:



Stand Cat. No. 364 37 is supplied with accessories to maintain IP 66 and Class II at the level of the passthrough fixing.

- Floor fixing on plinth H 170 mm (polyester RAL 7035):



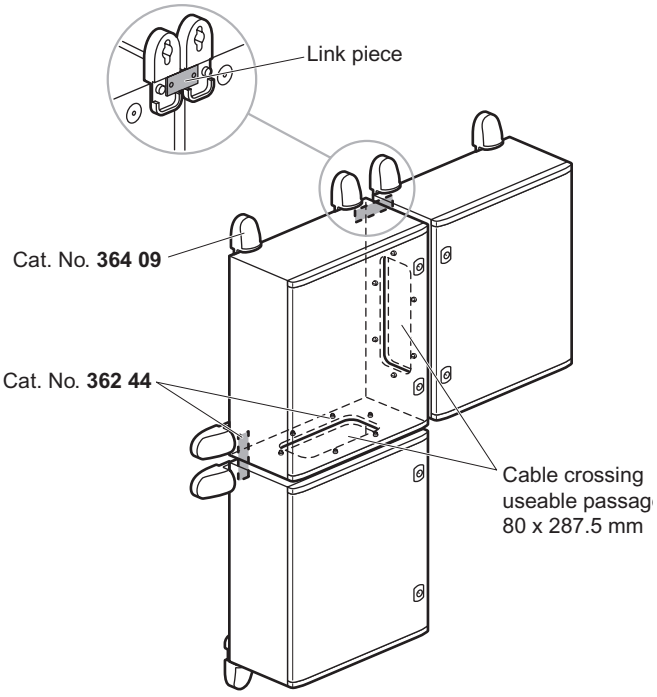
7. ACCESSORIES

7.1 Joining kit Cat. No. 362 44

Cabinets can be joined horizontally or vertically with Cat. Nos. 36250/51/71). The kit is composed of:

- 2 linking pieces of fixing brackets (Cat. No. 364 09 to be ordered separately) stainless steel,
- 1 cable crossing frame in glassfibre-filled polyester with integrated polyurethane seals,
- 1 drilling template, screw in stainless steel.

IP 66, Class II and max. load (500 kg/m^3) are maintained.

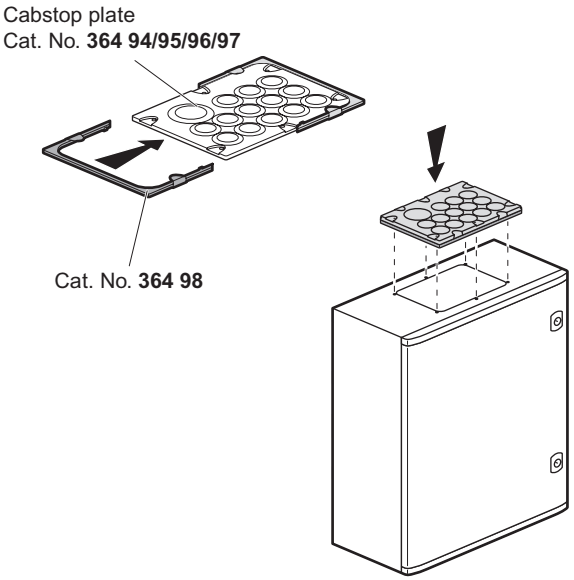


From height 800 mm upwards 2 cable crossign frames can be fitted on the height of the cabinet.

7. ACCESSORIES *(continued)*

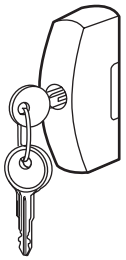
7.2 Cabstop Kit RAL 7035 Cat. No. 364 98

Kit Cat. No. 364 98 enables mounting of IP 55 Cabstop plates on flat surface.
Kit enables mounting of 2 IP 55 Cabstop plates Cat. Nos. 364 94 or 95, and 364 96 or 97 (supplied with drilling template).
Class II is maintained (insulated screws).



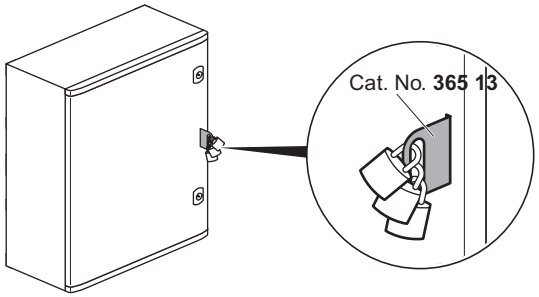
7.3 Handle lock with barrel Cat. No. 368 06

Handle lock is composed of a 2433 A barrel.
IP 66 maintained.
Handle lock 368 05 and other key codes possible.



7.4 Stainless steel padlocking lug Cat. No. 365 13

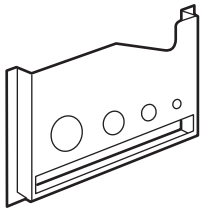
The lug Cat. No. 365 13 allows the padlocking of cabinets (except Cat. No. 362 50) with 3 padlocks Ø 6 mm max. in addition to the locks. IP and Class II are maintained.



Other padlocking possible: Cat. No. 365 11 on lock (or handle lock in accessory).

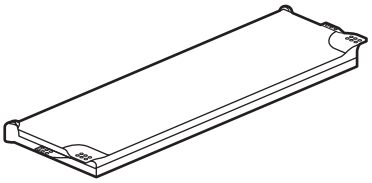
7.5 Self adhesive pockets for plans

- Cat. Nos. 365 80, 340 x 235 mm (internal dimensions: 310 x 200 x 18 mm)
  and Cat. Nos. 365 81, 260 x 165 mm (internal dimensions: 230 x 130 x 18 mm).
  Opened, RAL 7035



- Cat. No. 365 82, 325 x 120 mm (internal dimensions: 324 x 120 x 18 mm). Closed IP 50, RAL 9002.

Capacity of some fifteen A4 sheets of papers folded in two.



- Cat. No. 097 99, 305 x 220 mm (A4 format).
  Flexible and transparent.

7.6 Door contact Cat. No. 363 13

