

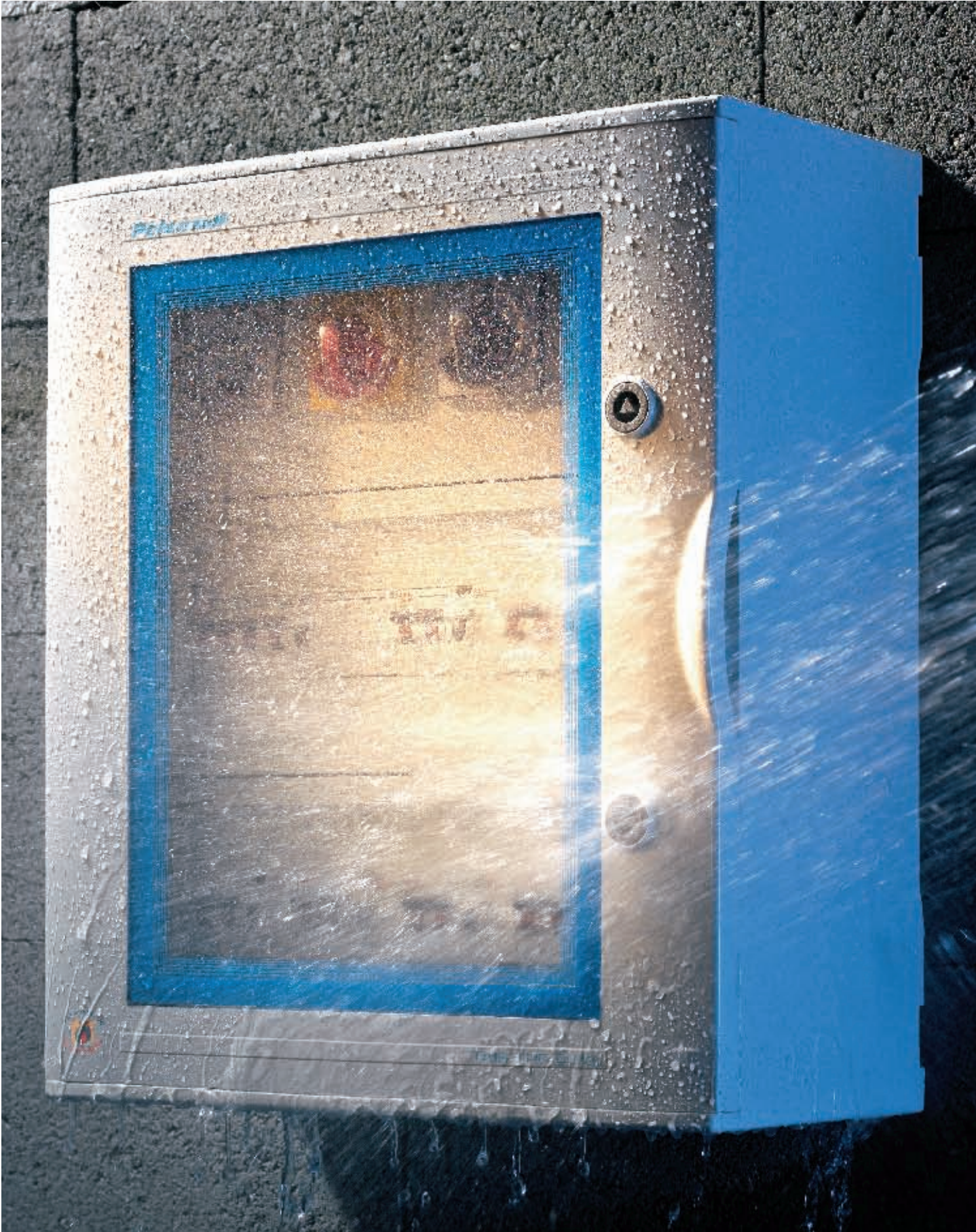


**ELECTRICAL INDUSTRIES**



2011 general catalogue 2012

**FPB Palazzoli**



- Enclosures in this section are offered in four different material types including thermosetting material, mild steel, stainless steel grade 304, & heavy duty rubber
- The TAIS TRE enclosure system is manufactured from flame & corrosion proof thermosetting material with IP66 ingress protection. Enclosures are supplied in a range of sizes featuring either a plain or glazed access door. This easy to assemble product incorporates an extensive range of accessories, making this a truly versatile enclosure system
- The mild steel enclosure family is IP65 ingress protected, & features a double bar type lockable access door & detachable gland plate on the bottom face.  
The enclosure design incorporates a folded & welded single part body, with gutter shaped double folded front edge & polyurethane door seal.  
Steel enclosures offer a high impact resistance  
Enclosures are supplied complete with a mild steel equipment mounting plate. Accessories include a key type lock & wall mounting external bracket sets.
- Enclosures in the stainless steel family have a similar design styling to the mild steel range. The 304 grade stainless steel construction makes the enclosures particularly suitable for installation in industrial sectors where cleanliness, hygiene & resistance to corrosion are of paramount importance, such as in the chemical, petroleum, food & agricultural industries
- The heavy duty rubber enclosure range comprises an array of shapes & sizes. Enclosures offer high impact resistance & are particularly suited to the manufacture of portable electrical distribution units for the film/TV, entertainment & temporary events markets.
- Lewden are pleased to offer fully assembled, wired & tested electrical power distribution units (incorporating circuit protection devices) to meet individual client specification requirements, constructed from any of the above listed enclosure ranges

Contact our custom build division for further details

## THE TECHNIQUE



## TAIS TRE – IP66 WATERTIGHT BOARDS IN THERMOSETTING MATERIAL

The new TAIS TRE board range in thermosetting material is designed and built to withstand high temperature in total safety. The special resin of this material in fact does not burn, it does not give off toxic fumes and, in case of a short circuit, there is no flame propagation outside the board. TAIS TRE is not only fireproof but it is also waterproof and guarantees resistance against humidity and water. The basic range of TAIS TRE boards comes in seven sizes from 265x300mm to 850x1005mm, with blind or transparent doors. In both versions the components click onto the rails inside the board, and they are fixed in place using a screwdriver on a screw which needs 1/4 turn. The gasket in non-ageing elastomer guarantees IP66 protection rating. Access to the board is protected by two safety locks.

The TAIS TRE boards use the shapes and colours of the interlocked socket-outlets from the same range and likewise guarantee top-rate electrical and thermal insulation plus resistance to chemical action.

### APPLICATIONS:

It is recommended to install the TAIS TRE board in areas which are most subject to fire risks, such as: power-electric plants, mineral oil and combustion gas extraction plants, nuclear laboratories and plants, closed storage of combustion materials, retail and showroom areas, airports, railway infrastructures and undergrounds and all other environments where distribution and automation require precise safety requirements and constant service.

## THE ADVANTAGES



IP66



### RELIABILITY MADE IN TAIS

The flame proof TAIS TRE BOARDS IN THERMOSETTING MATERIAL are designed and built to withstand high temperatures. Due to a series of particular technical processes, this material is VO self-extinguishing, it does not give off toxic fumes, it does not deform and remains watertight in all possible conditions.

### HARD FIBRE BOARDS

TAIS TRE has a dimensional stability which is similar to steel. Special technical processes and special resins make this material waterproof and guarantees resistance against humidity and water. It is the ideal solution in locations where cleaning operations are performed using machines with powerful jets of water.

### CORROSION-PROOF

The material used by Palazzoli is a combination of a thermosetting resin base with reinforced fibres and cells (GRP-glass reinforced plastic). The same material is used in the aeronautic sector (for instance on the Boeing 777) as it is sturdy and light and is stress, corrosion and impact resistant.

### EASY TO ASSEMBLE

All you need is one screwdriver to assemble and disassemble the various components.



## REALLY SIMPLE WIRING, ASSEMBLING AND MAINTENANCE

The blind panels boards and supports can be wired outside the board. The frame can be fitted with cable runners fastened by self-threading screws for plastic on the back Ø 3,5mm with a max length of 15mm, behind the DIN rails.



## WATERTIGHT GEOMETRY



The geometry of the internal perimeter guarantees IP66 protection rating. It is water resistant up to 100 litres a minute.

## QUICK ASSEMBLY



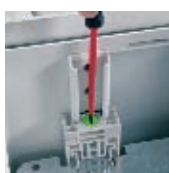
No tools are needed during installation. The doors hook onto the brackets and are reversible.

## MAXIMUM VERSATILITY



The DIN rails are adjustable and allow you to fit 47 and 75 mm modular devices. This operation requires a simple adjustment of the central screw on the DIN bearing structure.

## ADAPTABLE TO SUIT REQUIREMENTS



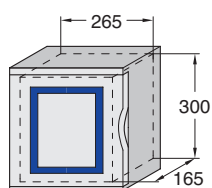
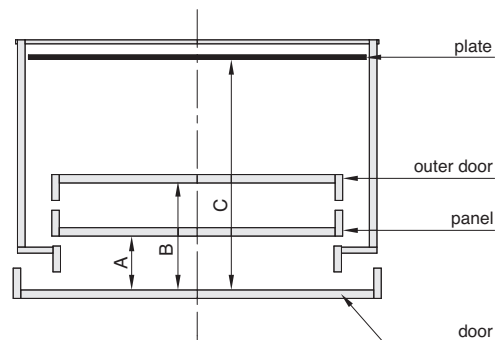
The sliding parts allow you to position the mounting plate at different heights.

The IP66 Distribution board system in thermosetting GRP material

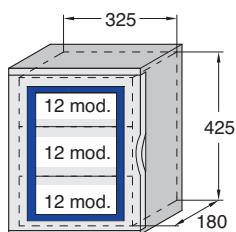


Sizes	No. vertical modules	No. DIN modules	Overall external dimensions			Overall internal dimensions			Blind board	Board with transparent door	Open panel	Blind panel
			L (mm)	H (mm)	D (mm)	L (mm)	H (mm)	D (mm)				
1	-	-	265	300	165	213	251	146	530001	530031	-	-
2	3	36 (3x12)	325	425	180	272	376	162	530002	530032	530520	530540
3	3	54 (3x18)	430	500	210	380	451	189	530003	530033	530521	530541
4	4	72 (4x18)	430	650	210	380	601	189	530004	530034	530521	530541
5	4	96 (4x24)	540	650	260	488	601	243	530005	530035	530522	530542
6	5	140 (5x28)	615	805	315	560	751	297	530006	530036	530523	530543
7	5	190 (5x38)	810	1060	355	-	-	-	530007	530037	530524	530544

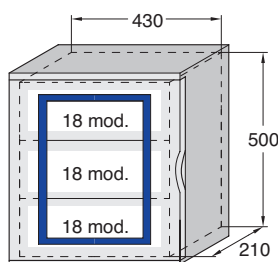
Distance between blind door and panels A (mm)	Distance between blind door and outer door B (mm)	Distance between blind door and plate C (mm)	Distance between transparent door and plate C (mm)
-	-	138	135
40-67	44/74	154	151
40-67-94	44/74	181	178
40-67-94	44/74	181	178
40-67-94-121-148	44/74	236	233
40-67-94-121 148-175-202	44/74	290	287



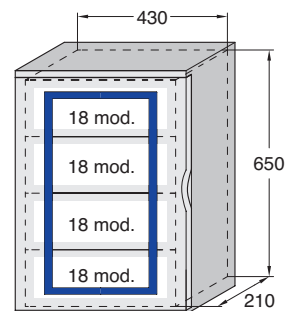
SIZE 1



SIZE 2





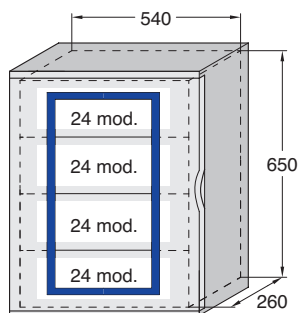
SIZE 3



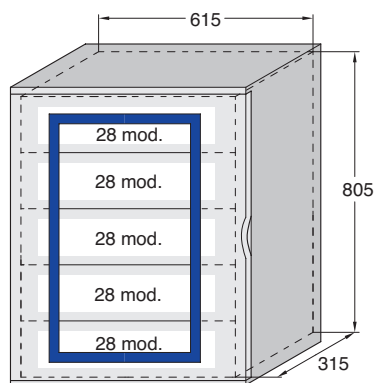
SIZE 4

# ENCLOSURES

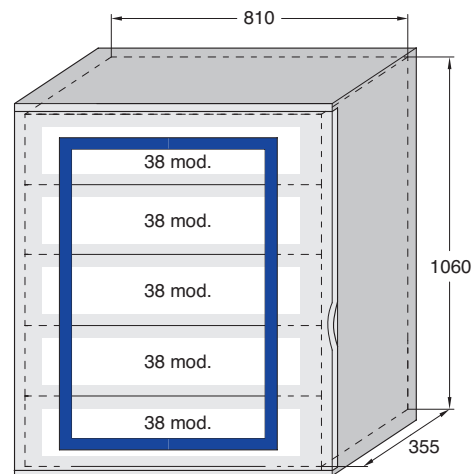
									
Double blind panel	Outer door	Bottom steel plate	Bottom insulating plate	DIN rail	Supports	Sliding accessories	Insulation brackets steel	Insulation brackets steel	Safety lock
-	-	530601	530621	-	-	-	530640	530641	530680
530550	530501	530602	530622	530580	530560	530660	530640	530641	530680
530551	530502	530603	530623	530581	530561	530660	530640	530641	530680
530551	530503	530604	530624	530581	530562	530660	530640	530641	530680
530552	530504	530605	530625	530582	530562	530660	530640	530641	530680
530553	530505	530606	530626	530583	530563	530660	530640	530641	530680
530554	530506	530607	-	530584	530564	530660	530640	530641	530680



SIZE 5



SIZE 6

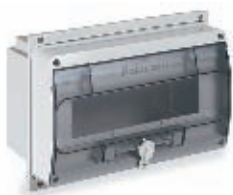


SIZE 7

## ENCLOSURES

<b>Conformity to Standards:</b>	CEI EN 60529	IEC 60529	<b>Self-extinguishing:</b>	V2
<b>Protection rating:</b>	IP65		<b>Insulation:</b>	double e
<b>Impact resistance:</b>	> IK 08		<b>Temperature resistance:</b>	Operating -25 to +50°C
<b>Glow-wire test:</b>	750°C			Storage -30 to +70°C

IP56 Watertight topTER series flush mounted control unit in thermoplastic material



External dimensions (mm)	No. of modules EN 50022	Available power (W)	Code
284x172	12	40	575506

IP65 Watertight junction boxes with knockouts in thermoplastic material



External dimensions (mm)	Internal dimensions (mm)	No of entres	Code
88x88x53	63x70	7xM20	791910
98x98x58	73x78	7xM25	791920
139x119x70	128x86	6xM25/M32, 4xM25	791930
167x125x82	136x112	10xM25/M32	791940
200x160x98	168x145	10xM32/M40	791950
310x210x116	278x185	12xM25/M32, 4xM40/M50	791960

IP65 Watertight topTER series wall-mounted control unit in thermoplastic material



External dimensions (mm)	No. of modules EN 50022	Available power (W)	Code
121x158	5	20	579708
158x250	12	40	579709

IP55 Watertight Prima series wall-mounted control unit in thermoplastic material



External dimensions (mm)	No. of modules EN 50022	Available power (W)	Code
212x114	9	36	579612

## TAIS - MIGNON SERIES

<b>Conformity to Standards:</b>	CEI EN 60529	IEC 60529	<b>Self-extinguishing:</b>	V0
<b>Protection rating:</b>	IP65/IP67/IP68		<b>Insulation:</b>	double e
<b>Impact resistance:</b>	> IK 10		<b>Temperature resistance:</b>	Operating -40 to +70°C
<b>Glow-wire test:</b>	960°C			Storage -50 to +80°C

## TAIS SERIES

IP66/IP67 Watertight Control units in thermosetting GRP material



External dimensions (mm)	No. of modules EN 50022	Available power (W)	Code
125x185	5	15	532300
190x185	8	20	532301
250x185	12	24	532302
290x185	14	28	532303
380x185	19	35	532304

IP67 Watertight Tais series wall-mounted enclosures with blind walls, low cover, in thermosetting GRP material



External dimensions (mm)	Box height (mm)	Cover height (mm)	Code
92x92	50	18	532035
125x92	50	18	532045
185x92	50	18	532055
125x125	75	25	532116
185x125	75	25	532117
250x125	75	25	532118

IP66/IP67 Watertight Rapid mounting enclosure with blind walls, in thermosetting GRP material >IK10



External dimensions (mm)	Hole type	Code
125x185	blind	532200
190x185	blind	532201
190x185	2 holes ø 25mm lower side	532211
250x185	blind	532202
290x185	blind	532203
380x185	blind	532204

IP67 Watertight wall-mounted enclosures with blind walls, high cover, in thermosetting GRP material



External dimensions (mm)	Box height (mm)	Cover height (mm)	Code
92x92	50	50	532005
125x92	50	50	532006
185x92	50	50	532015
125x125	75	50	532016
185x125	75	50	532017
250x125	75	50	532018

IP68 Watertight wall-mounted enclosures with blind walls, low cover, in thermosetting GRP material



External dimensions (mm)	Box height (mm)	Cover height (mm)	Code
92x92	50	50	538005
125x92	50	50	538006
185x92	50	50	538015
125x125	75	50	538016
185x125	75	50	538017
250x125	75	50	538018

IP68 Watertight wall-mounted enclosures with blind walls, high cover, in thermosetting GRP material



External dimensions (mm)	Box height (mm)	Cover height (mm)	Code
92x92	50	18	538035
125x92	50	18	538045
185x92	50	18	538055
125x125	75	25	538116
185x125	75	25	538117
250x125	75	25	538118

Mounting plates in anti-corrosion tropicalised steel, for watertight enclosures



For enclosure with dimensions	For enclosure with code	Code
92x92	532005, 532035, 532225, 538005, 538035, 532005EX, 532035EX	532705
125x92	532006, 532045, 532285, 532295, 538006, 538045, 532006EX, 532045EX	532714
185x92	532015, 532055, 532325, 532385, 538015, 538055, 532015EX, 532055EX	532715
125x125	532016, 532116, 532346, 538018, 538118, 532016EX, 532116EX	532716
185x125	532017, 532117, 532667, 532677, 538017, 538117, 532017EX, 532117EX, 532667EX	532717
250x125	532018, 532118, 532618, 532628, 532638, 532648, 538016, 538116, 532018EX, 532118EX, 532628EX	532718

**Uses:**  
for fastening terminal blocks or non-modular devices.

## ALUPRES SERIES

<b>Conformity to Standards:</b>	CEI EN 60529	IEC 60529	<b>Temperature resistance:</b>	Operating	-40 to +70°C
<b>Protection rating:</b>	IP67/IP54			Storage	-50 to +80°C
<b>Impact resistance:</b>	>> IK 10				

## ALUPRES SERIES

IP67 Watertight enclosures in aluminium alloy with blind walls



External dimensions (mm)	Code
92x92x66	150006
125x125x73	150016
155x155x73	150026

IP67 Watertight boxes with blind walls enclosures in aluminium alloy, with mounting plates in tropicalised steel



External dimensions (mm)	Code
92x92x42	511110
125x125x63	511210
185x125x63	511220
155x155x63	521210
185x185x95	511310
252x185x95	511320
315x252x140	511420

## IP67 Watertight low blind covers for enclosures in aluminium alloy



For box with dimensions (mm)	Cover height (mm)	Code
92x92	23	515111
125x125	10	515200
185x125	25	515221
155x155	10	525200
185x185	10	515300

## IP67 Watertight high blind covers for enclosures in aluminium alloy



For box with dimensions (mm)	Cover height (mm)	Code
92x92	35	515112
125x125	50	515214
185x125	50	515224
185x185	50	515313
252x185	57	515323
315x252	53	515423

## IP67 Watertight control units with blind walls, transparent door and EN50022 rail in aluminium alloy



External dimensions (mm)	No. of modules EN50022	Box height (mm)	Cover height (mm)	Door height (mm)	Code
125x125	4	63	50	30	512204
185x125	6.5	63	50	30	512206
252x185	11	95	50	30	512211

## COMPACT SERIES

<b>Conformity to Standards:</b>	CEI EN 60529	IEC 60529	<b>Impact resistance:</b>	>> IK 10
<b>Flame resistance:</b>	flat terminals 850°C for 90'		<b>Small parts:</b>	Captive stainless steel screws

An extensive range of terminals designed for installation within Alupres & Tais Series enclosures as displayed on pages 113 - 116

## COMPACT SERIES

Junction terminal blocks for watertight enclosures



V	For enclosures with dimensions (mm)	No. Poles for section	Casing material	Code
400	92x92	4x6 mm <sup>2</sup>	Ceramic	532725
400	92x92	4x6 mm <sup>2</sup>	Thermoplastic	532735
400	92x125, 92x185, 125x125, 125x185	4x6 mm <sup>2</sup>	Ceramic	532745
400	92x125, 92x185, 125x125, 125x185	6x6 mm <sup>2</sup>	Ceramic	532765
500	92x185, 125x125, 125x185	4x16 mm <sup>2</sup>	Ceramic	532747
500	125x250	4x16 mm <sup>2</sup>	Ceramic	532748
500	92x92	6x4 mm <sup>2</sup>	Thermosetting	532755
500	125x250	6x16 mm <sup>2</sup>	Ceramic	532768

Terminal blocks for watertight boxes



V	No. Poles for section	For box code	Code
500	4x50 mm <sup>2</sup>	791960	791961
500	5x50 mm <sup>2</sup>	791960	791971

## Junction terminal blocks for watertight boxes - 380V



No. Poles for section	Code
4x6 mm <sup>2</sup>	101096

## Insulated terminal blocks for watertight boxes



V	No. Poles for section	For box code	Code
500	5x4 mm <sup>2</sup>	791910, 791920	791911
500	5x6 mm <sup>2</sup>	791930	791931
500	5x10 mm <sup>2</sup>	791940	791941
500	5x25 mm <sup>2</sup>	791950	791951

## Junction terminal blocks for watertight boxes - 500V



No. Poles for section	Code
4x6 mm <sup>2</sup>	101095

## Junction terminal blocks with mantle terminals for junction boxes - 500V



No. Poles for section	Code
4x6 mm <sup>2</sup>	112094
4x10 mm <sup>2</sup>	113094

Minimum and maximum values of the copper wire section suitable to the connection (extract from the standard CEI EN 60439-1)

Rated current (A)	Rigid wire section (mm <sup>2</sup> )		Flexible wire section (mm <sup>2</sup> )	
	min.	max	min.	max
16	1,5	4	1	4
32	2,5	10	1,5	6
40	4	16	2,5	10
63	6	25	6	16
100	16	50	16	35
125	25	70	25	50
160	35	95	35	70
200	50	120	50	95
250	70	150	70	120
315	95	240	95	185

## Junction terminal blocks with mantle terminals for watertight enclosures - 400V



V	For enclosures with dimensions (mm)	No. Poles for section	Code
400	92x92	4x16 mm <sup>2</sup>	113194

## Junction terminal blocks with flat terminals for watertight enclosures



V	For enclosures with dimensions (mm)	No. Poles for section	Code
500	92x92	3x16 mm <sup>2</sup>	159030
500	125x125	3x25 mm <sup>2</sup>	159032
500	155x155	3x16 mm <sup>2</sup>	159033
500	185x185	3x70 mm <sup>2</sup>	159034
500	220x220	3x125 mm <sup>2</sup>	159035
500	295x295	3x200 mm <sup>2</sup>	159036
500	373x373	3x315 mm <sup>2</sup>	159037
500	125x125	4x16 mm <sup>2</sup>	159040
500	155x155	4x25 mm <sup>2</sup>	159042
500	185x185	4x40 mm <sup>2</sup>	159043
500	220x220	4x70 mm <sup>2</sup>	159044
500	295x295	4x125 mm <sup>2</sup>	159045
500	373x373	4x200 mm <sup>2</sup>	159046

## GRP ENCLOSURES

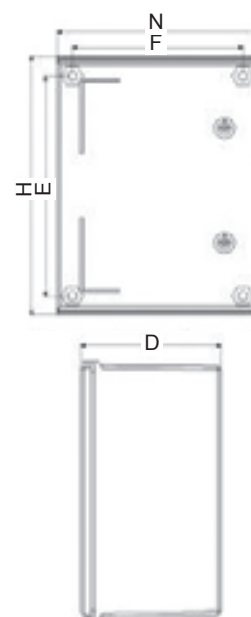
<b>Conformity to Standards:</b>	EN60529 IEC60529	<b>Self extinguishing:</b>	V0	
<b>Protection rating:</b>	IP65	<b>Braker category:</b>		
<b>Impact resistance:</b>	IK10	<b>Temperature resistance:</b>	Operating	-40 to +80°C
<b>Glow wire test:</b>	850°C		Storage	-40 to +80°C

### IP65 Watertight GRP enclosure



DIMENSIONS	CODE
300 x 250 x 140	GRP-302514
400 x 300 x 200	GRP-403020
500 x 400 x 200	GRP-504020

Supplied complete with backplate & wall mounting kit  
Polyurethane gasket



## STEEL ENCLOSURES

<b>Conformity to Standards:</b>	BS EN60529 to 65	<b>Temperature resistance:</b>	Operating	-40 to +100°C
<b>Protection rating:</b>	IP65		Storage	-50 to +180°C
<b>Impact resistance:</b>	IK10	<b>Cable entry:</b>	Gland plate at bottom	
<b>Glow wire test:</b>			Reversible door	
<b>Self extinguishing:</b>	n/a		1.2mm sheet steel finished in RAL7035	
<b>Braker category:</b>	n/a		Supplied complete with zinc plated backplate	

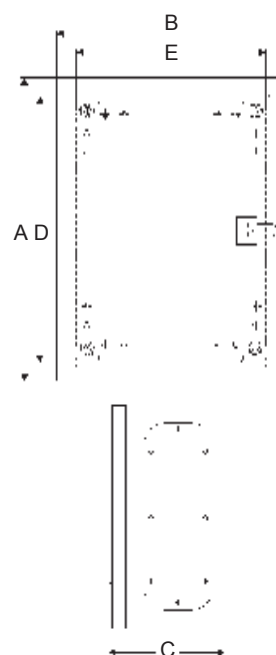
## STEEL

### IP65 Watertight steel enclosures



DIMENSIONS mm.			CODE
HEIGHT (A)	WIDTH (B)	DEPTH (C)	
300	250	200	WME-3025/200
300	300	150	WME-33/150
400	300	150	WME-43/150
400	400	200	WME-44/200
500	400	150	WME-54/150
500	400	200	WME-54/200
600	400	200	WME-64/200
600	500	200	WME-65/200
600	600	200	WME-66/200
700	500	200	WME-75/200
KEYLOCK			WME-KL
WALL MOUNTING KIT			WME-WMK

- Finish colour RAL7035
- Reversible door with T bar lock
- Polyurethane door gasket
- Recessed glad plate on bottom face
- Supplied complete with galvanised steel inner mounting plate



## STAINLESS STEEL ENCLOSURES

<b>Conformity to Standards:</b>	BS EN60529 to IP65	<b>Temperature resistance:</b>	Operating	-40 to +100°C
<b>Protection rating:</b>	IP65		Storage	-50 to +180°C
<b>Impact resistance:</b>	IK10	<b>Cable entry:</b>	Gland plate at bottom	
<b>Glow wire test:</b>			Reversible door	
<b>Self extinguishing:</b>	n/a		1.2mm stainless steel grade 304	
<b>Braker category:</b>	n/a		Supplied complete with zinc plated backplate	

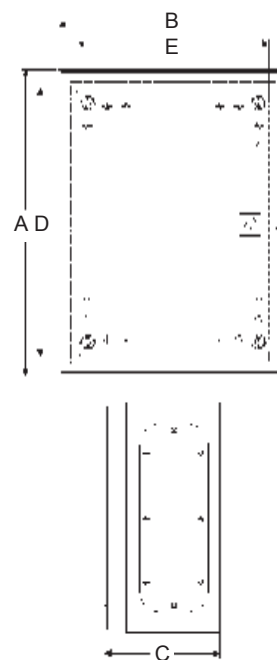
## STAINLESS STEEL

IP65 Watertight 304 grade stainless steel enclosures



DIMENSIONS mm.			CODE
HEIGHT (A)	WIDTH (B)	DEPTH (C)	
250	250	150	SSE-2525/150
300	250	250	SSE-3025/200
300	300	150	SSE-33/150
400	300	150	SSE-43/150
400	400	200	SSE-44/200
500	400	200	SSE-54/200

- Polished finish
- Reversible door with T bar lock
- Polyurethane door gasket
- Recessed gland plate on bottom face
- Supplied complete with inner mounting plate



## RUBBERISED ENCLOSURES

<b>Conformity to Standards:</b>	BS EN60529 to IP65	<b>Temperature resistance:</b>	Operating	-20 to + 50°C
<b>Protection rating:</b>	IP54		Storage	-30 to + 65°C
<b>Impact resistance:</b>	IK10	<b>Cable entry:</b>	Cut to position and size	

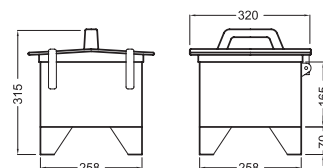
## RUBBERISED

IP54 Splashproof



No. OF 17.5mm MODULES	CODE
12	PRB12S

- Portable
- Integral carry handle & legs
- Includes mounting brackets for din rail devices unhinged lid
- Finger-proof shield plate – un-machined

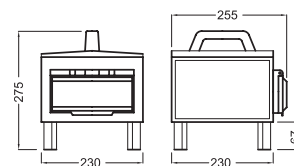


IP54 Splashproof



No. OF 17.5mm MODULES	CODE
10	PRB10

- Portable
- Integral carry handle & legs
- Transparent hinged access window

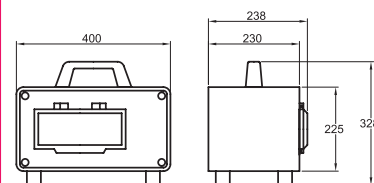


IP54 Splashproof



No. OF 17.5mm MODULES	CODE
12	PRB12L

- Portable
- Integral carry handle
- Transparent hinged access window

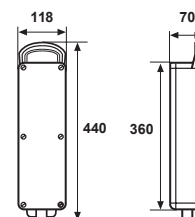


IP55 Splashproof



CODE
PMB360

- Portable
- Integral carry handle
- Screw on cover

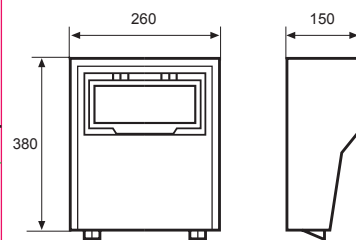


## IP54 Splashproof



No. OF 17.5mm MODULES	CODE
12	PRB22

- Suitable for wall mounting
- Hinged front cover

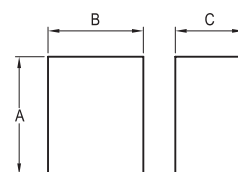


## IP54 Splashproof



DIMENSIONS mm			CODE
HEIGHT (A)	WIDTH (B)	DEPTH (C)	
260	145	80	PRB230
231	145	80	PRB231

- Handle PRB5010
- Design incorporates screw on cover

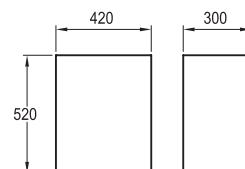


## IP65 Splashproof



CODE
PRB570

- Handle PRB5010 Extra
- Design incorporates 1x screen on flat side panel for equipment mounting

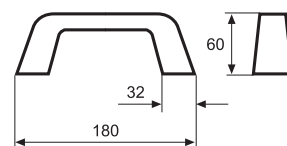


## Accessories

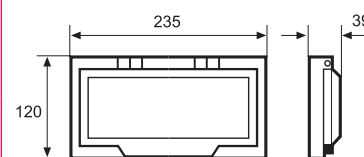


CODE
PRB5010

- Handle PRB5010 Extra
- Design incorporates 1x screen on flat side panel for equipment mounting



No. OF 17.5mm WIDE MODULES	CODE
12	PRB5412



## Combi blok


- A compact & extremely durable rubberised enclosure equipped with varying socket outlet combinations, providing the user with a lightweight & portable multi-gang extension unit.
- Our most popular socket combinations are displayed in the adjacent part number table
- Lewden are pleased to offer fully assembled, wired & tested multi-gang Combi Bloks to meet individual client socket specification requirements (incorporating up to a maximum of 4 sockets)

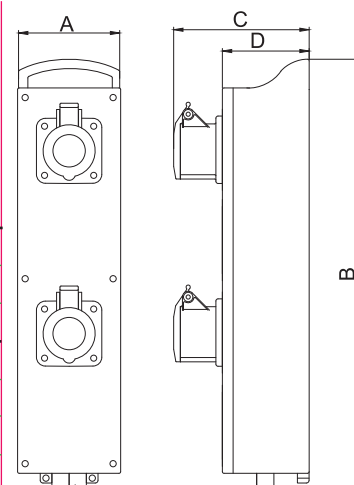
Contact our Custom Build team for further details

## RUBBER COMBI BLOKS

IP44 Splashproof



A	V	No. of SOCKETS	Diagram
16	110	2	 2P+E
		3	
		4	
	230	2	
		3	
		4	



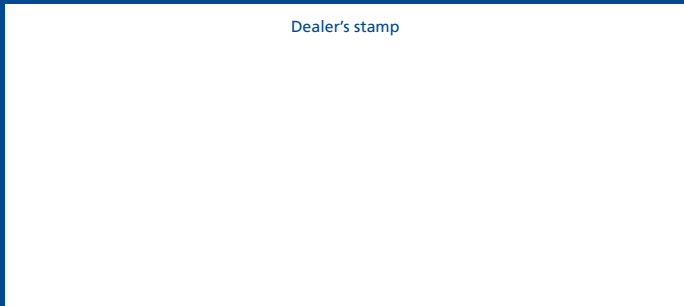
M20 CABLE ENTRY GLAND

Rated current (A)	Poles	A (mm)	B (mm)	C (mm)	D (mm)
16	2P+E	115	430	55	48
	3P+E	115	430	55	48
	3P+N+E	115	430	55	48



- Lewden are pleased to offer fully assembled, wired & tested electrical power distribution units (incorporating circuit protection devices) to meet individual client specification requirements, constructed from any of the above listed enclosure ranges

Contact our custom build division for further details



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