general catalogue

Himel

Our Company

Since 1958, Himel has always been anxious to remain very close to its customers. The constant innovation in our designs, improvements in our logistics process and the continuous expansion of our world distribution network demonstrate this fact.

We are specialists in the design, production and marketing of enclosure systems which ease the implementation of your installations and protect them under any environmental conditions.

Our products adapt perfectly to each and every one of the necessities of the industrial, tertiary and domestic sectors.

Our values

Over the years, Himel has developed the values that bring it closer to its customers:

- Wide range of enclosures available near you.
- Easily adaptable, flexible universal solutions.
- Enclosures designed to simplify and carry out your installations.
- Reactivity and maximum cooperation.

Himel "Always close to you"

Himel's extensive catalogue offers technical solutions for enclosures in steel, stainless steel, thermoplastic and polyester, including the elements for thermal control in the interior of the enclosure and a very wide range of accessories to facilitate the construction of your equipment.

In this way, we can always be close to your applications, whether they are for electrical distribution, industrial control and automatism or voice and data networks, in the industrial, infrastructure, tertiary or residential markets.

The communication link with our customers is established by means of our extensive sales network, which offers you highly-qualified, professional personal treatment, satisfying all your needs and keeping you constantly informed of our products and services.

Himel in the world

During the last 25 years, Himel has been implanting an intense strategy of internationalisation. This has made it possible for our enclosures today to be protecting thousands of installations in the five continents, with a total guarantee of quality.

Thanks to a wide, professionalized distribution network, we have succeeded in locating our range of enclosures always close to where you are, available for rapid, sure delivery in most of the countries in the world.

A will of iron to achieve quality, service and reactivity to our customers' demands, has allowed us to consolidate a position of leadership in the enclosures market, which permits us to continue developing advanced solutions for protecting your future installations, wherever they may be.

Logistics are the key

One of the reasons for our success is the importance we attach to logistics. Our commitment to serving our customers, in an increasingly efficient manner all over the world, impels us to make efforts in logistical innovations that are applied to all processes of storage, transport, distribution and marketing.

We apply new database, automatic identification, and packaging technologies which ensure that waiting times are minimal, that errors are not produced, that the products are well transported and that handling and storage are simple.

Logistics thus become a competitive advantage, which permits delivery periods to be shortened and, most important of all, allows us to provide customers with an excellent service.

Ranking and classification of the products and their different components

Each product line is composed of different sections: title page, introduction, panorama, explanations, selection table, product and description, panel of models and references, dimensions and diagrams, basic components, installation systems, accessories and complements.

These sections are coded as follows:

Ranking coding:

Colour corresponding to product line

Colour corresponding to systems

Colour corresponding to accessories

Classification of the enclosures in the chapters

In the selection tables, you will find, duly indicated, the product's degree of protection, plus a small summary of the page where this enclosure is located, for your complete information.

Ranking coding:

1. **Product lines section**
   1.1. Sub-index.
   1.2. Introduction.
   1.3. Tables of description by selection type.
   1.4. Tables of selection by type.
   1.5. Main points.
   1.6. Models, measurements, references, diagrams.
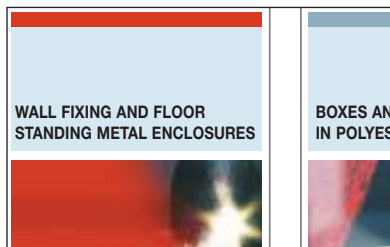
2. **Systems section**
   2.1. Selection tables.
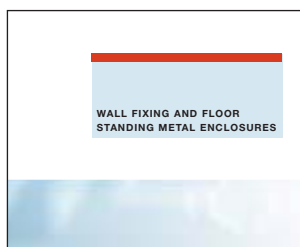   2.2. Product description, tables, diagrams.

3. **Accessories section**
   3.1. Selection tables.
   3.2. Product description, tables, diagrams.

Detail colour code for indexes

Detail colour code for title pages

Himel and the environment

At Himel, we are committed to our planet. Therefore, we have a company culture that is absolutely respectful of the environment. We integrate into our strategic decisions the development manufacturing products and processes that optimise energy consumption and permit recycling.

All our factories have obtained the **ISO 14001 Certificate of Environmental Management**, the maximum institutional recognition for Himel's efforts towards the development and application of clean technologies in production processes, which reduce environmental impact and contribute to the conservation of the environment.
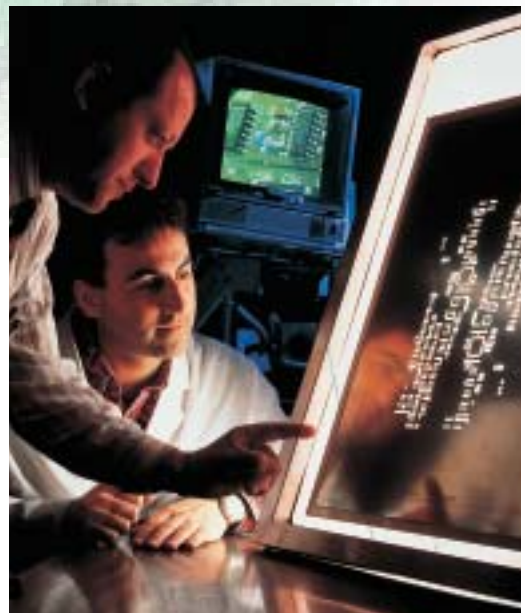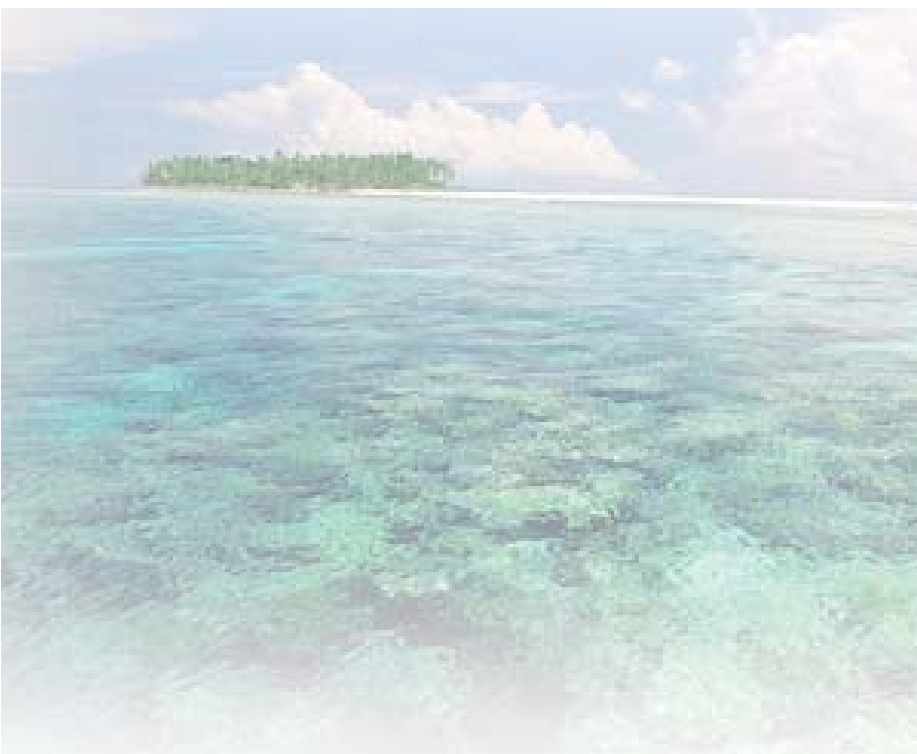
At Himel, quality is not improvised

Quality at Himel is an indispensable requirement to guarantee that our customer's needs are met.

It is the result of integral management, which encompasses both the staff of the company and our suppliers in this philosophy. The Company Registration Certificates **ER-008/1/91** and **ER-009/1/91** according to **UNE-EN-ISO-9001** granted by **AENOR**, reaffirm the validity of the management systems for ensuring the quality of our products. Products which have been tested and certified by the most prestigious international organisms.

User's guide

In this section, which we call the "User's Guide", we define the visual codes necessary to better understand and use this catalogue.

Inside, the graphic elements are explained that define the composition, structure, colour and other components of the different chapters, so as to facilitate a rapid and efficient search for anything that may be of immediate interest.

2005 General Catalogue Sectional chapters

This Catalogue, in addition to the different general information sections, consists of 6 chapters, each of which corresponds to a range of our products. You will find these chapters duly paginated in the general table of contents and in the particular sub-indexes.

An identifying colour has been established for each of the sections making up the catalogue and this indicates in which section it is located throughout the catalogue. You will also find this colour coding on the side of the catalogue to help you to look for the different product ranges.

Both the list of contents and the entries to the different chapters include this coding, so that you can always know which section of the catalogue you are reading.

Colour coding

1 - WALL FIXING AND FLOOR STANDING METAL ENCLOSURES

2 - BOXES AND ENCLOSURES IN POLYESTER

3 - METAL AND INSULATING BOXES AND ENCLOSURE
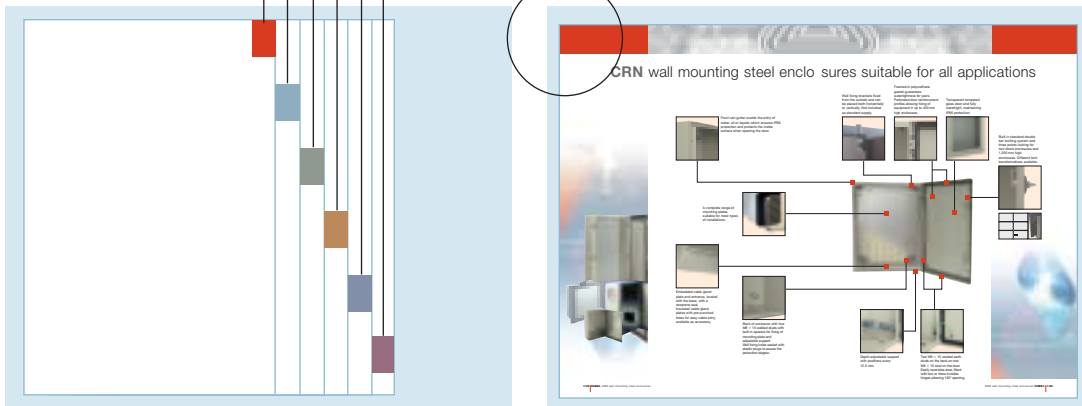
4 - BOXES FOR MODULAR DISTRIBUTION

5 - THERMAL CONTROL FOR ELECTRICAL SWITCHBOARDS

6 - ACCESSORIES

Example of use of colour identifier at (explanatory) chapter beginnings

CRN wall mounting steel enclo sures suitable for all applications

WALL FIXING AND FLOOR STANDING METAL ENCLOSURES

BOXES AND ENCLOSURES IN POLYESTER

METAL AND INSULATING BOXES AND ENCLOSURES

Wall fixing and floor stan
natural toughne

- **Wall mounting steel enclosures CRN:** Made from a continuous length of sheet steel.

- **Control boxes system CM:** Designed to fit human-machine dialogue elements.

- **Floor industrial enclosures CMO:** Monobloc construction and door reinforcement 11×13 mm drilling with a 25 mm pitch for mounting of accessories.

- **Industrial cubicle system OLN:** Triangular closed profile structure with welded top and base and vertical bolted on profiles for maximum versatility.

- **Monobloc control desks PK:** Excellent internal accessibility together with a wide range of applications and installations.

- **Stainless steel enclosures CRSX-CMOX:** Made from AISI 304 quality stainless steel with a mechanical polish for an excellent surface quality.

- **Metal enclosures for electromagnetic protection EMC:** Made from especial ALU-ZINC 150 sheet metal, wich gives good reflection of electromagnetic waves.

		WALL FIXING		FLOOR STANDING		
		CRN	**CM**	**CMO**	**OLN**	**PK**
Enclosure features	Protection degree	IP66	IP66	IP55	IP55	
	No. of sizes/models	45/86	8/8	48/122	59/277	4/4
	Dimensions (mm)	$250 \times 200 \times 150$ to $1200 \times 1000 \times 400$	$300 \times 300 \times 200$ to $800 \times 600 \times 300$	$1000 \times 1000 \times 300$ to $2000 \times 1600 \times 600$	$1200 \times 600 \times 400$ to $2200 \times 1200 \times 800$	
Installation systems	**Mounting plates**					
	Metal	■		■	■	■
	Insulating	■				
	Universal	■				■
	Perforated	■				
	Universal chassis			■	■	
	Distribution chassis					
	18 mm modules	up to 236		up to 352	up to 432	
	Metal cover plates	■		■	■	
	Insulating cover plates	■			■	
	19" racks"					
	No. of units U	5 to 25		6 to 47	6 to 47	
	Fixed	■		■	■	
	Swing	■				
	Centred full rack			■	■	
	Full off-centre rack			■	■	
	Partial			■	■	
	Internal doors	■		■	■	
Accessories	**Canopies**	■		■	■	
	Plinths	■		■	■	
Page		1/22	1/44	1/56	1/70	1/154

ding metal enclosures
ss and strenght

CRSX stainless enclosures are particularly suitable for corrosive environments where a high degree of cleanliness is required: food, pharmaceutical, petrochemical industries…, etc.

The main feature of OLN cubicles is that they can be joined together to form large bay switchboards and their full accessibility.
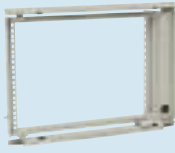
Amongst the various OLN installation systems the PC application is paramount.

PKP	PKP/F	STAINLESS STEEL			ELECTROMAGNETIC PROTECTION		
		CRSX	CMOX	PKPX	CRAF	COAF	OLAF
IP55		IP66	IP55	IP55	IP66	IP66	IP66
4/4	8/8	14/14	9/9	4/4	9/9	3/3	4/4
1024 × 600 × 466 to 1400 × 1600 × 1045		300 × 200 × 150 to 1200 × 800 × 300	1200 × 1000 × 300 to 2000 × 1600 × 600	1024 × 600 × 597 to 1024 × 1200 × 597	400 × 300 × 200 to 1200 × 800 × 300	1600 × 800 × 400 to 2000 × 800 × 400	1800 × 800 × 400 to 2000 × 800 × 600
■	■	■	■	■	■	■	■
		■					
■	■	■		■			
		■		■			
			■				
		up to 236					
		■					
		■					
			■				
		■			■	■	■
		■	■		■	■	■
		■		■			
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ENCLOSURES, DIMENSIONS AND REFERENCES

External dimensions (mm)			IP66		Mounting plates			
			Reference		Metal	Insulating	Drilling	Universal
Height	Width	Depth	Plain	Glazed				
250	200	150	CRN-2520/150	-	MM-2520	MB-2520	MF-2520	-
300	250	150	CRN-3025/150	…KT	MM-3025	MB-3025	MF-3025	MR-3025
300	250	200	CRN-3025/200	…KT	MM-3025	MB-3025	MF-3025	MR-3025
300	300	150	CRN-33/150	…KT	MM-33	MB-33	MF-33	MR-33
300	300	200	CRN-33/200	…KT	MM-33	MB-33	MF-33	MR-33
300	400	200	CRN-34/200	…KT	MM-34	MB-34	MF-34	MR-34
400	300	150	CRN-43/150	…KT	MM-43	MB-43	MF-43	MR-43
400	300	200	CRN-43/200	…KT	MM-43	MB-43	MF-43	MR-43
400	400	200	CRN-44/200	…KT	MM-44	MB-44	MF-44	MR-44
400	600	250	CRN-46/250	…KT	MM-46	MB-46	MF-46	MR-46
400	600	300	CRN-46/300	…KT	MM-46	MB-46	MF-46	MR-46
500	400	150	CRN-54/150	…KT	MM-54	MB-54	MF-54	MR-54
500	400	200	CRN-54/200	…KT	MM-54	MB-54	MF-54	MR-54
500	400	250	CRN-54/250	…KT	MM-54	MB-54	MF-54	MR-54
500	500	250	CRN-55/250	…KT	MM-55	MB-55	MF-55	MR-55
600	400	150	CRN-64/150	…KT	MM-64	MB-64	MF-64	MR-64
600	400	200	CRN-64/200	…KT	MM-64	MB-64	MF-64	MR-64
600	400	250	CRN-64/250	…KT	MM-64	MB-64	MF-64	MR-64
600	500	150	CRN-65/150	…KT	MM-65	MB-65	MF-65	MR-65
600	500	200	CRN-65/200	…KT	MM-65	MB-65	MF-65	MR-65
600	500	250	CRN-65/250	…KT	MM-65	MB-65	MF-65	MR-65
600	600	200	CRN-66/200	…KT	MM-66	MB-66	MF-66	MR-66
600	600	250	CRN-66/250	…KT	MM-66	MB-66	MF-66	MR-66
600	600	300	CRN-66/300	…KT	MM-66	MB-66	MF-66	MR-66
600	800	300	CRN-68/300	…KT	MM-68	MB-68	MF-68	MR-68
700	500	200	CRN-75/200	…KT	MM-75	MB-75	MF-75	MR-75
700	500	250	CRN-75/250	…KT	MM-75	MB-75	MF-75	MR-75
800	600	200	CRN-86/200	…KT	MM-86	MB-86	MF-86	MR-86
800	600	250	CRN-86/250	…KT	MM-86	MB-86	MF-86	MR-86
800	600	300	CRN-86/300	…KT	MM-86	MB-86	MF-86	MR-86
800	600	400	CRN-86/400	…KT	MM-86	MB-86	MF-86	MR-86
800	800	200	CRN-88/200	…KT	MM-88	MB-88	MF-88	MR-88
800	800	300	CRN-88/300	…KT	MM-88	MB-88	MF-88	MR-88
800	1000	300	CRN-810/300	…KT	MM-810	MB-810	MF-810	MR-810
1000	600	250	CRN-106/250	…KT	MM-106	MB-106	MF-106	MR-106
1000	600	300	CRN-106/300	…KT	MM-106	MB-106	MF-106	MR-106
1000	800	200	-	-	MM-108	MB-108	MF-108	MR-108
1000	800	250	CRN-108/250	…KT	MM-108	MB-108	MF-108	MR-108
1000	800	300	CRN-108/300	…KT	MM-108	MB-108	MF-108	MR-108
1000	800	400	CRN-108/400	…KT	MM-108	MB-108	MF-108	MR-108
1000	1000	300	CRN-1010/300	…KT	MM-1010	MB-1010	MF-1010	MR-1010
1000	1200	300	CRN-1012/300	-	MM-1012	MB-1012	MF-1012	MR-1012
1200	800	300	CRN-128/300	…KT	MM-128	MB-128	MF-128	MR-128
1200	800	400	CRN-128/400	…KT	MM-128	MB-128	MF-128	MR-128
1200	1000	300	CRN-1210/300	-	MM-1210	MB-1210	MF-1210	MR-1210
1200	1000	400	CRN-1210/400	…KT	MM-1210	MB-1210	MF-1210	MR-1210
Page			1/25		1/27	1/27	1/27	1/27

Depth adjustable supports	Dinimel DLM			Internal doors	Fixed and swing 19" rack		Canopies
	Reference	No. of 18 mm modules	No. of rows/ plates		Reference	No. of units	
-	-	-	-	-	-	-	TJ-2015
-	-	-	-	-	-	-	TJ-2515
SDCR-200	-	-	-	-	-	-	TJ-2520
-	-	-	-	-	-	-	TJ-3015
SDCR-200	-	-	-	-	-	-	TJ-3020
SDCR-200	-	-	-	-	-	-	TJ-4020
-	DLM-24	24	2/-	PIN 43	-	-	TJ-3015
SDCR-200	DLM-24	24	2/-	PIN 43	-	-	TJ-3020
SDCR-200	-	-	-	-	-	-	TJ-4020
SDCR-250	-	-	-	-	BR…/CRN	7/8	TJ-6025
SDCR-300	-	-	-	-	BR…/CRN	7/8	TJ-6030
	DLM-48	48	3/-	-	-	-	TJ-4015
SDCR-200	DLM-48	48	3/-	PIN 54	-	-	TJ-4020
SDCR-250	DLM-48	48	3/-	-	-	-	TJ-4025
SDCR-250	-	-	-	-	-	-	TJ-5025
-	DLM-48P	48	3/-	PIN 64	-		TJ-4015
SDCR-200	DLM-48P	48	3/-	PIN 64	-	-	TJ-4020
SDCR-250	DLM-48P	48	3/-	PIN 64	-	-	TJ-4025
-	-	-	-	-	-	-	TJ-5015
SDCR-200	-	-	-	-	-	-	TJ-5020
SDCR-200	DLM-84P	84	3/-	-	-	-	TJ-6025
SDCR-200	DLM-84P	84	3/-	-	BR…/CRN	11/12	TJ-6020
SDCR-250	DLM-84P	84	3/-	-	BR…/CRN	11/12	TJ-6025
SDCR-300	DLM-84P	84	3/-	-	BR…/CRN	11/12	TJ-6030
SDCR-300	-	-	-	-	-	-	TJ-8030
SDCR-200	DLM-66 / DLM-88	66 / 88	3/1 / 4/-	PIN 75	-	-	TJ-5020
SDCR-250	DLM-66 / DLM-88	66 / 88	3/1 / 4/-	PIN 75	-	-	TJ-5025
SDCR-200	DLM-84 / DLM-112	84 / 112	3/1 / 4/-	PIN 86	-	-	TJ-6020
SDCR-250	DLM-84 / DLM-112	84 / 112	3/1 / 4/-	PIN 86	BR…/CRN	16/17	TJ-6025
SDCR-300	DLM-84 / DLM-112	84 / 112	3/1 / 4/-	PIN 86	BR…/CRN	16/17	TJ-6030
SDCR-400	DLM-84…112	84/112	3/1 4/-	PIN 86	BR…/CRN	16/17	TJ-6040
SDCR-200	-	-	-	-	-	-	TJ-8020
SDCR-300	-	-	-	-	-	-	TJ-8030
SDCR-360	-	-	-	-	-	-	TJ-10030
SDCR-250	-	-	-	PIN 106	BR…/CRN	20/21	TJ-6025
SDCR-300	DLM-168	168	6/-	PIN 106	BR…/CRN	20/21	TJ-6030
SDCR-200	DLM-240	234	6/-	PIN 108	BR20/CRN 800	20	TJ-8020
SDCR-250	DLM-240	234	6/-	PIN 108	BR20/CRN 800	20	TJ-8025
SDCR-300	DLM-240	234	6/-	PIN 108	BR20/CRN 800	20	TJ-8030
SDCR-400	DLM-240	234	6/-	PIN 108	BR20/CRN 800	20	TJ-8040
SDCR-300	-	-	-	-	-	-	TJ-10030
SDCR-300	-	-	-	-	-	-	-
SDCR-300	-	-	-	PIN 128	BR25/CRN 800	25	TJ-8030
SDCR-400	-	-	-	PIN 128	BR25/CRN 800	25	TJ-8040
SDCR-300	-	-	-	-	-	-	TJ-10030
SDCR-400	-	-	-	-	-	-	TJ-10040
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ENCLOSURES, DIMENSIONS AND REFERENCES

External dimensions (mm)					50	80	50	80	50	80	
Height	Width	Depth									
300	300	200	HHH CM3030/200	-	HHH CM/UCR50	-	HHH CM/UCP50	-	HHH CM/UCC50	-	
300	400	200	HHH CM3040/200	-	HHH CM/UCR50	-	HHH CM/UCP50	-	HHH CM/UCC50	-	
400	400	200	HHH CM4040/200	-	HHH CM/UCR50	-	HHH CM/UCP50	-	HHH CM/UCC50	-	
400	600	250	HHH CM4060/250	HHH CMT2560/110	HHH CM/UCR50	-	HHH CM/UCP50	-	HHH CM/UCC50	-	
500	500	250	HHH CM5050/250	-	HHH CM/UCR50	-	HHH CM/UCP50	-	HHH CM/UCC50	-	
600	600	200	HHH CM6060/200	HHH CMT2560/110	HHH CM/UCR50	-	HHH CM/UCP50	-	HHH CM/UCC50	-	
600	800	300	HHH CM6080/300	HHH CMT2560/110	-	HHH CM/UCR80	-	HHH CM/UCP80	-	HHH CM/UCC80	
800	600	300	HHH CM8060/300	HHH CMT2560/110	-	HHH CM/UCR80	-	HHH CM/UCP80	-	HHH CM/UCC80	
Page			1/49	1/55	1/50	1/50	1/51	1/51	1/51	1/51	

ENCLOSURES, DIMENSIONS AND REFERENCES

Length (m)	□ 50	□ 80
0.5	HHH CMT5005	HHH CMT8005
1.00	HHH CMT5010	HHH CMT8010
1.50	HHH CMT5015	HHH CMT8015
2.00	HHH CMT5020	HHH CMT8020
Page	1/50	1/50

	50	80	50	80	50	80	50	80	50	80	50	80
	HHH CM/UMR50	-	HHH CM/UTC50	-	HHH CM/UMC50	-	HHH CM/UMA50	-	HHH CM/UIA50	-	HHH CM/ACS50	-
	HHH CM/UMR50	-	HHH CM/UTC50	-	HHH CM/UMC50	-	HHH CM/UMA50	-	HHH CM/UIA50	-	HHH CM/ACS50	-
	HHH CM/UMR50	-	HHH CM/UTC50	-	HHH CM/UMC50	-	HHH CM/UMA50	-	HHH CM/UIA50	-	HHH CM/ACS50	-
	HHH CM/UMR50	-	HHH CM/UTC50	-	HHH CM/UMC50	-	HHH CM/UMA50	-	HHH CM/UIA50	-	HHH CM/ACS50	-
	HHH CM/UMR50	-	HHH CM/UTC50	-	HHH CM/UMC50	-	HHH CM/UMA50	-	HHH CM/UIA50	-	HHH CM/ACS50	-
	HHH CM/UMR50	-	HHH CM/UTC50	-	HHH CM/UMC50	-	HHH CM/UMA50	-	HHH CM/UIA50	-	HHH CM/ACS50	-
	-	HHH CM/UMR80	-	HHH CM/UTC80	-	HHH CM/UMC80	-	HHH CM/UMA80	-	HHH CM/UIA80	-	HHH CM/ACS80
	-	HHH CM/UMR80	-	HHH CM/UTC80	-	HHH CM/UMC80	-	HHH CM/UMA80	-	HHH CM/UIA80	-	HHH CM/ACS80
	1/53	1/53	1/53	1/53	1/52	1/52	1/52	1/52	1/54	1/54	1/54	1/54

ENCLOSURES, DIMENSIONS AND REFERENCES

External dimensions (mm)				Enclosures with mounting plate	Enclosures without mounting plate	Enclosures with glazed door	Mounting plate	Plinths
Height	Width	Depth	No. of doors					Height 100 mm*
1000	1000	300	2	CMO 1010/30 PM	CMO 1010/30	-	PMOL 1010	ZUN 103/100
1200	800	300	1	CMO 128/30 PM	CMO 128/30	CMO 128/30 KT	PMOL 128	ZUN 83/100
1200	1000	300	2	CMO 1210/30 PM	CMO 1210/30	-	PMOL 1210	ZUN 103/100
1200	1200	400	2	CMO 1212/40 PM	CMO 1212/40	-	PMOL 1212	ZUN 124/100
1400	600	300	1	CMO 146/30 PM	CMO 146/30	CMO 146/30 KT	PMOL 146	ZUN 63/100
1400	600	400	1	CMO 146/40 PM	CMO 146/40	CMO 146/40 KT	PMOL 146	ZUN 64/100
1400	800	300	1	CMO 148/30 PM	CMO 148/30	CMO 148/30 KT	PMOL 148	ZUN 83/100
1400	800	400	1	CMO 148/40 PM	CMO 148/40	CMO 148/40 KT	PMOL 148	ZUN 84/100
1400	1000	400	2	CMO 1410/40 PM	CMO 1410/40	-	PMOL 1410	ZUN 104/100
1400	1200	400	2	CMO 1412/40 PM	CMO 1412/40	-	PMOL 1412	ZUN 124/100
1600	600	300	1	CMO 166/30 PM	CMO 166/30	CMO 166/30 KT	PMOL 166	ZUN 63/100
1600	600	400	1	CMO 166/40 PM	CMO 166/40	CMO 166/40 KT	PMOL 166	ZUN 64/100
1600	800	300	1	CMO 168/30 PM	CMO 168/30	CMO 168/30 KT	PMOL 168	ZUN 83/100
1600	800	400	1	CMO 168/40 PM	CMO 168/40	CMO 168/40 KT	PMOL 168	ZUN 84/100
1600	1000	300	2	CMO 1610/30 PM	CMO 1610/30	-	PMOL 1610	ZUN 103/100
1600	1000	400	2	CMO 1610/40 PM	CMO 1610/40	-	PMOL 1610	ZUN 104/100
1600	1200	300	2	CMO 1612/30 PM	CMO 1612/30	-	PMOL 1612	ZUN 123/100
1600	1200	400	2	CMO 1612/40 PM	CMO 1612/40	-	PMOL 1612	ZUN 124/100
1800	600	300	1	CMO 186/30 PM	CMO 186/30	CMO 186/30 KT	PMOL 186	ZUN 63/100
1800	600	400	1	CMO 186/40 PM	CMO 186/40	CMO 186/40 KT	PMOL 186	ZUN 64/100
1800	600	500	1	-	-	CMO 186/50 KT	PMOL 186	ZUN 65/100
1800	600	600	1	-	-	CMO 186/60 KT	PMOL 186	ZUN 66/100
1800	800	300	1	CMO 188/30 PM	CMO 188/30	CMO 188/30 KT	PMOL 188	ZUN 83/100
1800	800	400	1	CMO 188/40 PM	CMO 188/40	CMO 188/40 KT	PMOL 188	ZUN 84/100
1800	800	500	1	CMO 188/50 PM	CMO 188/50	CMO 188/50 KT	PMOL 188	ZUN 85/100
1800	800	600	1	CMO 188/60 PM	CMO 188/60	CMO 188/60 KT	PMOL 188	ZUN 86/100
1800	1000	400	2	CMO 1810/40 PM	CMO 1810/40	-	PMOL 1810	ZUN 104/100
1800	1000	500	2	CMO 1810/50 PM	CMO 1810/50	-	PMOL 1810	ZUN 105/100
1800	1200	400	2	CMO 1812/40 PM	CMO 1812/40	-	PMOL 1812	ZUN 124/100
1800	1200	500	2	CMO 1812/50 PM	CMO 1812/50	-	PMOL 1812	ZUN 125/100
1800	1600	400	2	CMO 1816/40 PM	CMO 1816/40	-	PMOL 1816	ZUN 164/100
1800	1600	500	2	CMO 1816/50 PM	CMO 1816/50	-	PMOL 1816	ZUN 165/100
2000	600	300	1	CMO 206/30 PM	CMO 206/30	CMO 206/30 KT	PMOL 206	ZUN 63/100
2000	600	400	1	CMO 206/40 PM	CMO 206/40	CMO 206/40 KT	PMOL 206	ZUN 64/100
2000	600	500	1	-	-	CMO 206/50 KT	PMOL 206	ZUN 65/100
2000	600	600	1	-	-	CMO 206/60 KT	PMOL 206	ZUN 66/100
2000	800	300	1	CMO 208/30 PM	CMO 208/30	CMO 208/30 KT	PMOL 208	ZUN 83/100
2000	800	400	1	CMO 208/40 PM	CMO 208/40	CMO 208/40 KT	PMOL 208	ZUN 84/100
2000	800	500	1	CMO 208/50 PM	CMO 208/50	CMO 208/50 KT	PMOL 208	ZUN 85/100
2000	800	600	1	CMO 208/60 PM	CMO 208/60	CMO 208/60 KT	PMOL 208	ZUN 86/100
2000	1000	400	2	CMO 2010/40 PM	CMO 2010/40	-	PMOL 2010	ZUN 104/100
2000	1000	500	2	CMO 2010/50 PM	CMO 2010/50	-	PMOL 2010	ZUN 105/100
2000	1200	400	2	CMO 2012/40 PM	CMO 2012/40	-	PMOL 2012	ZUN 124/100
2000	1200	500	2	CMO 2012/50 PM	CMO 2012/50	-	PMOL 2012	ZUN 125/100
2000	1200	600	2	CMO 2012/60 PM	CMO 2012/60	-	PMOL 2012	ZUN 126/100
2000	1600	400	2	CMO 2016/40 PM	CMO 2016/40	-	PMOL 2016	ZUN 164/100
2000	1600	500	2	CMO 2016/50 PM	CMO 2016/50	-	PMOL 2016	ZUN 165/100
2000	1600	600	2	CMO 2016/60 PM	CMO 2016/60	-	PMOL 2016	ZUN 166/100
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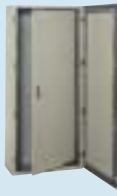
*For plinths height 200, ask reference **ZUN…/200**.

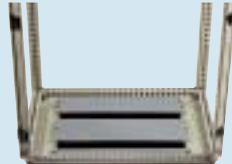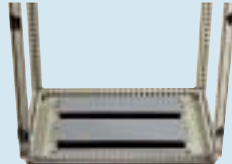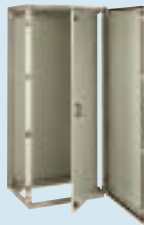| Universal chassis	UNIDIS coupling assembly		Internal door	Fixed rack		19" Rack			
Set of 2 uprights	Reference	Reference		Reference	No. of units 1 U = 44.45 mm	Swing rack	Centred swing rack	180° swing rack	No. of units 1 U = 44.45 mm
MOL 100	-	-	-	-	-	-	-	-	-
MOL 120	AF/COL 128	-	-	-	-	-	-	-	-
MOL 120	-	-	-	-	-	-	-	-	-
MOL 120	-	-	-	-	-	-	-	-	-
MOL 140	AF/COL 146	-	-	BRF 29/OL	29	-	-	-	-
MOL 140	AF/COL 146	-	-	BRF 29/OL	29	-	-	-	-
MOL 140	AF/COL 148	-	-	-	-	BRP 27/OL	BRPC 27/OL	BRP 27/OL 180	27
MOL 140	AF/COL 148	-	-	-	-	BRP 27/OL	BRPC 27/OL	BRP 27/OL 180	27
MOL 140	AF/COL 1464	-	-	-	-	-	-	-	-
MOL 140	AF/COL 1484	AF/COL 1466 + DCOL 40	-	-	-	-	-	-	-
MOL 160	AF/COL 166	-	PIL 166	BRF 33/OL	33	-	-	-	-
MOL 160	AF/COL 166	-	PIL 166	BRF 33/OL	33	-	-	-	-
MOL 160	AF/COL 168	-	PIL 168	-	-	BRP 31/OL	BRPC 31/OL	BRP 31/OL 180	31
MOL 160	AF/COL 168	-	PIL 168	-	-	BRP 31/OL	BRPC 31/OL	BRP 31/OL 180	31
MOL 160	AF/COL 1664	-	-	-	-	-	-	-	-
MOL 160	AF/COL 1664	-	-	-	-	-	-	-	-
MOL 160	AF/COL 1684	AF/COL 1666 + DCOL 30	-	-	-	-	-	-	-
MOL 160	AF/COL 1684	AF/COL 1666 + DCOL 40	-	-	-	-	-	-	-
MOL 180	AF/COL 186	-	PIL 186	BRF 38/OL	38	-	-	-	-
MOL 180	AF/COL 186	-	PIL 186	BRF 38/OL	38	-	-	-	-
MOL 180	AF/COL 186	-	PIL 186	BRF 38/OL	38	-	-	-	-
MOL 180	AF/COL 186	-	PIL 186	BRF 38/OL	38	-	-	-	-
MOL 180	AF/COL 188	-	PIL 188	-	-	BRP 36/OL	BRPC 36/OL	BRP 36/OL 180	36
MOL 180	AF/COL 188	-	PIL 188	-	-	BRP 36/OL	BRPC 36/OL	BRP 36/OL 180	36
MOL 180	AF/COL 188	-	PIL 188	-	-	BRP 36/OL	BRPC 36/OL	BRP 36/OL 180	36
MOL 180	AF/COL 188	-	PIL 188	-	-	BRP 36/OL	BRPC 36/OL	BRP 36/OL 180	36
MOL 180	AF/COL 1864	-	PIL 1810	-	-	-	-	-	-
MOL 180	AF/COL 1864	-	PIL 1810	-	-	-	-	-	-
MOL 180	AF/COL 1884	AF/COL 1866 + DCOL 40	-	-	-	-	-	-	-
MOL 180	AF/COL 1884	AF/COL 1866 + DCOL 50	-	-	-	-	-	-	-
MOL 180	AF/COL 1888	-	-	-	-	-	-	-	-
MOL 180	AF/COL 1888	-	-	-	-	-	-	-	-
MOL 200	AF/COL 206	-	PIL 206	BRF 42/OL	42	-	-	-	-
MOL 200	AF/COL 206	-	PIL 206	BRF 42/OL	42	-	-	-	-
MOL 200	AF/COL 206	-	PIL 206	BRF 42/OL	42	-	-	-	-
MOL 200	AF/COL 206	-	PIL 206	BRF 42/OL	42	-	-	-	-
MOL 200	AF/COL 208	-	PIL 208	-	-	BRP 40/OL	BRPC 40/OL	BRP 40/OL 180	40
MOL 200	AF/COL 208	-	PIL 208	-	-	BRP 40/OL	BRPC 40/OL	BRP 40/OL 180	40
MOL 200	AF/COL 208	-	PIL 208	-	-	BRP 40/OL	BRPC 40/OL	BRP 40/OL 180	40
MOL 200	AF/COL 208	-	PIL 208	-	-	BRP 40/OL	BRPC 40/OL	BRP 40/OL 180	40
MOL 200	AF/COL 2064	-	PIL 2010	-	-	-	-	-	-
MOL 200	AF/COL 2064	-	PIL 2010	-	-	-	-	-	-
MOL 200	AF/COL 2084	AF/COL 2066 + DCOL 40	-	-	-	-	-	-	-
MOL 200	AF/COL 2084	AF/COL 2066 + DCOL 50	-	-	-	-	-	-	-
MOL 200	AF/COL 2084	AF/COL 2066 + DCOL 60	-	-	-	-	-	-	-
MOL 200	AF/COL 2088	-	-	-	-	-	-	-	-
MOL 200	AF/COL 2088	-	-	-	-	-	-	-	-
MOL 200	AF/COL 2088	-	-	-	-	-	-	-	-
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ENCLOSURES, DIMENSIONS AND REFERENCES

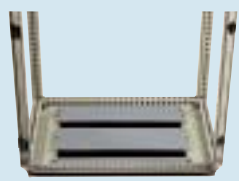|													
							Panels			Mounting plate	Plinths	Universal chassis	
							Side panels			Back panels			
External dimensions (mm)													
Height	Width	Depth	No. of doors	Without mounting plate	With mounting plate	With glazed door	External fixing	Internal fixing	Quick external fixing	Internal fixing		Height 100 mm*	Set of 2 uprights
1200	600	400	1	OLN 126/40	OLN 126/40 PM	OLN 126/40 KT	2 PLOL 124	2 PLIOL 124	-	PPION 126	PMOL 126	ZUN 64/100	-
1200	600	600	1	OLN 126/60	OLN 126/60 PM	OLN 126/60 KT	2 PLOL 126	2 PLIOL 126	2 PLROL 126	PPION 126	PMOL 126	ZUN 66/100	-
1200	600	800	1	OLN 126/80	OLN 126/80 PM	OLN 126/80 KT	2 PLOL 128	2 PLIOL 128	2 PLROL 128	PPION 126	PMOL 126	ZUN 68/100	-
1200	800	400	1	OLN 128/40	OLN 128/40 PM	OLN 128/40 KT	2 PLOL 124	2 PLIOL 124	-	PPION 128	PMOL 128	ZUN 84/100	-
1200	800	600	1	OLN 128/60	OLN 128/60 PM	OLN 128/60 KT	2 PLOL 126	2 PLIOL 126	2 PLROL 126	PPION 128	PMOL 128	ZUN 86/100	-
1200	800	800	1	OLN 128/80	OLN 128/80 PM	OLN 128/80 KT	2 PLOL 128	2 PLIOL 128	2 PLROL 128	PPION 128	PMOL 128	ZUN 88/100	-
1400	600	400	1	OLN 146/40	OLN 146/40 PM	OLN 146/40 KT	2 PLOL 144	2 PLIOL 144	-	PPION 146	PMOL 146	ZUN 64/100	-
1400	600	600	1	OLN 146/60	OLN 146/60 PM	OLN 146/60 KT	2 PLOL 146	2 PLIOL 146	2 PLROL 146	PPION 146	PMOL 146	ZUN 66/100	-
1400	600	800	1	OLN 146/80	OLN 146/80 PM	OLN 146/80 KT	2 PLOL 148	2 PLIOL 148	2 PLROL 148	PPION 146	PMOL 146	ZUN 68/100	-
1400	800	400	1	OLN 148/40	OLN 148/40 PM	OLN 148/40 KT	2 PLOL 144	2 PLIOL 144	-	PPION 148	PMOL 148	ZUN 84/100	-
1400	800	600	1	OLN 148/60	OLN 148/60 PM	OLN 148/60 KT	2 PLOL 146	2 PLIOL 146	2 PLROL 146	PPION 148	PMOL 148	ZUN 86/100	-
1400	800	800	1	OLN 148/80	OLN 148/80 PM	OLN 148/80 KT	2 PLOL 148	2 PLIOL 148	2 PLROL 148	PPION 148	PMOL 148	ZUN 88/100	-
1600	600	600	1	OLN 166/60	OLN 166/60 PM	OLN 166/60 KT	2 PLOL 166	2 PLIOL 166	2 PLROL 166	PPION 166	PMOL 166	ZUN 66/100	MOL 160
1600	600	800	1	OLN 166/80	OLN 166/80 PM	OLN 166/80 KT	2 PLOL 168	2 PLIOL 168	2 PLROL 168	PPION 166	PMOL 166	ZUN 68/100	MOL 160
1600	800	600	1	OLN 168/60	OLN 168/60 PM	OLN 168/60 KT	2 PLOL 166	2 PLIOL 166	2 PLROL 166	PPION 168	PMOL 168	ZUN 86/100	MOL 160
1600	800	800	1	OLN 168/80	OLN 168/80 PM	OLN 168/80 KT	2 PLOL 168	2 PLIOL 168	2 PLROL 168	PPION 168	PMOL 168	ZUN 88/100	MOL 160
1800	600	400	1	OLN 186/40	OLN 186/40 PM	OLN 186/40 KT	2 PLOL 184	2 PLIOL 184	-	PPION 186	PMOL 186	ZUN 64/100	MOL 180
1800	600	500	1	OLN 186/50	OLN 186/50 PM	OLN 186/50 KT	2 PLOL 185	2 PLIOL 185	-	PPION 186	PMOL 186	ZUN 65/100	MOL 180
1800	600	600	1	OLN 186/60	OLN 186/60 PM	OLN 186/60 KT	2 PLOL 186	2 PLIOL 186	2 PLROL 186	PPION 186	PMOL 186	ZUN 66/100	MOL 180
1800	600	800	1	OLN 186/80	OLN 186/80 PM	OLN 186/80 KT	2 PLOL 188	2 PLIOL 188	2 PLROL 188	PPION 186	PMOL 186	ZUN 68/100	MOL 180
1800	800	400	1	OLN 188/40	OLN 188/40 PM	OLN 188/40 KT	2 PLOL 184	2 PLIOL 184	-	PPION 188	PMOL 188	ZUN 84/100	MOL 180
1800	800	500	1	OLN 188/50	OLN 188/50 PM	OLN 188/50 KT	2 PLOL 185	2 PLIOL 185	-	PPION 188	PMOL 188	ZUN 85/100	MOL 180
1800	800	600	1	OLN 188/60	OLN 188/60 PM	OLN 188/60 KT	2 PLOL 186	2 PLIOL 186	2 PLROL 186	PPION 188	PMOL 188	ZUN 86/100	MOL 180
1800	1000	400	1	OLN 1810/40	OLN 1810/40 PM	OLN 1810/40 KT	2 PLOL 184	2 PLIOL 184	-	PPION 1810	PMOL 1810	ZUN 104/100	MOL 180
1800	1000	400	2	OLN 1810/40/2P	OLN 1810/40/2P PM	-	2 PLOL 184	2 PLIOL 184	-	PPION 1810	PMOL 1810	ZUN 104/100	MOL 180
1800	1000	500	1	OLN 1810/50	OLN 1810/50 PM	OLN 1810/50 KT	2 PLOL 185	2 PLIOL 185	-	PPION 1810	PMOL 1810	ZUN 105/100	MOL 180
1800	1000	500	2	OLN 1810/50/2P	OLN 1810/50/2P PM	-	2 PLOL 185	2 PLIOL 185	-	PPION 1810	PMOL 1810	ZUN 105/100	MOL 180
1800	1000	600	1	OLN 1810/60	OLN 1810/60 PM	OLN 1810/60 KT	2 PLOL 186	2 PLIOL 186	2 PLROL 186	PPION 1810	PMOL 1810	ZUN 106/100	MOL 180
1800	1000	600	2	OLN 1810/60/2P	OLN 1810/60/2P PM	-	2 PLOL 186	2 PLIOL 186	2 PLROL 186	PPION 1810	PMOL 1810	ZUN 106/100	MOL 180
1800	1200	400	2	OLN 1812/40/2P	OLN 1812/40/2P PM	-	2 PLOL 184	2 PLIOL 184	-	PPION 1812	PMOL 1812	ZUN 124/100	MOL 180
1800	1200	500	2	OLN 1812/50/2P	OLN 1812/50/2P PM	-	2 PLOL 185	2 PLIOL 185	-	PPION 1812	PMOL 1812	ZUN 125/100	MOL 180
1800	1200	600	2	OLN 1812/60/2P	OLN 1812/60/2P PM	-	2 PLOL 186	2 PLIOL 186	2 PLROL 186	PPION 1812	PMOL 1812	ZUN 126/100	MOL 180
2000	300	500	1	-	OLN 203/50 PM	-	2 PLOL 205	2 PLIOL 205	-	-	-	ZUN 35/100	-
2000	300	600	1	-	OLN 203/60 PM	-	2 PLOL 206	2 PLIOL 206	2 PLROL 206	-	-	ZUN 36/100	-
2000	300	800	1	-	OLN 203/80 PM	-	2 PLOL 208	2 PLIOL 208	2 PLROL 208	-	-	ZUN 38/100	-
2000	400	500	1	-	OLN 204/50 PM	-	2 PLOL 205	2 PLIOL 205	-	PPION 204	PMOL 204	ZUN 45/100	-
2000	400	600	1	-	OLN 204/60 PM	-	2 PLOL 206	2 PLIOL 206	2 PLROL 206	PPION 204	PMOL 204	ZUN 46/100	-
2000	600	400	1	OLN 206/40	OLN 206/40 PM	OLN 206/40 KT	2 PLOL 204	2 PLIOL 204	-	PPION 206	PMOL 206	ZUN 64/100	MOL 200
2000	600	500	1	OLN 206/50	OLN 206/50 PM	OLN 206/50 KT	2 PLOL 205	2 PLIOL 205	-	PPION 206	PMOL 206	ZUN 65/100	MOL 200
2000	600	600	1	OLN 206/60	OLN 206/60 PM	OLN 206/60 KT	2 PLOL 206	2 PLIOL 206	2 PLROL 206	PPION 206	PMOL 206	ZUN 66/100	MOL 200
2000	600	800	1	OLN 206/80	OLN 206/80 PM	OLN 206/80 KT	2 PLOL 208	2 PLIOL 208	2 PLROL 208	PPION 206	PMOL 206	ZUN 68/100	MOL 200
2000	800	400	1	OLN 208/40	OLN 208/40 PM	OLN 208/40 KT	2 PLOL 204	2 PLIOL 204	-	PPION 208	PMOL 208	ZUN 84/100	MOL 200
2000	800	500	1	OLN 208/50	OLN 208/50 PM	OLN 208/50 KT	2 PLOL 205	2 PLIOL 205	-	PPION 208	PMOL 208	ZUN 85/100	MOL 200
2000	800	600	1	OLN 208/60	OLN 208/60 PM	OLN 208/60 KT	2 PLOL 206	2 PLIOL 206	2 PLROL 206	PPION 208	PMOL 208	ZUN 86/100	MOL 200
2000	800	800	1	OLN 208/80	OLN 208/80 PM	OLN 208/80 KT	2 PLOL 208	2 PLIOL 208	2 PLROL 208	PPION 208	PMOL 208	ZUN 88/100V	MOL 200
2000	1000	400	1	OLN 2010/40	OLN 2010/40 PM	OLN 2010/40 KT	2 PLOL 204	2 PLIOL 204	-	PPION 2010	PMOL 2010	ZUN 104/100	MOL 200
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*For plinths height 200, ask reference **ZUN.../200**.

UNIDIS coupling assembly	Dinimel 2000 coupling assembly		19" Rack					Cable gland plates		Internal door
Reference	Reference		Fixed rack	Swing rack	Centred swing rack	180° swing rack	No. of units 1 U = 44.45 mm	One entry	Two entry	
AF/COL 126	-	-	BRF 24/OL	-	-	-	24	ECON 64/1	-	-
AF/COL 126	-	-	BRF 24/OL	-	-	-	24	ECON 66/1	ECON 66/2	-
AF/COL 126	-	-	BRF 24/OL	-	-	-	24	ECON 68/1	ECON 68/2	-
AF/COL 128	-	-	-	-	-	-	-	ECON 84/1	-	-
AF/COL 128	-	-	-	-	-	-	-	ECON 86/1	ECON 86/2	-
AF/COL 128	-	-	-	-	-	-	-	ECON 88/1	ECON 88/2	-
AF/COL 146	-	-	BRF 29/OL	-	-	-	29	ECON 64/1	-	-
AF/COL 146	-	-	BRF 29/OL	-	-	-	29	ECON 66/1	ECON 66/2	-
AF/COL 146	-	-	BRF 29/OL	-	-	-	29	ECON 68/1	ECON 68/2	-
AF/COL 148	-	-	-	BRP 27/OL	BRPC 27/OL	BRP 27/OL 180	27	ECON 84/1	-	-
AF/COL 148	-	-	-	BRP 27/OL	BRPC 27/OL	BRP 27/OL 180	27	ECON 86/1	ECON 86/2	-
AF/COL 148	-	-	-	BRP 27/OL	BRPC 27/OL	BRP 27/OL 180	27	ECON 88/1	ECON 88/2	-
AF/COL 166	-	DM/OL 166	BRF 33/OL	-	-	-	33	ECON 66/1	ECON 66/2	PIL 166
AF/COL 166	-	DM/OL 166	BRF 33/OL	-	-	-	33	ECON 68/1	ECON 68/2	PIL 166
AF/COL 168	-	-	-	BRP 31/OL	BRPC 31/OL	BRP 31/OL 180	31	ECON 86/1	ECON 86/2	PIL 168
AF/COL 168	-	-	-	BRP 31/OL	BRPC 31/OL	BRP 31/OL 180	31	ECON 88/1	ECON 88/2	PIL 168
AF/COL 186	-	DM/OL 186	BRF 38/OL	-	-	-	38	ECON 64/1	-	PIL 186
AF/COL 186	-	DM/OL 186	BRF 38/OL	-	-	-	38	ECON 65/1	-	PIL 186
AF/COL 186	-	DM/OL 186	BRF 38/OL	-	-	-	38	ECON 66/1	ECON 66/2	PIL 186
AF/COL 186	-	DM/OL 186	BRF 38/OL	-	-	-	38	ECON 68/1	ECON 68/2	PIL 186
AF/COL 188	-	-		BRP 36/OL	BRPC 36/OL	BRP 36/OL 180	36	ECON 84/1	-	PIL 188
AF/COL 188	-	-	-	BRP 36/OL	BRPC 36/OL	BRP 36/OL 180	36	ECON 85/1	-	PIL 188
AF/COL 188	-	-	-	BRP 36/OL	BRPC 36/OL	BRP 36/OL 180	36	ECON 86/1	ECON 86/2	PIL 188
AF/COL 1864	-	DM/OL 1810	-	-	-	-	-	ECON 104/1	-	PIL 1810
AF/COL 1864	-	DM/OL 1810	-	-	-	-	-	ECON 104/1	-	PIL 1810 2P
AF/COL 1864	-	DM/OL 1810	-	-	-	-	-	ECON 105/1	-	PIL 1810
AF/COL 1864	-	DM/OL 1810	-	-	-	-	-	ECON 105/1	-	PIL 1810 2P
AF/COL 1864	-	DM/OL 1810	-	-	-	-	-	ECON 106/1	ECON 106/2	PIL 1810
AF/COL 1864	-	DM/OL 1810	-	-	-	-	-	ECON 106/1	ECON 106/2	PIL 1810 2P
AF/COL 1884	AF/COL 1866	-	-	-	-	-	-	ECON 124/1	-	-
AF/COL 1884	AF/COL 1866	-	-	-	-	-	-	ECON 125/1	-	-
AF/COL 1884	AF/COL 1866	-	-	-	-	-	-	ECON 126/1	ECON 126/2	-
-	-	-	-	-	-	-	-	-		-
-	-	-	-	-	-	-	-	-		-
-	-	-	-	-	-	-	-	-		-
-	-	-	-	-	-	-	-	ECON 45/1	-	-
-	-	-	-	-	-	-	-	ECON 46/1	ECON 46/2	-
-	-	DM/OL 206	BRF 42/OL	-	-	-	42	ECON 46/1	-	PIL 206
AF/COL 206	-	DM/OL 206	BRF 42/OL	-	-	-	42	ECON 65/1	-	PIL 206
AF/COL 206	-	DM/OL 206	BRF 42/OL	-	-	-	42	ECON 66/1	ECON 66/2	PIL 206
AF/COL 206	-	DM/OL 206	BRF 42/OL	-	-	-	42	ECON 68/1	ECON 68/2	PIL 206
AF/COL 208	-	-	-	BRP 40/OL	BRPC 40/OL	BRP 40/OL 180	40	ECON 84/1	-	PIL 208
AF/COL 208	-	-	-	BRP 40/OL	BRPC 40/OL	BRP 40/OL 180	40	ECON 85/1	-	PIL 208
AF/COL 208	-	-	-	BRP 40/OL	BRPC 40/OL	BRP 40/OL 180	40	ECON 86/1	ECON 88/2	PIL 208
AF/COL 208	-	-	-	BRP 40/OL	BRPC 40/OL	BRP 40/OL 180	40	ECON 88/1	ECON 88/2	PIL 208
AF/COL 2064	-	DM/OL 2010	-	-	-	-	-	ECON 104/1	-	PIL 2010
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ENCLOSURES, DIMENSIONS AND REFERENCES

				Cubicle reference application			Panels				Plinths	Mounting plate	Universal chassis
								Side panels		Back panels			
External dimensions (mm)				Without mounting plate	With mounting plate	With glazed door	External fixing	Internal fixing	Quick external fixing	Internal fixing	Height 100 mm*		Set of 2 uprights
Height	Width	Depth	No. of doors										
2000	1000	400	2	OLN 2010/40/2P	OLN 2010/40/2P PM	-	2 PLOL 204	2 PLIOL 204	-	PPION 2010	ZUN 104/100	PMOL 2010	MOL 200
2000	1000	500	1	OLN 2010/50	OLN 2010/50 PM	OLN 2010/50 KT	2 PLOL 205	2 PLIOL 205	-	PPION 2010	ZUN 105/100	PMOL 2010	MOL 200
2000	1000	500	2	OLN 2010/50/2P	OLN 2010/50/2P PM	-	2 PLOL 205	2 PLIOL 205	-	PPION 2010	ZUN 105/100	PMOL 2010	MOL 200
2000	1000	600	1	OLN 2010/60	OLN 2010/60 PM	OLN 2010/60 KT	2 PLOL 206	2 PLIOL 206	2 PLROL 206	PPION 2010	ZUN 106/100	PMOL 2010	MOL 200
2000	1000	600	2	OLN 2010/60/2P	OLN 2010/60/2P PM	-	2 PLOL 206	2 PLIOL 206	2 PLROL 206	PPION 2010	ZUN 106/100	PMOL 2010	MOL 200
2000	1000	800	1	OLN 2010/80	OLN 2010/80 PM	OLN 2010/80 KT	2 PLOL 208	2 PLIOL 208	2 PLROL 208	PPION 2010	ZUN 108/100	PMOL 2010	MOL 200
2000	1000	800	2	OLN 2010/80/2P	OLN 2010/80/2P PM	-	2 PLOL 208	2 PLIOL 208	2 PLROL 208	PPION 2010	ZUN 108/100	PMOL 2010	MOL 200
2000	1200	400	2	OLN 2012/40/2P	OLN 2012/40/2P PM	-	2 PLOL 204	2 PLIOL 204	-	PPION 2012	ZUN 124/100	PMOL 2012	MOL 200
2000	1200	500	2	OLN 2012/50/2P	OLN 2012/50/2P PM	-	2 PLOL 205	2 PLIOL 205	-	PPION 2012	ZUN 125/100	PMOL 2012	MOL 200
2000	1200	600	2	OLN 2012/60/2P	OLN 2012/60/2P PM	-	2 PLOL 206	2 PLIOL 206	2 PLROL 206	PPION 2012	ZUN 126/100	PMOL 2012	MOL 200
2000	1200	800	2	OLN 2012/80/2P	OLN 2012/80/2P PM	-	2 PLOL 208	2 PLIOL 208	2 PLROL 208	PPION 2012	ZUN 128/100	PMOL 2012	MOL 200
2200	600	600	1	OLN 226/60	OLN 226/60 PM	-	2 PLOL 226	2 PLIOL 226	2 PLROL 226	PPION 226	ZUN 66/100	PMOL 226	MOL 220
2200	600	800	1	OLN 226/80	OLN 226/80 PM	-	2 PLOL 228	2 PLIOL 228	2 PLROL 228	PPION 226	ZUN 68/100	PMOL 226	MOL 220
2200	800	600	1	OLN 228/60	OLN 228/60 PM	OLN 228/60 KT	2 PLOL 226	2 PLIOL 226	2 PLROL 226	PPION 228	ZUN 86/100	PMOL 228	MOL 220
2200	800	800	1	OLN 228/80	OLN 228/80 PM	OLN 228/80 KT	2 PLOL 228	2 PLIOL 228	2 PLROL 228	PPION 228	ZUN 88/100	PMOL 228	MOL 220
2200	1000	600	1	OLN 2210/60	OLN 2210/60 PM	OLN 2210/60 KT	2 PLOL 226	2 PLIOL 226	2 PLROL 226	PPION 2210	ZUN 106/100	PMOL 2210	MOL 220
2200	1000	800	1	OLN 2210/80	OLN 2210/80 PM	OLN 2210/80 KT	2 PLOL 228	2 PLIOL 228	2 PLROL 228	PPION 2210	ZUN 108/100	PMOL 2210	MOL 220
2200	1000	800	2	OLN 2210/80/2P	OLN 2210/80/2P PM	-	2 PLOL 228	2 PLIOL 228	2 PLROL 228	PPION 2210	ZUN 108/100	PMOL 2210	MOL 220
2200	1200	600	2	OLN 2212/60/2P	OLN 2212/60/2P PM	-	2 PLOL 226	2 PLIOL 226	2 PLROL 226	PPION 2212	ZUN 126/100	PMOL 2212	MOL 220
2200	1200	800	2	OLN 2212/80/2P	OLN 2212/80/2P PM	-	2 PLOL 228	2 PLIOL 228	2 PLROL 228	PPION 2212	ZUN 128/100	PMOL 2212	MOL 220
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*For plinths height 200, ask reference **ZUN…/200**.

UNIDIS coupling assembly		Dinimel 2000 coupling assembly	19" Rack					Cable gland plates		Internal door
Reference	Reference		Fixed rack	Swing rack	Centred swing rack	180° swing rack	No. of units 1 U = 44.45 mm	One entry	Two entry	
AF/COL 2064	-	DM/OL 2010	-	-	-	-	-	ECON 104/1	-	PIL 2010 2P
AF/COL 2064	-	DM/OL 2010	-	-	-	-	-	ECON 105/1	-	PIL 2010
AF/COL 2064	-	DM/OL 2010	-	-	-	-	-	ECON 105/1	-	PIL 2010 2P
AF/COL 2064	-	DM/OL 2010	-	-	-	-	-	ECON 106/1	ECON 106/2	PIL 2010
AF/COL 2064	-	DM/OL 2010	-	-	-	-	-	ECON 106/1	ECON 106/2	PIL 2010 2P
AF/COL 2064	-	DM/OL 2010	-	-	-	-	-	ECON 108/1	ECON 108/2	PIL 2010
AF/COL 2064	-	DM/OL 2010	-	-	-	-	-	ECON 108/1	ECON 108/2	PIL 2010 2P
AF/COL 2084	AF/COL 2066	-	-	-	-	-	-	ECON 124/1	-	-
AF/COL 2084	AF/COL 2066	-	-	-	-	-	-	ECON 125/1	-	-
AF/COL 2084	AF/COL 2066	-	-	-	-	-	-	ECON 126/1	ECON 126/2	-
AF/COL 2084	AF/COL 2066	-	-	-	-	-	-	ECON 128/1	ECON 128/2	-
-	-	-	BRF 47/OL	-	-	-	47	ECON 66/1	ECON 66/2	PIL 226
-	-	-	BRF 47/OL	-	-	-	47	ECON 68/1	ECON 68/2	PIL 226
-	-	-	-	BRP 45/OL	BRPC 45/OL	BRP 45/OL 180	45	ECON 86/1	ECON 86/2	PIL 228
-	-	-	-	BRP 45/OL	BRPC 45/OL	BRP 45/OL 180	45	ECON 88/1	ECON 88/2	PIL 228
-	-	-	-	-	-	-	-	ECON 106/1	ECON 106/2	PIL 2210
-	-	-	-	-	-	-	-	ECON 108/1	ECON 108/2	PIL 2210
-	-	-	-	-	-	-	-	ECON 108/1	ECON 108/2	PIL 2210 2P
-	-	-	-	-	-	-	-	ECON 126/1	ECON 126/2	-
-	-	-	-	-	-	-	-	ECON 128/1	ECON 128/2	-
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ENCLOSURES, DIMENSIONS AND REFERENCES

External dimensions (mm)			PK metal monobloc control desks with fix rear panel		PKP metal monobloc control desks with detachable rear panel		PKP.../30 metal monobloc control desks with front panel and rear door		PKP.../50 metal monobloc control desks with front panel and rear door	
Height	Width	Depth	Without mounting plate	With mounting plate	Without mounting plate	With mounting plate	Without mounting plate	With mounting plate	Without mounting plate	With mounting plate
1024	600	466	**PK 60**	**PK 60 PM**	-	-	-	-	-	-
1024	800	466	**PK 80**	**PK 80 PM**	-	-	-	-	-	-
1024	1000	466	**PK 100**	**PK 100 PM**	-	-	-	-	-	-
1024	1200	466	**PK 120**	**PK 120 PM**	-	-	-	-	-	-
1024	600	597	-	-	**PKP 60**	**PKP 60 PM**	-	-	-	-
1024	800	597	-	-	**PKP 80**	**PKP 80 PM**	-	-	-	-
1024	1000	597	-	-	**PKP 100**	**PKP 100 PM**	-	-	-	-
1024	1200	597	-	-	**PKP 120**	**PKP 120 PM**	-	-	-	-
1400	800	814	-	-	-	-	**PKP 80 / F30**	**PKP 80 / F30 PM**	-	-
1400	1000	814	-	-	-	-	**PKP 100 / F30**	**PKP 100 / F30 PM**	-	-
1400	1200	814	-	-	-	-	**PKP 120 / F30**	**PKP 120 / F30 PM**	-	-
1400	1600	814	-	-	-	-	**PKP 160 / F30**	**PKP 160 / F30 PM**	-	-
1400	800	1014	-	-	-	-	-	-	**PKP 80 / F50**	**PKP 80 / F50 PM**
1400	1000	1014	-	-	-	-	-	-	**PKP 100 / F50**	**PKP 100 / F50 PM**
1400	1200	1014	-	-	-	-	-	-	**PKP 120 / F50**	**PKP 120 / F50 PM**
1400	1600	1014	-	-	-	-	-	-	**PKP 160 / F50**	**PKP 160 / F50 PM**
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*For plinths height 200, ask reference **ZUN.../200**.

Mounting plates						Plinths
Lower		Upper				
Metal	Universal	Metal	Universal	Full mounting plates	Console	Height 100 mm*
PMPK-8560	PMR-6760	-	-	-	-	ZUN 64/100
PMPK-8580	PMR-6780	-	-	-	-	ZUN 84/100
PMPK-85100	PMR-67100	-	-	-	-	ZUN 104/100
PMPK-85120	PMR-67120	-	-	-	-	ZUN 124/100
PMPK-8560	PMR-6760	-	-	-	-	ZUN 65/100
PMPK-8580	PMR-6780	-	-	-	-	ZUN 85/100
PMPK-85100	PMR-67100	-	-	-	-	ZUN 105/100
PMPK-85120	PMR-67120	-	-	-	-	ZUN 125/100
PMP-7080	PMR-6780	PMP-4580	PMR-4280	PMOL-148	PMP-4080	ZUN 84/100
PMP-70100	PMR-67100	PMP-45100	PMR-42100	PMOL-1410	PMP-40100	ZUN 104/100
PMP-70120	PMR-67120	PMP-45120	PMR-42120	PMOL-1412	PMP-40120	ZUN 124/100
PMP-70160	-	PMP-45160	-	-	PMP-40160	ZUN 164/100
PMP-7080	PMR-6780	PMP-4580	PMR-4280	PMOL-148	PMP-4080	ZUN 86/100
PMP-70100	PMR-67100	PMP-45100	PMR-42100	PMOL-1410	PMP-40100	ZUN 106/100
PMP-70120	PMR-67120	PMP-45120	PMR-42120	PMOL-1412	PMP-40120	ZUN 126/100
PMP-70160	-	PMP-45160	-	-	PMP-40160	ZUN 166/100
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CRSX

ENCLOSURES, DIMENSIONS AND REFERENCES

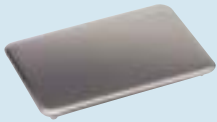| External dimensions (mm)				Mounting plates			
Height	Width	Depth		Metal	Insulating	Drilling	Universal
300	200	150	CRSX 32/150	MM-32	MB-32	MF-32	MR-32
300	250	150	CRSX 3025/150	MM-3025	MB-3025	MF-3025	MR-3025
300	300	150	CRSX 33/150	MM-33	MB-33	MF-33	MR-33
400	300	150	CRSX 43/150	MM-43	MB-43	MF-43	MR-43
			-	-	-	-	-
400	300	200	CRSX 43/200	MM-43	MB-43	MF-43	MR-43
			-	-	-	-	-
400	400	200	CRSX 44/200	MM-44	MB-44	MF-44	MR-44
500	400	200	CRSX 54/200	MM-54	MB-54	MF-54	MR-54
600	400	200	CRSX 64/200	MM-64	MB-64	MF-64	MR-64
600	600	250	CRSX 66/200	MM-66	MB-66	MF-66	MR-66
700	500	250	CRSX 75/250	MM-75	MB-75	MF-75	MR-75
			-	-	-	-	-
800	600	250	CRSX 86/250	MM-86	MB-86	MF-86	MR-86
			-	-	-	-	-
800	800	300	CRSX 88/300	MM-88	MB-88	MF-88	MR-88
1000	800	300	CRSX 108/300	MM-108	MB-108	MF-108	MR-108
1200	800	300	CRSX 128/300	MM-128	MB-128	MF-128	MR-128
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CMOX

ENCLOSURES, DIMENSIONS AND REFERENCES

External dimensions (mm)					Mounting plate	Universal chassis	Internal doors
Height	Width	Depth	No. of doors			Set of 2 uprights	
1200	1000	300	2	CMOX 1210/30	PMOL 1210	MOL 120	-
1600	800	400	1	CMOX 168/40	PMOL 168	MOL 160	PIL 168
1800	800	400	1	CMOX 188/40	PMOL 188	MOL 180	PIL 188
1800	1200	400	2	CMOX 1812/40	PMOL 1812	MOL 180	-
1800	1600	400	2	CMOX 1816/40	PMOL 1816	MOL 180	-
2000	800	400	1	CMOX 208/40	PMOL 208	MOL 200	PIL 208
2000	1000	400	2	CMOX 2010/40	PMOL 2010	MOL 200	PIL 2010 2P
2000	1200	500	2	CMOX 2012/50	PMOL 2012	MOL 200	-
2000	1600	500	2	CMOX 2016/50	PMOL 2016	MOL 200	-
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*For plinths height 200, ask reference **ZUN…/200**.

Depth adjustable supports	Dinimel DLM					Internal doors	Canopies
	Reference	No. of 18 mm modules	No. of rows	No. of rails	No. of plates		
-	-	-	-	-	-	-	**TX 2015**
-	-	-	-	-	-	-	**TX 2515**
-	-	-	-	-	-	-	**TX 3015**
-	**DLM-24**	24	2	2	-	-	**TX 3015**
-	-	-	-	-	-	-	-
SDCR-200	**DLM-24**	24	2	2	-	**PIN-43/200**	**TX 3020**
-	-	-	-	-	-	-	-
SDCR-200	-	-	-	-	-	-	**TX 4020**
SDCR-200	**DLM-48**	48	3	3	-	**PIN-54/200**	**TX 4020**
SDCR-200	**DLM-48 P**	48	3	3	-	**PIN-64/200**	**TX 4020**
SDCR-250	-	-	-	-	-	-	**TX 6025**
SDCR-250	**DLM-66**	66	4	3	1	**PIN-75/250**	**TX 5025**
-	**DLM-88**	88	4	4	-	-	-
SDCR-250	**DLM-84**	84	4	3	1	**PIN-86/250**	**TX 6025**
	DLM-112	112	4	4	-	-	-
SDCR-300	-	-	-	-	-	-	**TX 8030**
SDCR-300	**DLM-240**	234	6	6	-	**PIN-108/300**	**TX 8030**
SDCR-300	-	-	-	-	-	-	**TX 8030**
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19" Rack				Canopies	Plinths
Swing rack	Centred swing rack	180° swing rack	No. units 1 unit = 44.45 mm		Height 100 mm*
-	-	-	-	**TJX 10030 CMOX**	**ZUX 103/100**
BRP 31/OL	**BRPC 31/OL**	**BRP 31/OL 180**	31	**TJX 8040 CMOX**	**ZUX 84/100**
BRP 36/OL	**BRPC 36/OL**	**BRP 36/OL 180**	36	**TJX 8040 CMOX**	**ZUX 84/100**
-	-	-	-	**TJX 12040 CMOX**	**ZUX 124/100**
-	-	-	-	**TJX 16040 CMOX**	**ZUX 164/100**
BRP 40/OL	**BRPC 40/OL**	**BRP 40/OL 180**	40	**TJX 8040 CMOX**	**ZUX 84/100**
-	-	-	-	**TJX 10040 CMOX**	**ZUX 104/100**
-	-	-	-	**TJX 12050 CMOX**	**ZUX 125/100**
-	-	-	-	**TJX 16040 CMOX**	**ZUX 164/100**
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ENCLOSURES, DIMENSIONS AND REFERENCES

External dimensions (mm)			Metal monobloc control desks		Mounting plates	Plinths
Height	Width	Depth	Control desk without mounting plate	Control desk with mounting plate		Height 100 mm
1024	600	597	**PKPX 60**	**PKPX 60-PM**	**PMPK 8560**	**ZUX 65/100**
			-	-	-	-
1024	800	597	**PKPX 80**	**PKPX 80-PM**	**PMPK 8580**	**ZUX 85/100**
			-	-	-	-
			-	-	-	-
1024	1000	597	**PKPX 100**	**PKPX 100-PM**	**PMPK 85100**	**ZUX 105/100**
			-	-	-	-
			-	-	-	-
			-	-	-	-
1024	1200	597	**PKPX 120**	**PKPX 120-PM**	**PMPK 85120**	**ZUX 125/100**
			-	-	-	-
			-	-	-	-
			-	-	-	-
			-	-	-	-
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Front			Covers		Front opening mounting plates		
	Depth						
Width	200 mm	300 mm	Reference	Width	Metal	Drilling	Universal
400	**FEX 42**	**FEX 43**	**TAX 20**	200	**MM-44**	**MF-44**	**MR-44**
600	**FEX 62**	**FEX 63**	-	-	**MM-64**	**MF-64**	**MR-64**
400	**FEX 42**	**FEX 43**	**TAX 40**	400	**MM-44**	**MF-44**	**MR-44**
400	**2 × FEX 42**	**2 × FEX 43**	-	-	**MM-44**	**MF-44**	**MR-44**
600	**FEX 62**	**FEX 63**	**TAX 20**	200	**MM-64**	**MF-64**	**MR-64**
400	**FEX 42**	**FEX 43**	**TAX 60**	600	**MM-44**	**MF-44**	**MR-44**
600	**FEX 62**	**FEX 63**	**TAX 40**	400	**MM-64**	**MF-64**	**MR-64**
600	**FEX 42**	**FEX 43**	**2 × TAX 20**	200	**MM-64**	**MF-64**	**MR-64**
400 + 600	**FEX 42+FEX 63**	**FEX 43+FEX 63**	-	-	**MM-44+MM-64**	**MF-44+MF-64**	**MR-44+MR-64**
400	**FEX 42**	**FEX 43**	**TAX 80**	800	**MM-44**	**MF-44**	**MR-44**
400 + 600	**FEX 42+FEX 62**	**FEX 43+FEX 63**	**TAX 20**	200	**MM-44+MM-64**	**MF-44+MF-64**	**MR-44+MR-64**
600	**FEX 62**	**FEX 63**	**TAX 60**	600	**MM-64**	**MF-64**	**MR-64**
600	**FEX 62**	**FEX 63**	**TAX 20+TAX 40**	200 + 400	**MM-64**	**MF-64**	**MR-64**
600	**2 × FEX 62**	**2 × FEX 63**	-	-	**MM-64**	**MF-64**	**MR-64**
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CRN-CEM

ENCLOSURES, DIMENSIONS AND REFERENCES

External dimensions (mm)				Mounting plates		Depth adjustable supports
Height	Width	Depth		Metal	Drilling	
400	300	200	**CRAF 43/200 PM**	**MM-43**	**MF-43**	**SDCR-200**
500	400	200	**CRAF 54/200 PM**	**MM-54**	**MF-54**	**SDCR-200**
600	400	200	**CRAF 64/200 PM**	**MM-64**	**MF-64**	**SDCR-200**
600	600	200	**CRAF 66/250 PM**	**MM-66**	**MF-66**	**SDCR-200**
700	500	250	**CRAF 75/250 PM**	**MM-75**	**MF-75**	**SDCR-200**
			-	-	-	-
800	600	300	**CRAF 86/300 PM**	**MM-86**	**MF-86**	**SDCR-300**
			-	-	-	-
1000	800	300	**CRAF 108/300 PM**	**MM-108**	**MF-108**	**SDCR-300**
1200	800	300	**CRAF 128/300 PM**	**MM-128**	**MF-128**	**SDCR-300**
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CMO-CEM

ENCLOSURES, DIMENSIONS AND REFERENCES

External dimensions (mm)					Mounting plates	Universal chassis	UNIDIS coupling assembly	
Height	Width	Depth	No. of doors				Column width	Reference
1600	800	400	1	**COAF 168/40 PM**	**PMOL 168**	**MOL 160**	800	**AF/COL 168**
1800	800	400	1	**COAF 188/40 PM**	**PMOL 188**	**MOL 180**	800	**AF/COL 188**
2000	800	400	1	**COAF 208/40 PM**	**PMOL 208**	**MOL 200**	800	**AF/COL 208**
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OLN-CEM

ENCLOSURES, DIMENSIONS AND REFERENCES

External dimensions (mm)					Side panels	Mounting plates	Universal chassis	UNIDIS coupling assembly	
Height	Width	Depth	No. of doors					Column width	Reference
1800	800	400	1	**OLAF 188/40 PM**	**2 PLAF 184**	**PMOL 188**	**MOL 180**	800	**AF/COL 188**
1800	800	600	1	**OLAF 188/60 PM**	**2 PLAF 186**	**PMOL 188**	**MOL 180**	800	**AF/COL 188**
2000	800	500	1	**OLAF 208/50 PM**	**2 PLAF 205**	**PMOL 208**	**MOL 200**	800	**AF/COL 208**
2000	800	600	1	**OLAF 208/60 PM**	**2 PLAF 206**	**PMOL 208**	**MOL 200**	800	**AF/COL 208**
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Dinimel DLM			Internal doors	Fixed and swing 19" rack		Canopies
Reference	No. of 18 mm modules	No. of rows/plates		Reference	No. of units	
DLM-24	24	2/-	PIN-43/200	-	-	TJ-3020
DLM-48	48	3/-	PIN-54/200	-	-	TJ-4020
DLM-48P	48	3/-	PIN-64/200	-	-	TJ-4020
-	-	-	-	-	-	TJ-6025
DLM-66	66	3/1	-	-	-	TJ-5025
DLM-88	88	4/-	-	-	-	-
DLM-84	84	3/1	-	BR…/CRN	16	TJ-6030
DLM-112	112	4/-	-	-	-	-
DLM-240	234	6/-	-	-	-	TJ-8030
-	-	-	-	-	-	TJ-8030
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Internal doors	19" Rack				Canopies	Plinths	
	Swing rack	Centred swing rack	180° swing rack	No. units 1 U = 44.45 mm		Height 100 mm	Height 200 mm
PIL 168	BRP 31/OL	BRPC 31/OL	BRP 31/OL 180	31	TJ 8040 CMO	ZUN 84/100	ZUN 84/200
PIL 188	BRP 36/OL	BRPC 36/OL	BRP 36/OL 180	36	TJ 8040 CMO	ZUN 84/100	ZUN 84/200
PIL 208	BRP 40/OL	BRPC 40/OL	BRP 40/OL 180	40	TJ 8040 CMO	ZUN 84/100	ZUN 84/200
1/140	1/119	1/120	1/120		1/67	1/66	1/66

19" Rack						Internal door	Plinths	
Swing rack	No. units 1 U = 44.45 mm	Centred swing rack	No. units 1 U = 44.45 mm	180° swing rack	No. units 1 U = 44.45 mm		Height 100 mm	Height 200 mm
BRP 36/OL	36	BRPC 36/OL	36	BRP 36/OL 180	36	PIL 188	ZUN 84/100	ZUN 84/200
BRP 36/OL	36	BRPC 36/OL	36	BRP 36/OL 180	36	PIL 188	ZUN 86/100	ZUN 86/200
BRP 40/OL	40	BRPC 40/OL	40	BRP 40/OL 180	40	PIL 208	ZUN 85/100	ZUN 85/200
BRP 40/OL	40	BRPC 40/OL	40	BRP 40/OL 180	40	PIL 208	ZUN 86/100	ZUN 86/200
1/119		1/120		1/120		1/140	1/89	1/89

CRN wall mounting steel enclo

Front rain gutter avoids the entry of water, oil or liquids which ensures IP66 protection and protects the inside surface when opening the door.

A complete range of mounting plates suitable for most types of installations.
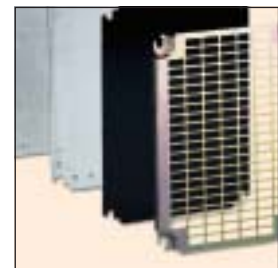
Embedded cable gland plate and entrance, leveled with the base, with a neoprene seal.
Insulated cable gland plates with pre-punched holes for easy cable entry available as accessory.

Back of enclosure with four M8 × 15 welded studs with built-in spacers for fixing of mounting plate and adjustable supports.
Wall fixing holes sealed with plastic plugs to assure the protection degree.

sures suitable for all applications

Wall fixing brackets fixed from the outside and can be placed both horizontally or vertically. Not included as standard supply.
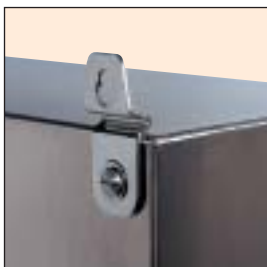
Foamed-in polyurethane gasket guarantees watertightness for years. Perforated door reinforcement profiles allowing fixing of equipment in up to 400 mm high enclosures.

Transparent tempered glass door and fully watertight, maintaining IP66 protection.

Built in standard double bar locking system and three points locking for two doors enclosures and 1200 mm high enclosures. Different lock combinations available.
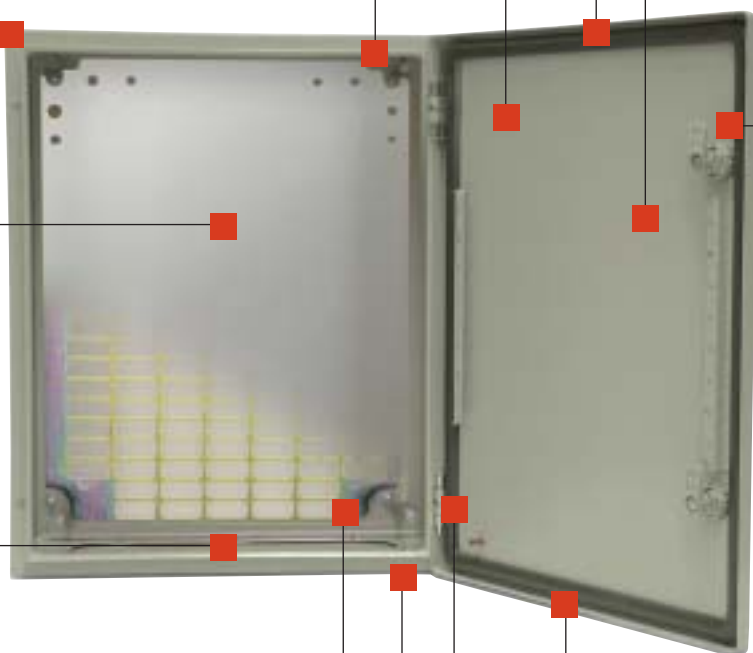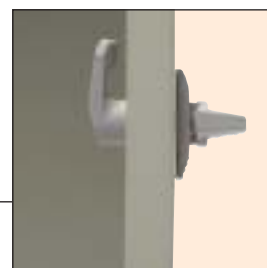
Depth adjustable support with positions every 12.5 mm.

Two M6 × 15 welded earth studs on the back and one M6 × 15 stud on the door. Easily reversible door, fitted with two or three invisible hinges allowing 120° opening.

WALL MOUNTING STEEL ENCLOSURES

IP66 (EN 60529)

CRN 54/200

Metal enclosures made from a continuous length of sheet steel double folded at the front, with back welded to the frame. Both externally and internally protected with polyester epoxy resin grey paint to RAL-7032 texturized.

■ Concealed and easily removable hinges allowing over 120° door opening.
■ Single plinth **ZUN**, 100 mm and 200 mm high, available for models 600, 800 and 1000 mm width and 300 mm depth.
■ IP66 for one door enclosures.
■ IP55 for two doors enclosures.

■ New series **CRN...KT** with transparent security glass door.
■ Depth adjustable mounting plate supports.
■ Perforated door reinforcement profiles allowing fixing of equipment on models up to **CRN-54/150**.

ENCLOSURES, DIMENSIONS AND REFERENCES

External dimensions (mm)			Enclosures					Mounting plates				Mounting plate adjustable supports	Metallic chasis DLM	Fixed and swing 19" racks	Internal door
Height (A)	Width (B)	Depth (C)	Reference	Reference with glazed door	Fig.	Flange opening type	Weight* kg	Metal	Insul.	Perf.	Universal				
250	200	150	**CRN-2520/150**	-	1	0	3.2	●	●	●					
300	250	150	**CRN-3025/150**	CRN-3025/150 KT	1	A	4.2	●	●	●	●				
300	250	200	**CRN-3025/200**	CRN-3025/200 KT	1	A	4.9	●	●	●	●	●			
300	300	150	**CRN-33/150**	CRN-33/150 KT	1	B	5	●	●	●	●				
300	300	200	**CRN-33/200**	CRN-33/200 KT	1	B	6	●	●	●	●	●			
300	400	200	**CRN-34/200**	CRN-34/200 KT	1	C	6.4	●	●	●	●	●			
400	300	150	**CRN-43/150**	CRN-43/150 KT	1	B	6	●	●	●	●		●		
400	300	200	**CRN-43/200**	CRN-43/200 KT	1	B	6.8	●	●	●	●	●	●		●
400	400	200	**CRN-44/200**	CRN-44/200 KT	1	C	8	●	●	●	●	●			
400	600	250	**CRN-46/250**	CRN-46/250 KT	1	D	10	●	●	●	●	●		●	
400	600	300	**CRN-46/300**	CRN-46/300 KT	1	D	11.2	●	●	●	●	●		●	
500	400	150	**CRN-54/150**	CRN-54/150 KT	2	B	8.7	●	●	●	●		●		●
500	400	200	**CRN-54/200**	CRN-54/200 KT	2	C	9.8	●	●	●	●		●		
500	400	250	**CRN-54/250**	CRN-54/250 KT	2	C	11	●	●	●	●		●		
500	500	250	**CRN-55/250**	CRN-55/250 KT	2	D	12.8	●	●	●	●	●			
600	400	150	**CRN-64/150**	CRN-64/150 KT	2	B	9.3	●	●	●	●		●		●
600	400	200	**CRN-64/200**	CRN-64/200 KT	2	C	10.8	●	●	●	●	●	●		●
600	400	250	**CRN-64/250**	CRN-64/250 KT	2	C	12.3	●	●	●	●	●	●		●
600	500	150	**CRN-65/150**	CRN-65/150 KT	2	B	11.3	●	●	●	●				
600	500	200	**CRN-65/200**	CRN-65/200 KT	2	D	14.3	●	●	●	●	●			
600	500	250	**CRN-65/250**	CRN-65/250 KT	2	D	16.3	●	●	●	●	●			
600	600	200	**CRN-66/200**	CRN-66/200 KT	2	D	-	●	●	●	●	●	●	●	
600	600	250	**CRN-66/250**	CRN-66/250 KT	2	D	18.2	●	●	●	●	●	●	●	
600	600	300	**CRN-66/300**	CRN-66/300 KT	2	D	19.8	●	●	●	●	●	●	●	
600	800	300	**CRN-68/300**	CRN-68/300 KT	2	E	26	●	●	●	●	●			
700	500	200	**CRN-75/200**	CRN-75/200 KT	2	D	17.3	●	●	●	●	●	●		●
700	500	250	**CRN-75/250**	CRN-75/250 KT	2	D	19.3	●	●	●	●	●	●		●
800	600	200	**CRN-86/200**	CRN-86/200 KT	2	D	21.8	●	●	●	●	●	●		●
800	600	250	**CRN-86/250**	CRN-86/250 KT	2	D	24.8	●	●	●	●	●	●	●	●
800	600	300	**CRN-86/300**	CRN-86/300 KT	2	D	26.3	●	●	●	●	●	●	●	●
800	600	400	**CRN-86/400**	CRN-86/400 KT	2	D	-	●	●	●	●	●	●	●	●
800	800	200	**CRN-88/200**	CRN-88/200 KT	2	E	29.5	●	●	●	●	●			
800	800	300	**CRN-88/300**	CRN-88/300 KT	2	E	32.5	●	●	●	●	●			
800	1000	300	**CRN-810/300****	-	4	E	37	●	●	●	●	●			
1000	600	250	**CRN-106/250**	CRN-106/250 KT	2	D	28.4	●	●	●	●	●	●	●	●
1000	600	300	**CRN-106/300**	CRN-106/300 KT	2	D	30.6	●	●	●	●	●	●	●	●
1000	800	250	**CRN-108/250**	CRN-108/250 KT	2	E	34.5	●	●	●	●	●	●	●	●
1000	800	300	**CRN-108/300**	CRN-108/300 KT	2	E	37.4	●	●	●	●	●	●	●	●
1000	800	400	**CRN-108/400**	CRN-108/400 KT	2	E	-	●	●	●	●	●	●	●	●
1000	1000	300	**CRN-1010/300****	CRN-1010/300 KT**	4 (KT:3)	E	46.7	●	●	●	●	●			
1000	1200	300	**CRN-1012/300****	-	4	E	41	●	●	●	●	●			
1200	800	300	**CRN-128/300****	CRN-128/300 KT**	3	E	-	●	●	●	●	●		●	●
1200	800	400	**CRN-128/400****	CRN-128/400 KT**	3	E	-	●	●	●	●	●		●	●
1200	1000	300	**CRN-1210/300****	-	4	E	53.4	●	●	●	●	●			
1200	1000	400	**CRN-1210/400****	CRN-1210/400 KT**	4 (KT:3)	E	-	●	●	●	●	●			

* Weight of enclosures with plain door. ** Enclosures with three point locking system.

CRN

WALL MOUNTING STEEL ENCLOSURES
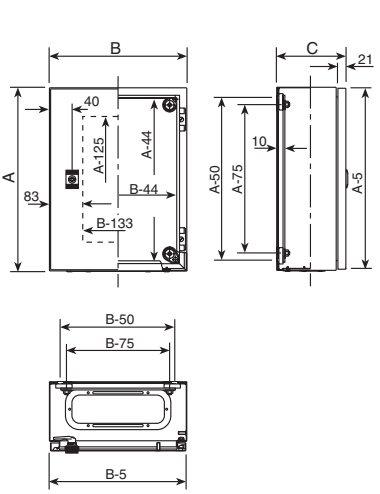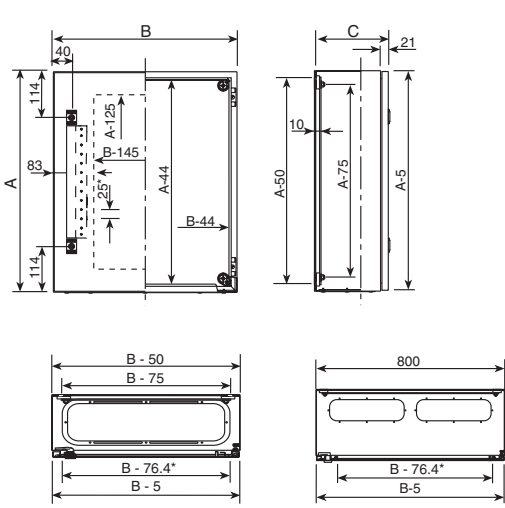
IP66 (EN 60529)

Dimensions (mm)

FIG. 1

FIG. 2

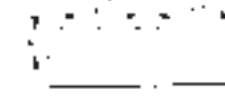Detail of recessed cable gland plate ensuring a flat surface (except 400 mm depth and type E models).
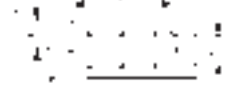
FIG. 3

FIG. 4

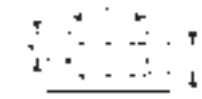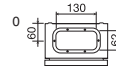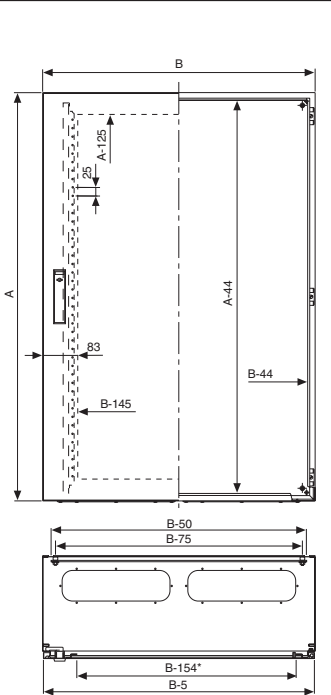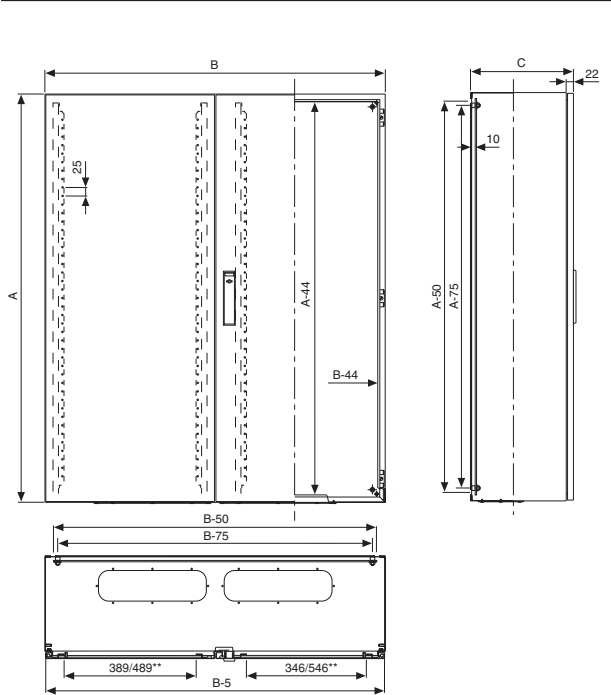* All glazed door enclosures type **KT** are without door reinforcement profiles.
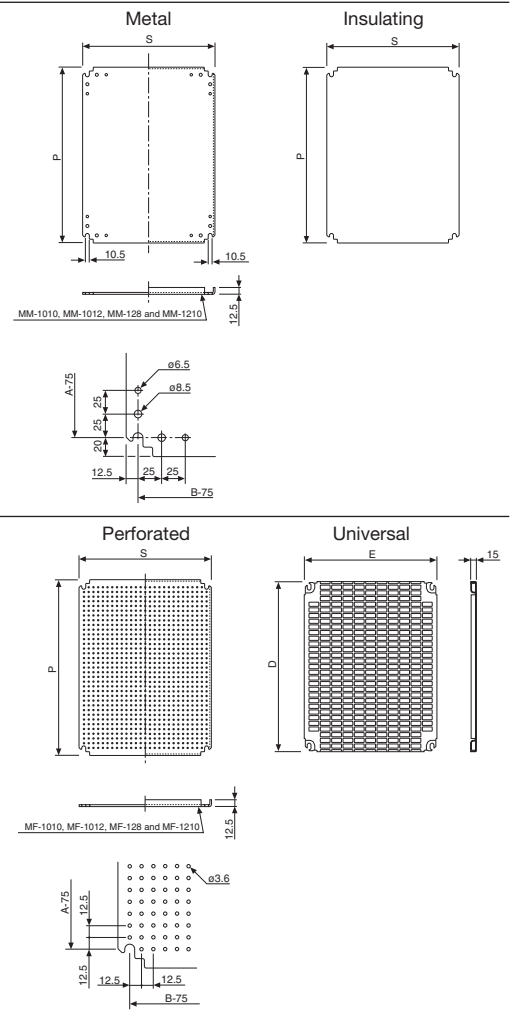
** For 1200 mm width.

Mounting plates

Metal

Insulating

Perforated

Universal

A comprehensive range of mounting plates consisting of 3 models suitable for most types of installations.
■ Bichromated zinc-coated metal plates with holes for fixing of accessories and earthing strip.
■ Insulating bakelite plates.
■ Galvanized steel mounting plates with 3.6 ∅ drillings (12.5 mm thread) for fixing of equipment through self-tapping 4.2 ∅ mm bolts and M4 trilobular bolts.
■ Perforated plates for quick fixing of equipment made of bichromated zinc-coated steel. The perforated plate with fixing nuts ensures that equipment can be fixed in any position.

Metal		Insulating		Perforated		Universal

MM-1010, MM-1012, MM-128 and MM-1210

MF-1010, MF-1012, MF-128 and MF-1210

To be fitted to enclosures		Metal			Insulating			Perforated					Universal		
Height (A)	Width (B)	Reference	Thickness mm	Weight kg	Reference	Thickness mm	Weight kg	Reference	Thickness mm	Weight kg	P	S	Reference	D	E
250	200	MM-2520	2	0.4	MB-2520	4	0.13	MF-2520	2	0.3	215	150	-	-	-
300	250	MM-3025	2	0.6	MB-3025	4	0.2	MF-3025	2	0.5	265	200	MR-3025	253	228
300	300	MM-33	2	1.2	MB-33	4	0.3	MF-33	2	1.1	265	250	MR-33	255	251
300	400	MM-34	2	1.6	MB-34	4	0.5	MF-34	2	1.5	265	350	MR-34	255	351
400	300	MM-43	2	1.6	MB-43	4	0.5	MF-43	2	1.5	365	250	MR-43	348	251
400	400	MM-44	2	2.2	MB-44	4	0.7	MF-44	2	2.1	365	350	MR-44	345	351
400	600	MM-46	2	3.1	MB-46	4	1.1	MF-46	2	3	365	550	MR-46	345	551
500	400	MM-54	2	2.5	MB-54	4	0.9	MF-54	2	2.4	465	350	MR-54	450	351
500	500	MM-55	2	3.7	MB-55	4	1.2	MF-55	2	3.5	465	450	MR-55	450	451
600	400	MM-64	2	3.1	MB-64	4	1.1	MF-64	2	3	565	350	MR-64	555	351
600	500	MM-65	2	4	MB-65	4	1.4	MF-65	2	3.8	565	450	MR-65	555	451
600	600	MM-66	2	5.5	MB-66	4	1.7	MF-66	2	5.2	565	550	MR-66	555	551
600	800	MM-68	2.5	9.9	MB-68	4	2.3	MF-68	2.5	9.3	565	750	MR-68	555	751
700	500	MM-75	2	4.6	MB-75	4	1.7	MF-75	2	4.3	665	450	MR-75	645	451
800	600	MM-86	2.5	9.9	MB-86	4	2.3	MF-86	2.5	9	765	550	MR-86	750	551
800	800	MM-88	2.5	13.6	MB-88	5	4.5	MF-88	2.5	12	765	750	MR-88	750	751
800	1000	MM-810	2.5	16.9	MB-810	5	5.7	MF-810	2.5	16	765	950	MR-810	750	951
1000	600	MM-106	2.5	12.6	MB-106	5	4.2	MF-106	2.5	12	965	550	MR-106	945	551
1000	800	MM-108	2.5	16.9	MB-108	5	5.7	MF-108	2.5	16	965	750	MR-108	945	751
1000	1000	MM-1010	2.5	18.6	MB-1010	5	7.1	MF-1010	2.5	17	950	950	MR-1010	945	951
1000	1200	MM-1012	2.5	21.7	MB-1012	5	8.3	MF-1012	2.5	20	950	1150	MR-1012	945	1151
1200	800	MM-128	2.5	17.8	MB-128	5	6.8	MF-128	2.5	17	1150	750	MR-128	1145	751
1200	1000	MM-1210	2.5	21.7	MB-1210	5	8.3	MF-1210	2.5	20	1150	950	MR-1210	1145	951

Dinimel DLM distribution chassis

CRN 43/150 + DLM-24P

Distribution chassis assembly for mudular equipment, ref.: **DLM-...** with adjustable distance between the 35 mm symmetrical profile and cover plate from 40 up to 85 mm.

■ Chassis made of galvanized steel.

■ Blanck cover plate and metal frame painted to RAL-7032. Quick fixing without screws.

■ Identifying circuits system included in the standard supply.

■ Terminal blocks for earth and neutral wiring **ref.: RBLZ/21656** supplied as standard.
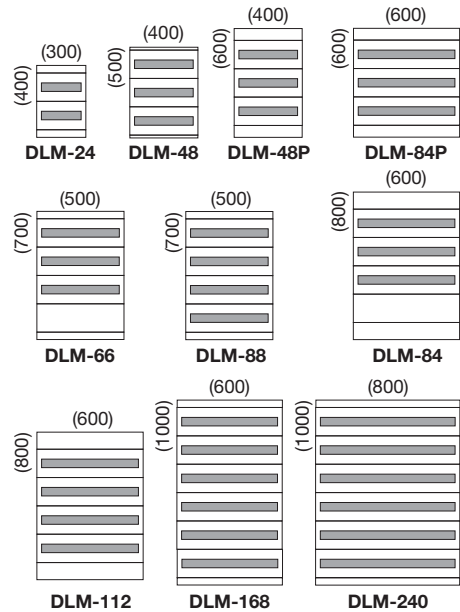
To fit to enclosures CRN-CRS		Reference	Row lay-out				D	E	Blind cover plate	Mounting plate	Blanking plate
Plain door	Transparent door		Breaker rails								
			No. of rows	Quant.	No. of 18 mm mod.	No. of plates					
…-43	…-43/KT	**DLM-24**	2	2	24	-	216	103	CTL300DLM	PMP300DLM	
…-54	…-54/KT	**DLM-48**	3	3	48	-	288	78	CTL400DLM	PMP400DLM	**ATP/72G** (72 mm) 4 modules
…-64	…-64/KT	**DLM-48P**	3	3	48	-	288	128			
…-66	…-66/KT	**DLM-84P**	3	3	84	-	504	128	CTL600DLM	PMP600DLM	
…-75	…-75/KT	**DLM-66**	4	3	66	1	395	103	CTL500DLM	PMP500DLM	
…-75	…-75/KT	**DLM-88**	4	4	88	-	395	103			
…-86	…-86/KT	**DLM-84**	4	3	84	1	504	153	CTL600DLM	PMP600DLM	**ATP/UND** (1100 mm)
…-86	…-86/KT	**DLM-112**	4	4	112	-	504	153			
…-106	…-106/KT	**DLM-168**	6	6	168	-	504	103			
…-108	…-108/KT	**DLM-240**	6	6	234	-	704	103	CTL800DLM	PMP800DLM	
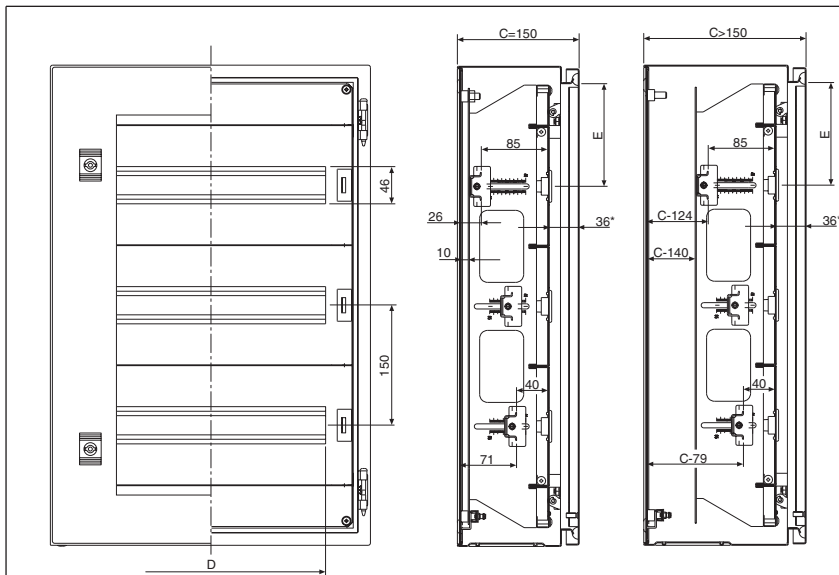
* For enclosures with KT door remove 4 mm.
Note: On 150 mm deep enclosures, the DLM chassis can be fixed to the front or the back of the enclosure. For deeper enclosures, a MM, MB, MF... mounting plate can be fixed to the back. In this case, the chassis can be adjusted in depth through the SDCR supports sold separately.

Fixed and swing 19" racks

CRN 46/300 KT + BRP 7/CRN

Racks to fit directly to 600 and 800 width CRN enclosures.

- Perforated 19" rack system with ☐ 8.5 drillings every 44.45 mm.
- Double bar locking mechanism and reversible door.
- Fixed rack made in galvanised sheet steel and swing rack textured epoxy-polyester paint finish colour grey RAL-7032.
- Fixed rack depth adjustable by **SDCR** adjustable supports.

To be fitted to enclosures			Reference fixed rack	Reference swing rack	D	E	F	G	No. of units (1 U = 44.45 mm)
Height (A)	Width (B)	Depth (C)							
300	600	400	**BRF5/CRN**		-	-	188/238	61	5
400	600	250/300	**BRF8/CRN**		-	359	188/238	61	8
500	600	400	**BRF10/CRN**		-	-	188/238	61	10
600	600	250/300	**BRF12/CRN**		-	537	188/238	61	12
700	600	400	**BRF14/CRN**		-	-	188/238	61	14
800	600	250/300/400	**BRF17/CRN**		-	759	188/238/338	61	17
1000	600	250/300	**BRF21/CRN**		-	937	188/238	61	21
400	600	250/300		**BRP7/CRN**	342	311	188/238	59	7
600	600	250/300		**BRP11/CRN**	542	489	188/238	59	11
800	600	250/300/400		**BRP16/CRN**	742	711	188/238/338	59	16
1000	600	250/300		**BRP20/CRN**	942	889	188/238	59	20
1000	800	250/300/400		**BRP20/CRN 800**	942	889	188/238	59	20
1200	800	300/400		**BRP25/CRN 800**	-	-	188/238	59	25

Fixed rack | **Swing rack**

451
465
B = 600

31.75 | 44.45
12.7 | 44.45
8.5 × 8.5

55

453
465
485
B = 600

Fig. 1

F(1)
G(1)
C

Fig. 2

F
G
C
140°
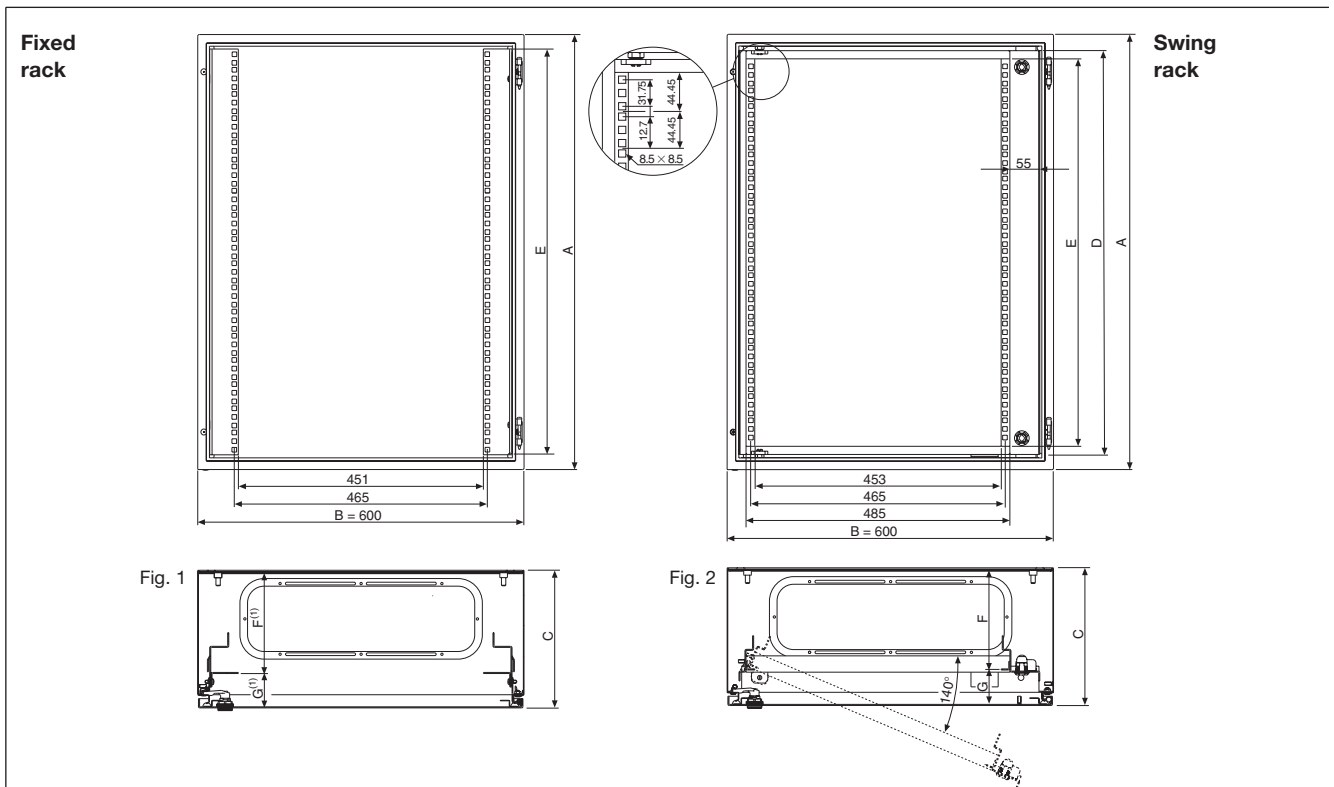
NOTE: F and G can be modified when fixing BRF racks to the SDCR supports.
Enclosures with aluminium PACRN door G is 15 mm more. Enclosures with glazed KT door G is 4 mm less.

One body enclosures

CRN 86/400 EP KT

19" metal enclosures for electronic applications with back and transparent **KT**, door that can fit fixed or swing 19" Racks with □ 8.5 mm drillings every 44.45 mm.

- 5 heights: 4, 7, 9, 13 and 16 units for swing racks and 5, 8, 10, 14 and 17 units for fixed racks.
- Depth 400 mm.
- Made of sheet steel painted to RAL-7032.
- **KT** transparent templated glass reversible door.

- 3 points lock from 700 mm height.
- Fixed rack depth adjustable on 25 mm pitch with adjustable supports (to be ordered separately).
- Cable gland plates.
- Earth welded stud.

Dimensions enclosures (mm)			With 19" swing chassis		With 19" fixed chassis					
Height (A)	Width (B)	Depth (C)	Reference	No. of units	Reference	No. of units	D	E	F	G
300	600	400	**CRN-36/400EP KT**	4	**CRN-36/400EF KT**	5	258	200	275	225
400	600	400	**CRN-46/400EP KT**	7	**CRN-46/400EF KT**	8	358	300	375	325
500	600	400	**CRN-56/400EP KT**	9	**CRN-56/400EF KT**	10	458	400	475	425
700	600	400	**CRN-76/400EP KT**	13	**CRN-76/400EF KT**	14	658	600	675	625
800	600	400	**CRN-86/400EP KT**	16	**CRN-86/400EF KT**	17	758	700	775	725

Dimensions (mm)

FIG. 1

Fixed chassis

Swing chassis

Detail X
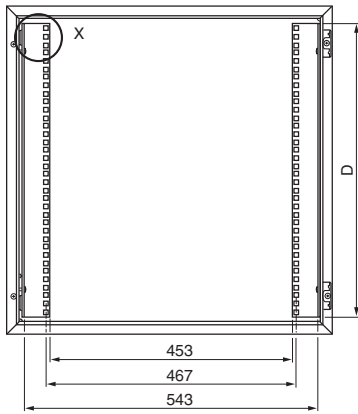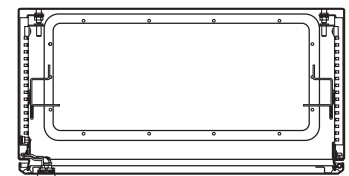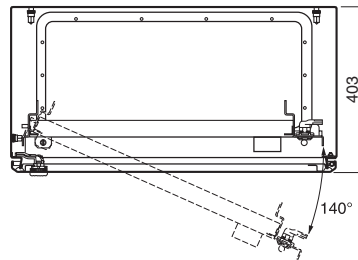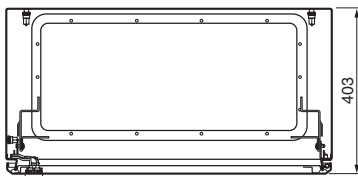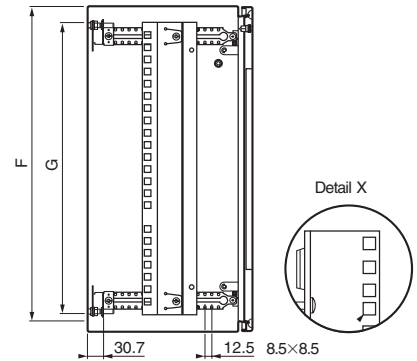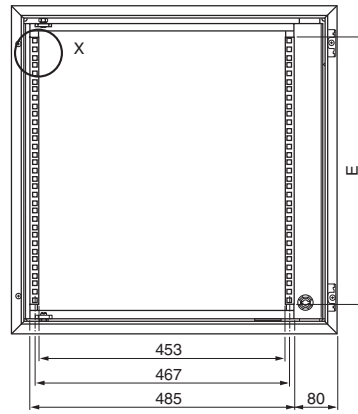
Two bodies enclosures

CRN 86/500E 17U KT

Swing frame metal enclosures for electronic applications with three parts: back, frame and **KT** door, 19" fixed rack with □ 8.5 holes every 44.45 mm.

- 5 heighs: 5, 8, 10, 14 and 17 U.
- 2 depths: 400 and 500 mm.
- Made of sheet steel painted to RAL-7032.

REAR PANEL
- Depth 150 mm.
- Internal attachment point for fixing of various supports.
- Hinges and closure system with body.
- Top and bottom cable gland plates.

BODY
- Usable depth 200 or 300 mm.
- Two 19" uprights in treated steel, set back 100 mm from front face.
- Intermediate body mounted on rear panel with 180° hinges.

DOOR
- KT transparent templated glass.
- 120° opening with 2 or 3 hinges.
- 3 points lock from 700 mm height.

Dimensions (mm)			Reference	No. of units (1 U = 44.45 mm)		D	E	F	L	G	H	J
Height (A)	Width (B)	Depth (C)										
300	600	400	**CRN-36/400E 5U KT**	5		210	306	259	258	225	275	71
400	600	400	**CRN-46/400E 8U KT**	8		210	306	359	358	325	375	71
500	600	400	**CRN-56/400E 10U KT**	10		210	306	459	458	425	475	71
700	600	400	**CRN-76/400E 14U KT**	14		210	306	659	658	625	675	71
800	600	400	**CRN-86/400E 17U KT**	17		210	306	759	758	725	775	71
300	600	500	**CRN-36/500E 5U KT**	5		310	406	259	258	225	275	171
400	600	500	**CRN-46/500E 8U KT**	8		310	406	359	358	325	375	171
500	600	500	**CRN-56/500E 10U KT**	10		310	406	459	458	425	475	171
700	600	500	**CRN-76/500E 14U KT**	14		310	406	659	658	625	675	171
800	600	500	**CRN-86/500E 17U KT**	17		-	406	759	758	725	775	171

Dimensions (mm)

FIG. 1

Detail X

8.5×8.5
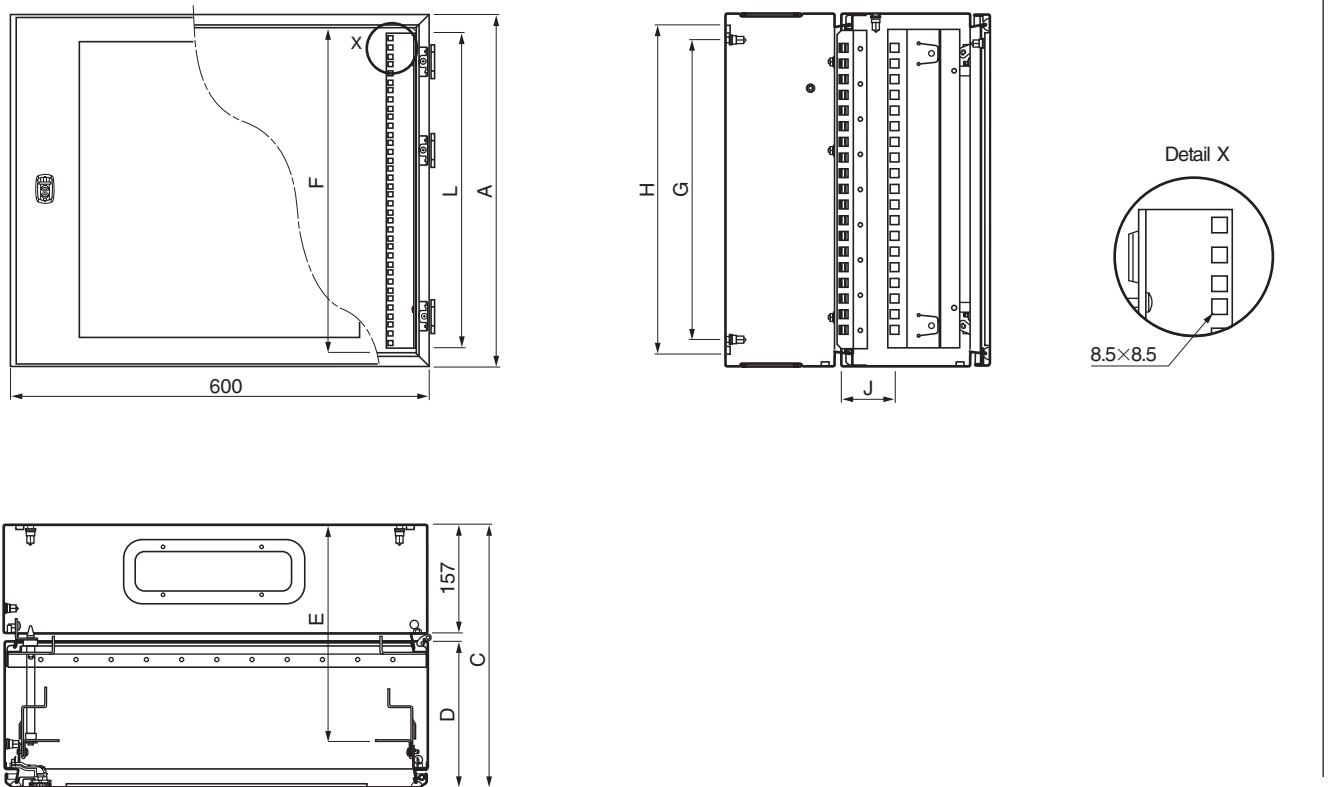
Locks

CDB/CRN

Standard double bar lock ref. **CDB/CRN**. When wing DBP is affited to lock, the double bar lock is transformed into normal wing lock.

■ Operated by:
□ Wing shaped handle ref.: **DBP** ▮ (standard).
□ Key wing **LDB 5** DIN 43668 (optional supply).

KPLM

OPTIONAL LOCK INSERTS TO TRANSFORM STANDARD LOCK

Type	Key type/reference		Reference
3 mm double bar key lock		LDB 5	**TDB/CRN**
□ 6 mm square key lock		LC-7	**TC 6/CRN**
□ 7 mm square key lock		LC-7	**TC 7/CRN**
□ 8 mm square key lock		LC-8	**TC 8/CRN**
△ 6.5 mm triangular key lock		LT-6,5	**TT 6/CRN**
△ 7 mm triangular key lock		LT-8	**TT 7/CRN**
△ 8 mm triangular key lock		LT-8	**TT 8/CRN**
Safety cylinder lock insert with wing key 405			**CL/CRN**
Full metal lock with keylock 405			**CLL/CR-CRS-CRN**
Stainless steel padlock			**KPLM**
Lock with padlock bar for CRN			**CBC/CRN**

Three-point lock for CRN enclosures
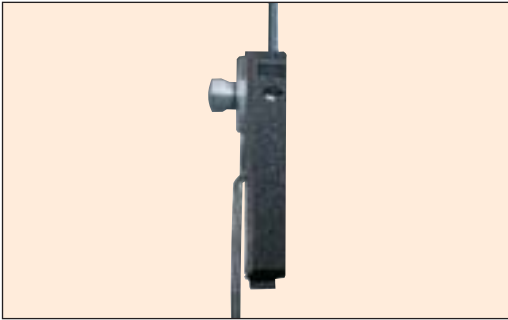
Double bar standard lock for CRN-1010/300, CRN 128/300 and CRN 1210/300 models in their plain and transparent **KT** door versions.

■ Operation through:
□ **LDB 5** key
(according DIN 43668).

OPTIONAL LOCK INSERTS TO TRANSFORM THE STANDARD THREE-POINT LOCKING ENCLOSURES

Type	Key type/reference		Reference
□ 6 mm square lock		LC-7	TC 6/ML
□ 7 mm square lock		LC-7	TC 7/ML
□ 8 mm square lock		LC-8	TC 8/ML
△ 7 mm triangular lock		LT-8	TT 7/ML
△ 8 mm triangular lock		LT-8	TT 8/ML
Handle lock			TS/ML
Handle lock with key			TL/ML

Three-point lock for CRN enclosures

OPTIONAL HANDLE LOCKS TO TRANSFORM STANDARD THREE-POINT LOCK

Type	Key type/reference		Reference
Double bar lock		LDB 5	TEDB/ML
□ 6 mm square lock		LC-7	TEC 6/ML
□ 7 mm square lock		LC-7	TEC 7/ML
□ 8 mm square lock		LC-8	TEC 8/ML
△ 7 mm triangular lock		LT-8	TET 7/ML
△ 8 mm triangular lock		LT-8	TET 8/ML
Key lock type 405			TEL/ML
Safety cylinder lock			TER/ML

Internal doors

Internal door set for fixing to the front of the enclosure. The internal door can also be adjusted in depth through **SDCR** supports. Enables positioning of the mounting plate by making it depth adjustable. Made of sheet steel protected with polyester epoxy grey paint to RAL-7032. Vertical reinforcing profiles are included on up to 800 mm high doors.

CRN 54/200 + PIN 54

To fit to enclosures		Reference	D	E	G	H	I
Height (A)	Width (B)						min.
400	300	**PIN 43**	349	241	208	32	51
500	400	**PIN 54**	449	341	308	32	51
600	400	**PIN 64**	549	341	308	32	51
700	500	**PIN 75**	649	441	408	32	51
800	600	**PIN 86**	749	541	508	32	51
1000	600	**PIN 106**	949	541	508	32	51
1000	800	**PIN 108**	949	741	708	32	51
1200	800	**PIN 128**	1149	741	708	32	52

For glazed door enclosures, H is 4 mm less.
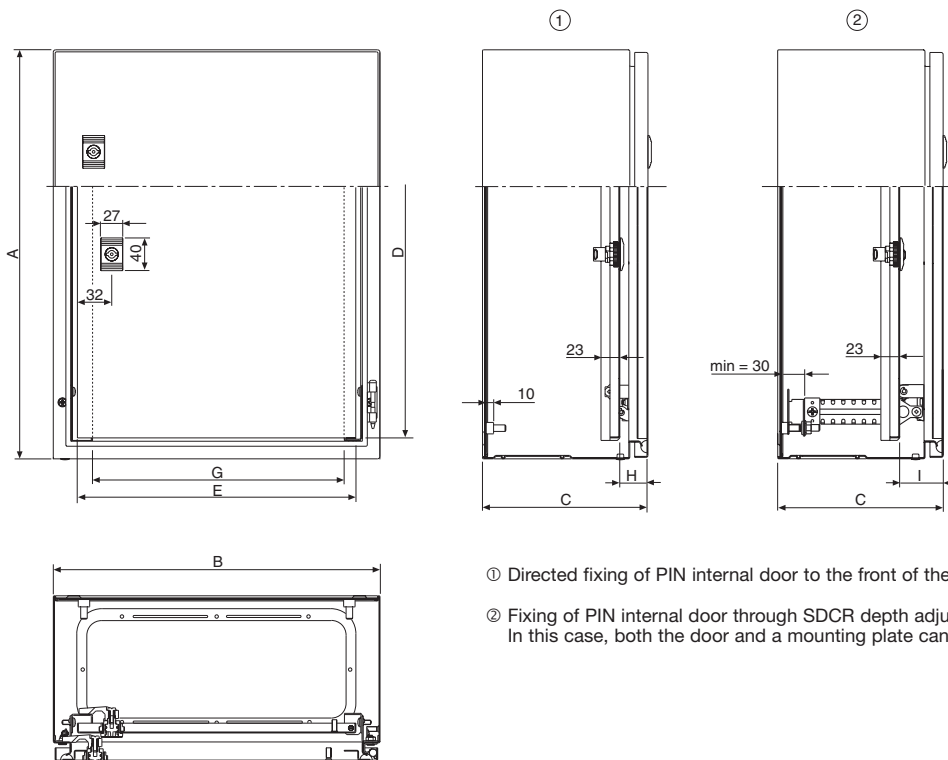
① Directed fixing of PIN internal door to the front of the enclosure.

② Fixing of PIN internal door through SDCR depth adjustable supports. In this case, both the door and a mounting plate can be adjusted.

Aluminium glazed door

PACRN-75

Polycarbonate transparent doors with anodized aluminium frame of great resistance and lightness. Black paint to RAL-9005.
■ Maximum viewing area.
■ Excellent finish.
■ 120° opening.
■ IP40.

Reference	To be fitted to enclosures		Weight kg
	Height (A)	Width (B)	
PACRN-3025	300	250	0.8
PACRN-33	300	300	1
PACRN-43	400	300	1.2
PACRN-44	400	400	1.6
PACRN-46	400	600	2.3
PACRN-54	500	400	2
PACRN-55	500	500	2.4
PACRN-64	600	400	2.3
PACRN-65	600	500	2.8
PACRN-66	600	600	3.2
PACRN-75	700	500	3.1
PACRN-86	800	600	4.1
PACRN-88	800	800	5.4
PACRN-106	1000	600	5
PACRN-108	1000	800	6.3
PACRN-1010	1000	1000	7.6
PACRN-128	1200	800	7.4

Detail of standard double bar lock fitted right on the profile for an excellent finish.

Detail of earthing between body and door frame.
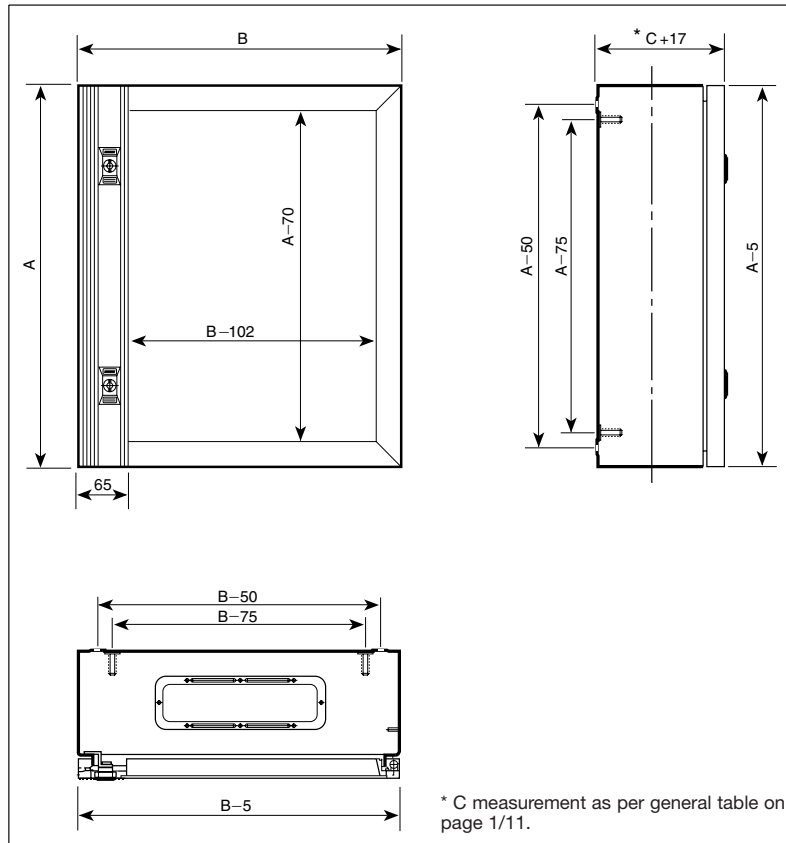
* C measurement as per general table on page 1/11.

Insulated cable gland plates

Made of ABS autoexinguible with fibre glass (30% contents). Colour RAL-7035.

■ With pre-punched Pg holes.

■ Polyurethane foam gasket.

■ Excellent resistance to heat.

Reference	Flange openings*
TSA-CRN/A	A
TSA-CRN/B	B
TSA-CRN/C	C, E**
TSA-CRN/D	D

* See drawings of flange openings on page 1/12.

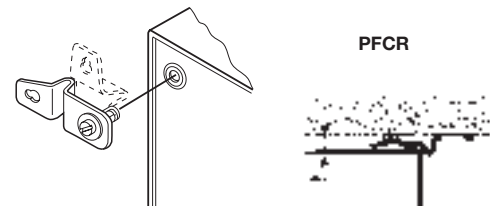** For flange openings type E, two **TSA-CRN/C** are required.

223 × 105
2 Pg 11
2 Pg 13.5
3 Pg 16
1 Pg 21 / 11

259 × 105
2 Pg 11
2 Pg 13.5
4 Pg 16
2 Pg 21 / 11

360 × 163
2 Pg 11
4 Pg 13.5
6 Pg 16
3 Pg 21 / 11
4 Pg 29 / 16
2 Pg 36 / 29

460 × 163
2 Pg 11
3 Pg 13.5
9 Pg 16
6 Pg 21 / 11
4 Pg 29 / 16
2 Pg 36 / 29
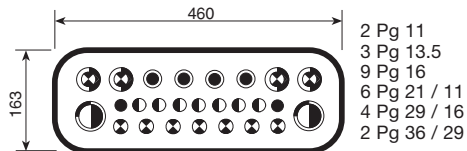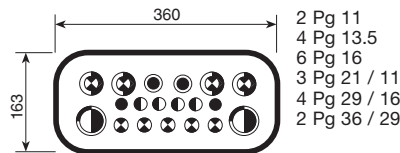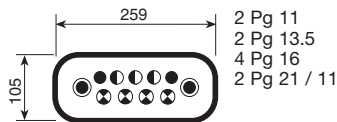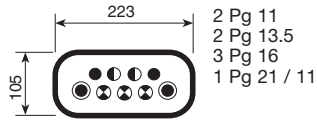
- Pg 11   (18.6 mm)
- Pg 13.5   (20.4 mm)
- Pg 16   (22.5 mm)
- Pg 21 / 11 (28.3 / 18.6 mm)
- Pg 29 / 16 (37 / 22.5 mm)
- Pg 36 / 29 (47 / 37 mm)

Wall fixing brackets

Passivated zinc-coated steel **PFCR**. They are fixed from the outside and can be placed horizontally or vertically. Not included in the standard supply.

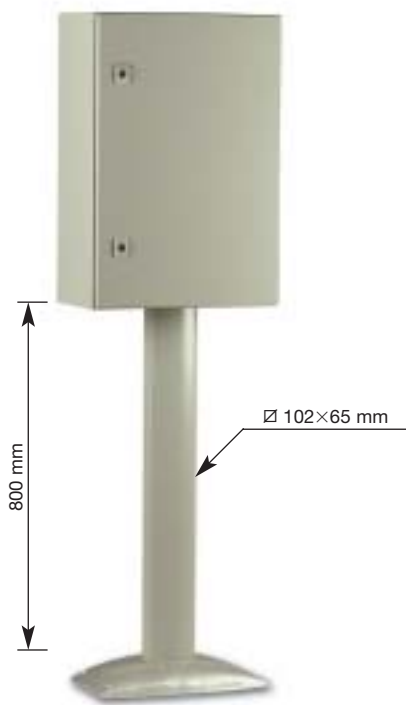| Reference |
|-----------|
| **PFCR** |

PFCR

Single plinths

To fit directly to the enclosures using the drillings for ground fixing.
- 100 and 200 mm high.
- Front and rear access.
- Polyester epoxy resin paint to RAL-7022.
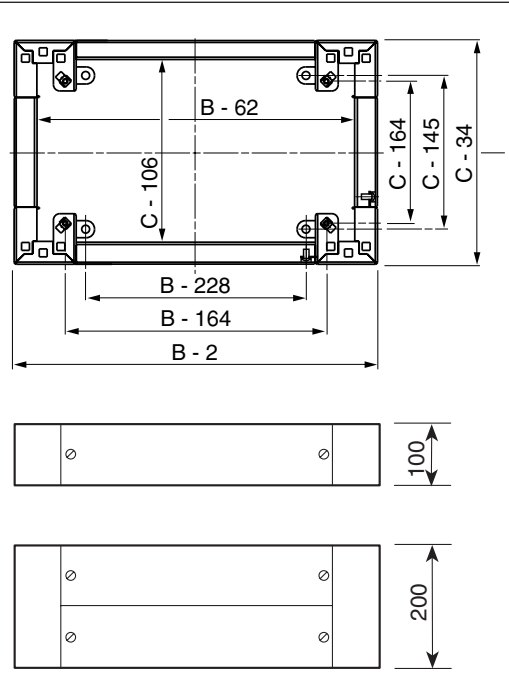
Enclosure dimensions		Plinth height = 100 mm Reference	Plinth height = 200 mm Reference
Width (B)	Depth (C)		
600	300	ZUN 63/100	ZUN 63/200
600	400	ZUN 64/100	ZUN 64/200
800	300	ZUN 83/100	ZUN 83/200
800	400	ZUN 84/100	ZUN 84/200
1000	300	ZUN 103/100	ZUN 103/200
1200	300	ZUN 123/100	ZUN 123/200

Supporting pole

Directly fitted to the flange openings by means of **CHCO** coupling plates. Made of extruded aluminium and painted with polyester epoxi resin to light gray RAL-7032 texturized.

800 mm

⌀ 102×65 mm

SUPPORTING POLE	
Reference	Description
COCN-80	Suitable for all models except CRN-2520/150

COUPLING PLATES	
Reference	To be fitted to flange opening*
CHCO/A	A
CHCO/B	B
CHCO/C	C-E*
CHCO/D	D

* 2 coupling plates and 2 supporting poles are required.

CRN

Louvre plates

To be fitted on any surface of the enclosure for internal ventilation. Colour RAL-7032 texturized.

Ref.	A	B	C	D	E	F
TR-1	144	62	36	110	-	-
TR-2	208	90	72	94	190	-
TR-3	244	90	72	130	226	-
TR-4	345	118	100	231	237	115.5
TR-5	345	148	130	231	327	115.5
TR-6	445	148	130	297	427	148.5
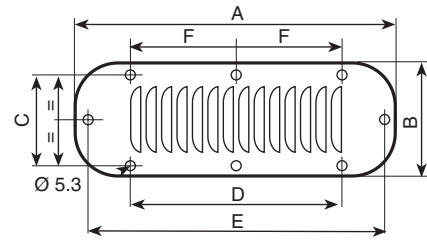
Depth adjustable supports

For 200, 250, 300 and 400 mm depth enclosures. The different positions allow the adjusting of mounting plates and accessories every 12.5 mm.

Reference	To be fitted in enclosures depth (mm)
SDCR 200	200
SDCR 250	250
SDCR 300	300
SDCR 400	400
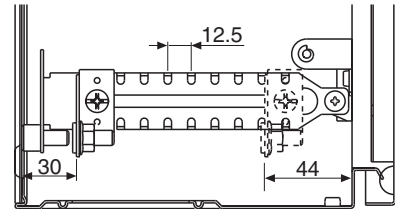
Fixing accessories for universal plates

| Metric sice	Fixing nut		Fixing screw and washer		
		Pack qty.		Lenght (mm)	Pack qty.
M3	TFP 3	100	-	-	-
M4	TFP 4	100	TOR 10/4 A	10	100
			TOR 16/4 A	16	100
M5	TFP 5	100	TOR 12/5 A	12	100
			TOR 18/5 A	18	100
M6	TFP 6	100	TOR 12/6 A	12	100
			TOR 18/6 A	18	100
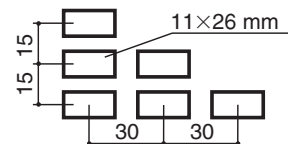
Clamps GCR

Snap-on clamps designed to be installed directly on 19" racks, and MR mounting plates.
Ref.: **GCR.**

Canopies

Metal canopies protectec externally and internally with polyester-epoxy resin to light grey RAL-7032 texturized.
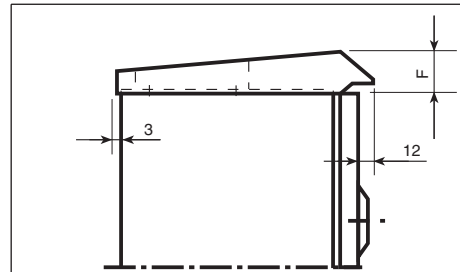
Reference	To be fitted to enclosures		F
	Width (B)	Depth (C)	
TJ-2015	200	150	36
TJ-2515	250	150	36
TJ-2520	250	200	36
TJ-3015	300	150	36
TJ-3020	300	200	36
TJ-4015	400	150	36
TJ-4020	400	200	36
TJ-4025	400	250	42
TJ-5015	500	150	36
TJ-5020	500	200	36
TJ-5025	500	250	42
TJ-6020	600	200	36
TJ-6025	600	250	42
TJ-6030	600	300	42
TJ-6040	600	400	42
TJ-8020	800	200	36
TJ-8025	800	250	42
TJ-8030	800	300	42
TJ-8040	800	400	42
TJ-10030	1000	300	42
TJ-10040	1000	400	42

Earthing braids

Normally used for the earthing between enclosure door and body and between enclosure body and mounting plate. They include the screws necessary for their use. Ref. **CTAF...**, Earthing braids provide an earthing connection suitable for high frequencies since they prevent disturbing unwanted electrical currents that occur at these frequencies.

Reference	Lenght mm	Width mm	Cross section mm²	Material
CTI 17/6	170		6	Copper/brass
CTI 17/10	170		10	Copper/brass
CTI 22/6	220		6	Copper/brass
CTI 22/10	220		10	Copper/brass
CTI 22/25	220		25	Copper/brass
CTI 41/10	410		10	Copper/brass
CTI 41/25	410		25	Copper/brass
CTAF 15/16	155	20	16	Tinned copper
CTAF 20/25	200	21	25	Tinned copper
CTAF 25/25	200	26	25	Tinned copper
CTAF 20/25	200	40	50	Tinned copper

Diagram pockets

PP-A models made of PVC to grey RAL-7035.
■ Adhesive fixing or by means of screws.
For DIN A4 or A5 sized documents.

Size	Reference
A4	**PP-A4**
A5	**PP-A5**

174

188 22

Ref.: PP-A5

234

278 40

Ref.: PP-A4
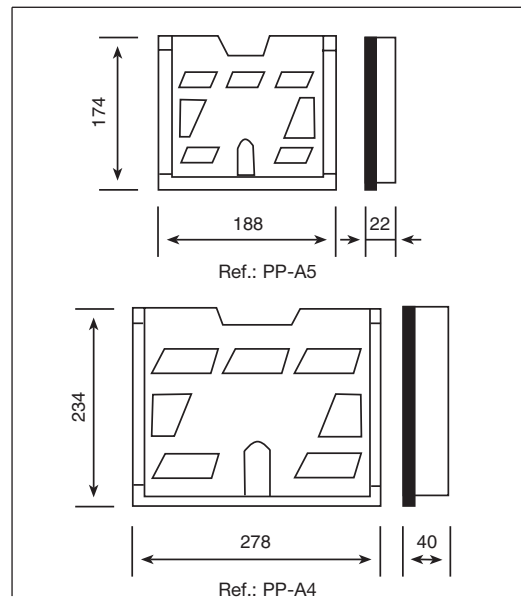
RAL-7032 aerosol

Touch-up paint. Air drying. RAL-7032 colour. 150 g.
Ref.: **BPA-7032**.

Enclosure lighting

Compact neon lamps, specially designed for their use in enclosures. Possibility to fix them with magnet.

■ Electronic low consumption lamp 220 V/50 Hz or 120 V/60 Hz.
■ Consumption 11 W.
■ Power on/off switch.
■ With switch and 220 V/16 A or 120 V/15 A earthed socket.
■ Max. ambient temperature 60 °C.
■ Lighting performance + 75 W bulb.

Characteristics	Reference	Switch	Voltage
Lamp with magnet or 35 mm symmetrical DIN rail fixing	**LAM-75** **LAM-75/120**	220 V/16 A 120 V/15 A	220 V/50 Hz 120 V/60 Hz
Lamp with 35 mm symmetrical DIN rail fixing	**LAC-75** **LAC-75/120**	220 V/16 A 120 V/15 A	220 V/50 Hz 120 V/60 Hz

Enclosure lighting

Lighting specially designed for use in electrical enclosures with various types of fixing and switching.

■ Electronic low consumption lamp E27, 20 W, 220-240 V/50-60 Hz or 120 V/60 Hz.
■ Output equivalent to a 100 W.
■ Connection through terminal block on fixed models or cord on portable models.
■ IP20 rating.
■ Type II insulation.
■ According to standards EN55014 and EN50082-1.

67
100
396
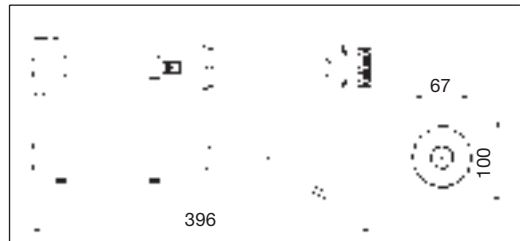
Description	Fixing	Fig.	Reference	Voltage
Proximity switch operated	Magnetic, screws and or DIN 35 rail (1)	1	**LAMDP** **LAMDP 120**	220 V/50 Hz 120 V/60 Hz
ON/OFF switch with optional door switch	Magnetic, screws and or DIN 35 rail(1)	2	**LAMIN** **LAMIN 120**	220 V/50 Hz 120 V/60 Hz
Portable lamp, cord connection	Adhesive or screws	3	**LAMPO** **LAMPO 120**	220 V/50 Hz 120 V/60 Hz
Lamp support for **LAMDP**, **LAMIN**, **LAMPO**	Adhesive or screws (1) DIN rail not included	4	**SOLAM**	

(1) DIN rail not supplied as standard.

CM control bo
to fit human-machine
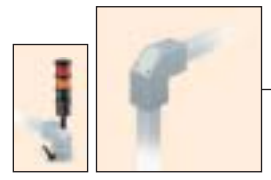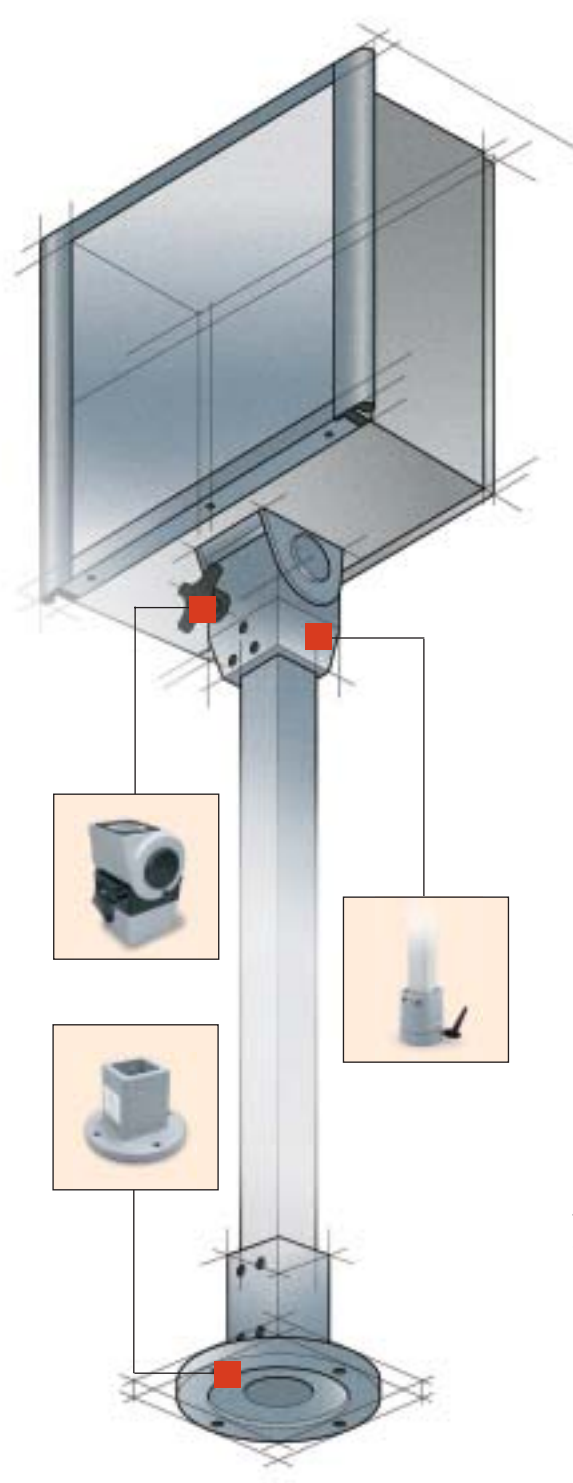
Rear door enabling access to the inside of the control box. Double bar lock.

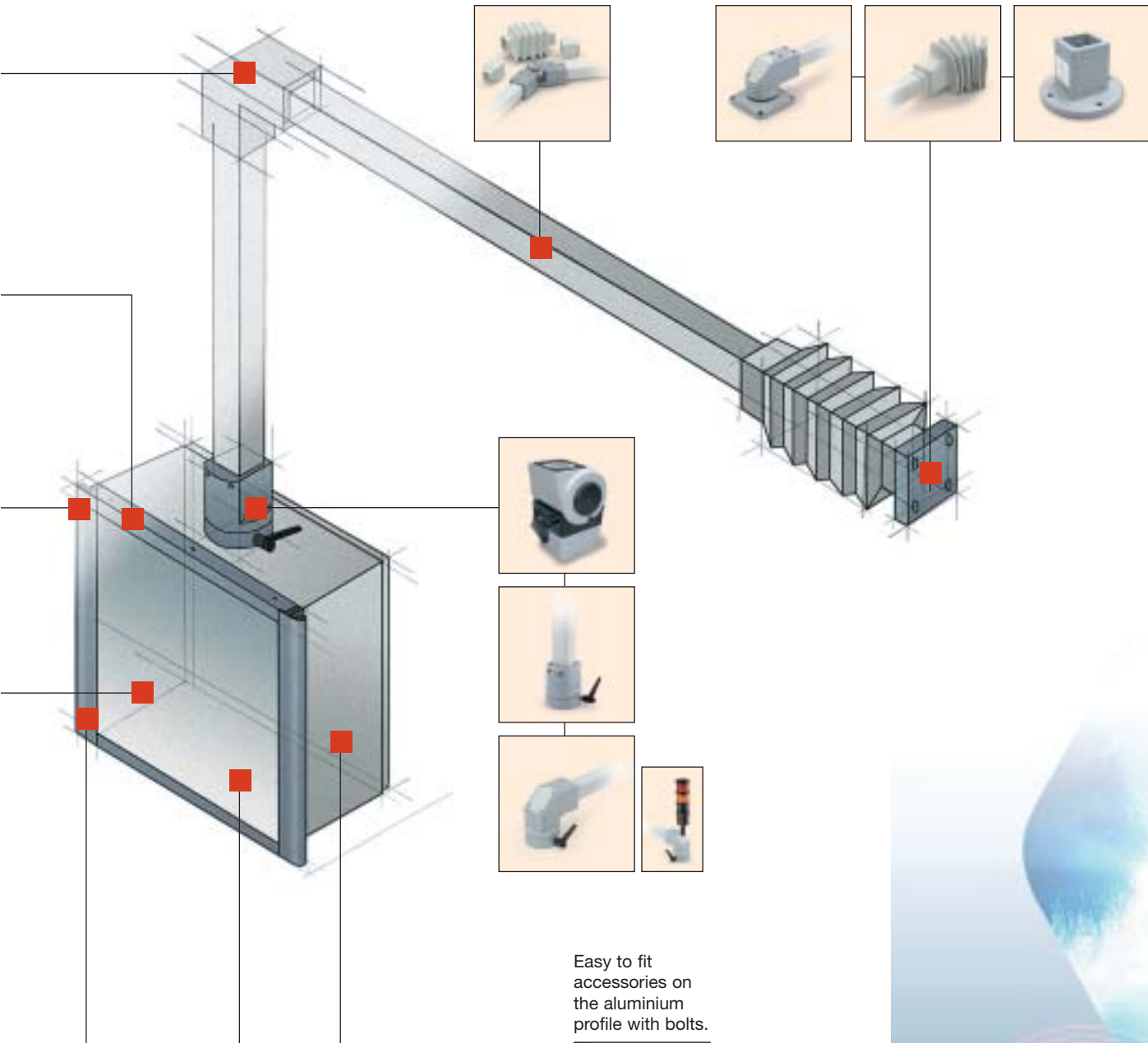Ergonomic frame trim for the manipulation of the box.

Set of profiles to fit elements inside.
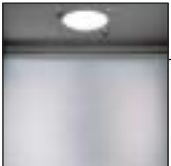
Plastic trim cover to protect the aluminium section.

xes designed dialogue elements

Reinforcement designed to avoid deformation of the box when suspended.

Aluminium front plate, for fitting the dialogue elements.

Easy to fit accessories on the aluminium profile with bolts.

GENERAL DESCRIPTION

WIDE RANGE
Seven sizes of control boxes plus one box for the keyboard.

CONTROL BOX BASED ON THE STANDARD BOX
The new control box is based on our **CRN** box.

REAR DOOR
The rear door opening 120° allows an easy access to the inside of the box.

INTERIOR PROFILES
Two profiles can be fitted inside, using the bolts welded to the sides.

TRIM FRAME
The ergonomic design of the trim frame makes it very easy to handle.
The trim frame is ready for fitting accessories either when installing or later.
It is not necessary to foresee them from the beginning.

ACCESSORIES
A wide range of easy to fit accessories, lamp, diagram support, keyboard holder tray and PC tray.

RESISTANCE TABLES

SUSPENSION SYSTEM WITHOUT INTERMEDIATE ARTICULATED COUPLING
- The load (a + b + control box + elements installed) must be below the maximum load.

- Ex.: If a 50 mm cross section suspension system is used, without an articulated intermediate coupling, wiht a lever arm of 1200 mm, the maximum load it will support is 80 kg.

Length mm	Cross section 50 Maximum load kg	Cross section 80 Maximum load kg
500	100	150
1000	100	150
1500	60	110
2000	50	80
2500	-	60

FIG. 1

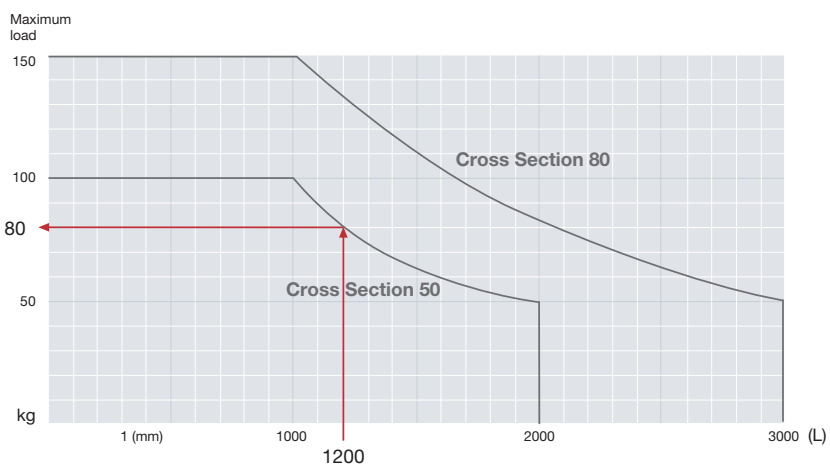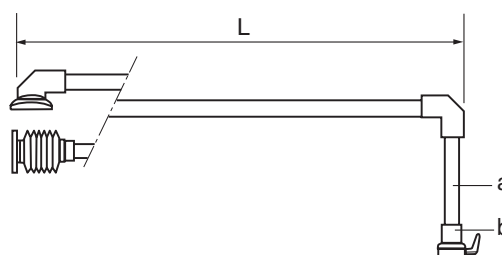## SUSPENSION SYSTEM
A wide range of accessories to assemble the suspension system, available in two sizes, covering a large number of applications.

DESIGN
The neutral design of the control boxes allows them to be used in a large number of applications.

ADAPTABILITY
The boxes can be painted in other colours on request. The aluminium front plate can be machined to facilitate the fitting of dialogue elements.

SUSPENSION SYSTEM WITH AN INTERMEDIATE ARTICULATED COUPLING
- The load (a + b + control box + elements installed) must be below the maximum load.

- Ex.: If a 80 mm cross section suspension system is used, with an intermediate articulated coupling, with a lever arm of 1700 mm, the maximum load it will support is 80 kg.

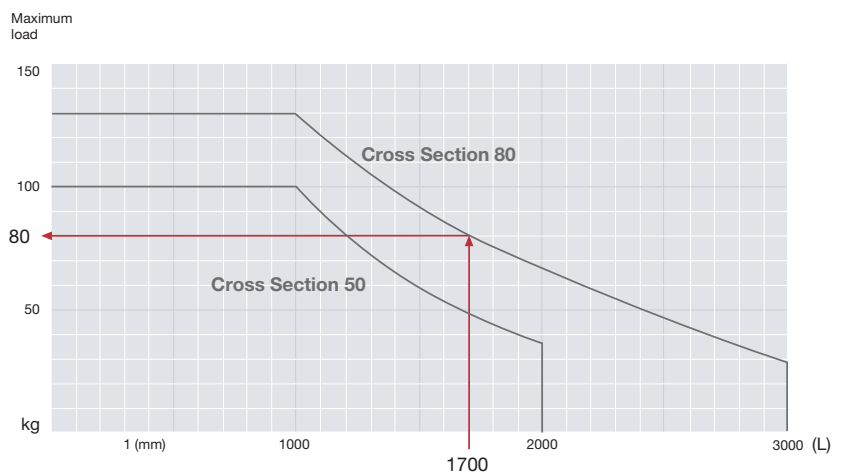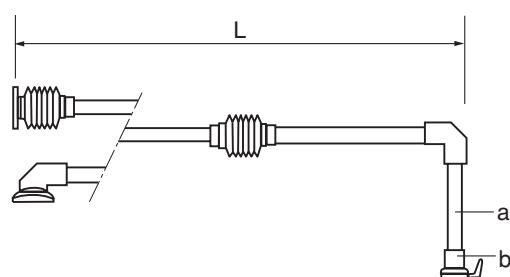| Length mm	Cross section 50 Maximum load kg	Cross section 80 Maximum load kg
500	100	130
1000	100	130
1500	55	90
2000	35	60
2500	-	40

FIG. 1

IP66 (EN 60529)

CM 6080/300

CM 8060/300

CM 4040/200

Control box system designed to fit man-machine dialogue elements, reinforced at the top and drilled to fit articulations.
Boxes 600 mm wide are prepared for fitting a keyboard.

■ Anodised aluminium front plate for fitting man-machine dialogue elements.
■ Ergonomic extruded aluminium trim frame to facilitate the manipulation of the box.
■ 4 bolts M5×15 welded on each side of the box to enable the fitting of profiles for the assembly of elements.

■ Rear door opening 120°.
■ IP55.
■ Box painted in epoxy polyester resin colour RAL-7035 fine texture. Trim frame for securing the front panel in plain RAL-7040 colour.
■ For lock changes see **CRN** catalogue.

Basic composition:
■ Steel box.
■ Steel reinforcement.
■ Aluminium trim.
■ Aluminium front plate.
■ 2 profiles to fit the interior elements.
■ Double bar lock.

BOXES DIMENSIONS

Dimensions in mm					50	80	50	80	50	80	50	80	50	80	50	80	50	80	50	80	50	80	50	80
Height	Width	Depth	Reference																						
300	300	200	HHH**CM3030/200**		■		■		■		■		■		■		■		■		■		■	
300	400	200	HHH**CM3040/200**		■		■		■		■		■		■		■		■		■		■	
400	400	200	HHH**CM4040/200**		■		■		■		■		■		■		■		■		■		■	
400	600	250	HHH**CM4060/250**	■	■		■		■		■		■		■		■		■		■		■	
500	500	250	HHH**CM5050/250**		■		■		■		■		■		■		■		■		■		■	
600	600	200	HHH**CM6060/200**	■	■		■		■		■		■		■		■		■		■		■	
600	800	300	HHH**CM6080/300**			■		■		■		■		■		■		■		■		■		■
800	600	300	HHH**CM8060/300**	■		■		■		■		■		■		■		■		■		■		■

REFERENCES AND DETAILS OF BOXES

Reference	A	B	C	D	F	G	H	J	Fig.	Weight kg
HHH**CM3030/200**	300	300	180	162	260	260	100	45	2	8.6
HHH**CM3040/200**	300	400	180	162	360	260	100	45	2	9.5
HHH**CM4040/200**	400	400	180	262	360	360	100	45	2	11.4
HHH**CM4060/250**	400	600	250	262	560	360	125	100	1	17.9
HHH**CM5050/250**	500	500	250	362	560	460	125	100	2	20.2
HHH**CM6060/200**	600	600	200	462	560	560	150	100	1	26.5
HHH**CM6080/300**	600	800	280	462	760	560	150	100	3	34.9
HHH**CM8060/300**	800	600	280	662	560	760	150	100	1	33.6

Dimensions (mm)

FIG. 1

Ø 80 + keyboard

FIG. 2

Ø 50

FIG. 3

Ø 80

CM
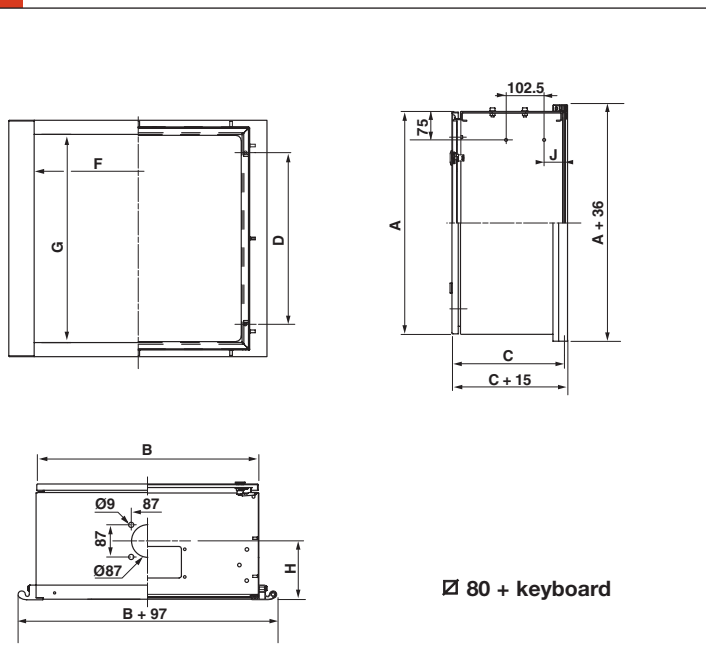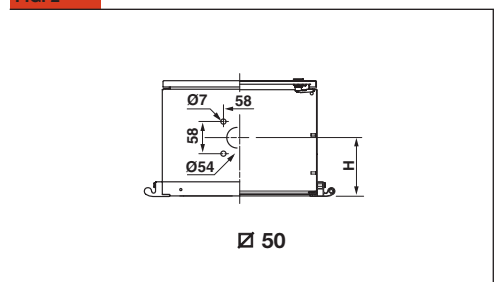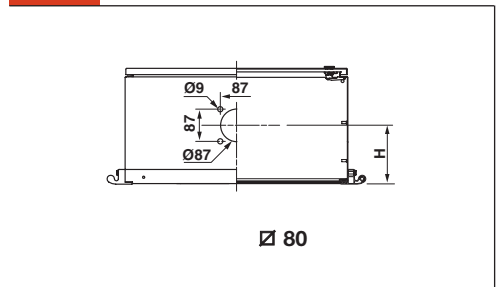
IP54 (EN 60529)

Tubes

- For the assembly of suspension systems.
- Closed profile to increase the rigidity of the system.
- Material: Iron.
- Colour: RAL-7035.

Weight	
50×50	6.5 kg/m
80×80	10.5 kg/m

Reference		
Cross section 50	Cross section 80	Lenght in m
HHH**CM T5005**	HHH**CM T8005**	0.50
HHH**CM T5010**	HHH**CM T8010**	1.00
HHH**CM T5015**	HHH**CM T8015**	1.50
HHH**CM T5020**	HHH**CM T8020**	2.00

Straight coupling

- To join the box to a tube vertically.
- Box suspended.
- Turning angle limited mechanically to about 310º.
- Material: Aluminium.
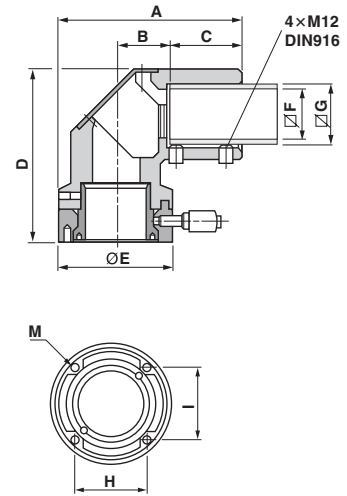- Colour: RAL-7040.
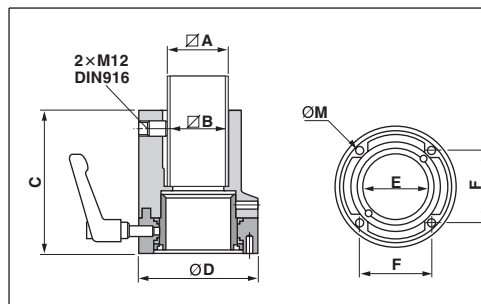
REFERENCES AND DETAILS

	Dimensions in mm							
Reference	A	B	C	D	E	F	M	Weight kg
HHH**CM/UCR50**	50	42	115	96	52.3	58	M6	1.25
HHH**CM/UCR80**	80	72	145	139	85	87	M8	3.10

IP54 (EN 60529)

"L" coupling for box

- To fix the box to a tube horizontally.
- Box suspended.
- Turning angle limited mechanically to about 310º.
- Material: Aluminium.
- Colour: RAL-7040.
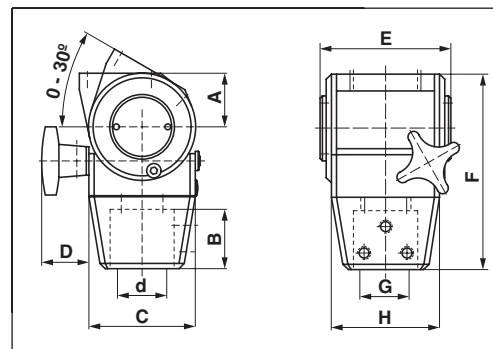- Colour of inspection cover: RAL-7035.

REFERENCES AND DETAILS

Reference	Dimensions in mm										
	A	B	C	D	E	F	G	H	I	M	Weight kg
HHH**CM/UCC50**	154	46	60	147	96	42	50	42	58	M6	2.00
HHH**CM/UCC80**	208.5	56	83	190	139	72	80	70	87	M8	6.55

Rotating coupling

- To join the box to a tube vertically.
- Box suspended or supported.
- Rotation angle 30º.
- Material: Cast iron.
- Colour: RAL-7040.

REFERENCES AND DETAILS

Reference	Dimensions in mm								
	A	B	C	D	d	E	F	G	H	Weight kg
HHH**CM/UCP50**	50	55	100	44	50	121	182	50	100	2.98
HHH**CM/UCP80**	50	55	100	44	80	121	182	50	100	3.10

C M

IP54 (EN 60529)

Fixing of suspension system to a horizontal surface

- To fix the suspension system to a horizontal surface.
- Turning angle limited mechanically to about 295°.
- Material: Cast iron.
- Colour: RAL-7040.
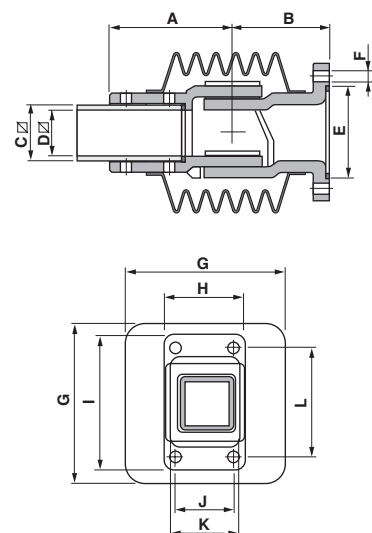- Colour of the inspection cover: RAL-7035.
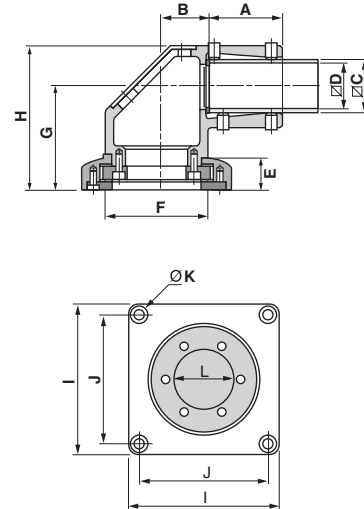
REFERENCES AND DETAILS

	Dimensions in mm											
Reference	A	B	C	D	E	F	G	H	I	J	K	L	Weight kg
HHHCM/UMC50	68	50	50	42	30	96	96	134	140	120	9	55	5.40
HHHCM/UMC80	98	74	80	72	45	144	141.5	195.5	210	180	13	84	15.70

Articulated fixing of suspension system to a vertical surface

- For the articulated fixing of the suspension system to a vertical surface.
- Articulation protected by a rubber bellows.
- Approximate maximum opening angle 170º.
- Material: Cast iron.
- Colour: RAL-7040.
- Colour of bellows: RAL-7035.
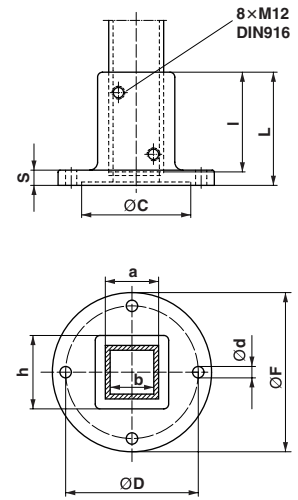
REFERENCES AND DETAILS

	Dimensions in mm											
Reference	A	B	C	D	E	F	G	H	I	J	K	L	Weight kg
HHHCM/UMA50	118	92	50	42	85	11	148	80	130	55	68	105	4.35
HHHCM/UMA80	160	115	80	72	130	11	190	115	175	90	103	150	9.45

Pedestal

■ To fix the suspension system to a vertical or horizontal surface.
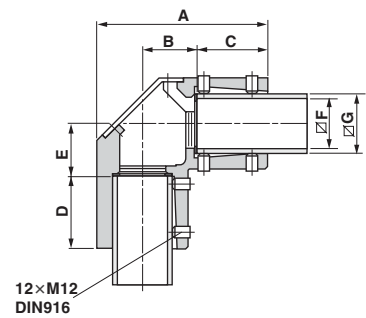■ Material: Cast iron.
■ Colour: RAL-7040.

REFERENCES AND DETAILS

Reference	Dimensions in mm										
	a	b	c	d	D	F	h	l	L	S	Weight kg
HHH**CM/UMR50**	50	42	105	11	125	152	72	97	110	15	3.25
HHH**CM/UMR80**	80	72	134	11	173	201	111	126	140	16	7.00

"L" coupling for tube

■ To join two tubes at 90º.
■ Material: Aluminium.
■ Colour: RAL-7040.
■ Colour of inspection cover: RAL-7035.

REFERENCES AND DETAILS

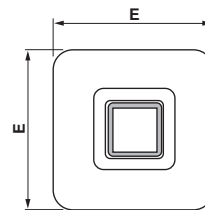| Reference	Dimensions in mm							
	A	B	C	D	E	F	G	Weight kg
HHH**CM/UTC50**	144	46	60	60	46	42	50	1.35
HHH**CM/UTC80**	193	56	83	83	56	70	80	2.40

C M

IP54 (EN 60529)

Intermediate articulated coupling

- For an articulated horizontal coupling between tubes.
- Articulation protected by a rubber bellows.
- Approximate maximum opening angle 170°.
- Material: Cast iron.
- Colour: RAL-7040.
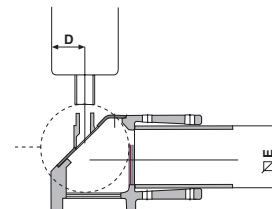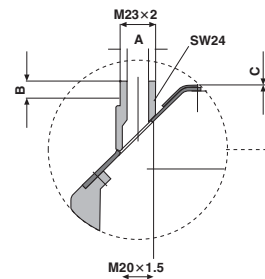- Colour of bellows: RAL-7035.
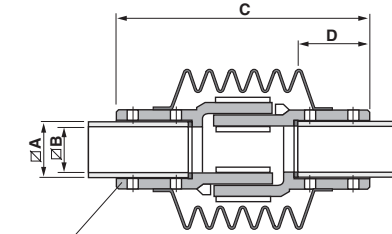
12×M12 DIN916

REFERENCES AND DETAILS

Reference	Dimensions in mm					
	A	B	C	D	E	Weight kg
HHH**CM/UIA50**	50	42	236	67	148	4.25
HHH**CM/UIA80**	80	72	320	94	190	10.00

Control lamp adaptor

- For fitting the signalling column.
- Material: Aluminium.
- Colour: RAL-7035.

M23×2
SW24
M20×1.5

REFERENCES AND DETAILS

| Reference	Dimensions in mm					
	A	B	C	D	E	Weight kg
HHH**CM/ACS50**	14	11	8.7	31.5	50	0.025
HHH**CM/ACS80**	14	11	2.5	43	80	0.080

Keyboard for control boxes

Keyboard prepared for fitting to the control boxes, 600 mm wide. The 120° joint is made by 2 metal brackets and aluminium trim.

■ Anodised aluminium front plate to fit the keyboard.
Side orifice for cables.
■ Rear cover, screwed on, totally removable, to facilitate access to the inside.
■ Ergonomic extruded aluminium trim frame.
■ IP55.
■ Box painted in epoxy polyester resin colour RAL-7035 fine texture. Trim frame to secure the plate and aluminium profile in plain RAL-7040 colour.
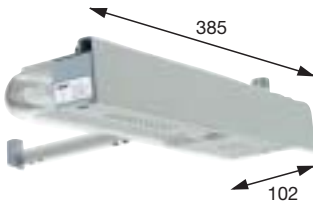
Keyboard Dimensions in mm				
Height	Width	Depth	Reference	Weight kg
250	600	110	HHH**CMT 2560/110**	8
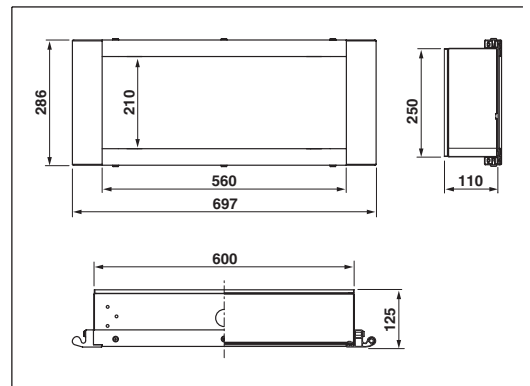
Basic composition:

■ Steel box.
■ Aluminium trim.
■ Aluminium front plate.
■ 2 brackets to join to the control box.
■ Trim profile for the joint between the keyboard and the control box.
■ Cable conduit.

Low consumption lamp (11 W)

■ Provides lighting and a 16 A power socket over the workplace.
■ Bracket colour to RAL-7035.
■ Articulation colour to RAL-7040.
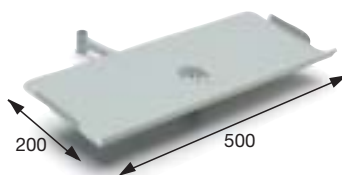
Reference	HHH**CM/LAG**	1.5 kg

Diagram support

■ Holds diagrams or other documents conveniently.
■ Colour: RAL-7035.
■ Articulation colour: RAL-7040.

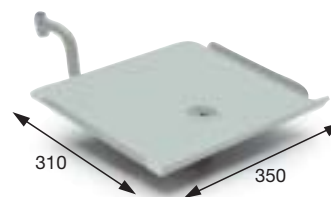| Reference	HHH**CM/SPP**	1.15 kg

Keyboard support tray

■ Tray to hold a PC keyboard.
■ Colour: RAL-7035.
■ Colour of articulations: RAL-7040.

Reference	HHH**CM/BPT**	2.16 kg

Tray to hold a PC

■ Tray to hold a laptop computer.
■ Colour: RAL-7035.
■ Articulation colour: RAL-7040.

Reference	HHH**CM/BPC**	2.04 kg

Floor standing indus

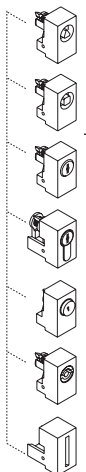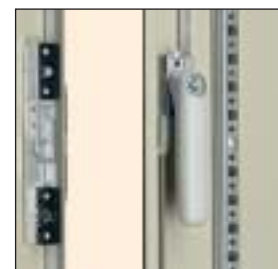A complete range of full or partial mounting plates suitable for most types of installations.

Detail of the tempered glass fixing.

Standard flat lock placed outside the gasketed area. Handle lock and various lock combinations available.

Double door enclosures with an internal locking system to ensure the IP degree.

A complete system to earth the enclosure and components.

trial enclosures CMO
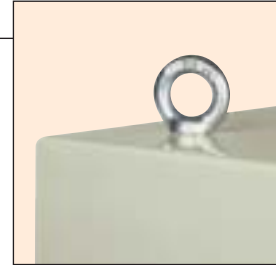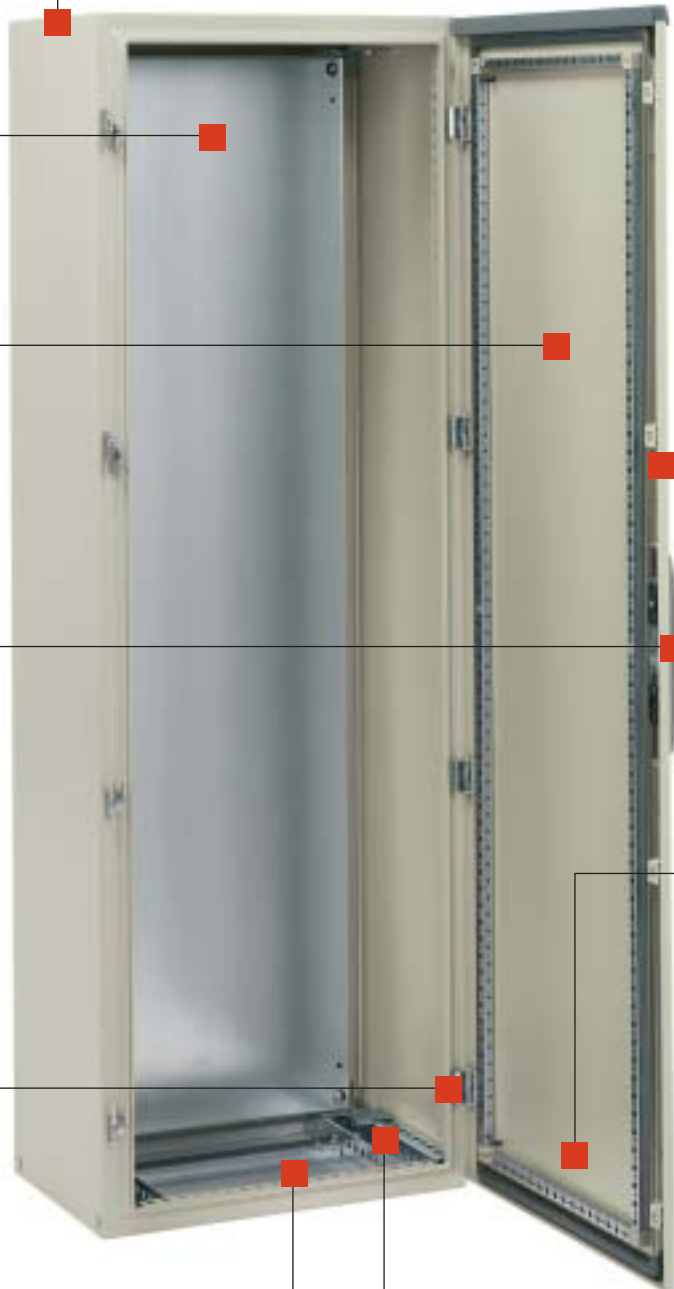
Lifting eyebolts bolted directly to the cubicle structure.

Inside view of the 2 mm thick door with detail of 15 × 20 mm cross section reinforcement frame with Ø 5 and 10 mm drilling every 25 mm.

Door recentering wedge.

Detail of front perforated profile with 25 mm pitch for fixing of accessories, modular distribution chassis, 19" racks, etc.

Detail of profiles with 25 mm pitch for depth adjustment of equipment.

CMO 186/40 PM

CMO 186/40

Monobloc floor standing enclosure made from a continuous length of sheet steel triple folded. Front with perforated profile. Back welded onto a flanged rear profile for higher protection. Painted internally and externally with polyester epoxy powder paint to light grey RAL-7032 and texturized finish.

Easy installation:

- Front frame with ⊠ 11×13 mm drillings and 25 mm pitch for fixing of accessories, modular distribution chassis, 19" racks, etc.
- Perforated profiles with 25 mm pitch for depth adjusting of mounting plate and other accessories.
- Front door, 120° opening to right or left with reinforcing profile which can be used for mounting of equipment.

Rigidity and watertightness:

- Double folding of front profile and reinforced fixing of the back.

- Self-centreing of door through specially designed lock catches.
- Locking system outside gasketed area.
- Internal handle on left door for 2 doors up to 1400 mm high enclosures.
- 4 point locking on heights 1600 to 2000 mm.
- 2 point locking on heights 1000 to 1400 mm.
- Foamed polyurethane gasket.

Configuration:

- **CMO...PM** version includes mounting plate.
- 4 mounting plate supports.
- Plain front door with reinforcing frame.
- 5 mm double bar locking system.
- 2 parts cable gland plate supplied with a gasket.

ENCLOSURES, DIMENSIONS AND REFERENCES

External dimensions (mm)			No. of doors	Reference	
Height (A)	Width (B)	Depth (C)		Enclosure with mounting plate	Enclosure without mounting plate
1000	1000	300	2	CMO 1010/30 PM	CMO 1010/30
1200	800	300	1	CMO 128/30 PM	CMO 128/30
1200	1000	300	2	CMO 1210/30 PM	CMO 1210/30
1200	1200	400	2	CMO 1212/40 PM	CMO 1212/40
1400	600	300	1	CMO 146/30 PM	CMO 146/30
1400	600	400	1	CMO 146/40 PM	CMO 146/40
1400	800	300	1	CMO 148/30 PM	CMO 148/30
1400	800	400	1	CMO 148/40 PM	CMO 148/40
1400	1000	400	2	CMO 1410/40 PM	CMO 1410/40
1400	1200	400	2	CMO 1412/40 PM	CMO 1412/40
1600	600	300	1	CMO 166/30 PM	CMO 166/30
1600	600	400	1	CMO 166/40 PM	CMO 166/40
1600	800	300	1	CMO 168/30 PM	CMO 168/30
1600	800	400	1	CMO 168/40 PM	CMO 168/40
1600	1000	300	2	CMO 1610/30 PM	CMO 1610/30
1600	1000	400	2	CMO 1610/40 PM	CMO 1610/40
1600	1000	400	2	CMO 1610/40 PM SB*	-
1600	1200	300	2	CMO 1612/30 PM	CMO 1612/30
1600	1200	400	2	CMO 1612/40 PM	CMO 1612/40
1800	600	300	1	CMO 186/30 PM	CMO 186/30
1800	600	400	1	CMO 186/40 PM	CMO 186/40
1800	800	300	1	CMO 188/30 PM	CMO 188/30
1800	800	400	1	CMO 188/40 PM	CMO 188/40
1800	800	500	1	CMO 188/50 PM	CMO 188/50
1800	800	600	1	CMO 188/60 PM	CMO 188/60
1800	1000	400	2	CMO 1810/40 PM	CMO 1810/40
1800	1000	500	2	CMO 1810/50 PM	CMO 1810/50
1800	1200	400	2	CMO 1812/40 PM	CMO 1812/40
1800	1200	400	2	CMO 1812/40 PM SB*	-
1800	1200	500	2	CMO 1812/50 PM	CMO 1812/50
1800	1600	400	2	CMO 1816/40 PM	CMO 1816/40
1800	1600	500	2	CMO 1816/50 PM	CMO 1816/50
2000	600	300	1	CMO 206/30 PM	CMO 206/30
2000	600	400	1	CMO 206/40 PM	CMO 206/40
2000	800	300	1	CMO 208/30 PM	CMO 208/30
2000	800	400	1	CMO 208/40 PM	CMO 208/40
2000	800	500	1	CMO 208/50 PM	CMO 208/50
2000	800	600	1	CMO 208/60 PM	CMO 208/60
2000	1000	400	2	CMO 2010/40 PM	CMO 2010/40
2000	1000	500	2	CMO 2010/50 PM	CMO 2010/50
2000	1200	400	2	CMO 2012/40 PM	CMO 2012/40
2000	1200	500	2	CMO 2012/50 PM	CMO 2012/50
2000	1200	600	2	CMO 2012/60 PM	CMO 2012/60
2000	1600	400	2	CMO 2016/40 PM	CMO 2016/40
2000	1600	500	2	CMO 2016/50 PM	CMO 2016/50
2000	1600	600	2	CMO 2016/60 PM	CMO 2016/60

* SB: CMO with roof panel.

CMO

IP55 (EN 60529)

CMO 186/40 KT

Monobloc floor standing enclosure made from a continuous length of sheet steel triple folded.

- Front door, 120° opening to right or left with reinforcing profile which can be used for mounting of equipment.
- Rest of characteristics like those of the CMO standard enclosure.

Configuration:
- Glazed door.
- 5 mm double bar locking system.
- 4 mounting plate supports.
- 2-part cable gland plate with gasket.

ENCLOSURES, DIMENSIONS AND REFERENCES

External dimensions (mm)				
Height (A)	Width (B)	Depth (C)	No. of doors	Reference
1200	800	300	1	CMO 128/30 KT
1400	600	300	1	CMO 146/30 KT
1400	600	400	1	CMO 146/40 KT
1400	800	300	1	CMO 148/30 KT
1400	800	400	1	CMO 148/40 KT
1600	600	300	1	CMO 166/30 KT
1600	600	400	1	CMO 166/40 KT
1600	800	300	1	CMO 168/30 KT
1600	800	400	1	CMO 168/40 KT
1800	600	300	1	CMO 186/30 KT
1800	600	400	1	CMO 186/40 KT
1800	600	500	1	CMO 186/50 KT
1800	600	600	1	CMO 186/60 KT
1800	800	300	1	CMO 188/30 KT
1800	800	400	1	CMO 188/40 KT
1800	800	500	1	CMO 188/50 KT
1800	800	600	1	CMO 188/60 KT
2000	600	300	1	CMO 206/30 KT
2000	600	400	1	CMO 206/40 KT
2000	600	500	1	CMO 206/50 KT
2000	600	600	1	CMO 206/60 KT
2000	800	300	1	CMO 208/30 KT
2000	800	400	1	CMO 208/40 KT
2000	800	500	1	CMO 208/50 KT
2000	800	600	1	CMO 208/60 KT

IP55 (EN 60529)

CMO 188/60 PUP

Monobloc floor standing enclosure made from a continuous length of sheet steel triple folded. Front and back with perforated profile. Back welded onto a flanged rear profile for higher protection.

■ Front and rear door, 120° opening to right or left with reinforcing profile which can be used for mounting of equipment.
■ Rest of characteristics like those of the CMO standard enclosure.
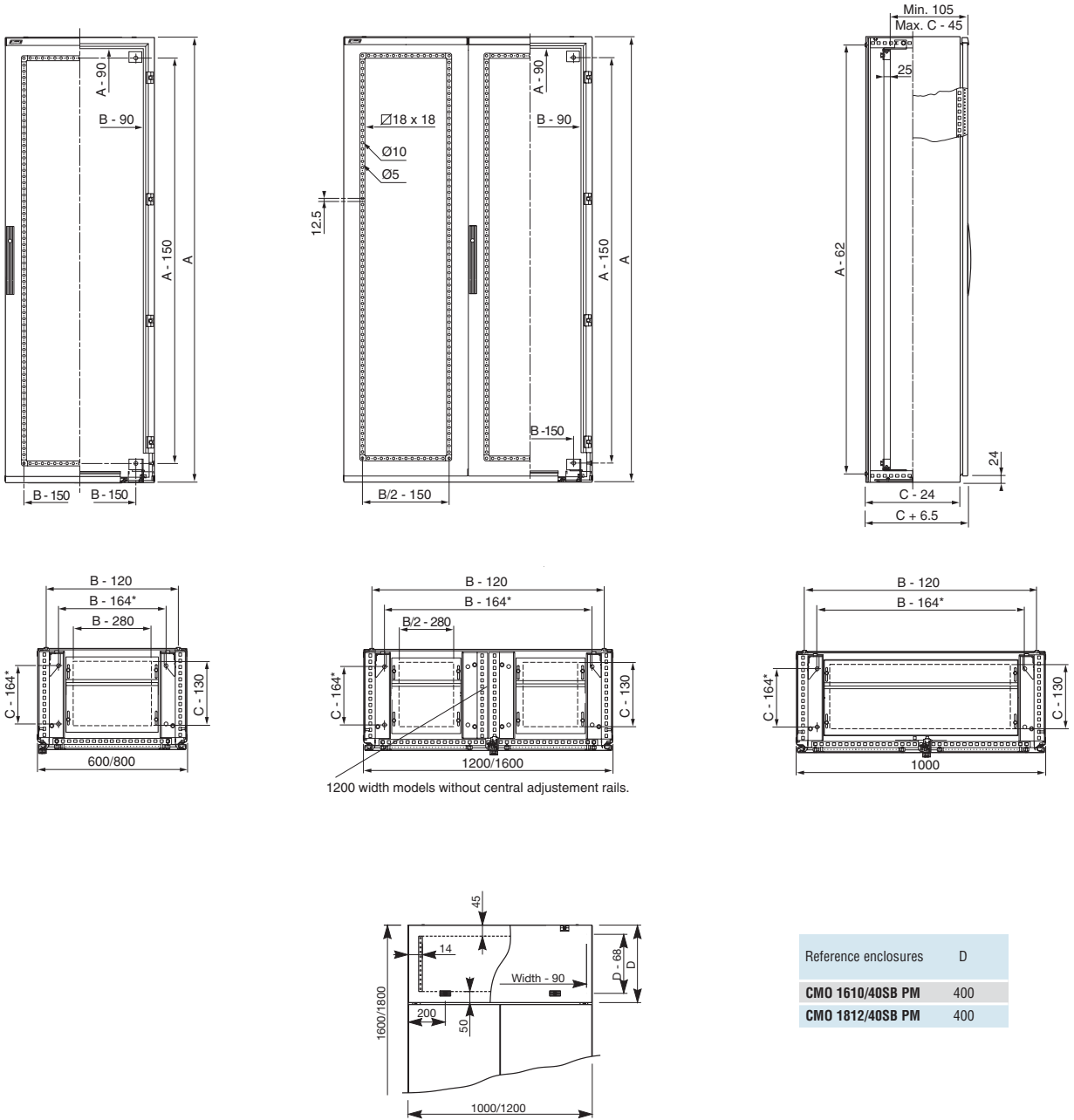
Configuration:
■ Plain front door with reinforcing profile and back door without.
■ 5 mm double bar locking system.
■ 4 mounting plate supports.
■ 2-part cable gland plate with gasket.
■ Internal handle on left door for 2 doors enclosure.

ENCLOSURES, DIMENSIONS AND REFERENCES

External dimensions (mm)				
Height (A)	Width (B)	Depth (C)	No. of doors	Reference
1800	800	600	1 + 1	**CMO 188/60 PUP**
2000	800	600	1 + 1	**CMO 208/60 PUP**
2000	1200	600	2 + 2	**CMO 2012/60 PUP**

CMO

MONOBLOC FLOOR STANDING ENCLOSURES

IP55 (EN 60529)

Dimensions (mm)

1200 width models without central adjustement rails.

* Ground or plinth fixing dimensions.

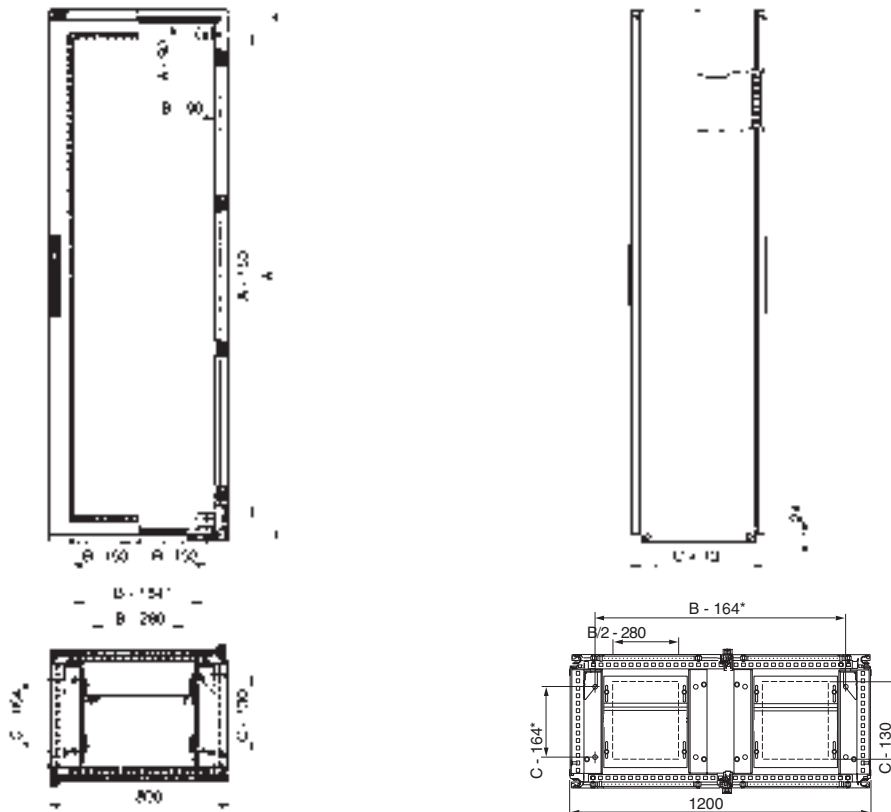| Reference enclosures	D
CMO 1610/40SB PM	400
CMO 1812/40SB PM	400

Dimensions (mm)

FIG. 2

CMO...KT enclosures
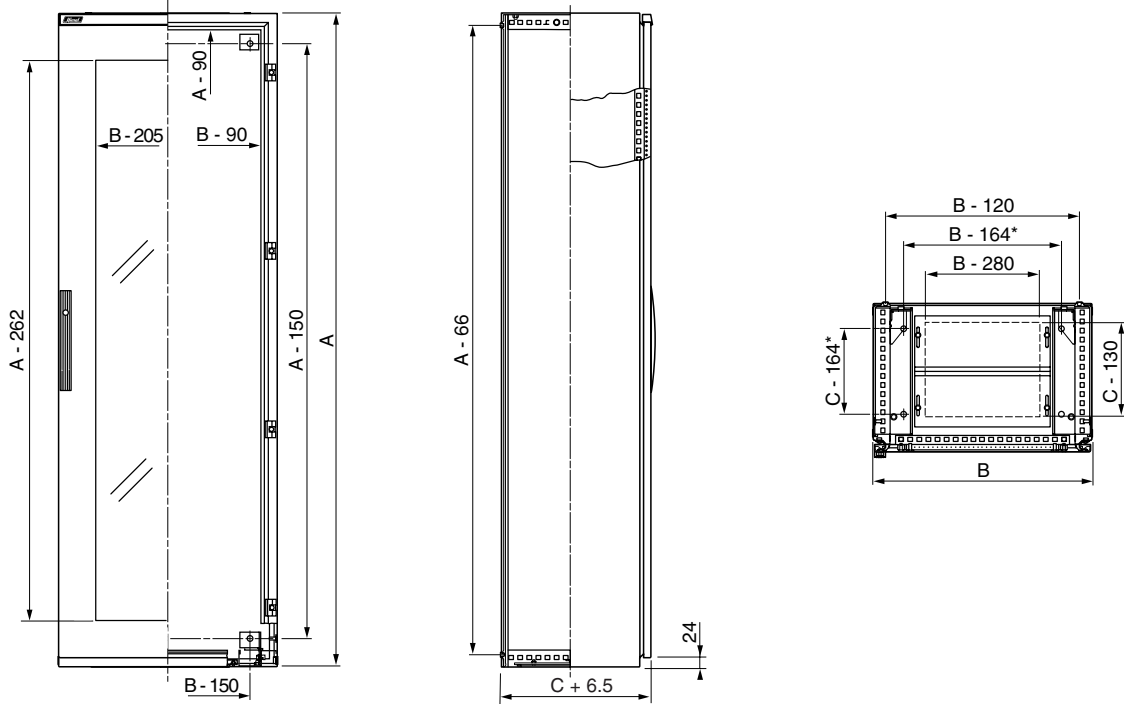
* Ground or plinth fixing dimensions.

FIG. 3

CMO...PUP enclosures

* Ground or plinth fixing dimensions.

CMO

ENCLOSURE ASSEMBLY

CMO 20 888/50

Enclosure assembly of standard **CMO** 2000 mm high enclosures mounted on a 200 mm high plinth. Opening on adjoining sides leaving 45 mm to the edge around their perimeter.

- Plain doors with reinforcement frame.
- 4 mounting plate supports per enclosure.
- 2-part cable gland plate with gasket per enclosure.
- 5 mm double bar locking system.
- Optional intermediate mounting plates.

Detail of inside of enclosure assembly with mounting plates fitted.

Standard flat lock outside the gasketed area.
Various lock transformations are available.

ENCLOSURES, DIMENSIONS AND REFERENCES

Dimensions			No. of doors	Fig.	Assembly made up of	Reference
Height (1) (A)	Width (B)	Depth (C)				
2000	2000	500	4	1	2 × 1000	**CMO 201010/50**
2000	2000	500	3	2	1200 + 800	**CMO 20128/50**
2000	2400	500	3	3	3 × 800	**CMO 20888/50**
2000	2400	500	4	4	2 × 1200	**CMO 201212/50**

(1) Total height including plinth 2100 mm.

Dimensions (mm)

FIG. 1

1000 | 1000

FIG. 2

1200 | 800

FIG. 3

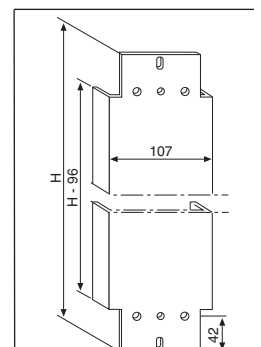800 | 800 | 800

FIG. 4

1200 | 1200
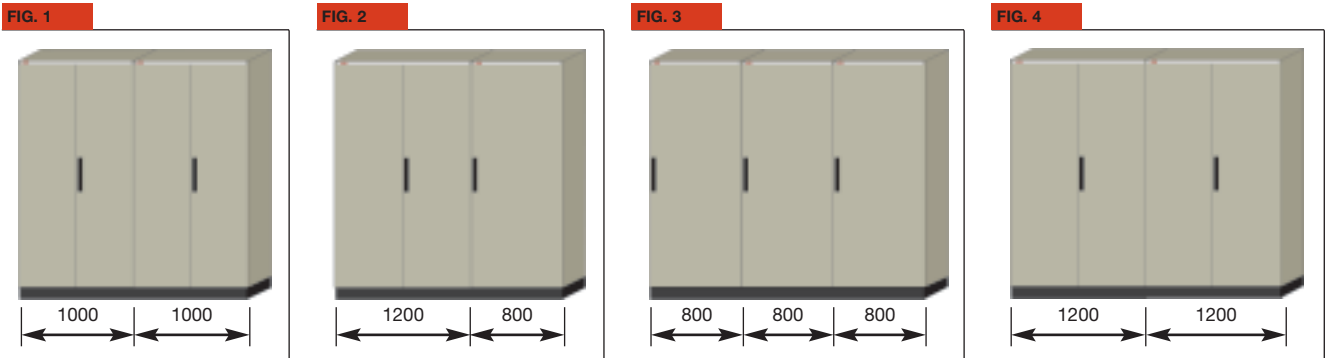
Intermediate mounting plate

To ensure a continuous mounting surface when enclosures are joined together.

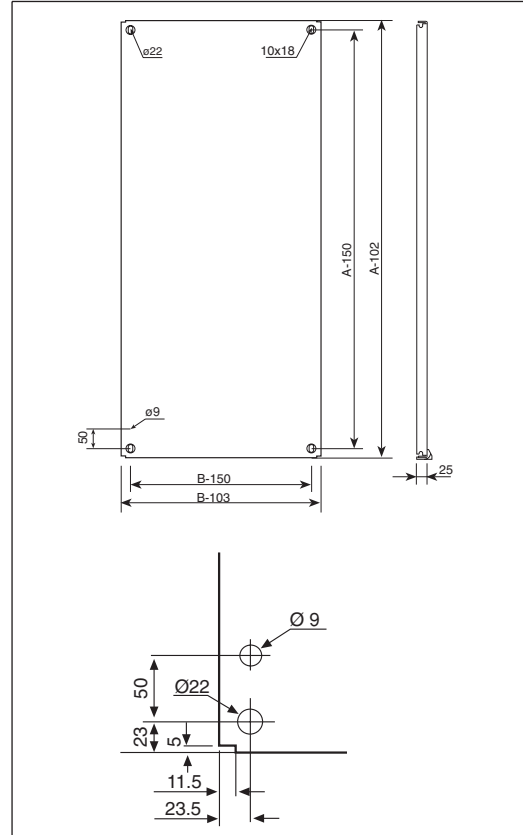| Enclosure dimensions Height (A)	H	Reference
2000	1884	**PMI 20**

CMO

Mounting plates

Made of galvanized steel with reinforced edges. Vertical ones are double folded for extra rigidity. Depth adjustable every 25 mm.

To ensure a continuous mounting surface when enclosures are joined together, use PMI intermediate mounting plate.

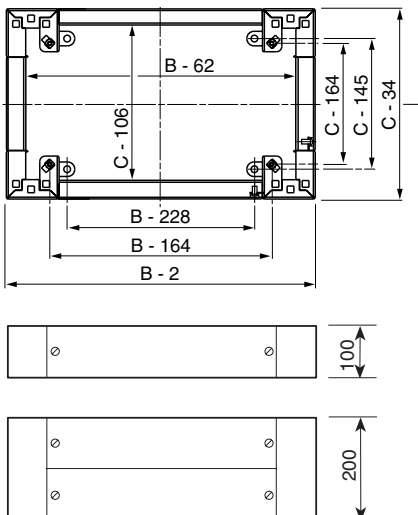| Enclosures dimensions		
Height (A)	Width (B)	Reference
1000	1000	**PMOL 1010**
1200	800	**PMOL 128**
1200	1000	**PMOL 1210**
1200	1200	**PMOL 1212**
1400	600	**PMOL 146**
1400	800	**PMOL 148**
1400	1000	**PMOL 1410**
1400	1200	**PMOL 1412**
1600	600	**PMOL 166**
1600	800	**PMOL 168**
1600	1000	**PMOL 1610**
1600	1200	**PMOL 1612**
1800	600	**PMOL 186**
1800	800	**PMOL 188**
1800	1000	**PMOL 1810**
1800	1200	**PMOL 1812**
1800	1600	**PMOL 1816**
2000	600	**PMOL 206**
2000	800	**PMOL 208**
2000	1000	**PMOL 2010**
2000	1200	**PMOL 2012**
2000	1600	**PMOL 2016**

Single plinths

To fit directly to the enclosures using the drillings for ground fixing.
■ 100 and 200 mm high.
■ Front and rear access.
■ Polyester epoxy resin paint to RAL-7022.

| Enclosure dimensions		Plinth height = 100 mm Reference	Plinth height = 200 mm Reference
Width (B)	Depth (C)		
600	300	**ZUN 63/100**	**ZUN 63/200**
600	400	**ZUN 64/100**	**ZUN 64/200**
600	500	**ZUN 65/100**	**ZUN 65/200**
600	600	**ZUN 66/100**	**ZUN 66/200**
800	300	**ZUN 83/100**	**ZUN 83/200**
800	400	**ZUN 84/100**	**ZUN 84/200**
800	500	**ZUN 85/100**	**ZUN 85/200**
800	600	**ZUN 86/100**	**ZUN 86/200**
1000	300	**ZUN 103/100**	**ZUN 103/200**
1000	400	**ZUN 104/100**	**ZUN 104/200**
1000	500	**ZUN 105/100**	**ZUN 105/200**
1200	300	**ZUN 123/100**	**ZUN 123/200**
1200	400	**ZUN 124/100**	**ZUN 124/200**
1200	500	**ZUN 125/100**	**ZUN 125/200**
1200	600	**ZUN 126/100**	**ZUN 126/200**
1600	400	**ZUN 164/100**	**ZUN 164/200**
1600	500	**ZUN 165/100**	**ZUN 165/200**
1600	600	**ZUN 166/100**	**ZUN 166/200**

Canopies

To fit directly to the enclosures using the same fixing holes as those for the eyebolts. Protected internally and externally with polyester epoxy resin paint to RAL-7032 texturized.

| Enclosure dimensions		
Width (B)	Depth (C)	Reference
600	300	**TJ 6030 CMO**
600	400	**TJ 6040 CMO**
600	500	**TJ 6050 CMO**
600	600	**TJ 6060 CMO**
800	300	**TJ 8030 CMO**
800	400	**TJ 8040 CMO**
800	500	**TJ 8050 CMO**
800	600	**TJ 8060 CMO**
1000	300	**TJ 10030 CMO**
1000	400	**TJ 10040 CMO**
1000	500	**TJ 10050 CMO**
1200	300	**TJ 12030 CMO**
1200	400	**TJ 12040 CMO**
1200	500	**TJ 12050 CMO**
1200	600	**TJ 12060 CMO**
1600	400	**TJ 16040 CMO**
1600	500	**TJ 16050 CMO**
1600	600	**TJ 16060 CMO**
1800	500	**TJ 18050 CMO**
1800	600	**TJ 18060 CMO**
2000	500	**TJ 20050 CMO**
2000	600	**TJ 20060 CMO**
2400	500	**TJ 24050 CMO**
2400	600	**TJ 24060 CMO**

Wall fixing brackets
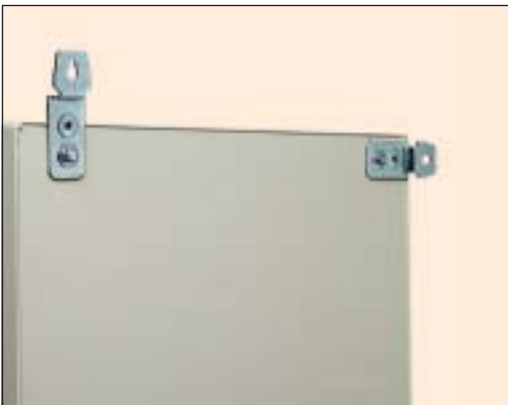
Set of 2 wall fixing brackets supplied with fixings to mount by the enclosure back.
Ref.: **FMCO**.

Horizontal assembly
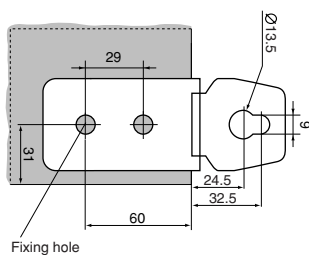
Vertical assembly
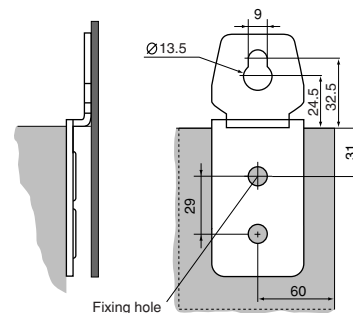
Top and bottom adjustment rails

Folded and welded sheet steel, galvanized.
- Enables central positioning and fixing of vertical rails in 1200 mm wide enclosures.
- Screw fixing to upper and lower parts of enclosure. Fixing included.
- Pack of 4 parts.

Enclosure dimensions Depth	Reference
300	**DCOL 30**
400	**DCOL 40**
500	**DCOL 50**
600	**DCOL 60**

Plain cable gland plate

Supplied with all the screws and elements needed for direct fixing to top or bottom of enclosure.
Made of sheet steel, epoxy polyester powder paint finish, color grey RAL-7032.

Enclosure dimensions (mm)		
Width (A)	Depth (B)	Reference
600	300	**ECMO 63/0**
600	400	**ECMO 64/0**
600	500	**ECMO 65/0**
600	600	**ECMO 66/0**
800	300	**ECMO 83/0**
800	400	**ECMO 84/0**
800	500	**ECMO 85/0**
800	600	**ECMO 86/0**
1000	300	**ECMO 103/0**
1000	400	**ECMO 104/0**
1000	500	**ECMO 105/0**
1200	300	**ECMO 123/0**
1200	400	**ECMO 124/0**
1200	500	**ECMO 125/0**
1200	600	**ECMO 126/0**
1600	400	**ECMO 164/0**
1600	500	**ECMO 165/0**
1600	600	**ECMO 166/0**

"Brush-type" cable entry gasket

Set of 2 "brush type" cable entry gaskets for installation in cut-out cable gland plates in **CMO** enclosures and **PK** control desks.
- Aluminium mounting.
- Clip-attached.
- 34 mm-wide black plastic fibre "brush".

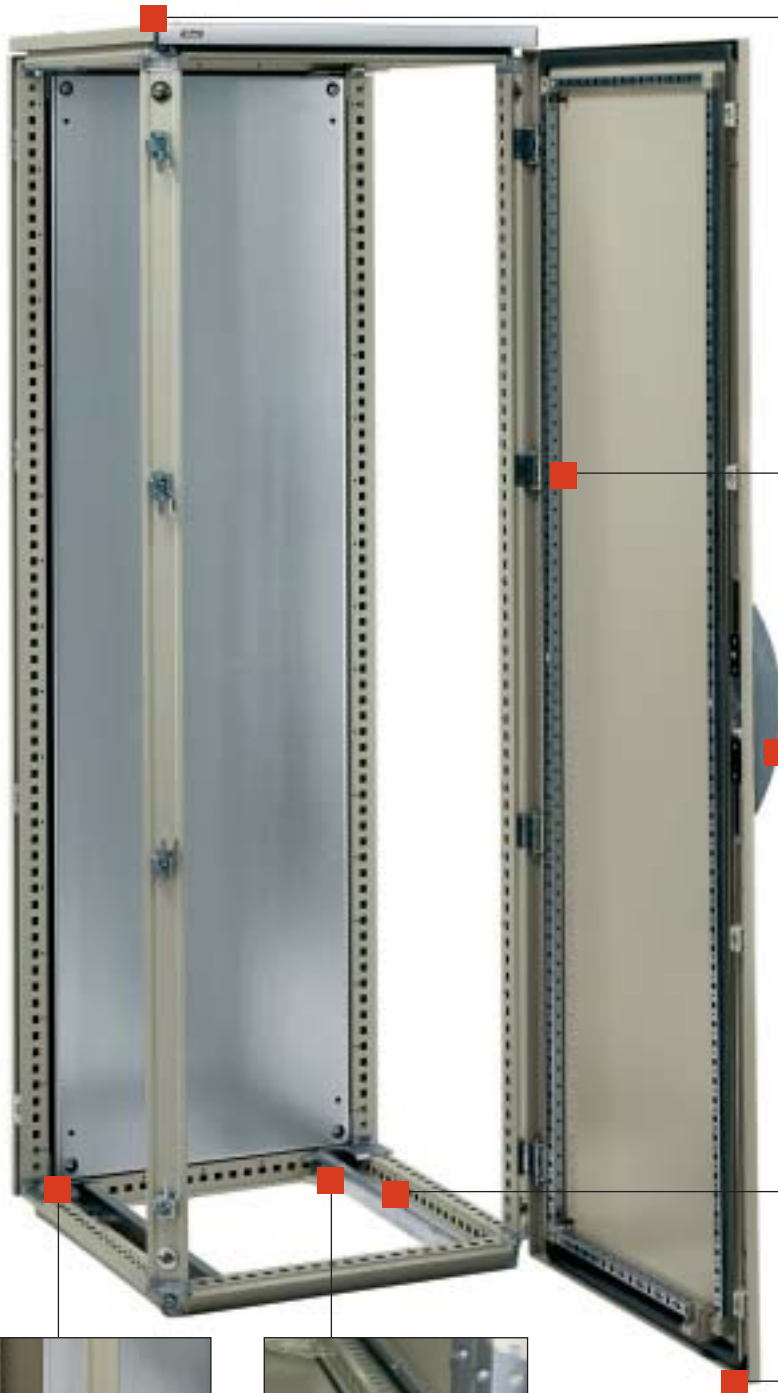| Width cubicle/desk	Reference
600	**JPCM 6**
800	**JPCM 8**
1000	**JPCM 10**
1200	**JPCM 6** (1)
1600	**JPCM 8** (1)
For control desks B = 1200	**JPCM 12**

(1) 2 sets should be used in cubicles with a width of B = 1200/1600.

Enclosures assembly

Coupling kit for coupling 2 enclosures side-by-side. Kit comprises a sealing gasket and fixings.
Ref.: **CUCMO**.
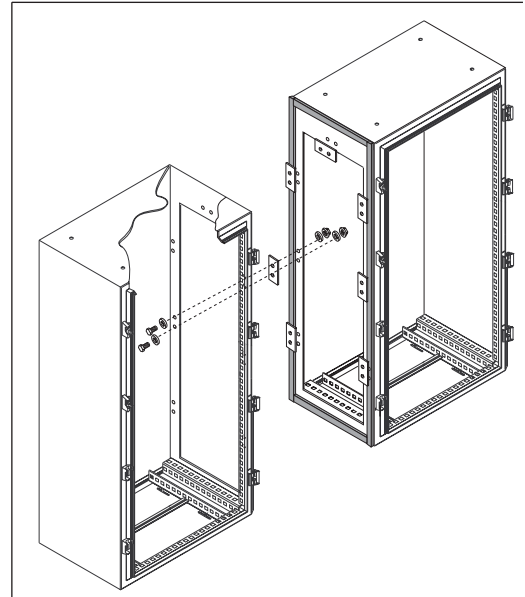
OLN industrial

Displacement of the mounting plate through sliding guide.

Cubicle suit joining set.

cubicle system

Lifting eyebolts bolted directly to the cubicle structure.

Steel hinge designed for easy door reversing.
4 points locking system to maintain IP degree.
Polyurethane gasket.
120° door opening.

2 doors enclosures with an internal locking system to ensure the thightening.

Standard handle lock system for OLN enclosures. Different lock combinations available.
Closing mechanism outside of the sealed zone.
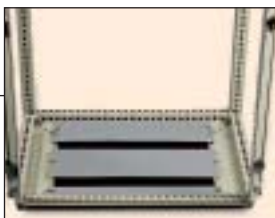
Cable gland plates for cable entry through the cubicle bottom, with neoprene gasket ensuring good sealing.
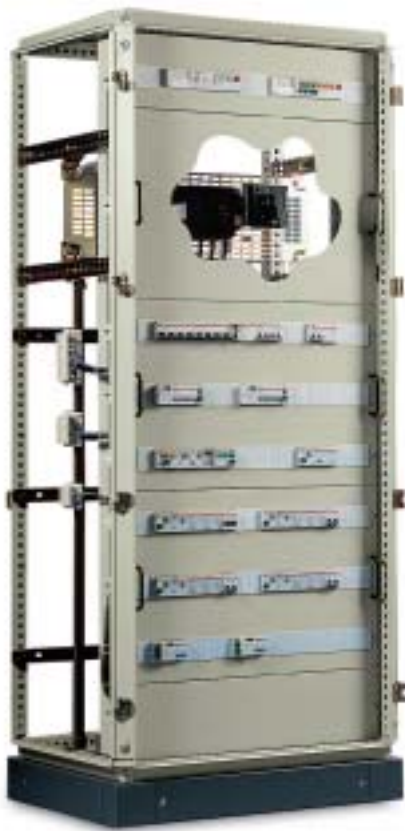Available with one or two entries.

Door recentering wedge.

INSTALLATIONS SYSTEM FOR INDUSTRIAL APPLICATIONS

■ Great strength, reliability and rigidity.
■ Ergonomic design, easy installation.
■ New standard versions available.
■ Wide accessories ranges.
■ Flexible flat pack kit delivery.

GENERAL FEATURES

System of Modular metal cubicles, consisting of a structure of triangular closed profiles with welded top frame and base and vertical removable bolted profiles, giving the assembly and optimum stability and versatility, 1.5 mm thick back and side metal panels, 2 and a wide range of accessories.

The joining of the various parts is done in a simple easy way through the accessories specifically designed to simplify the operations.

Easy access to the inside of the cubicle through removable uprights (even with the unit already assembled) which ensure a great level of accessibility and make working inside the cubicle easier.

Treatment and finish:
The treatment applied before the final finish ensures a perfect adherence of the paint, which provides a greater protection in harsh environments and whenever drillings are done.

Treatment description:
The steps are as follows: degreasing, phosphating, passivating, drying, powder epoxy resin painting and polymerization.

Final finish:
- Mounting plates (**PMOL, PMP, PMI**) to RAL-2000.
- Plinths (**ZUN, ZUN/T, ZUN/C**) to dark grey RAL-7002.
- Rest of cubicle and components: texturized RAL-7032.
- Other parts such as hinges, locking rods, mounting plate supports, etc., are zinc coated bichromated.
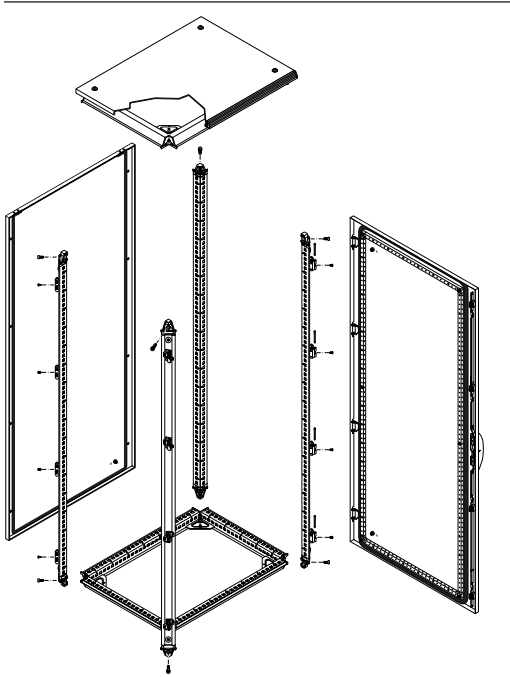
The basic cubicle has the following elements:

- 4 vertical triangular profiles onto which the hinges are fitted. They include a reference drilling every 100 mm which is meant to help the installer to position the equipment.
- Welded top and base to which the vertical profiles are bolted.
- Plain or glazed front door, except for **OLNE.../...SP**.
- Handle double bar locking system with double cylinder delivered disassembled inside the cubicle.
- Top panel with personalized strip, HIMEL tag and clear cover.
- Back panel (two **OLNE** versions).
- Mounting plate fixing supports except for **OLNP, OLNM, OLNE** versions.
- Slidins fixing guide for mounting plates except for **OLNP, OLNM, OLNE**.

Rigidity:
The rigidity of the cubicle is ensured by the welded top and base. The hinges are made of steel for more rigidity and less chances to break.

Universal locking system with many distinct possibilities including double dylinder locking and even magnetic card in the near future.

LIFTING AND TRANSPORT

Whenever forming cubicle suites, the **CPUT** joining set, **TLN/12** eyebolts and joining pieces **PUN** must be used.

Maximum loads are shown on the right. For further information see instructions leaflet provided with each cubicle.

Directly to TLN/12 eyebolts

a = 45°	P < 1160 kg
a = 60°	P < 830 kg
a = 90°	P < 480 kg
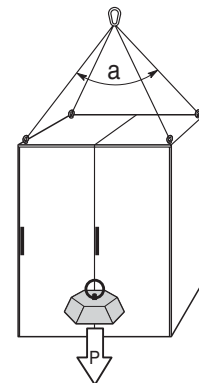
By means of an intermediate lifting frame and TLN/12 eyebolts

a = 90°	P < 1360 kg
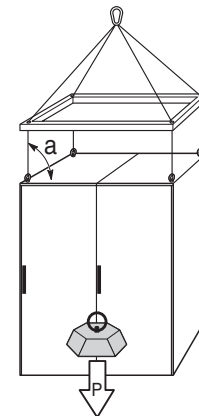
Through PUN joining pieces

a = 45°	P < 2800 kg
a = 60°	P < 2000 kg
a = 90°	P < 1100 kg
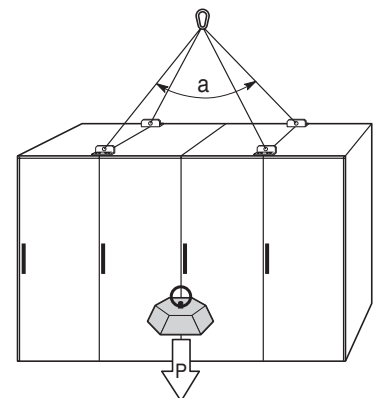
By means of an intermediate lifting frame and PUN joining pieces

a = 90°	P < 3000 kg
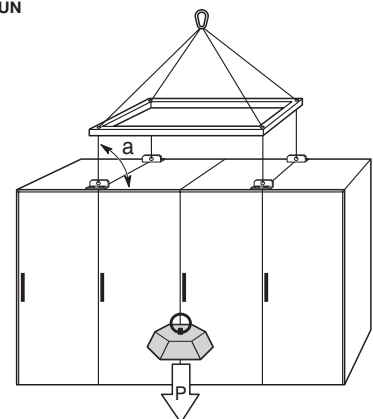
IP55 (EN 60529)

OLN 186/60 PM

OLN 186/60

Metal cubicle consisting of a structure of triangular closed profiles with welded top and base and vertical removable bolted profiles, giving the assembly and optimum stability and versatility. Painted internally and externally with polyester-epoxy resin to texturized RAL-7032.
Mounting plate in galvanized steel (for models **OLN...PM**).

- Great accessibility.
- Maximum versatility for all kind of installations.
- 120° door opening.
- 4 point locking system outside the gasketed area. Several transformation and locking possibilities.

Basic cubicle:
- Welded top.
- Welded base.
- Verticals uprights.
- Removable roof.
- Removable back panel.
- Plain front door with lock.
- Mounting plate supports.
- Mounting plate supplied with **OLN...PM** models.
- Mounting plate sliding guide.
- Door recentering wedge in up to 1400 mm high enclosures.
- Two doors enclosures with internal fixing system for left door.

INDUSTRIAL CUBICLES WITH OR WITHOUT MOUNTING PLATE

IP55 (EN 60529)

ENCLOSURES, DIMENSIONS AND REFERENCES

External dimensions (mm)			No. of doors	Reference	
Height (A)	Width (B)	Depth (C)		Enclosure with mounting plate	Enclosure without mounting plate
1200	600	400	1	OLN 126/40 PM	OLN 126/40
1200	600	600	1	OLN 126/60 PM	OLN 126/60
1200	600	800	1	OLN 126/80 PM	OLN 126/80
1200	800	400	1	OLN 128/40 PM	OLN 128/40
1200	800	600	1	OLN 128/60 PM	OLN 128/60
1200	800	800	1	OLN 128/80 PM	OLN 128/80
1400	600	400	1	OLN 146/40 PM	OLN 146/40
1400	600	600	1	OLN 146/60 PM	OLN 146/60
1400	600	800	1	OLN 146/80 PM	OLN 146/80
1400	800	400	1	OLN 148/40 PM	OLN 148/40
1400	800	600	1	OLN 148/60 PM	OLN 148/60
1400	800	800	1	OLN 148/80 PM	OLN 148/80
1600	600	600	1	OLN 166/60 PM	OLN 166/60
1600	600	800	1	OLN 166/80 PM	OLN 166/80
1600	800	600	1	OLN 168/60 PM	OLN 168/60
1600	800	800	1	OLN 168/80 PM	OLN 168/80
1800	600	400	1	OLN 186/40 PM	OLN 186/40
1800	600	500	1	OLN 186/50 PM	OLN 186/50
1800	600	600	1	OLN 186/60 PM	OLN 186/60
1800	600	800	1	OLN 186/80 PM	OLN 186/80
1800	800	400	1	OLN 188/40 PM	OLN 188/40
1800	800	500	1	OLN 188/50 PM	OLN 188/50
1800	800	600	1	OLN 188/60 PM	OLN 188/60
1800	1000	400	1	OLN 1810/40 PM	OLN 1810/40
1800	1000	400	2	OLN 1810/40/2P-PM	OLN 1810/40/2P
1800	1000	500	1	OLN 1810/50 PM	OLN 1810/50
1800	1000	500	2	OLN 1810/50/2P-PM	OLN 1810/50/2P
1800	1000	600	1	OLN 1810/60 PM	OLN 1810/60
1800	1000	600	2	OLN 1810/60/2P-PM	OLN 1810/60/2P
1800	1200	400	2	OLN 1812/40/2P-PM	OLN 1812/40/2P
1800	1200	500	2	OLN 1812/50/2P-PM	OLN 1812/50/2P
1800	1200	600	2	OLN 1812/60/2P-PM	OLN 1812/60/2P
2000	300	500	1	-	OLN 203/50* (1)
2000	300	600	1	-	OLN 203/60*
2000	300	800	1	-	OLN 203/80*
2000	400	500	1	-	OLN 204/50*
2000	400	600	1	-	OLN 204/60*
2000	600	400	1	OLN 206/40 PM	OLN 206/40
2000	600	500	1	OLN 206/50 PM	OLN 206/50
2000	600	600	1	OLN 206/60 PM	OLN 206/60
2000	600	800	1	OLN 206/80 PM	OLN 206/80
2000	800	400	1	OLN 208/40 PM	OLN 208/40
2000	800	500	1	OLN 208/50 PM	OLN 208/50
2000	800	600	1	OLN 208/60 PM	OLN 208/60
2000	800	800	1	OLN 208/80 PM	OLN 208/80
2000	1000	400	1	OLN 2010/40 PM	OLN 2010/40
2000	1000	400	2	OLN 2010/40/2P-PM	OLN 2010/40/2P
2000	1000	500	1	OLN 2010/50 PM	OLN 2010/50
2000	1000	500	2	OLN 2010/50/2P-PM	OLN 2010/50/2P
2000	1000	600	1	OLN 2010/60 PM	OLN 2010/60
2000	1000	600	2	OLN 2010/60/2P-PM	OLN 2010/60/2P
2000	1000	800	1	OLN 2010/80 PM	OLN 2010/80
2000	1000	800	2	OLN 2010/80/2P-PM	OLN 2010/80/2P
2000	1200	400	2	OLN 2012/40/2P-PM	OLN 2012/40/2P
2000	1200	500	2	OLN 2012/50/2P-PM	OLN 2012/50/2P
2000	1200	600	2	OLN 2012/60/2P-PM	OLN 2012/60/2P
2000	1200	800	2	OLN 2012/80/2P-PM	OLN 2012/80/2P
2200	600	600	1	OLN 226/60 PM	OLN 226/60
2200	600	800	1	OLN 226/80 PM	OLN 226/80
2200	800	600	1	OLN 228/60 PM	OLN 228/60
2200	800	800	1	OLN 228/80 PM	OLN 228/80
2200	1000	600	1	OLN 2210/60 PM	OLN 2210/60
2200	1000	800	1	OLN 2210/80 PM	OLN 2210/80
2200	1000	800	2	OLN 2210/80/2P-PM	OLN 2210/80/2P
2200	1200	600	2	OLN 2212/60/2P-PM	OLN 2212/60/2P
2200	1200	800	2	OLN 2212/80/2P-PM	OLN 2212/80/2P

* Side busbar chambers.

(1) **CE** busbar chamber + **SEP** busbar supports can not be mounted.

OLN.../... KT

OLN 186/60 KT

Metal cubicle consisting of a structure of triangular closed profiles with welded top and base and vertical removable bolted profiles, giving the assembly and optimum stability and versatility. Painted internally and externally with polyester-epoxy resin to texturized RAL-7032.

- Great accessibility.
- Maximum versatility for all kind of installations.
- 120° door opening.
- 4 point locking system outside the gasketed area. Several transformation and locking possibilities.
- Templated glass glazed front door.

Basic cubicle:
- Welded top.
- Welded base.
- Vertical uprights.
- Removable roof.
- Removable back panel.
- Front glazed door with lock.
- Mounting plate supports.
- Mounting plate sliding guide.

ENCLOSURES, DIMENSIONS AND REFERENCES

External dimensions (mm)			No. of doors	Enclosure with glazed door
Height (A)	Width (B)	Depth (C)		
1200	600	400	1	**OLN 126/40 KT**
1200	600	600	1	**OLN 126/60 KT**
1200	600	800	1	**OLN 126/80 KT**
1200	800	400	1	**OLN 128/40 KT**
1200	800	600	1	**OLN 128/60 KT**
1200	800	800	1	**OLN 128/80 KT**
1400	600	400	1	**OLN 146/40 KT**
1400	600	600	1	**OLN 146/60 KT**
1400	600	800	1	**OLN 146/80 KT**
1400	800	400	1	**OLN 148/40 KT**
1400	800	600	1	**OLN 148/60 KT**
1400	800	800	1	**OLN 148/80 KT**
1600	600	600	1	**OLN 166/60 KT**
1600	600	800	1	**OLN 166/80 KT**
1600	800	600	1	**OLN 168/60 KT**
1600	800	800	1	**OLN 168/80 KT**
1800	600	400	1	**OLN 186/40 KT**
1800	600	500	1	**OLN 186/50 KT**
1800	600	600	1	**OLN 186/60 KT**
1800	600	800	1	**OLN 186/80 KT**
1800	800	400	1	**OLN 188/40 KT**
1800	800	500	1	**OLN 188/50 KT**
1800	800	600	1	**OLN 188/60 KT**
1800	1000	400	1	**OLN 1810/40 KT**
1800	1000	500	1	**OLN 1810/50 KT**
1800	1000	600	1	**OLN 1810/60 KT**
2000	600	400	1	**OLN 206/40 KT**
2000	600	500	1	**OLN 206/50 KT**
2000	600	600	1	**OLN 206/60 KT**
2000	600	800	1	**OLN 206/80 KT**
2000	800	400	1	**OLN 208/40 KT**
2000	800	500	1	**OLN 208/50 KT**
2000	800	600	1	**OLN 208/60 KT**
2000	800	800	1	**OLN 208/80 KT**
2000	1000	400	1	**OLN 2010/40 KT**
2000	1000	500	1	**OLN 2010/50 KT**
2000	1000	600	1	**OLN 2010/60 KT**
2000	1000	800	1	**OLN 2010/80 KT**
2200	600	600	1	**OLN 226/60 KT**
2200	600	800	1	**OLN 226/80 KT**
2200	800	600	1	**OLN 228/60 KT**
2200	800	800	1	**OLN 228/80 KT**
2200	1000	600	1	**OLN 2210/60 KT**
2200	1000	800	1	**OLN 2210/80 KT**
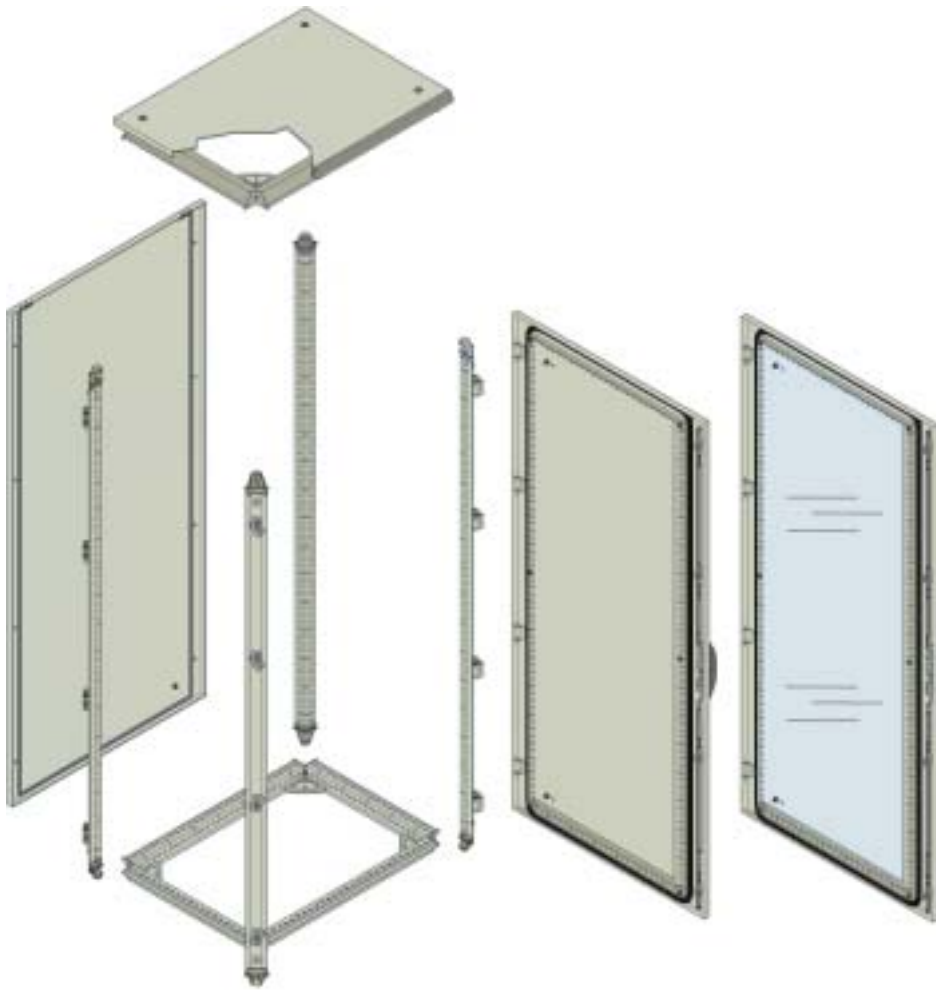
Metal cubicle consisting of a structure of triangular closed profiles with welded top and base and vertical removable bolted profiles, giving the assembly and optimum stability and versatility. Painted internally and externally with polyester-epoxy resin to texturized RAL-7032.

- Great accessibility.
- Maximum versatility for all kind of installations.
- 120° door opening.
- 4 point locking system outside the gasketed area. Several transformation and locking possibilities.
- Two doors enclosures with internal fixing system for left door.
- The flat pack kit version includes all the necessary elements to form the basic cubicle. These elements can be obtained through independent references.
- The flat pack kit is supplied partly assembled, which reduces greatly the mounting time. It also saves volume substantially, making storage and transport cheaper.

Basic cubicle:

OLMV:
- Vertical uprights including hinges, locking elements and side fixing blocks already fitted.

OLSI:
- Welded top with roof.
- Welded base.
- Mounting plate sliding guide.
- Mounting plate fixing supports.

OLPP:
- Plain door with lock.
- Plain back panel.

OLPU:
- Plain door with lock and internal handle for two doors models.

OLPUKT:
- Glazed door with lock.

OLPO:
- Plain back panel.

ADPUPOL:
- Back door adaptor.

AD2PUPOL:
- Two back door adaptor.

EMBT:
- Roof panel.

IP55 (EN 60529)

O L N

Placing and fixing of the 4 vertical uprights to
the top and base corner pieces.

Door mounting by inserting pins in
to hinges.

Placing of back panel throught self-centreing
hanger provided and screwing.

Detail of self-centering hanger.

Roof panel

■ To be used for lining an
  enclosure with rear
  door.
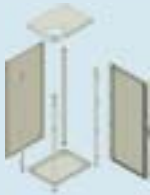■ RAL-7022.
■ Supplied with
  mounting clips.

Reference	Width enclosure (mm)
EMBT40	400
EMBT60	600
EMBT80	800
EMBT100	1000

OLN

FLAT PACK INDUSTRIAL CUBICLE SYSTEM

IP55 (EN 60529)

ENCLOSURES, DIMENSIONS AND REFERENCES

External dimensions (mm)					
Height (A)	Width (B)	Depth (C)	No. of doors	Vertical uprights	Top and base
1200	600	400	1	**OLMV 12**	**OLSI 64**
1200	600	600	1	**OLMV 12**	**OLSI 66**
1200	600	800	1	**OLMV 12**	**OLSI 68**
1200	800	400	1	**OLMV 12**	**OLSI 84**
1200	800	600	1	**OLMV 12**	**OLSI 86**
1200	800	800	1	**OLMV 12**	**OLSI 88**
1400	600	400	1	**OLMV 14**	**OLSI 64**
1400	600	600	1	**OLMV 14**	**OLSI 66**
1400	600	800	1	**OLMV 14**	**OLSI 68**
1400	800	400	1	**OLMV 14**	**OLSI 84**
1400	800	600	1	**OLMV 14**	**OLSI 86**
1400	800	800	1	**OLMV 14**	**OLSI 88**
1600	600	600	1	**OLMV 16**	**OLSI 66**
1600	600	800	1	**OLMV 16**	**OLSI 68**
1600	800	600	1	**OLMV 16**	**OLSI 86**
1600	800	800	1	**OLMV 16**	**OLSI 88**
1800	600	400	1	**OLMV 18**	**OLSI 64**
1800	600	500	1	**OLMV 18**	**OLSI 65**
1800	600	600	1	**OLMV 18**	**OLSI 66**
1800	600	800	1	**OLMV 18**	**OLSI 68**
1800	800	400	1	**OLMV 18**	**OLSI 84**
1800	800	500	1	**OLMV 18**	**OLSI 85**
1800	800	600	1	**OLMV 18**	**OLSI 86**
1800	1000	400	2	**OLMV 18**	**OLSI 104**
1800	1000	400	1	**OLMV 18/2P**	**OLSI 104**
1800	1000	500	2	**OLMV 18**	**OLSI 105**
1800	1000	500	1	**OLMV 18/2P**	**OLSI 105**
1800	1000	600	2	**OLMV 18**	**OLSI 106**
1800	1000	600	2	**OLMV 18/2P**	**OLSI 106**
1800	1200	400	2	**OLMV 18/2P**	**OLSI 124**
1800	1200	500	2	**OLMV 18/2P**	**OLSI 125**
1800	1200	600	1	**OLMV 18/2P**	**OLSI 126**
2000	400	500	1	**OLMV 20**	**OLSI 45**
2000	400	600	1	**OLMV 20**	**OLSI 46**
2000	600	400	1	**OLMV 20**	**OLSI 64**
2000	600	500	1	**OLMV 20**	**OLSI 65**
2000	600	600	1	**OLMV 20**	**OLSI 66**
2000	600	800	1	**OLMV 20**	**OLSI 68**
2000	800	400	1	**OLMV 20**	**OLSI 84**
2000	800	500	1	**OLMV 20**	**OLSI 85**
2000	800	600	1	**OLMV 20**	**OLSI 86**
2000	800	800	1	**OLMV 20**	**OLSI 88**
2000	1000	400	1	**OLMV 20**	**OLSI 104**
2000	1000	400	2	**OLMV 20/2P**	**OLSI 104**
2000	1000	500	1	**OLMV 20**	**OLSI 105**
2000	1000	500	2	**OLMV 20/2P**	**OLSI 105**
2000	1000	600	1	**OLMV 20**	**OLSI 106**
2000	1000	600	2	**OLMV 20/2P**	**OLSI 106**
2000	1000	800	1	**OLMV 20**	**OLSI 108**
2000	1000	800	2	**OLMV 20/2P**	**OLSI 108**
2000	1200	400	2	**OLMV 20/2P**	**OLSI 124**
2000	1200	500	2	**OLMV 20/2P**	**OLSI 125**
2000	1200	600	2	**OLMV 20/2P**	**OLSI 126**
2000	1200	800	2	**OLMV 20/2P**	**OLSI 128**
2200	600	600	1	**OLMV 22**	**OLSI 66**
2200	600	800	1	**OLMV 22**	**OLSI 68**
2200	800	600	1	**OLMV 22**	**OLSI 86**
2200	800	800	1	**OLMV 22**	**OLSI 88**
2200	1000	600	1	**OLMV 22**	**OLSI 106**
2200	1000	800	1	**OLMV 22**	**OLSI 108**
2200	1000	800	2	**OLMV 22/2P**	**OLSI 108**
2200	1200	600	2	**OLMV 22/2P**	**OLSI 126**
2200	1200	800	2	**OLMV 22/2P**	**OLSI 128**

IP55 (EN 60529)

Back panel and door	Back panel	Plain door	Glazed door
OLPP 126	OLPO 126	OLPU 126	OLPU 126KT
OLPP 126	OLPO 126	OLPU 126	OLPU 126KT
OLPP 126	OLPO 126	OLPU 126	OLPU 126KT
OLPP 128	OLPO 128	OLPU 128	OLPU 128KT
OLPP 128	OLPO 128	OLPU 128	OLPU 128KT
OLPP 128	OLPO 128	OLPU 128	OLPU 128KT
OLPP 146	OLPO 146	OLPU 146	OLPU 146KT
OLPP 146	OLPO 146	OLPU 146	OLPU 146KT
OLPP 146	OLPO 146	OLPU 146	OLPU 146KT
OLPP 148	OLPO 148	OLPU 148	OLPU 148KT
OLPP 148	OLPO 148	OLPU 148	OLPU 148KT
OLPP 148	OLPO 148	OLPU 148	OLPU 148KT
OLPP 166	OLPO 166	OLPU 166	OLPU 166KT
OLPP 166	OLPO 166	OLPU 166	OLPU 166KT
OLPP 168	OLPO 168	OLPU 168	OLPU 168KT
OLPP 168	OLPO 168	OLPU 168	OLPU 168KT
OLPP 186	OLPO 186	OLPU 186	OLPU 186KT
OLPP 186	OLPO 186	OLPU 186	OLPU 186KT
OLPP 186	OLPO 186	OLPU 186	OLPU 186KT
OLPP 186	OLPO 186	OLPU 186	OLPU 186KT
OLPP 188	OLPO 188	OLPU 188	OLPU 188KT
OLPP 188	OLPO 188	OLPU 188	OLPU 188KT
OLPP 188	OLPO 188	OLPU 188	OLPU 188KT
OLPP 1810	OLPO 1810	OLPU 1810	OLPU 1810KT
OLPP 1810/2P	OLPO 1810	OLPU 1810/2	-
OLPP 1810	OLPO 1810	OLPU 1810	OLPU 1810KT
OLPP 1810/2P	OLPO 1810	OLPU 1810/2	-
OLPP 1810	OLPO 1810	OLPU 1810	OLPU 1810KT
OLPP 1810/2P	OLPO 1810	OLPU 1810/2	-
OLPP 1812/2P	OLPO 1812	OLPU 1812/2	-
OLPP 1812/2P	OLPO 1812	OLPU 1812/2	-
OLPP 1812/2P	OLPO 1812	OLPU 1812/2	-
OLPP 204	OLPO 204	OLPU 204	OLPU 204KT
OLPP 204	OLPO 204	OLPU 204	OLPU 204KT
OLPP 206	OLPO 206	OLPU 206	OLPU 206KT
OLPP 206	OLPO 206	OLPU 206	OLPU 206KT
OLPP 206	OLPO 206	OLPU 206	OLPU 206KT
OLPP 206	OLPO 206	OLPU 206	OLPU 206KT
OLPP 208	OLPO 208	OLPU 208	OLPU 208KT
OLPP 208	OLPO 208	OLPU 208	OLPU 208KT
OLPP 208	OLPO 208	OLPU 208	OLPU 208KT
OLPP 208	OLPO 208	OLPU 208	OLPU 208KT
OLPP 2010	OLPO 2010	OLPU 2010	OLPU 2010KT
OLPP 2010/2P	OLPO 2010	OLPU 2010/2	-
OLPP 2010	OLPO 2010	OLPU 2010	OLPU 2010KT
OLPP 2010/2P	OLPO 2010	OLPU 2010/2	-
OLPP 2010	OLPO 2010	OLPU 2010	OLPU 2010KT
OLPP 2010/2P	OLPO 2010	OLPU 2010/2	-
OLPP 2010	OLPO 2010	OLPU 2010	OLPU 2010KT
OLPP 2010/2P	OLPO 2010	OLPU 2010/2	-
OLPP 2012/2P	OLPO 2012	OLPU 2012/2	-
OLPP 2012/2P	OLPO 2012	OLPU 2012/2	-
OLPP 2012/2P	OLPO 2012	OLPU 2012/2	-
OLPP 2012/2P	OLPO 2012	OLPU 2012/2	-
OLPP 226	OLPO 226	OLPU 226	OLPU 226KT
OLPP 226	OLPO 226	OLPU 226	OLPU 226KT
OLPP 228	OLPO 228	OLPU 228	OLPU 228KT
OLPP 228	OLPO 228	OLPU 228	OLPU 228KT
OLPP 2210	OLPO 2210	OLPU 2210	OLPU 2210KT
OLPP 2210	OLPO 2210	OLPU 2210	OLPU 2210KT
OLPP 2210/2P	OLPO 2210	OLPU 2210/2	-
OLPP 2212/2P	OLPO 2212	OLPU 2212/2	-
OLPP 2212/2P	OLPO 2212	OLPU 2212/2	-
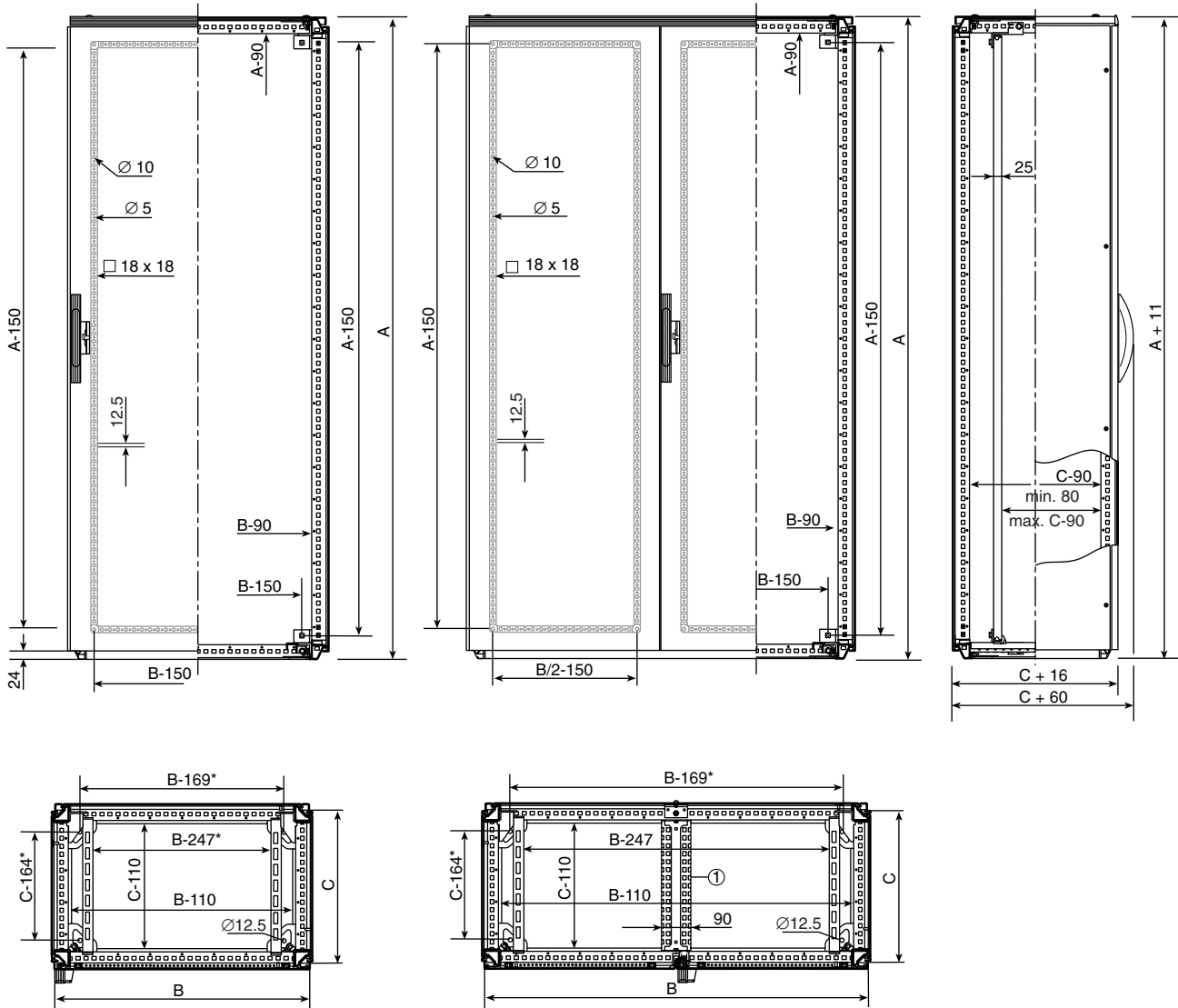
Dimensions (mm)

FIG. 1

* Ground or plinth fixing dimensions.

① Central crossbar for the 1200 width enclosure.

Dimensions (mm)

FIG. 1

A-262
A-90
B-205
∅ 10
∅ 5
□ 18 x 18
A-150
A-150
A
12.5
B-90
B-150
24
B-150

25
A + 11
C-90
min. 80
max. C-90
C + 16
C + 60

B-169*
B-247*
C-164*
C-110
B-110
∅ 12.5
C
B
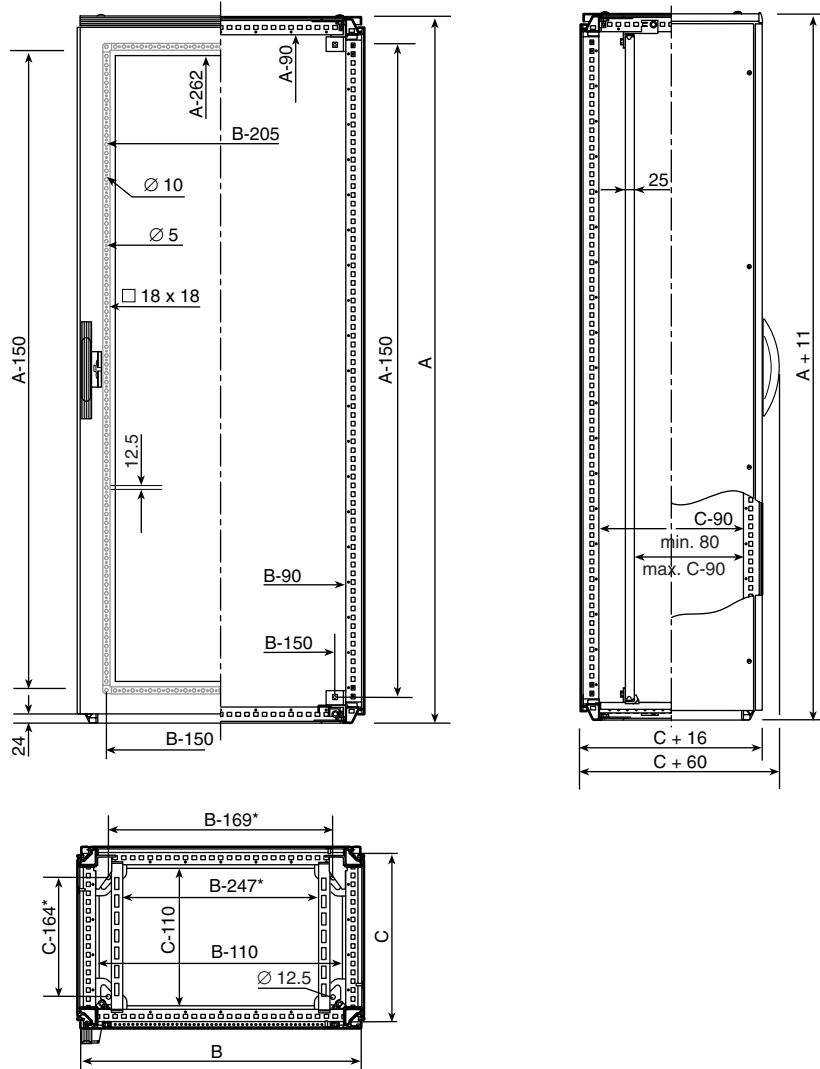
* Ground or plinth fixing dimensions.

Mounting plates

Made of sheet steel with reinforced edges. Vertical ones are double folded for extra rigidity. Painted to orange RAL-2000. Depth adjustable every 25 mm. Easy mounting by sliding it through the bottom guides. Whenever mounting plates for suites of two or more cubicles are required, a continuous mounting surface can be obtained by means of intermediate mounting plates.

■ Max. load 600 kg (with plate right at the back) and 500 kg if placed in the middle.
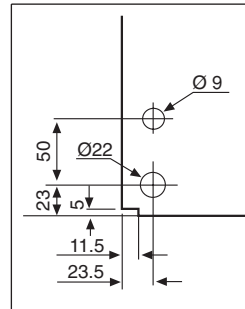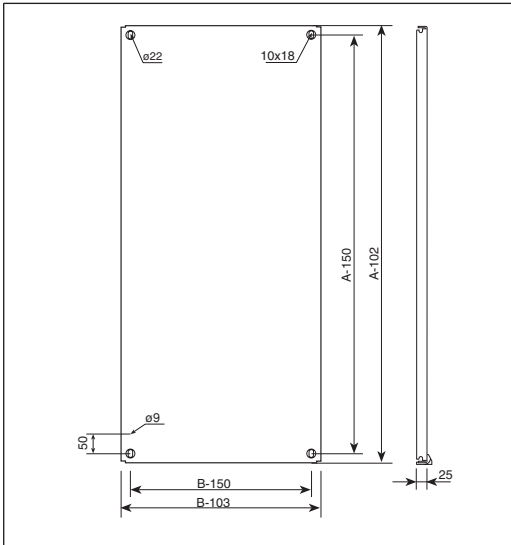
| Cubicle dimensions		
Height (A)	Width (B)	Reference
1000	1000	**PMOL 1010**
1200	500	**PMOL 125***
1200	600	**PMOL 126**
1200	800	**PMOL 128**
1200	1000	**PMOL 1210**
1200	1200	**PMOL 1212**
1400	500	**PMOL 145***
1400	600	**PMOL 146**
1400	800	**PMOL 148**
1400	1000	**PMOL 1410**
1400	1200	**PMOL 1412**
1600	500	**PMOL 165***
1600	600	**PMOL 166**
1600	800	**PMOL 168**
1600	1000	**PMOL 1610**
1600	1200	**PMOL 1612**
1800	500	**PMOL 185***
1800	600	**PMOL 186**
1800	800	**PMOL 188**
1800	1000	**PMOL 1810**
1800	1200	**PMOL 1812**
1800	1600	**PMOL 1816**
2000	500	**PMOL 205***
2000	600	**PMOL 206**
2000	800	**PMOL 208**
2000	1000	**PMOL 2010**
2000	1200	**PMOL 2012**
2000	1600	**PMOL 2016**
2200	500	**PMOL 225***
2200	600	**PMOL 226**
2200	800	**PMOL 228**
2200	1000	**PMOL 2210**
2200	1200	**PMOL 2212**

* Plates designed to be joined depth-wise in the enclosure.

Intermediate mounting plate fixing
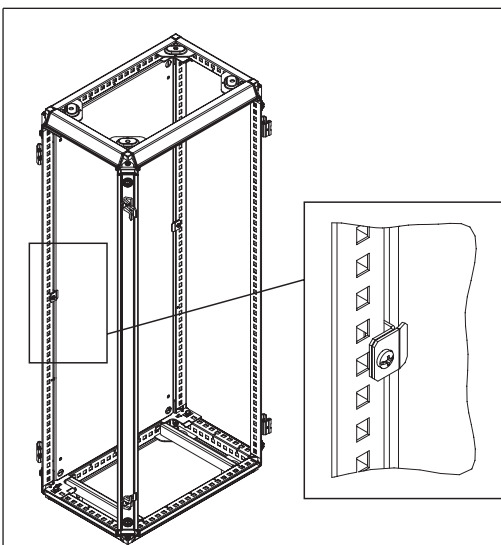
Set of 10 fixings. Intermediate fixings for mounting plate assembled at the back enclosure.
Ref.: **FIPMOL**.

Cable gland plate
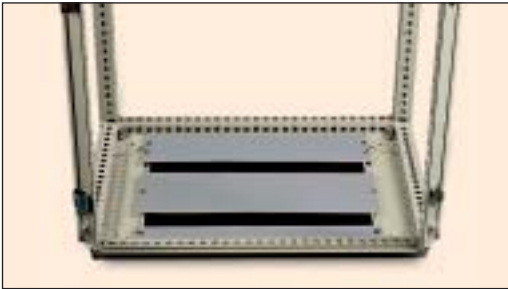
Cable gland plates for cable entry through the cubicle bottom, with neoprene gasket ensuring good sealing. Available with one or two entries.

Size enclosures		Plain	With one entry	With two entries
Width (B)	Depth (C)			
400	500	ECON 45/0	ECON 45/1	
400	600	ECON 46/0	ECON 46/1	ECON 46/2
600	400	ECON 64/0	ECON 64/1	
600	500	ECON 65/0	ECON 65/1	
600	600	ECON 66/0	ECON 66/1	ECON 66/2
600	800	ECON 68/0	ECON 68/1	ECON 68/2
800	400	ECON 84/0	ECON 84/1	
800	500	ECON 85/0	ECON 85/1	
800	600	ECON 86/0	ECON 86/1	ECON 86/2
800	800	ECON 88/0	ECON 88/1	ECON 88/2
1000	400	ECON 104/0	ECON 104/1	
1000	500	ECON 105/0	ECON 105/1	
1000	600	ECON 106/0	ECON 106/1	ECON 106/2
1000	800	ECON 108/0	ECON 108/1	ECON 108/2
1200	400	ECON 124/0	ECON 124/1	
1200	500	ECON 125/0	ECON 125/1	
1200	600	ECON 126/0	ECON 126/1	ECON 126/2
1200	800	ECON 128/0	ECON 128/1	ECON 128/2

Adjustment possibilities of cable gland plates

	2 part cable gland plate		3 part cable gland plate	
Depth (C)	400-500-600	800	600	800
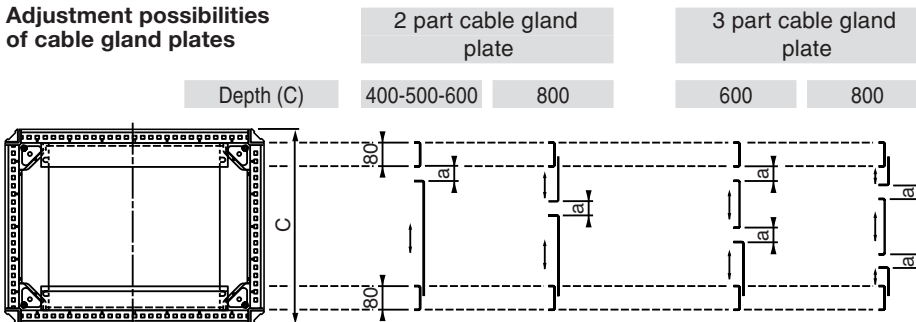
a: 25 to 50 mm

"Brush-type" cable entry gasket

Set of 2 "brush type" cable entry gaskets for installation in cut-out cable gland plates in **ECON**.
- Clip-attached.
- Black plastic fibre "brush".

Width cubicle/desk	Reference
400	JPON 4
600/1200*	JPON 6
800	JPON 8
1000	JPON 10

*For 1200 width enclosures, use 2 references.

Internal or external fixing side panel

Set of 2 side panels for fitting inside or outside the enclosure. Manufactured in steel sheet and painted with textured grey RAL-7032 polyester epoxy resin paint.
- Fully gasketed, includes a all the necessary screw fittings.

Enclosure dimensions (mm)		Reference	
Height	Depth	External fitting	Internal fitting
1200	400	2 PLOL 124	2 PLIOL 124
1200	600	2 PLOL 126	2 PLIOL 126
1200	800	2 PLOL 128	2 PLIOL 128
1400	400	2 PLOL 144	2 PLIOL 144
1400	600	2 PLOL 146	2 PLIOL 146
1400	800	2 PLOL 148	2 PLIOL 148
1600	600	2 PLOL 166	2 PLIOL 166
1600	800	2 PLOL 168	2 PLIOL 168
1800	400	2 PLOL 184	2 PLIOL 184
1800	500	2 PLOL 185	2 PLIOL 185
1800	600	2 PLOL 186	2 PLIOL 186
1800	800	2 PLOL 188	2 PLIOL 188
2000	400	2 PLOL 204	2 PLIOL 204
2000	500	2 PLOL 205	2 PLIOL 205
2000	600	2 PLOL 206	2 PLIOL 206
2000	800	2 PLOL 208	2 PLIOL 208
2200	600	2 PLOL 226	2 PLIOL 226
2200	800	2 PLOL 228	2 PLIOL 228

Cut-out side panels for air-conditioning installations

(see page 5/54)

Enclosure dimensions (mm)		
Height	Depth	Reference
1800	600	2 PLOL 186 CLM
1800	800	2 PLOL 188 CLM
2000	600	2 PLOL 206 CLM
2000	800	2 PLOL 208 CLM

Quick fitting side panel

Set of two side panels for fitting to the outside of the enclosure by double bar locks. Manufactured in sheet steel and painted with textured grey RAL-7032 polyester epoxy resin paint.
- Without sealing gasket.

Enclosure dimensions (mm)		
Height	Depth	Reference
1200	600	2 PLROL 126
1200	800	2 PLROL 128
1400	600	2 PLROL 146
1400	800	2 PLROL 148
1600	600	2 PLROL 166
1600	800	2 PLROL 168
1800	600	2 PLROL 186
1800	800	2 PLROL 188
2000	600	2 PLROL 206
2000	800	2 PLROL 208

Internal fixing back panel
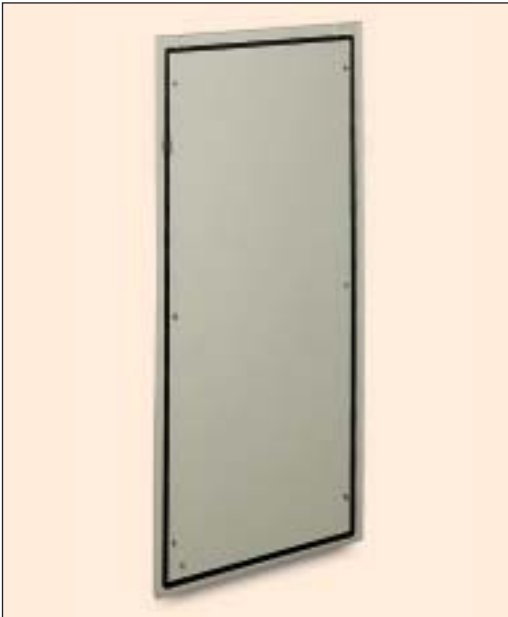
Back panel fixed to the cubicle from the inside. Made of sheet steel and painted with polyester-epoxy resin to texturized RAL-7032.

■ Supplied with foamed gasket and fixing accessories.

Cubicle dimensions (mm)		
Height	Width	Reference
1200	600	**PPION 126**
1200	800	**PPION 128**
1400	600	**PPION 146**
1400	800	**PPION 148**
1600	600	**PPION 166**
1600	800	**PPION 168**
1800	600	**PPION 186**
1800	800	**PPION 188**
1800	1000	**PPION 1810**
1800	1200	**PPION 1812**
2000	400	**PPION 204**
2000	600	**PPION 206**
2000	800	**PPION 208**
2000	1000	**PPION 2010**
2000	1200	**PPION 2012**
2200	600	**PPION 226**
2200	800	**PPION 228**
2200	1000	**PPION 2210**
2200	1200	**PPION 2212**

Single plinths

To fit directly to the cubicles using the drillings for ground fixing.

■ 100 and 200 mm high.
■ Front and rear access.
■ Can be joined side to side in cubicle suites.
■ Dark grey to RAL-7022.

Cubicle dimensions (mm)			
Width (B)	Depth (C)	Height	
		100 mm	200 mm
300	500	**ZUN 35/100**	**ZUN 35/200**
300	600	**ZUN 36/100**	**ZUN 36/200**
300	800	**ZUN 38/100**	**ZUN 38/200**
400	500	**ZUN 45/100**	**ZUN 45/200**
400	600	**ZUN 46/100**	**ZUN 46/200**
600	300	**ZUN 63/100**	**ZUN 63/200**
600	400	**ZUN 64/100**	**ZUN 64/200**
600	500	**ZUN 65/100**	**ZUN 65/200**
600	600	**ZUN 66/100**	**ZUN 66/200**
600	800	**ZUN 68/100**	**ZUN 68/200**
800	300	**ZUN 83/100**	**ZUN 83/200**
800	400	**ZUN 84/100**	**ZUN 84/200**
800	500	**ZUN 85/100**	**ZUN 85/200**
800	600	**ZUN 86/100**	**ZUN 86/200**
800	800	**ZUN 88/100**	**ZUN 88/200**
1000	300	**ZUN 103/100**	**ZUN 103/200**
1000	400	**ZUN 104/100**	**ZUN 104/200**
1000	500	**ZUN 105/100**	**ZUN 105/200**
1000	600	**ZUN 106/100**	**ZUN 106/200**
1000	800	**ZUN 108/100**	**ZUN 108/200**
1200	300	**ZUN 123/100**	**ZUN 123/200**
1200	400	**ZUN 124/100**	**ZUN 124/200**
1200	500	**ZUN 125/100**	**ZUN 125/200**
1200	600	**ZUN 126/100**	**ZUN 126/200**
1200	800	**ZUN 128/100**	**ZUN 128/200**
1600	400	**ZUN 164/100**	**ZUN 164/200**
1600	500	**ZUN 165/100**	**ZUN 165/200**
1600	600	**ZUN 166/100**	**ZUN 166/200**

100/200

C-34

B - 62

C - 164
C - 145
C - 34

C - 106

B - 228
B - 164
B - 2
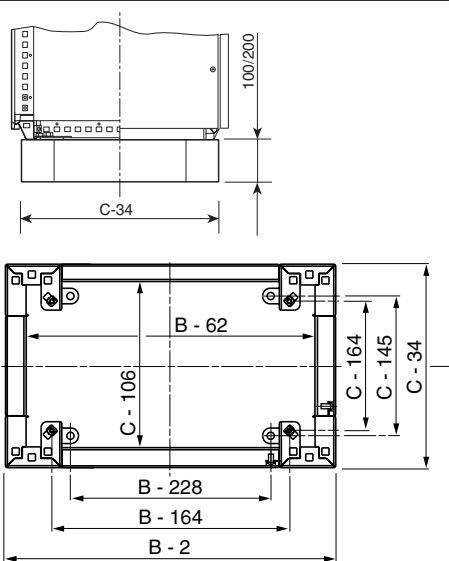
*Floor fixings.
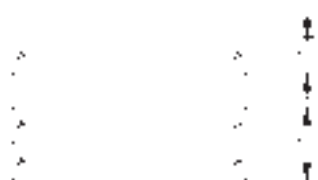
CUBICLE SUITES

The constructive design of the **OLN** cubicles is particularly meant to form suites. The quick easy joining, both in width and depth and the specific elements for making assemblies and transport them allow for the most suitable solution to every electrical installation.

Cubicle suite joining set

Any enclosure model can be joined by forming suites with the cubicle joining set.
Reference: **CPUT**.

Reinforced joining part

For reinforcing the join vetween cubicles.
Reference: **PUT**.

Outside cubicle suite joining set

Used to attach cubicles from the outside (if internal joining is impossible). Reference: **CUNE**.

Inside cubicle suite joining set

Set of 4 brackets to join **OLN** enclosures as a **CPUT** complement when the angles of the enclosure are fitted with accessories (as 19" swing rack or **UNIDIS** chassis) or as other joining system reinforcement. Ref.: **CSUT**.
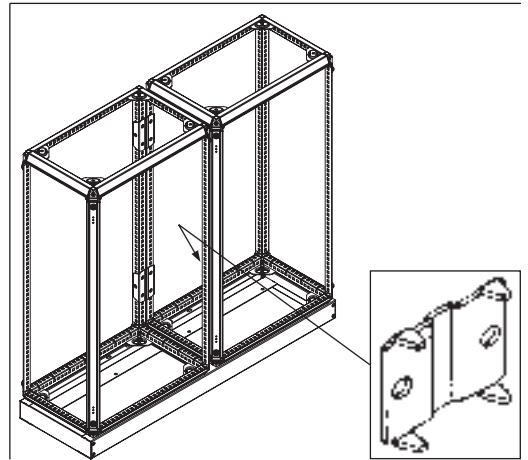
Lifting brackets

Set of 2 lifting brackets. Attaches across two adjacent enclosures, giving extra rigidity for lifting, using the same holes as for the lifting eyes. Guarantee rigidity of the assembly on lifting. For details of enclosure slinging see page 1/75. Reference: **PUN**.

Intermediate mounting plate

Galvanised sheet steel intermediate plate to provide a continuous mounting plate surface when joining cubicles. If the **PMOL** mounting plates are located in the bottom of the cubicles, the vertical profiles of the actual cubicle structure are flush with the plates, acting as an intermediate plate. In this case it would not be possible (or necessary) to install the intermediate plate.

Cubicle measurements		Reference
Height (A)	H	
1200	1084	**PMI 12**
1400	1284	**PMI 14**
1600	1484	**PMI 16**
1800	1684	**PMI 18**
2000	1884	**PMI 20**
2200	2084	**PMI 22**
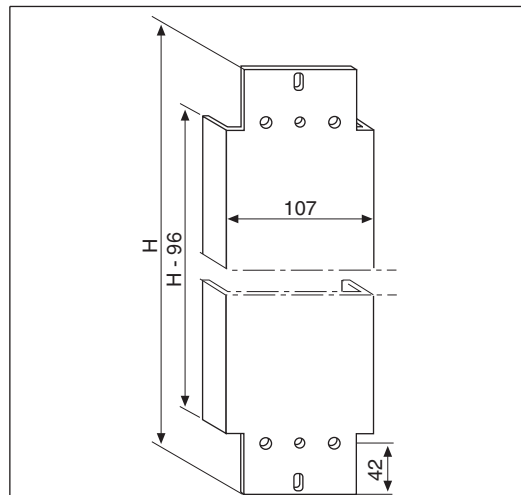
Accessories for joining cubicles

Connections for machines, robot outputs, interconnections between cubicles... they all need a partition that makes it possible to assemble with **Harting**-type industrial plug sockets.
■ This new partition is adapted to **OLN** enclosures by being attached to the frame structure.
■ The sheets available in different dimensions are fitted with a watertight gasket, and feature numerous drillings.
■ Unused drill holes can be covered by blankers.
■ There are 3 reducer models available for adaptation to the different types of connectors.
■ Easy-to-fit sockets.
■ Fully watertight.
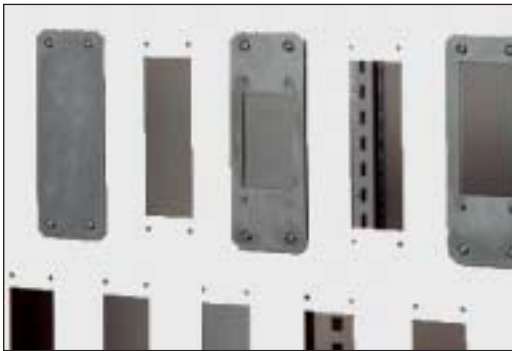
Connector separation sheets

■ Galvanised sheet steel.
■ Sheets wupplied with gaskets and fixing screws.

CONNECTOR SEPARATION SHEETS

Enclosure dimensions (mm)		Plates reference	No. of drillings
Height	Depth		
1800	500	**CHSC185**	36
1800	600	**CHSC186**	45
2000	500	**CHSC205**	40
2000	600	**CHSC206**	50

Blank plates

■ Fully gasketed galvanised sheet steel 15/10 mm sheet steel.

BLANK PLATES

External dimensions (mm)		Ref. branker
Height	Width	
150	55	**OBTC24**

Reducers

■ Fully gasketed galvanised sheet steel 15/10 mm sheet steel.

REDUCERS

Model	Reference reducer	External dimensions (mm)	Opening socket
24/6	**REDC24/6**	150 × 55	52 × 36
24/10	**REDC24/10**	150 × 55	64 × 36
24/16	**REDC24/16**	150 × 55	86 × 36

Cubicle separation sheet

To obtain separate compartments in cubicle joining suites. Made of textured grey sheet steel painted to RAL-7032.

Cubicle measurements		Reference
Height (A)	Depth (C)	
1600	600	**CHS 166**
1600	800	**CHS 168**
1800	400	**CHS 184**
1800	500	**CHS 185**
1800	600	**CHS 186**
2000	400	**CHS 204**
2000	500	**CHS 205**
2000	600	**CHS 206**
2000	800	**CHS 208**
2200	600	**CHS 226**
2200	800	**CHS 228**

Top dust protector

■ Colour RAL-7032.
■ Where joining cubicles.

Enclosure depth (mm)	Reference
400	**GPON40**
500	**GPON50**
600	**GPON60**
800	**GPON80**

Suite plinths

Made of 3 mm thick "U" profiles for cubicle suites up to 3 m wide. Grey colour to RAL-7022.
■ Possibility of side joining for wider suites.
■ 100 y 200 mm heights.
Reference: **ZUN/C**.

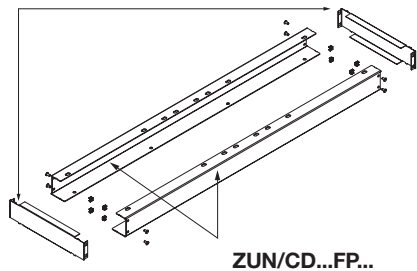B and C = cubicle nominal dimensions
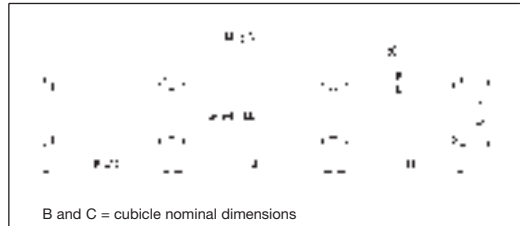
Transport plinths

Made of 3 mm thick "U" profile (100 mm high). Supplied with or without painting (to RAL-7022).
■ Holes for lifting bars provided
Reference: **ZUN/T**.

See "Lifting and transport" on page 1/75.

B and C = cubicle nominal dimensions
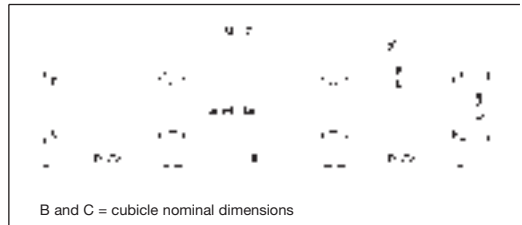
Modular plinth for joining cubicles

ZUN/CD100/2L...

ZUN/CD...FP...

Set of two "U" profiles and one or two sets of "U" side profiles (for 100 or 200 mm high), 1.5 mm thick. Painted RAL-7022.

* For 200 mm high plinths 2 sets must be ordered.

Enclosure dimensions		Reference
Total depth	Plinth height*	
500	100/200	**ZUN/CD100/2L5**
600	100/200	**ZUN/CD100/2L6**
800	100/200	**ZUN/CD100/2L8**

Medidas armario		Reference
Total width	Plinth height	
1600	100	**ZUN/CD100 FP16**
1800	100	**ZUN/CD100 FP18**
2400	100	**ZUN/CD100 FP24**
1600	200	**ZUN/CD200 FP16**
1800	200	**ZUN/CD200 FP18**
2400	200	**ZUN/CD200 FP24**

POSSIBLE COMBINATIONS

Total plinth width	Enclosures width
1600	600 + 100
	800 + 800
	1000 + 600
1800	600 + 600 + 600
	600 + 1200
	800 + 1000
	1000 + 800
	1200 + 600
2400	600 + 600 + 600 + 600
	600 + 600 + 1200
	600 + 800 + 1000
	600 + 1200 + 600
	800 + 600 + 1000
	800 + 800 + 800
	800 + 1000 + 600
	1000 + 600 + 800
	1200 + 600 + 600
	1200 + 1200

## PC APPLICATION

OLNP 186/60 + ZUN 66/100

Metal cubicle consisting of a structure of triangular closed profiles with welded top and base and vertical removable bolted profiles, giving the assembly and optimum stability and versatility. Painted internally and externally with polyester-epoxy resin to texturized RAL-7032.

- Great accessibility.
- Maximum versatility for all kind of installations.
- 120° door opening.
- 4 point locking system outside the gasketed area. Several transformation and locking possibilities.
- Glazed templated glass door with sliding guides.

Basic cubicle:
- Welded top.
- Welded base.
- Vertical uprights.
- Removable roof.
- Removable side panels.
- Top front glazed door.
- Keyboard panel.
- Plain bottom door.
- Monitor supporting tray.
- Keyboard sliding tray.
- Back door without door reinforcement frame.
- 2 part cable gland plate.

Detail of glazed door for 14" or 17" monitor.

Optional printer tray support.

Compartment with adjustable tray for keyboard and mouse.

REFERENCES AND DIMENSIONS

External dimensions (mm)			
Height (A)	Width (B)	Depth (C)	Reference
1600	600	600	**OLNP 166/60**
1600	600	800	**OLNP 166/80**
1800	600	600	**OLNP 186/60**
1800	600	800	**OLNP 186/80**

ACCESSORIES AND COMPLEMENTS

Fixed tray 510 × 390 mm	**BFOL64**
Adjustable tray 510 × 390 mm	**BDOL64**
Tray fixing crossbeams for 600 mm deep cubicles	**TML40/60**
Tray fixing crossbeams for 800 mm deep cubicles	**TML40/80**
A4 printer tray	
For 800 mm depth enclosures you should use 2 **TML 40/80** cross rails	**SIMPA 4**
A3 printer tray	**SIMPA 3**
Line protection switch socket block	**ZDBE6P**
Switch socket block	**ZDBE6I**

Dimensions (mm)

FIG. 1
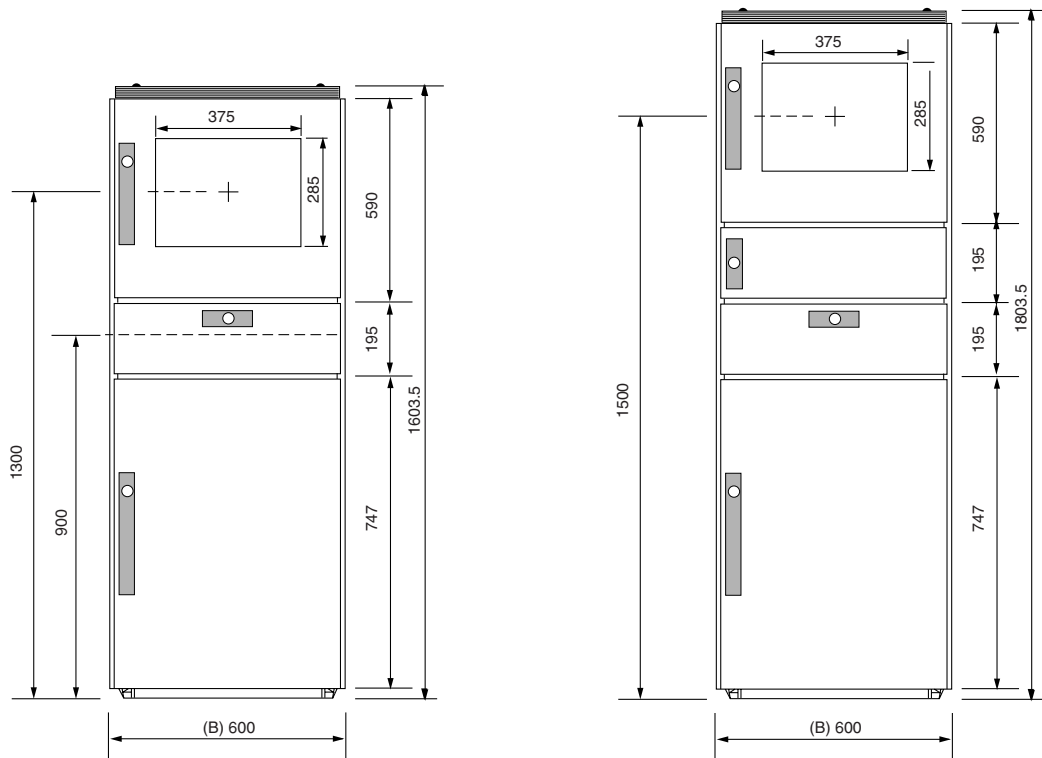
INDUSTRIAL CUBICLE SYSTEM FOR MOTOR CONTROL CENTRE

OLNM 208/60

OLNM 206/60 + PPMC 2060 N + PPMC 4060 N KT + PPMC 2060 N + PPMC 4060 N + PPMC 6060 N

Metal cubicle consisting of a structure of triangular closed profiles with welded top and base and vertical removable bolted profiles, giving the assembly and optimum stability and versatility. Painted internally and externally with polyester-epoxy resin to texturized RAL-7032.

The **OLNM** system allows to combine partial doors from 200 mm in height up to 1000 mm (multiples of 200 mm) at the front. Also, 19" racks, depth adjustable mounting plates, back locks and front and rear side covers. Electrical feeding can be done through the top, the base or sides by means of the busbar compartments. This system offers a quick personalized installation.

■ Great accessibility.
■ Maximum versatility for all kind off installations.

Basic cubicle:
■ Welded top.
■ Welded base.
■ Vertical uprights.
■ Removable roof.
■ Removable back panel.
■ Modular top and bottom front panels.
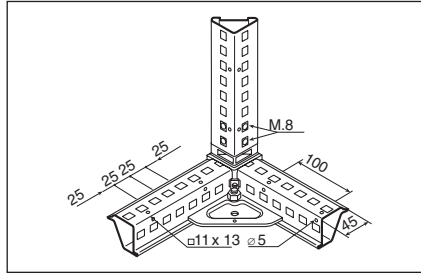
Profile structure with triangular profile drilled 11×13 with 25 mm centres and reference Ø 5 mm hole every 100 mm.
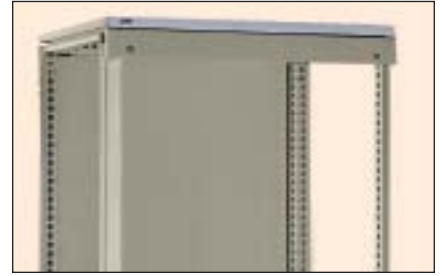
Detail of modular top front panel.

ENCLOSURES, DIMENSIONS AND REFERENCES

External dimensions (mm)			
Height (A)	Width (B)	Depth (C)	Reference
2000	600	600	**OLNM 206/60**
2000	600	800	**OLNM 206/80**
2000	800	600	**OLNM 208/60**
2000	800	800	**OLNM 208/80**
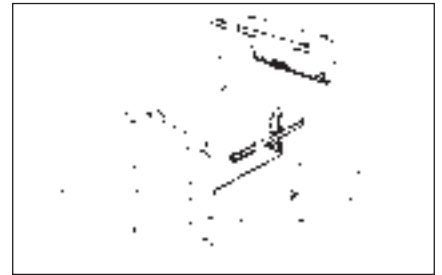
Detail of compartments and partial doors of **OLNM** system.

Dimensions (mm)

FIG. 1
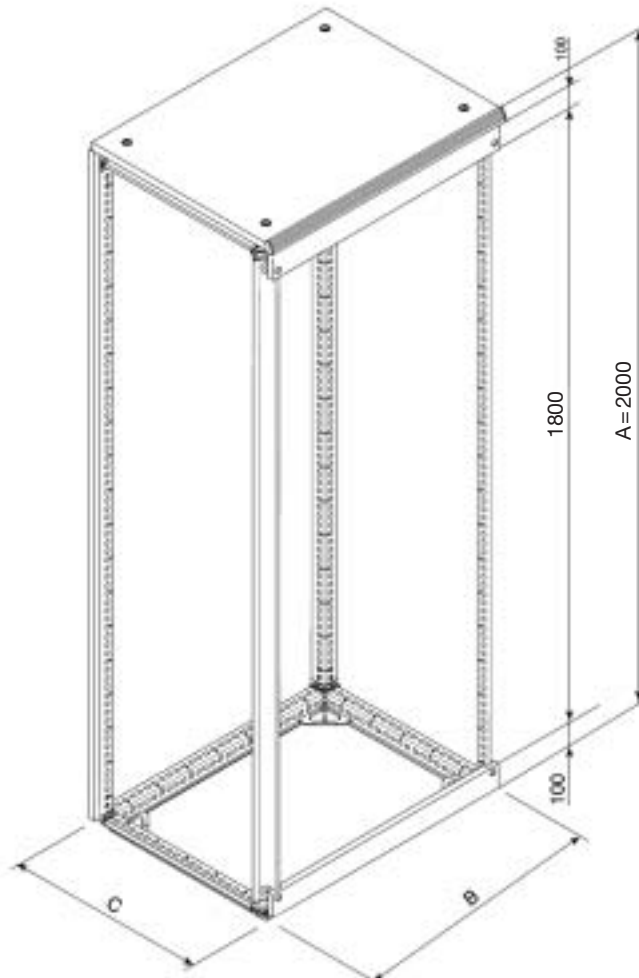
Intermediate crossbar
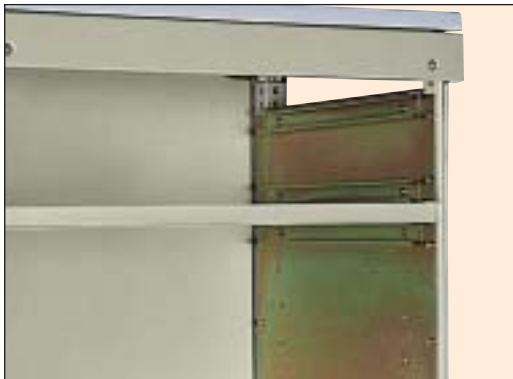
Fitting between partial doors or between doors and control desks. Painted to RAL-7032.

Width	Reference
600	**TIMC 60 N**
800	**TIMC 80 N**

Partial doors

Plain door with double bar lock. Various locking possibilities available. Painted to RAL-7032.

Nominal dimensions (mm)		
Width	Height	Reference
600	200	**PPMC 2060 N**
	400	**PPMC 4060 N**
	600	**PPMC 6060 N**
	800	**PPMC 8060 N**
	1000	**PPMC 10060 N**
800	400	**PPMC 4080 N**
	600	**PPMC 6080 N**
	800	**PPMC 8080 N**
	1000	**PPMC 10080 N**

KT glazed partial doors

Transparent templated glass door. Various locking possibilities available. Painted to RAL-7032.

Nominal dimensions (mm)		
Width	Height	Reference
600	200	**PPMC 2060 N KT**
	400	**PPMC 4060 N KT**
	600	**PPMC 6060 N KT**
	800	**PPMC 8060 N KT**
	1000	**PPMC 10060 N KT**
800	400	**PPMC 4080 N KT**
	600	**PPMC 6080 N KT**
	800	**PPMC 8080 N KT**
	1000	**PPMC 10080 N KT**

Drilling template

For partial door fixing to enclosure front.

Reference: **PLTON**.

Side covers
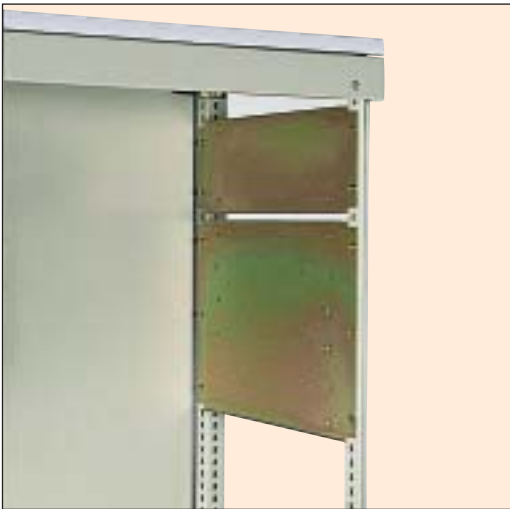
Closing side covers to form compartments.

Height	Depth	Reference
200	600	**2TLMC 2060**
200	800	**2TLMC 2080**
400	600	**2TLMC 4060**
400	800	**2TLMC 4080**

Rail guides
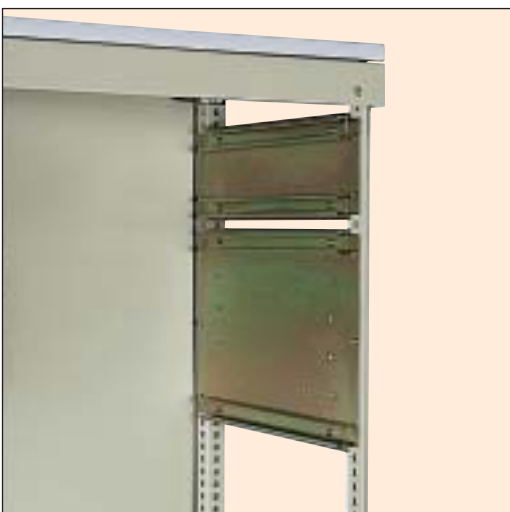
For adjustment of mounting plate.

Nominal dimensions (mm)	Reference
600	**4DPMC 60**
800	**4DPMC 80**

Compartmental tray

Separation between doors.

Nominal dimensions (mm)		
Height	Depth	Reference
600	400	**BSMC 6040**
600	500	**BSMC 6050**
800	400	**BSMC 8040**
800	500	**BSMC 8050**

Tray crossbar

To fit between partial doors separated by **BSMC** tray.
Painted to RAL-7032.

Nominal dimensions (mm)	
Width	Reference
600	**TBMC 60**
800	**TBMC 80**

Control desks

Can be located (as partial doors) anywhere on the cubicle. Painted to RAL-7032. Folding panel with locks ⬦.

Nominal dimensions (mm)			
Height	Width	Depth	Reference
400	600	500	**PKMC 60**
400	800	500	**PKMC 80**

19" RACK

Fixing of 19" equipment.

Nominal dimensions (mm)			
Height	No. units	Width	Reference
200	3	600	**BRF 3 MC**
400	7	600	**BRF 7 MC**
600	12	600	**BRF 12 MC**
800	16	600	**BRF 16 MC**
1000	21	600	**BRF 21 MC**
1200	25	600	**BRF 25 MC**

Mounting plates

For fixing or equipment.
Painted to RAL-2000.

Nominal dimensions (mm)		
Width	Height	Reference
600	200	**PMMC 2060 N**
	400	**PMMC 4060 N**
	600	**PMMC 6060 N**
	800	**PMMC 8060 N**
	1000	**PMMC 10060 N**
800	200	**PMMC 2080 N**
	400	**PMMC 4080 N**
	600	**PMMC 6080 N**
	800	**PMMC 8080 N**
	1000	**PMMC 10080 N**

Back covers

Closing back covers to
form compartments.

Nominal dimensions (mm)		
Height	Width	Reference
600	200	**TPMC 2060**
	400	**TPMC 4060**
	600	**TPMC 6060**
	800	**TPMC 8060**
	1000	**TPMC 10060**
800	400	**TPMC 4080**
	600	**TPMC 6080**
	800	**TPMC 8080**
	1000	**TPMC 10080**

Side closing

To fit between **TLMC**
side covers.

Nominal dimensions (mm)	
Depth	Reference
600	**CLCM 60**

OLNE.../... SP

INDUSTRIAL CUBICLE SYSTEM FOR ELECTRONICS

OLNE 186/60 SP

OLNE 186/60 KT

Metal cubicle consisting of a structure of triangular closed profiles with welded top and base and vertical removable bolted profiles, giving the assembly and optimum stability and versatility.
Painted internally and externally with polyester-epoxy resin to texturized RAL-7032.

Basic cubicle:
OLNE.../...SP cubicle
- Welded top.
- Welded base.
- Vertical uprights.
- Removable roof.
- Quick fixing side panels.
- 2 removable back panels.
- Front frame.
- Front and rear 19" profiles.

OLNE.../...KT cubicle
- Welded top.
- Welded base.
- Vertical uprights.
- Removable roof.
- Quick fixing side panels.
- 2 removable back panels.
- Front and back 19" profiles.
- Front glazed door with lock.
- 120° door opening.
- 4 point locking system outside the gasketed area.
  Standard ⬦ 5 mm double bar handle lock.
  Several transformation and locking possibilities.

O L N E . . . / . . . S P

Detail of front frame and lock on removable quick fixing side panel.
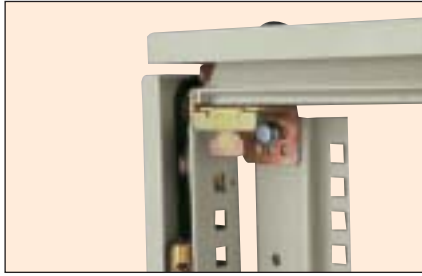
Detail of **BRF** profile fixing.

Bottom view of back panel.

REFERENCES AND DIMENSIONS

External dimensions (mm)				Reference	
Height (A)	Width (B)	Depth (C)	No. of units	Without door	With glazed door
1200	600	600	24	**OLNE 126/60 SP**	**OLNE 126/60 KT**
1200	600	800	24	**OLNE 126/80 SP**	**OLNE 126/80 KT**
1400	600	600	29	**OLNE 146/60 SP**	**OLNE 146/60 KT**
1400	600	800	29	**OLNE 146/80 SP**	**OLNE 146/80 KT**
1600	600	600	31	**OLNE 166/60 SP**	**OLNE 166/60 KT**
1600	600	800	31	**OLNE 166/80 SP**	**OLNE 166/80 KT**
1800	600	600	36	**OLNE 186/60 SP**	**OLNE 186/60 KT**
1800	600	800	36	**OLNE 186/80 SP**	**OLNE 186/80 KT**
2000	600	600	42	**OLNE 206/60 SP**	**OLNE 206/60 KT**
2000	600	800	42	**OLNE 206/80 SP**	**OLNE 206/80 KT**

Dimensions (mm)

FIG. 1
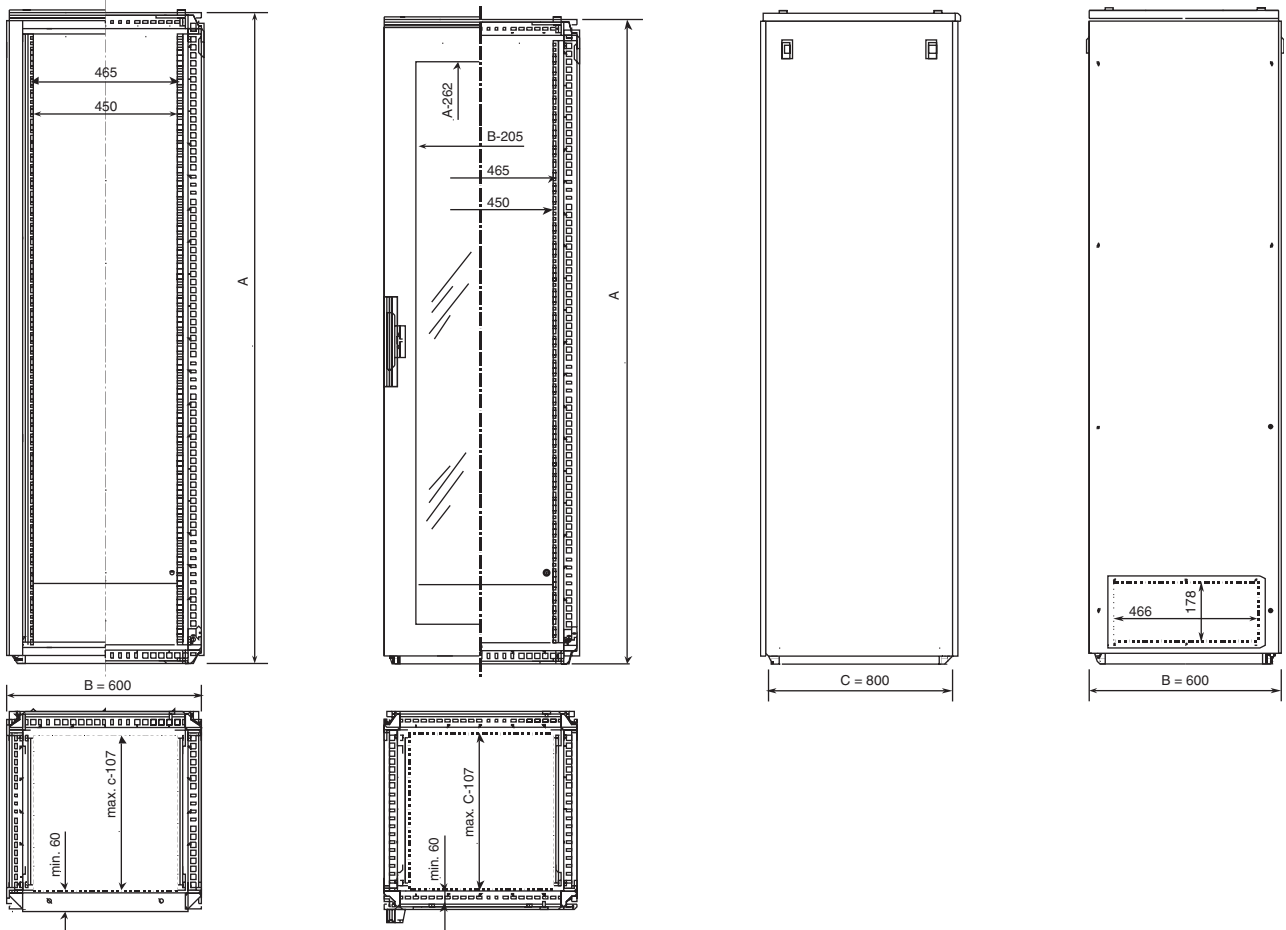
DINIMEL 2000 CHASSIS DISTRIBUTION SYSTEM

Dimensions (mm)
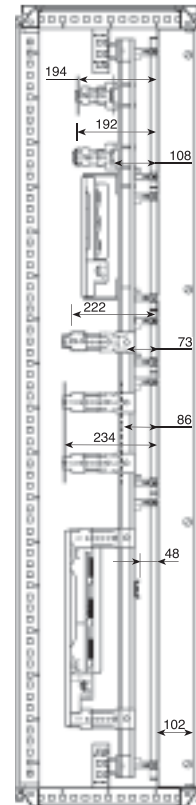
**OLN 186/60 KT + DM/OL 186 + CTLM 1550/0 +
CTLM 3050/4C + PMCD 6050 + CTLM 6050/0**

Coupling **DINIMEL 2000** chassis set for **OLN** cubicles
prepared to fit all the necessary components for high
capacity distribution boards.

■ Dimensional modularity: 150 × 250 mm to DIN 43870.
■ Adjustable distance between equipment and cover plate.
■ Heavy-duty special supports for fixing of heavy or bulky
equipment.
■ Easy wiring inside the cubicle thanks to the excellent
accessibility of the **OLN** cubicle.

DINIMEL 2000 chassis coupling set
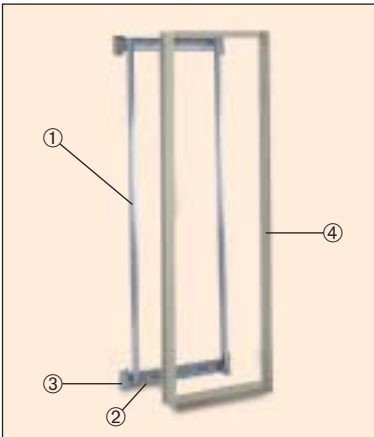
Set consisting of 2 or 4 MCM ①, uprights 2 crossbars ②, adapters ③ cover plate adjustment set ④.

Cubicle dimensions					
Height (A)	Width (B)	Maximum no. of 18 mm modules	No. of 150 ↑ rows	No. of 250 → mm columns	Reference
1600	600	240	10	2	**DM/OL 166**
1800	600	264	11	2	**DM/OL 186**
1800	1000	396	11	3	**DM/OL 1810**
2000	600	288	12	2	**DM/OL 206**
2000	1000	432	12	3	**DM/OL 2010**

DINIMEL 2000 standard mounting plate

Standard mounting plates with **SDCD** supports included.

To fit modular sizes (mm)		Plate dimensions		
↑ 150 mm Height	250 mm Width →	Height (A)	Width (B)	Reference
150	250	100	220	**PMCD 1525**
150	500	100	470	**PMCD 1550**
300	250	250	220	**PMCD 3025**
300	500	250	470	**PMCD 3050**
450	250	400	220	**PMCD 4525**
450	500	400	470	**PMCD 4550**
600	250	550	220	**PMCD 6025**
600	500	550	470	**PMCD 6050**
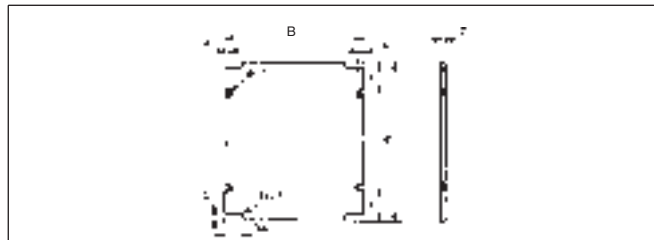
Reinforced DINIMEL 2000 mounting plates

Reinforced mounting plates with adjustable **SDCM** supports included.

To fit to modular sizes (mm)		Plate dimensions		
↑ 150 mm Height	250 mm Width →	Height (A)	Width (B)	Reference
300	500	250	444	**PMCM 3050**
300	750	250	694	**PMCM 3075**
450	500	400	444	**PMCM 4550**
450	750	400	694	**PMCM 4575**
600	500	550	444	**PMCM 6050**
600	750	550	694	**PMCM 6075**
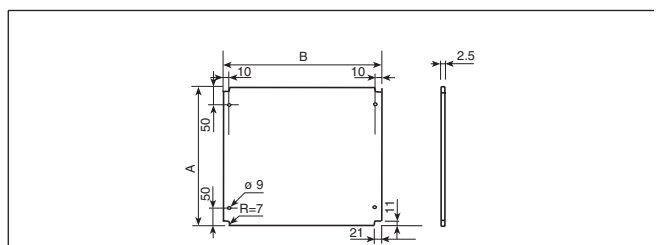
DINIMEL 2000 insulating blank cover plates

To fit to modular sizes (mm)		
↑ 150 mm Height	250 mm Width →	Reference
150	250	**CTL 1525/0**
150	500	**CTL 1550/0**
300	250	**CTL 3025/0**
300	500	**CTL 3050/0**
600	250	**CTL 6025/0**
600	500	**CTL 6050/0**

DINIMEL 2000 metal blank cover plates

To fit to modular sizes (mm)		
↑ 150 mm Height	250 mm Width →	Reference
150	250	**CTLM 1525/0**
150	500	**CTLM 1550/0**
300	250	**CTLM 3025/0**
300	500	**CTLM 3050/0**
600	250	**CTLM 6025/0**
600	500	**CTLM 6050/0**

DINIMEL 2000 insulating cut-out cover plates

Cut-out covers for **CO35D/...** rails (included) for switchgear.
On 500 mm wide covers, 2 extra units per row can be mounted by cutting out the separation between openings.

To fit to modular sizes (mm)		
↑ 150 mm Height	250 mm Width →	Reference
150	250	**CTL 1525/1C**
150	500	**CTL 1550/2C**
300	250	**CTL 3025/2C**
300	500	**CTL 3050/4C**
600	250	**CTL 6025/4C**
600	500	**CTL 6050/8C**

DINIMEL 2000 metal cut-out cover plates

Cut-out covers for **CO35D/...** rails (included) for switchgear.
On 500 mm wide covers, 2 extra units per row can be mounted by cutting out the separation between openings.
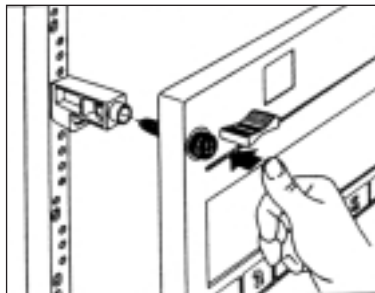
To fit to modular sizes (mm)		No. of openings	No. of rows	No. of 18 mm units	Reference
↑ 150 mm Height	250 mm Width →				
150	250	1	1	12	**CTLM 1525/1C**
150	500	2	1	24	**CTLM 1550/2C**
300	250	2	2	24	**CTLM 3025/2C**
300	500	4	2	48	**CTLM 3050/4C**
600	250	4	4	48	**CTLM 6025/4C**
600	500	8	4	96	**CTLM 6050/8C**

DINIMEL 2000 630 A busbar

EMH 630 A

EMV 630 A

EMH 630 A horizontal busbar to fit to 300 mm modules.
EMV 630 A vertical busbar to fit to chassis 500 mm wide or two 250 mm wide.

Phase busbar (mm)	Rated current (A)	Neutral bar (mm)		Earth bar (mm)	Reference
12 × 5	200	12 × 5-10		6 × 3	**EMH 630 A**
15 × 5	250	12 × 5-10		10 × 3	(horizontal)
20 × 5	320	20 × 5-10		10 × 6	
25 × 5	390	25 × 5			
30 × 5	440	30 × 5			
20 × 10	500				**EMV 630 A**
30 × 10	630				(vertical)
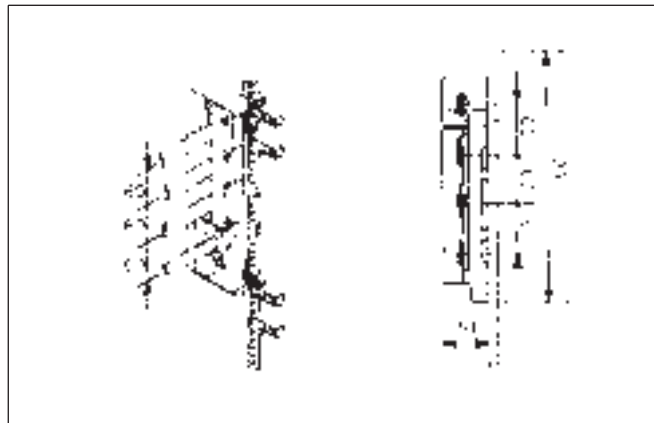
DINIMEL 2000 1250 busbar

EMH 1250 A

EMV 1250 A

EMH 1250 A horizontal busbar to fit to 600 mm high modules.
EMV 1250 A vertical busbar to fit to chassis 500 mm wide or two 250 mm wide.

To fit to modular sizes					
Phase busbar (mm)	Rated current (A)	Neutral bar (mm)		Earth bar (mm)	Reference
30 × 10	630	12 × 5-10			**EMH 1250 A**
40 × 10	850	15 × 5-10		6 × 3	(horizontal)
50 × 10	1000	20 × 5-10		10 × 3	
60 × 10	1250	25 × 5		10 × 6	
		30 × 5			**EMV 1250 A**
					(vertical)

O L N
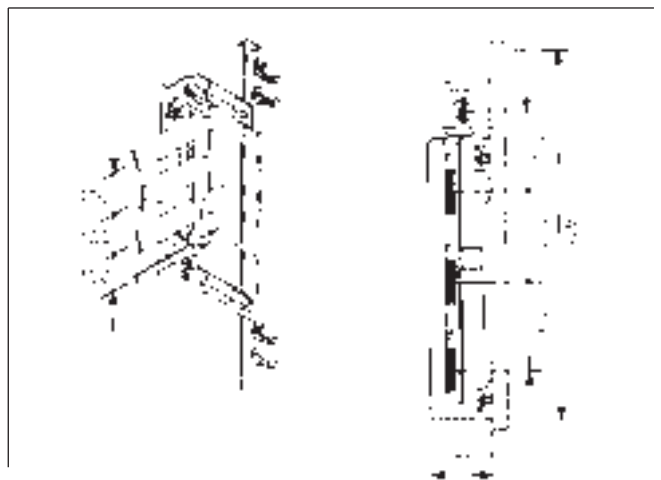
DINIMEL 2000 supports
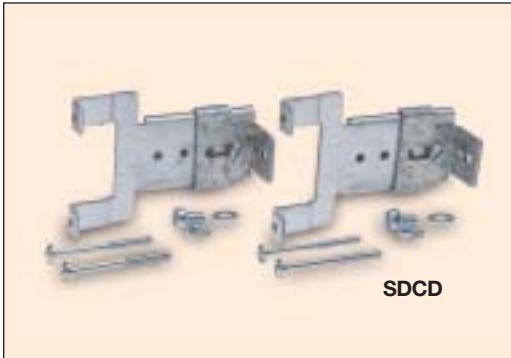
SDCD

SDCM

Set of two supports to fix directly to the vertical uprights. Distance between equipment fitting surface and inside of cover marked in mm.

Standard adjustable supports
Reference: **SDCD**.

Reinforced adjustable supports
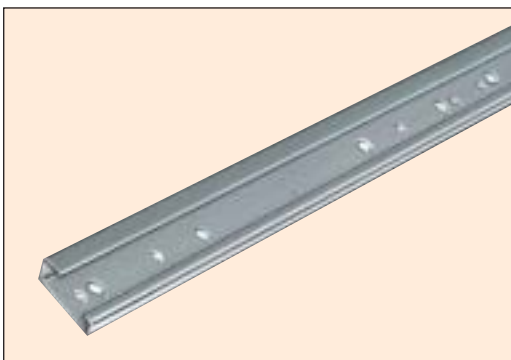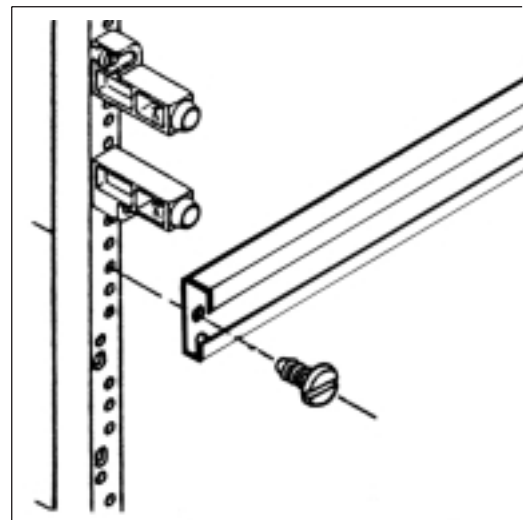Reference: **SDCM**.

DINIMEL 2000 DIN-35 reinforced rail
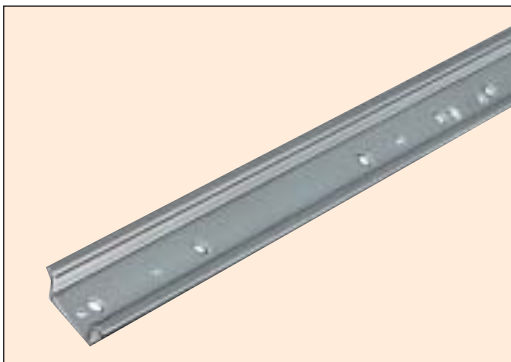
Loose rails to fix directly or by means of **SDCD** adjustable supports to the vertical uprights.

Modular lenght (mm)	Reference
250	**CO 3515D/25**
500	**CO 3515D/50**
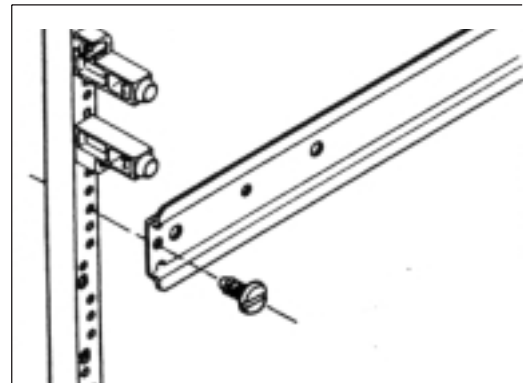
DINIMEL 2000 asymmetric rail

Loose rails to fix directly or by means of **SDCD** adjustable supports to the vertical uprights.

Modular length (mm)	Reference
250	**CA 32D/25**
500	**CA 32D/50**

DINIMEL 2000 reinforced rail with SCDM support
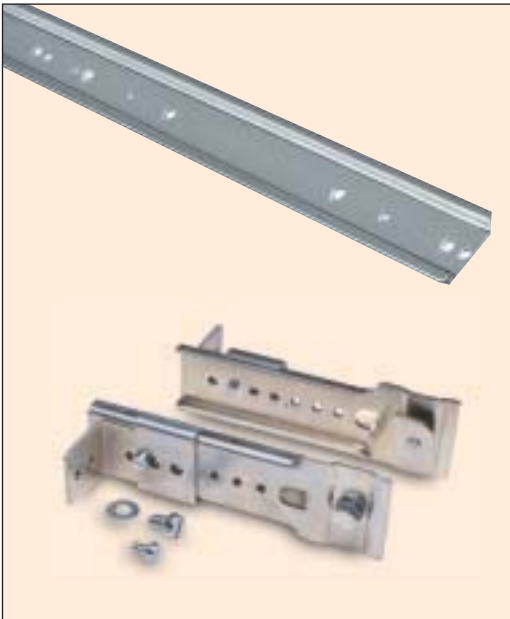
Reinforced rail fixed by means of **SDCM** supports (included).

Modular lenght (mm)	Reference
250	**CO 3515M/25**
500	**CO 3515M/50**
750	**CO 3515M/75**
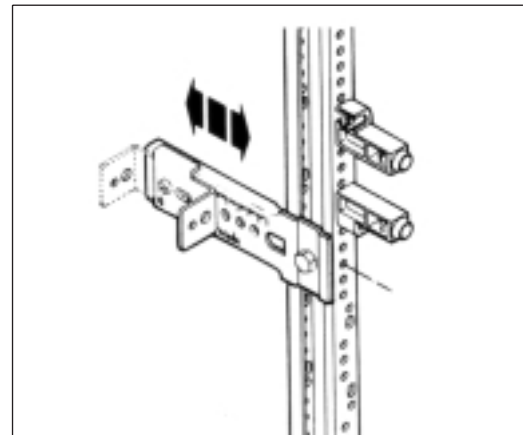
DINIMEL 2000 uprights

Set of two vertical uprights.

Cubicle dimensions Height (A)	Reference
1600	**MCM 1570**
1800	**MCM 1720**
2000	**MCM 1870**

DINIMEL 2000 coupling units

To reinforce the joining of uprights.
Reference: **UMD**.

CMO-OLN
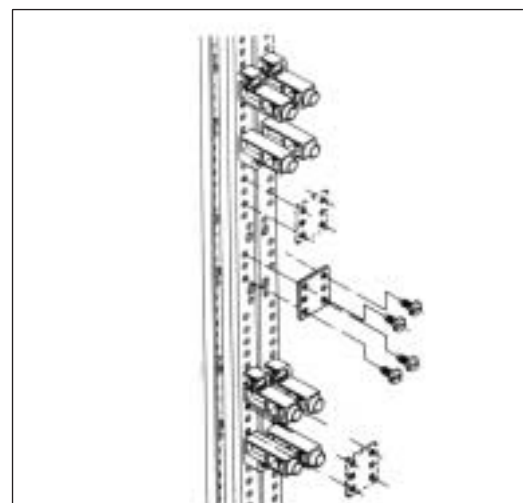
UNIVERSAL CHASSIS SYSTEM

CMO 168/30 + MOL 160 + PMP 6080
+ PMR 6080 + CDP 80

OLN 166/60 + MOL 160 + PMP 4060
+ PMR 4560 + CDP 60

Universal chassis prepared to be fitted directly to **CMO**
and **OLN** enclosures. Depth adjustable every 25 mm.
Allow for mounting of all kind of equipment on
mounting plate and or **DIN** rail.

■ Vertical uprights set.
■ Plain, partial and perforated mounting plates and rails.

Set of uprights for universal chassis

Set of vertical uprights for fixing of mounting plates and rails.

Enclosure dimensions Height (A)	Reference
1000	**MOL 100**
1200	**MOL 120**
1400	**MOL 140**
1600	**MOL 160**
1800	**MOL 180**
2000	**MOL 200**

Partial plain mounting plate for universal chassis

Note: in order to fix the mounting plate on the chassis, the **TDM 8** nuts and the **TOR 16/8A** screws should be ordered separately.
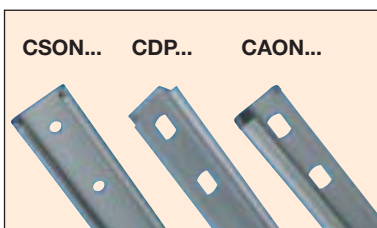
Enclosure dimensions Width (B)	Plate height	Reference
600	247	**PMP 2560**
	397	**PMP 4060**
	597	**PMP 6060**
800	247	**PMP 2580**
	397	**PMP 4080**
	597	**PMP 6080**
1000	247	**PMP 25100**
	397	**PMP 40100**
	597	**PMP 60100**
1200	247	**PMP 25120**
	397	**PMP 40120**
	597	**PMP 60120**
1600	397	**PMP 40160**

Partial perforated mounting plate for universal chassis

Enclosure dimensions Width (B)	Plate height	Reference
600	225	**PMR 2260**
	450	**PMR 4560**
	600	**PMR 6060**
	825	**PMR 8260**
800	225	**PMR 2280**
	450	**PMR 4580**
	600	**PMR 6080**
	825	**PMR 8280**
1000	225	**PMR 22100**
	450	**PMR 45100**
	600	**PMR 60100**
	825	**PMR 82100**
1200	225	**PMR 22120**
	450	**PMR 45120**
	600	**PMR 60120**
	825	**PMR 82120**

Rails for universal chasis

CSON... CDP... CAON...

Rails for fixing of equipment.

Enclosure dimensions Width (B)	Reference double profile	Reference symmetric rail	Reference assymmetric rail
600	**CDP 60**	**CSON 60**	**CAON 60**
800	**CDP 80**	**CSON 80**	**CAON 80**
1000	**CDP 100**	**CSON 100**	**CAON 100**
1200	**CDP 120**	**CSON 120**	**CAON 120**
2000	**CDP 200**	-	-

Note: for nuts and screws to adapt to all the rails see page 1/150.

CMO-OLN

UNIDIS DISTRIBUTION SYSTEM

CMO 186/40 KT + AFCOL 186 + CP 2060/1 +
CPH 4060/2 + CP 4060/2 + CPH 2060/1 + CPH 4060/0

OLN 186/60 + AFCOL 186 + CP 2060/1 +
**CHP 4060/2 + CP 4060/2 + CPH 2060/1 + CPH 4060/0**

Coupling set for modular chassis prepared to fit all the necessary elements to build large capacity distribution panels.

Coupling front frame allowing for mounting of:
- 600 or 800 mm wide covers (plain or cut-out) with fixed and hinged types, and height up to 600 mm (150 or 200 mm modularity).
- Fixed and depth adjustable support rails for plain or perforated mounting plates.
- Sets for double modular chassis or busbar systems.

- Double chassis are mounted on enclosures 1200 to 1600 mm wide.
- Vertical busbar covers are mounted on enclosures 1000 or 1200 mm wide.
- All accessories, covers, rails and supports are combined in these kits as in the single chassis.

Coupling set for modular chassis
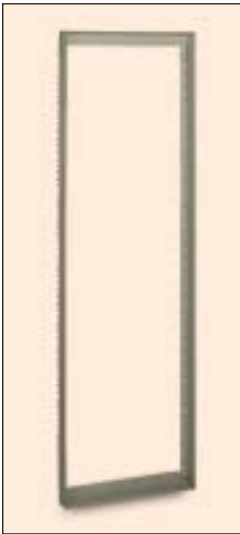
Set of uprights and crossbars for fixing of covers and supports.

Enclosure dimensions		Maximum no. of 18 mm units	Set of columns	Reference	Fig. no.
Height (A)	Width (B)				
1200	600	126	600	**AF/COL 126**	1
1200	800	192	800	**AF/COL 128**	1
1400	600	168	600	**AF/COL 146**	1
1400	800	256	800	**AF/COL 148**	1
1600	600	183	600	**AF/COL 166**	1
1600	800	288	800	**AF/COL 168**	1
1800	600	210	600	**AF/COL 186**	1
1800	800	320	800	**AF/COL 188**	1
1800	1000	210	600+400	**AF/COL 1864**	3
1800	1200	320	800+400	**AF/COL 1884**	3
1800	1200	420	600+600	**AF/COL 1866**	2
2000	600	252	600	**AF/COL 206**	1
2000	800	384	800	**AF/COL 208**	1
2000	1000	252	600+400	**AF/COL 2064**	3
2000	1200	384	800+400	**AF/COL 2084**	3
2000	1200	504	600+600	**AF/COL 2066**	2

FIG. 1

Modular chassis

Modular chassis with finishing blanking plates

FIG. 2

With double modular chassis set

FIG. 3

With vertical busbars front plate and modular chassis set
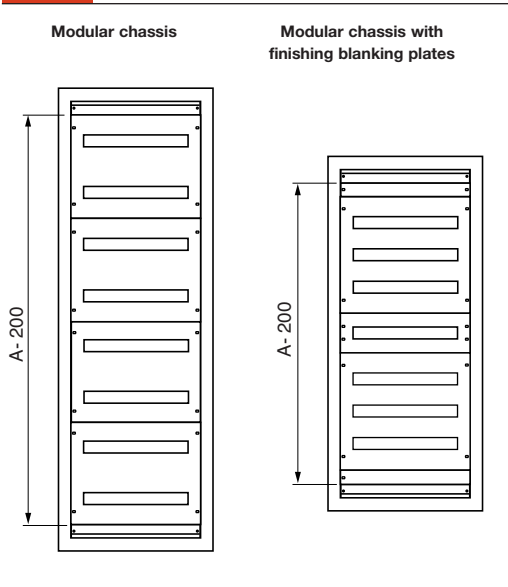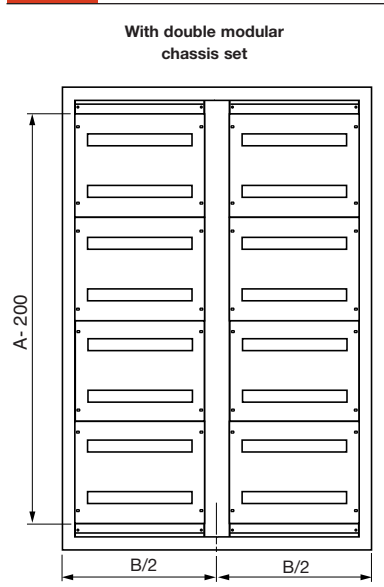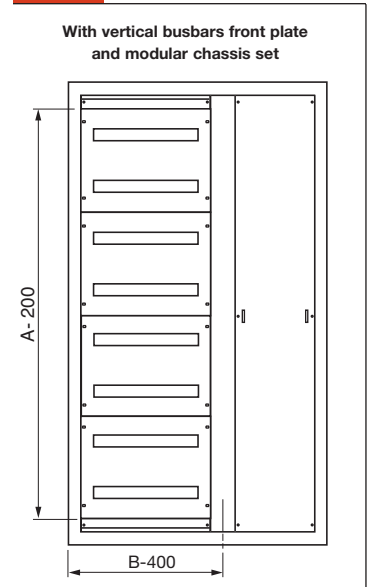
Dimensions (mm)

FIG. 4

Modular chassis

Distance of inside cover transparent part: 80 mm
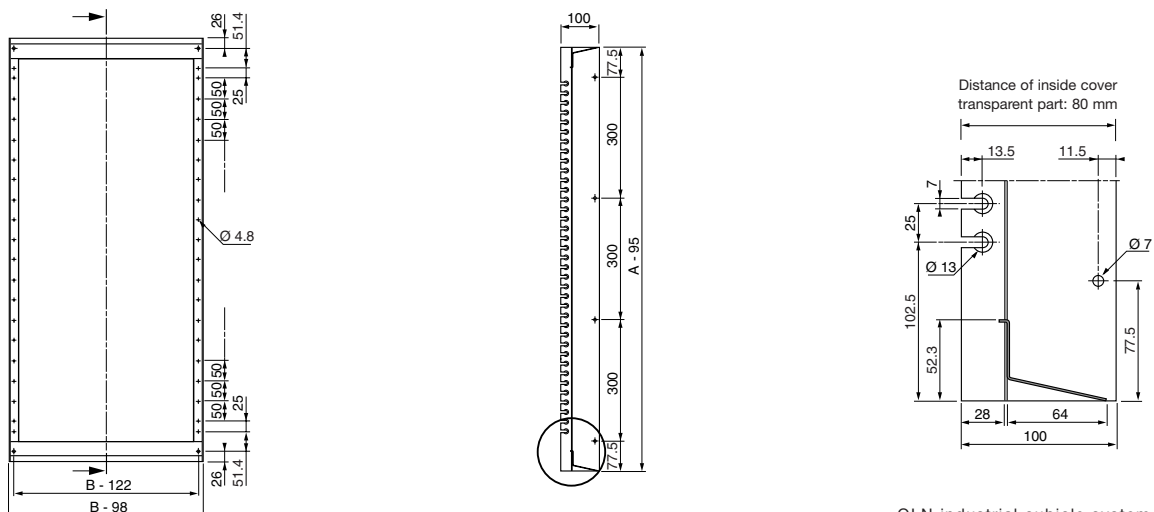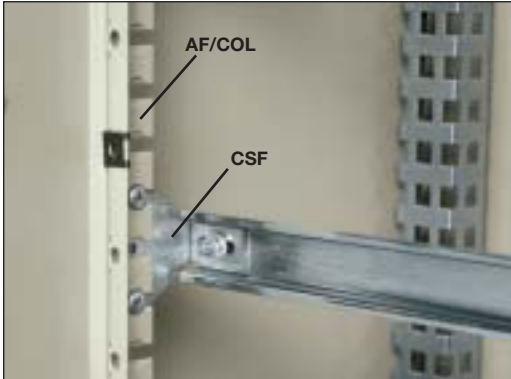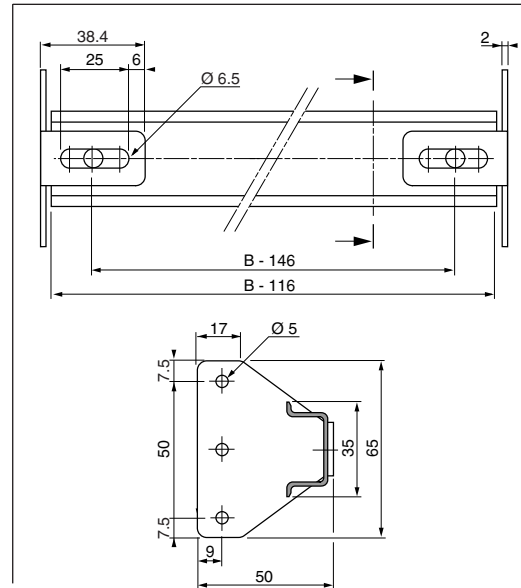
UNIDIS DISTRIBUTION SYSTEM
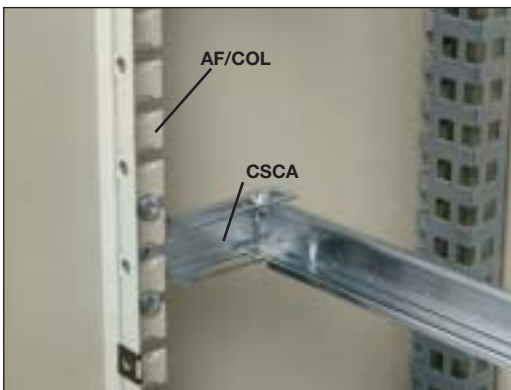
Fixed supports with cross rail

Symmetric 35×15 mm cross rail, galvanized, with fixed supports.
- Bolted on uprights of modular chassis.
- Enables fixing of modular or non modular clip-on equipment.
- Fixed supports without rail reference **CSF.**

Enclosure dimensions	
Width (B)	Reference
600	**CSCF 60**
800	**CSCF 80**

Adjustable supports with cross rail

Symmetric 35×15 mm, cross rail, galvanized, with adjustable supports.
- Bolted on uprights of modular chassis.
- Enables fixing of modular or non modular clip-on equipment, as well as depth adjustment of cross rail.
- Fixed supports without rail reference **CSA**.

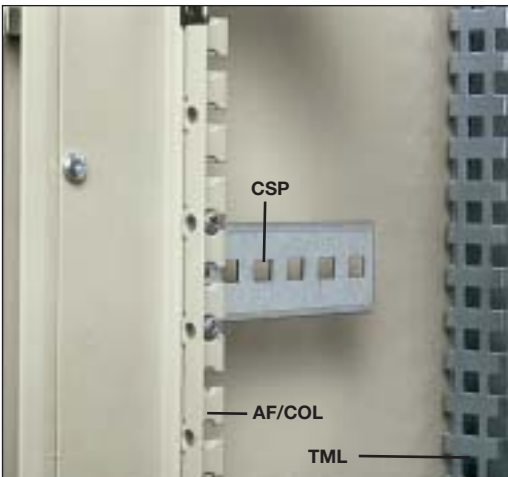| Enclosure dimensions	
Width (B)	Reference
600	**CSCA 60**
800	**CSCA 80**
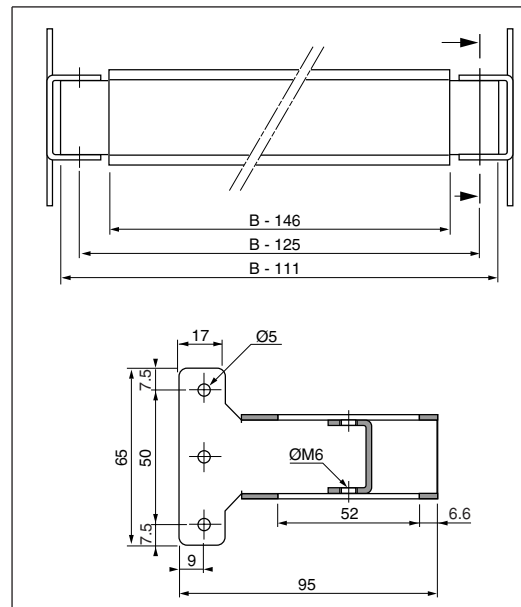
Partial plain mounting plate

For non-modular equipment.

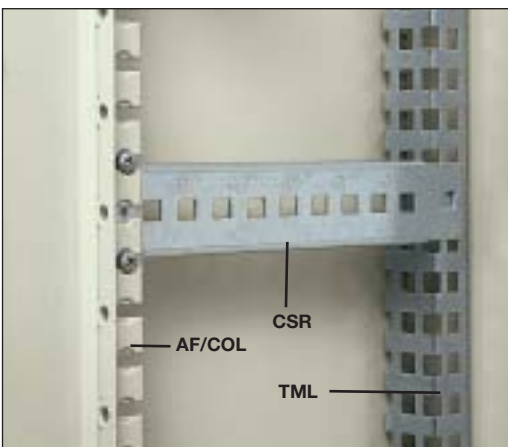| Enclosure dimensions		
Height plate	Width (B)	Reference
247	600	**PMP 2560**
397	600	**PMP 4060**
597	600	**PMP 6060**
247	800	**PMP 2580**
397	800	**PMP 4080**
597	800	**PMP 6080**

Set of 2 short plate supports

■ Allows fixing of.
■ Material: folded and welded sheet steel, galvanized.
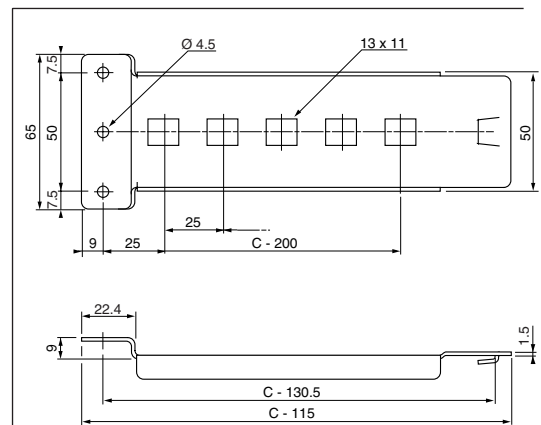■ Bolted on uprights of modular chassis. Ref.: **CSP**.
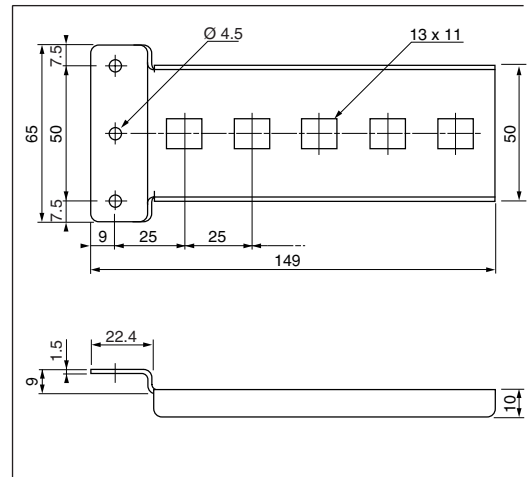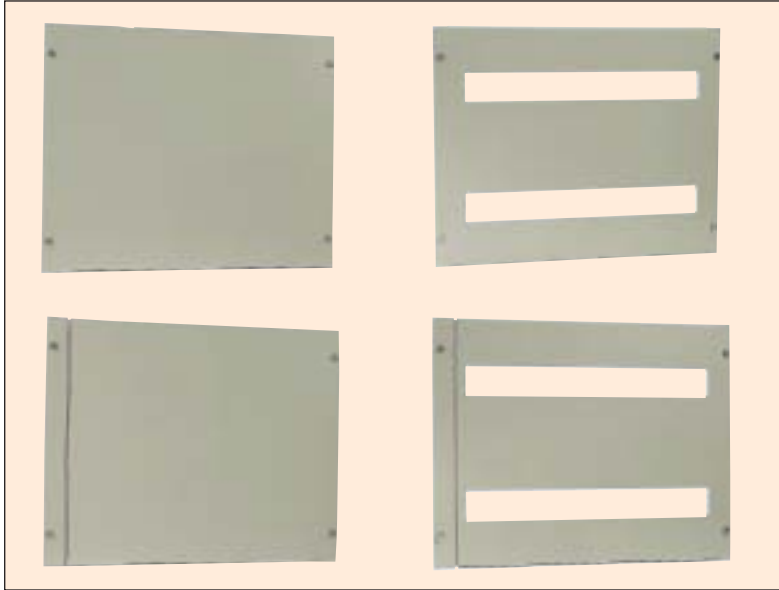
Set of 2 reinforced plate supports

■ Allows fixing of.
■ Front and rear face coupling on 1 row mounting profile, mounted vertically.
■ Material: folded and welded sheet steel, galvanized.

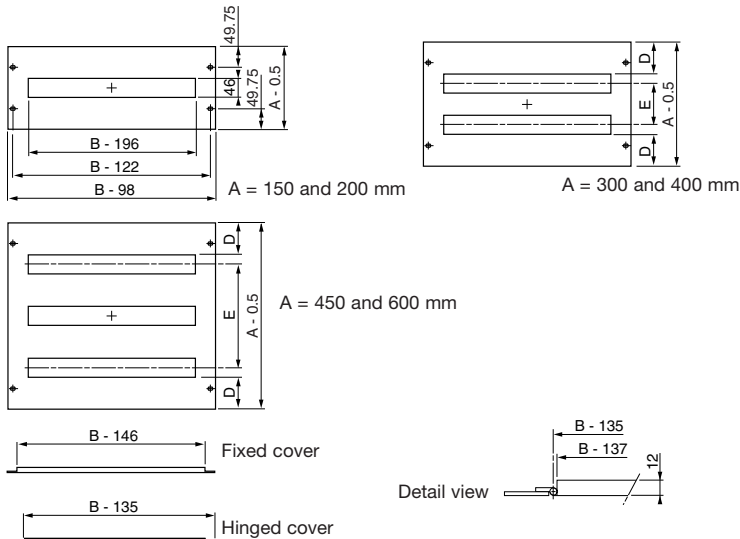| Enclosure depth (C)	Reference
300	**CSR 30**
400	**CSR 40**
500	**CSR 50**
600	**CSR 60**

Metal covers

- Plain and cut-out types, fixed or hinged.
- Made of sheet steel and painted with polyester epoxy to RAL-7032.
- 150 and 200 mm modularity.
- On plain covers, cut-outs made by user for protection of control or protection components.
- Cut-out covers for modular equipment ref.: **ATP UND**.
- Hinged covers.
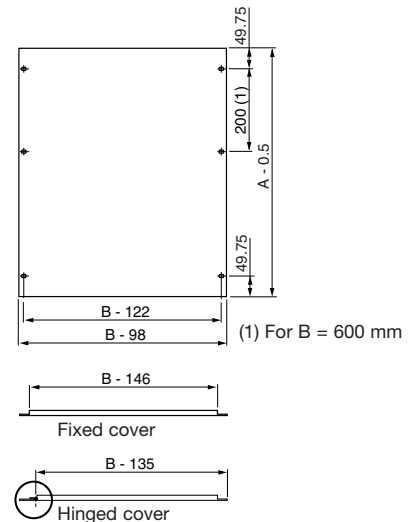- End covers to fill up the chassis depending on the combination of covers.

Dimensions			Plain cover plates		Cut-out cover plates						
Cover Height (A)	Enclosure Width (B)	End covers	Fixed type	Hinged type	No. of 18 mm unids	Fixed type	(D)	(E)	Hinged type	(D)	(E)
50	600	**CSC 560**	-	-		-			-		
50	800	**CSC 580**	-	-		-			-		
150	600	-	CP 1560/0	CPH 1560/0	21	CP 1560/1	-	-	CPH 1560/1	-	-
150	800	-	CP 1580/0	CPH 1580/0	32	CP 1580/1	-	-	CPH 1580/1	-	-
200	600	-	CP 2060/0	CPH 2060/0	21	CP 2060/1	-	-	CPH 2060/1	-	-
200	800	-	CP 2080/0	CPH 2080/0	32	CP 2080/1	-	-	CPH 2080/1	-	-
300	600	-	CP 3060/0	CPH 3060/0	42	CP 3060/2	52	150	CPH 3060/2	52	150
300	800	-	CP 3080/0	CPH 3080/0	64	CP 3080/2	52	150	CPH 3080/2	52	150
400	600	-	CP 4060/0	CPH 4060/0	42	CP 4060/2	77	200	CPH 4060/2	77	200
400	800	-	CP 4080/0	CPH 4080/0	64	CP 4080/2	77	200	CPH 4080/2	77	200
450	600	-	CP 4560/0	CPH 4560/0	63	CP 4560/3	52	300	CPH 4560/3	52	300
450	800	-	CP 4580/0	CPH 4580/0	96	CP 4580/3	52	300	CPH 4580/3	52	300
600	600	-	CP 6060/0	CPH 6060/0	63	CP 6060/3	77	400	CPH 6060/3	77	400
600	800	-	CP 6080/0	CPH 6080/0	96	CP 6080/3	77	400	CPH 6080/3	77	400

Dimensions (mm)

Plain fixed and hinged covers

A = 150 and 200 mm

A = 300 and 400 mm

A = 450 and 600 mm

Fixed cover

Hinged cover

Detail view

Cut-out fixed and hinged types

(1) For B = 600 mm

Fixed cover

Hinged cover

Double chassis coupling set

Enclosure dimensions		Maximum no. of 18 mm units	Reference
Height (A)	Width (B)		
1400	1200	336	**AF/COL 1466***
1600	1200	378	**AF/COL 1666***
1800	1200	420	**AF/COL 1866***
2000	1200	504	**AF/COL 2066***
1800	1600	640	**AF/COL 1888**
2000	1600	768	**AF/COL 2088**

* For **CMO** enclosures, order separately top and bottom **DCOL...** adjusting rails depending on depth of enclosure.

For enclosure width 1200 and 1600 mm.
Set consisting of:
■ 2 modular chassis.
■ Central upright.
■ All necessary fixings and supports for mounting.
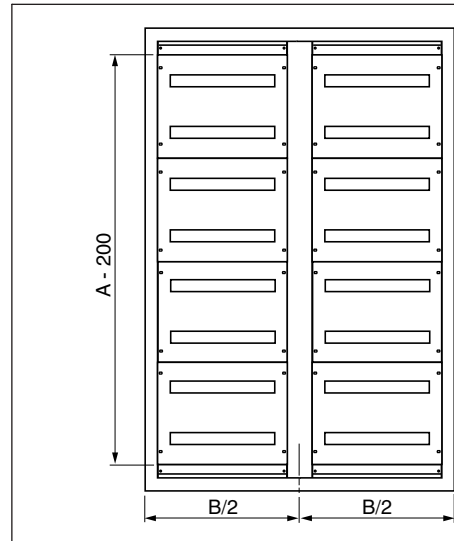
Top and bottom adjustment rails

Folded and welded sheet steel, galvanized.
■ Enables central positioning and fixing of vertical rails in 1200 mm wide enclosures.
■ Screw fixing to upper and lower parts of enclosure. Fixing included.
■ Pack of 4 parts.

Enclosure dimensions Depth	Reference
300	**DCOL 30**
400	**DCOL 40**
500	**DCOL 50**
600	**DCOL 60**

Vertical busbars front plate and modular chassis set

Enclosure dimensions		D	Reference
Height (A)	Width (B)		
1400	1000	600	**AF/COL 1464**
1600	1000	600	**AF/COL 1664**
1800	1000	600	**AF/COL 1864**
2000	1000	600	**AF/COL 2064**
1400	1200	800	**AF/COL 1484**
1600	1200	800	**AF/COL 1684**
1800	1200	800	**AF/COL 1884**
2000	1200	800	**AF/COL 2084**

For enclosure width 1000 and 1200 mm.
Set consisting of:
■ 1 modular chassis.
■ 1 central, compensating upright.
■ 1 blanking plate for busbars (width 300 mm).
■ All necessary fixings and supports for mounting.

CMO-OLN
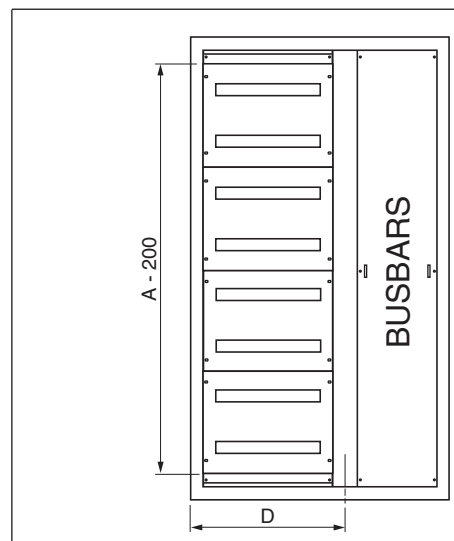
19" SWING CHASSIS

**CMO 186/40 +
BRF 38/OL**

**CMO 188/40 +
BRP 9/OL**

**CMO 188/40 +
BRPC 36/OL**

**CMO 188/40 +
BRP 18/OL**

**OLN 168/600 KT +
BRP 31/OL**

**OLN 168/60 KT +
BRP 21/OL**

**OLN 166/60 KT +
BRF 33/OL**

Rack 19" system prepared to be fitted directly to **CMO** and **OLN** enclosures: fixed and swing types.

- Fixed racks, polyester epoxy resin paint to RAL-7032, consisting of 2 uprights with fixing hardware.
- Swing racks, polyester epoxy resin paint to RAL-7032, 125° and 180° opening, double bar lock, maximum load 140 kg.

- Partial swing racks, polyester epoxy resin paint to RAL-7032, double bar lock, for enclosures wider than 800 mm.
- Centred swing racks, polyester epoxy resin paint to RAL-7032, double bar lock.

Set of 2 fixed 19" racks
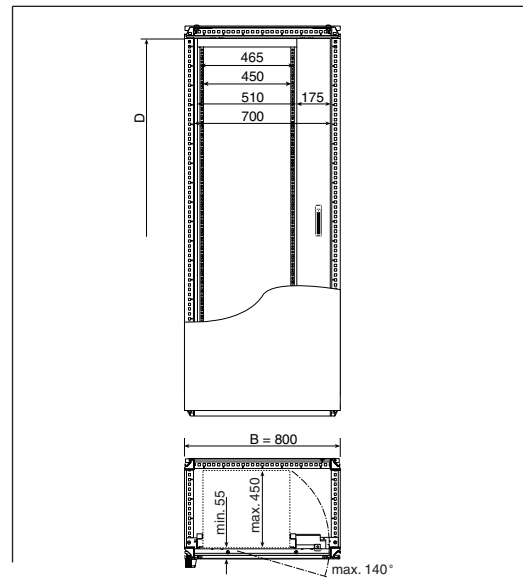
465
450

B = 600

min. 55   max. C-107
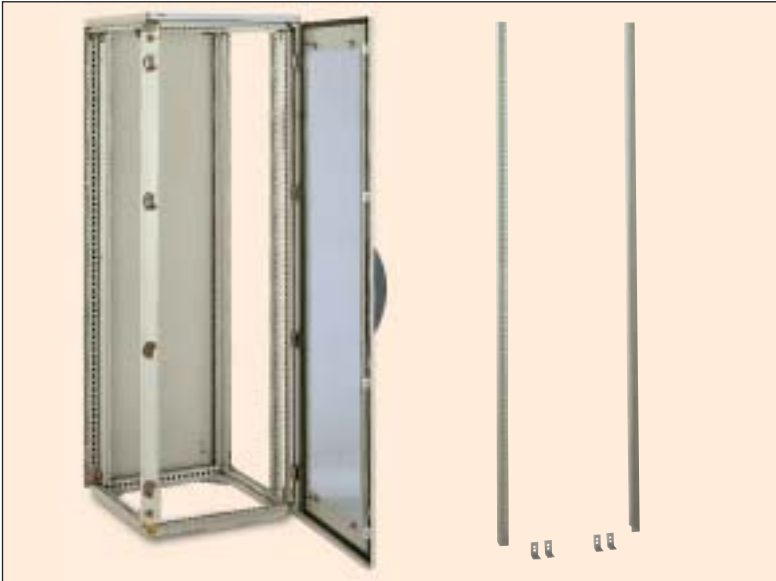
To fit to 600 mm wide **CMO** and **OLN** enclosures. Allows for direct fixing of any 19" modular chassis to the standard drillings. Painted to RAL-7032.
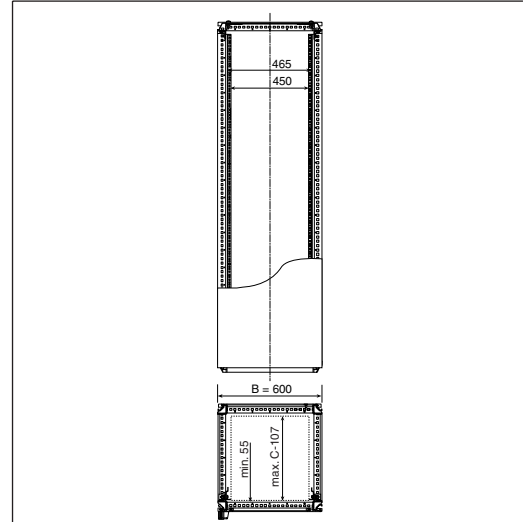
Enclosure dimensions			
Height (A)	Width (B)	No. of units	Reference
1200	600	24	**BRF 24/0L**
1400	600	29	**BRF 29/0L**
1600	600	33	**BRF 33/0L**
1800	600	38	**BRF 38/0L**
2000	600	42	**BRF 42/0L**
2200	600	47	**BRF 47/0L**

C = nominal cubicle depth.

Swing 19" rack

465
450
510
700   175

D

B = 800

min. 55   max. 450   max. 140°

PARTIAL SWING 19" RACK

Rack height (D)	Width enclosure (B)	No. of units	Reference
354	800	6	**BRP 6/0L**
621	800	12	**BRP 12/0L**
887	800	18	**BRP 18/0L**
1021	800	21	**BRP 21/0L**

Allows for direct fixing of any 19" modular chassis to the standard drillings. To fit to 800 mm wide **CMO** and **OLN** enclosures. Painted to RAL-7032.
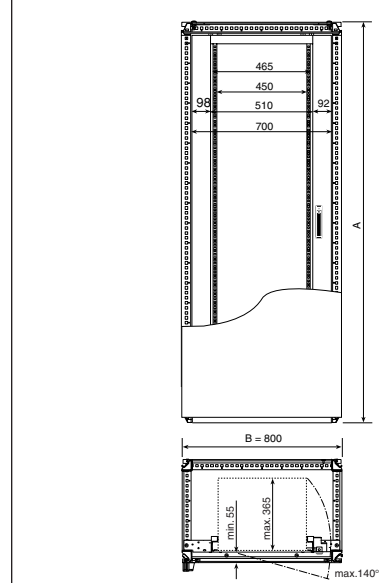
Enclosure dimensions			
Height (A)	Width (B)	No. of units	Reference
1400	800	27	**BRP 27/0L**
1600	800	31	**BRP 31/0L**
1800	800	36	**BRP 36/0L**
2000	800	40	**BRP 40/0L**
2200	800	45	**BRP 45/0L**

C = nominal cubicle depth.

CMO-OLN

Centred swings 19" rack

Allows for direct fixing of any 19" modular chassis to the standard drillings.
To fit to 800 mm wide **CMO** and **OLN** enclosures.
Rack centred in the middle.
Colour RAL-7032.

Enclosure dimensions			
Height (A)	Width (B)	No. of units	Reference
1400	800	27	**BRPC 27/OL**
1600	800	31	**BRPC 31/OL**
1800	800	36	**BRPC 36/OL**
2000	800	40	**BRPC 40/OL**
2200	800	45	**BRPC 45/OL**

180° swing 19" rack

Allows for direct fixing of any 19" modular chassis to the standard drillings.
To fit to 800 mm wide **CMO** and **OLN** enclosures.
180° opening.
Colour RAL-7032.
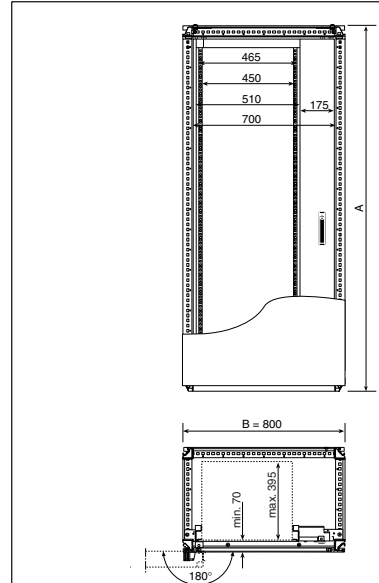
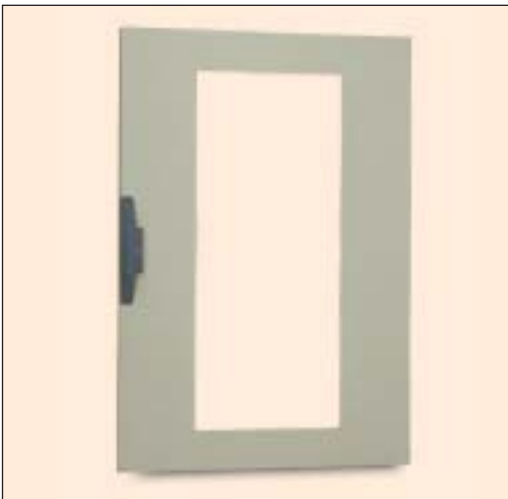| Enclosure dimensions			
Height (A)	Width (B)	No. of units	Reference
1400	800	27	**BRP 27/OL 180**
1600	800	31	**BRP 31/OL 180**
1800	800	36	**BRP 36/OL 180**
2000	800	40	**BRP 40/OL 180**
2200	800	45	**BRP 45/OL 180**

Transparent KT doors with window centred on the rack

Transparent KT doors with window centred on the rack **BRP…/OL** and **BRP…/OL 180**.

Enclosure dimensions		
Height (A)	Width (B)	Reference
1200	800	**PPKT 128 BRP**
1400	800	**PPKT 148 BRP**
1600	800	**PPKT 168 BRP**
1800	800	**PPKT 188 BRP**
2000	800	**PPKT 208 BRP**
2200	800	**PPKT 228 BRP**

Transparent KT doors with window centred on the rack

Transparent KT doors with window centred on the rack **BRPC…/OL** and **BRF…/OL**.

| Enclosure dimensions		
Height (A)	Width (B)	Reference
1200	800	**PPKT 128 BRPC**
1400	800	**PPKT 148 BRPC**
1600	800	**PPKT 168 BRPC**
1800	800	**PPKT 188 BRPC**
2000	800	**PPKT 208 BRPC**
2200	800	**PPKT 228 BRPC**

Suite of 2 side lids centred fixed rack

Suite of 2 side lids to adapt racks **BRF…/OL** to 800 mm wide enclosures.

| Enclosure dimensions			
Height (A)	Width (B)	Depth	Reference
1200	800	600	**TBRF 24/OL 60**
1400	800	600	**TBRF 29/OL 60**
1600	800	600	**TBRF 33/OL 60**
1800	800	600	**TBRF 38/OL 60**
2000	800	600	**TBRF 42/OL 60**
2200	800	600	**TBRF 47/OL 60**
1200	800	800	**TBRF 24/OL 80**
1400	800	800	**TBRF 29/OL 80**
1600	800	800	**TBRF 33/OL 80**
1800	800	800	**TBRF 38/OL 80**
2000	800	800	**TBRF 42/OL 80**
2200	800	800	**TBRF 47/OL 80**

CMO-OLN
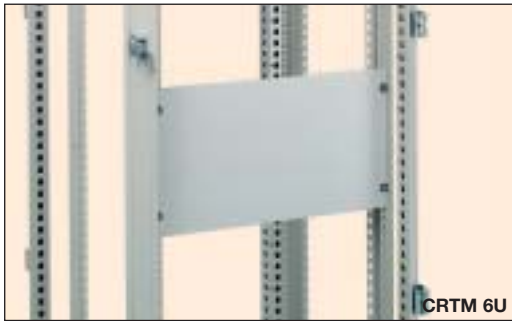
Cover plates

Fixed directly to the 19"
rack with **GFR** ref.
screws.
Made of 1.5 mm-thick
sheet steel painted in
fine texturised grey
RAL-7035 or in 3 mm-
thick aluminium.

CRTM 6U

CRTA 6U

No. of units	Reference	
	Steel	Aluminium
1	CRTM 1U	CRTA 1U
2	CRTM 2U	CRTA 2U
3	CRTM 3U	CRTA 3U
6	CRTM 6U	CRTA 6U
9	CRTM 9U	CRTA 9U
10	CRTM 10U	CRTA 10U
12	CRTM 12U	CRTA 12U
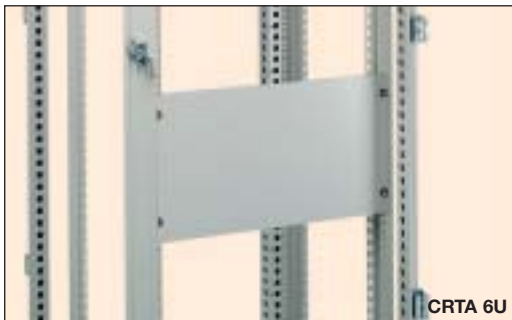
Cut-out cover plates for cables
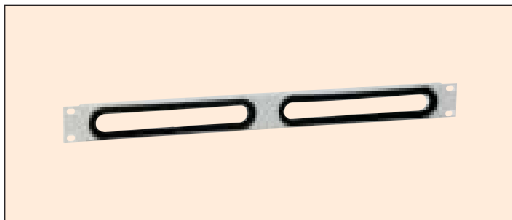
Fixed directly to the 19"
rack with **GFR** ref.
screws.
Made of 1.5 mm-thick
sheet steel painted fine
texturised RAL-7035,
protected cable entry
holes.

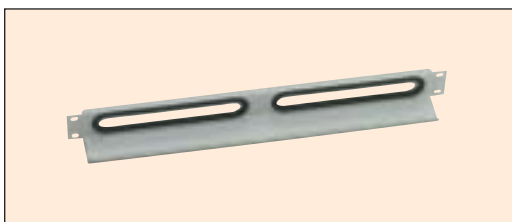| No. of units	No. of holes	Reference
1	2	CRTM 1U2

Cut-out cover plates for cables with housing

Fixed directly to the 19"
rack with **GFR** ref.
screws. Made of
1.5 mm-thick sheet
steel, painted fine
texturised grey
RAL-7035, protected
cable entry holes and
supporting fold.

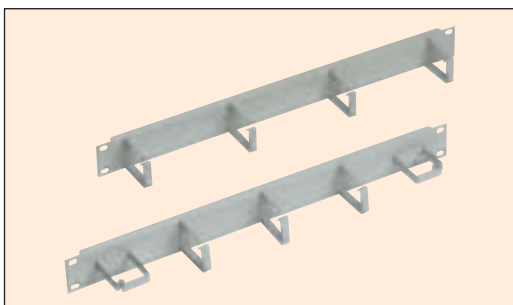| No. of units	No. of holes	Reference
1	2	CRTM 1UA2

Cable gland plate with brush

Fixed directly to the 19" rack with **GFR** ref. screws.
Made of 1.5 mm-thick sheet steel, painted fine texturised grey RAL-7035, with a cale entry hole and anti-dust protection.

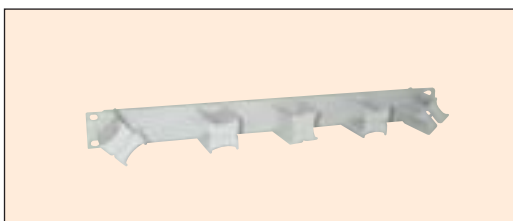| No. of units	No. of holes	Reference
1	1	**CRTM 1U1P**

Cover plates with steel cable ties

Fixed directly to the 19" rack with **GFR** ref. screws.
Made of 1.5 mm-thick sheet steel, painted in fine texturised grey RAL-7035, with welded cable ties.

No. of units	No. of ties/position	Reference
1	4 vert.	**CRTM 1U40B**
1	3 vert./2 hor.	**CRTM 1U32B**

Cover plates with insulating cable ties

Fixed directly to the 19" rack with **GFR** ref. screws.
Made of 1.5 mm-thick sheet steel, painted to fine texturised grey RAL-7035, with 5 GCA 46 insulating cable ties with 4 different positions (vertical, horizontal, 45° and 135°).

No. of units	Reference
1	**CRTM 1U5GCA**

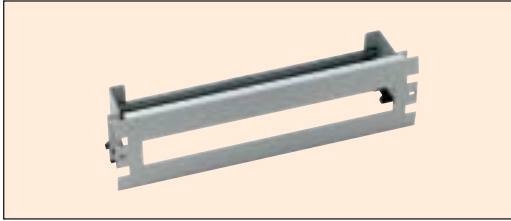## Cover plates for protection and ventilation control

Fixed directly to the 19" rack with **GFR** ref. screws.
Made of 1 mm-thick sheet steel fitted with an illuminated switch TS-141 thermostat to operate and adjust the fans.

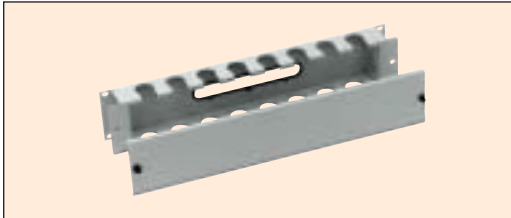| No. of units	Reference
1	**CRTM 1UVT**

DIN rail cover plates

Fixed directly to the 19" rack with **GFR** ref. screws.
Made of 1 mm-thick sheet steel, DIN rail module cover plate taking up to 22 modules, with detachable front, painted in fine texturised grey RAL-7035.

No. of units	No. of modules (18 mm)	Reference
3	22	**CRTM 3UD**

Cable guide cover plates

Fixed directly to the 19" rack with **GFR** ref. screws.
Made of 1 mm-thick sheet steel, cable guide front cover with quick-detachable front for concealing cables, painted in fine texturised grey RAL-7035.

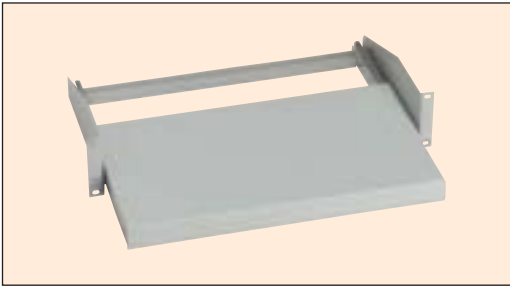| No. of units	Reference
2	**CRTM 2UC**

2 U perforated fixed tray

Fixed directly to the 19" front rack with **GFR** ref. screws.
Made of 1.5 mm-thick perforated sheet steel, painted in fine texturised RAL-7035. Maximum load 20 kg.

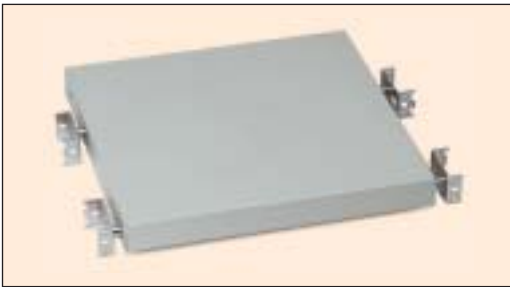| Tray dimensions			
Height	Width	Depth	Reference
2 U	450	250	**BF 2U25P**
2 U	450	380	**BF 2U40P**

2 U telescopic tray

Fixed directly to the front 19" rack with **GFR** ref. screws.
Made of 1.5 mm-thick sheet steel, painted in fine texturised RAL-7035 colour, fitted with telescopic guides and securing device. Maximum load 5 kg.

Tray dimensions			
Height	Width	Depth	Reference
2 U	450	250	**BT 2U25**

1 U fixed tray

Fixed directly to the front and rear of the 19" rack (not included) (2 sets of fixed 19" racks must be ordered). Made of 1.5 mm-thick sheet steel, painted in fine texturised RAL-7035 colour.
Maximum load 25 kg.

Tray dimensions			For enclosures depth	Distance frame front-back	
Height	Width	Depth			Referencie
1 U	450	400	600/800	258	**BBF 1U40**
1 U	450	600	800	458	**BBF 1U60**

1 U perforated fixed tray

Fixed directly to the front and rear of the 19" rack (not included) (2 sets of fixed 19" racks must be ordered).
Made of 1.5 mm-thick sheet steel, painted to fine texturised RAL-7035 colour. Maximum load 25 kg.

Tray dimensions			For enclosures depth	Distance frame front-back	
Height	Width	Depth			Reference
1 U	450	400	600/800	258	**BBF 1U40P**
1 U	450	600	800	458	**BBF 1U60P**

CMO-OLN

1 U adjustable tray

Fixed directly to the 19" front and rear rack (not included) (2 sets of fixed 19" racks must be ordered).
Made of 1.5 mm-thick sheet steel, painted in fine texturised RAL-7035 colour, fitted with telescopic guides with a securing device.
Maximum load 25 kg.

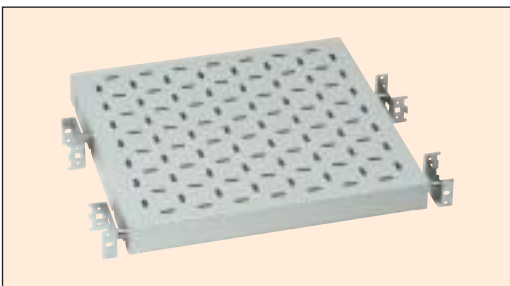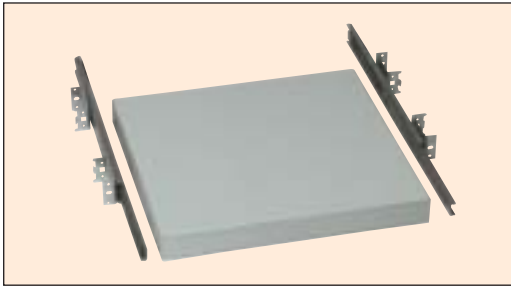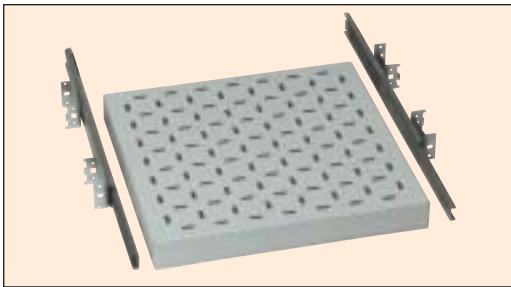| Tray dimensions			For enclosures depth	Distance frame front-back	Reference
Heigth	Width	Depth			
1 U	450	400	600/800	258	**BBT 1U40**
1 U	450	600	800	458	**BBT 1U60**

1 U telescopic perforated tray

Fixed directly to the front and rear of the 19" rack (not included) (2 sets of fixed 19" racks must be ordered).
Made of 1.5 mm-thick sheet steel, painted in fine texturised RAL-7035 colour, fitted with telescopic guides and a securing device.
Maximum load 25 kg.

Tray dimensions			For enclosures depth	Distance frame front-back	Reference
Height	Width	Depth			
1 U	450	400	600/800	258	**BBT 1U40P**
1 U	450	600	800	458	**BBT 1U60P**

Horizontal cable support crossbeam
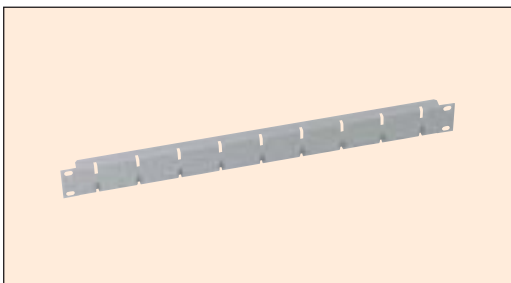
For cable support with adjustable cable ties (**LZ**).
Made of 1.5 mm-thick zinc coated sheet steel. For fitting in depth between the front and back of rack (not included), with **GFR** ref. screws.

No. of units	No. of lodgings	Reference
1	9	**TVA**

19" drawer

To fixed enclosures. Fitted on telescopic guides ref. **GT...** (not included in the standard unit). RAL-7035. Reference: **CS2U400**.

19" fixed guides

Set of 2 guides for fitting directly to the 19" racks and front and back frames (not included). Made of 2 mm-thick zinc coated sheet steel.

Enclosure dimensions			
Length (mm)	Distance frame front-back	Depth (C)	Reference
256	250	400	**GF 256**
356	350	500	**GF 356**
456	450	600	**GF 456**
556	550	800	**GF 556**

19" guides

Set of 2 guides for fitting directly to the front of rack. Made of 2 mm-thick zinc coated sheet steel. Reference: **GB/140**.
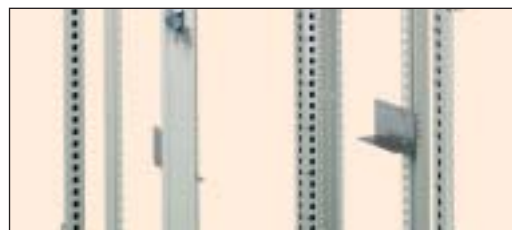
Telescopic 19" guides

Set of 2 guides for fitting directly to the front and rear of fixed racks (not supplied).

Enclosure dimensions Depth (C)	Reference
600	**GT 40**
800	**GT 60**

1 U Schucko line protection switched socket block

Horizontal and vertical position
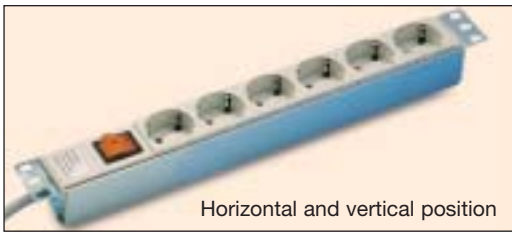
Double pole distribution socket block with 16 A switch. Rated voltage 250 V-2 metre cable (3 × 1.5 mm²) with 2F+T 10/16 A 250 V plug. 2 flat mounting supports and fasteners included.

No. of bases	Length (L) mm	Reference
6	440 (19")	**ZDBE 6I**
8	440 (19")	**ZDBE 8IN**
12	704	**ZDBE 12I**
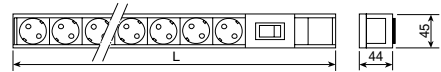
1 U Schucko line protection socket block

Double pole distribution socket block with line protection. Rated voltage 250 V 2-metre cable (3 × 1,5 mm²) with a 2F+T 10/16 A 250 V plug. 2 flat mounting supports and fasteners included.

No. of bases	Length (L) mm	Reference
6	440 (19")	**ZDBE 6P**
12	704	**ZDBE 12P**
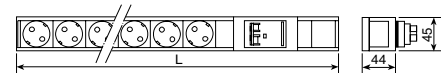
Metal cable guides

Vertical cable guides for fitting to 19" racks. Made of 2 mm-thick stainless steel sheet, RAL-7035 colour.
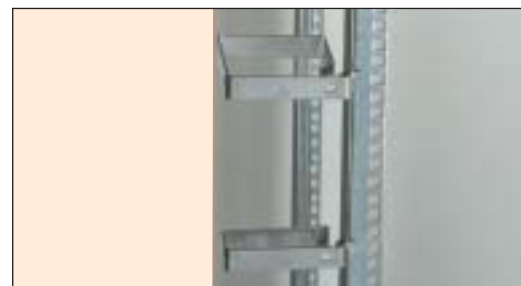
Dimensions (mm)	To fit to enclosures width	Reference
40 × 100	600/800	**GC 4**
100 × 100	800	**GC 10**

Insulating cable guide

Insulating cable guide, for fixing to the 8.5 mm rectangular perforations (19" racks).
Adaptor for fixing the cable guides to the 6 × 5.4 mm holes.
Reference: **AD/GCA**.

AD/GCA

GCA...
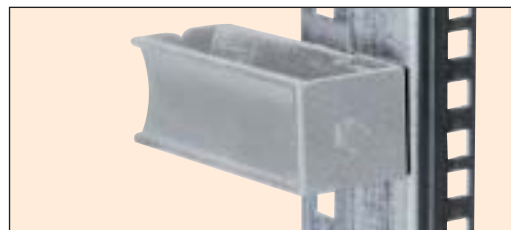
Dimensions (mm)	Reference
40 × 60	**GCA 46**
40 × 100	**GCA 410**
100 × 100	**GCA 1010**

Hardware set

Set composet of:
1 screw.
1 washer.
1 nut.
Reference: **GFR**.

Adjustable stands

Set of four stands.
Reference: **PRON**.

min. 55
max. 80
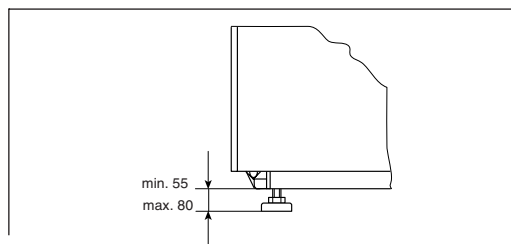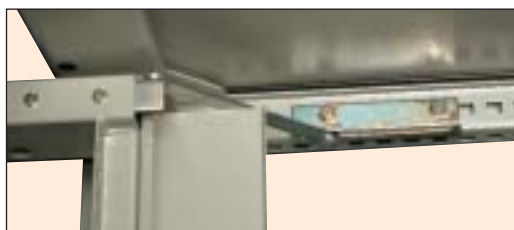
19" door retainer

To fix to **BRP.../OL** 19" rack.
120° opening.
Reference: **RET/BON**.

180° 19" door retainer

To fix to **BRP.../OL 180** rack.
Reference: **RETN/BON 180**.

19" front cover handles

For fixing to front cover plates.

Heigth	Reference
99	**ASR 3U**
156	**ASR 6U**

BUSBAR SYSTEMS
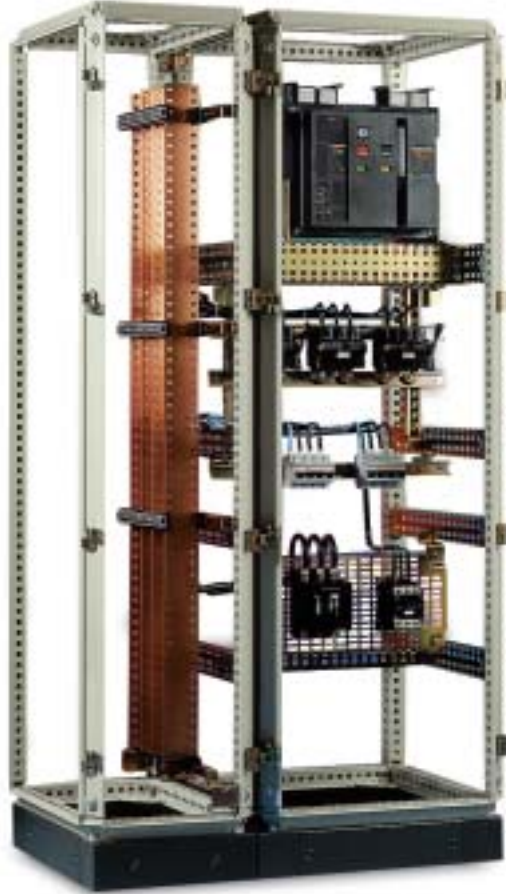
630 A busbar supports

To fit directly to the uprights of any **OLN** cubicle.
■ Maximum current intensity 630 A.
■ Work out according to the table below the bar cross section and the distance between supports depending on current intensity and short circuit value respectively.

To fit to cubicle nominal Width (B) or Depth (C)	Reference
400	**SEM/OL 400**
500	**SEM/OL 500**
600	**SEM/OL 600**
800	**SEM/OL 800**

					Max. distance depending on short circuit value								
Rated current IP55 In (A)	No. of bars per phase	(mm)	Cross section (mm²)	Icc (kA.):	12	23	30	39	52	66	69	Neutral (mm)	Earth (mm)
200	1	12 × 5	60	mm:	525	525	525	400	250	-	-		
250	1	12 × 5	75	mm:	575	575	575	450	325	-	-		
320	1	20 × 5	100	mm:	600	600	600	475	350	150	-	12 × 5-10	
390	1	25 × 5	125	mm:	600	600	600	475	350	150	-	15 × 5-10	6 × 3
440	1	30 × 5	150	mm:	650	650	650	650	525	400	350	20 × 5-10	10 × 3
500	1	20 × 10	200	mm:	675	675	675	525	350	150	-	25 × 5-10	10 × 6
600	1	30 × 10	300	mm:	675	675	675	600	475	325	275	30 × 5-10	10 × 6

1,600 A busbar supports

To fit directly to the uprights of any **OLN** cubicle.

■ Maximum current intensity 1600 A.
■ Work out according to the table below the bar cross section and the distance between supports depending on current intensity and short circuit value respectively.

To fit to cubicle nominal Width (B) or Depth (C)	Reference
400	**SEP/OL 400**
500	**SEP/OL 500**
600	**SEP/OL 600**
800	**SEP/OL 800**

S = bar height.

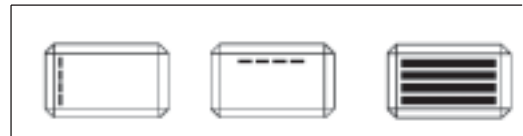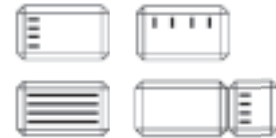|	Rated current IP55 In (A)	Numer of bars per phase	(mm)	Cross section (mm³)	Icc (kA.):	Max. distance depending on short circuit value						
						12	23	30	39	52	66	69
	600	1	50 × 5	250	mm:	475	250	200	150	100	75	75
	700	1	60 × 5	300	mm:	550	275	225	150	125	100	75
	900	1	80 × 5	400	mm:	625	325	250	175	125	100	100
	1000	2	50 × 5	500	mm:	1000	725	575	425	275	125	150
	1050	1	100 × 5	500	mm:	725	375	275	225	150	125	125
	1150	2	60 × 5	600	mm:	1000	850	675	500	275	175	150
	1200	1	125 × 5	625	mm:	850	425	325	250	175	150	125
	1450	2	80 × 5	800	mm:	1000	975	775	525	300	175	175
	1600	2	100 × 5	1000	mm:	1000	1000	875	575	300	200	175
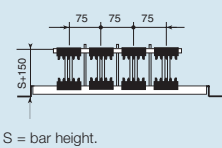
Busbar end cover
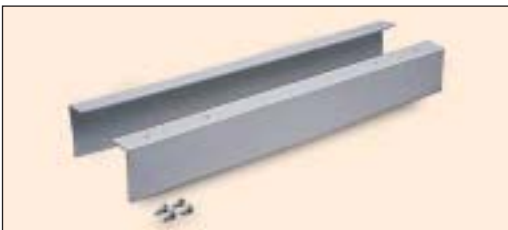
Busbar end protection with direct fixing to insulating blocks.

To fit to busbar	Reference
630 A	**TFE 630**
1250 A	**TFE 1250**

Top/bottom busbar chambers

■ Conceived to protect and support the sets of horizontal bars.
■ The busbar chambers allow the new power points per terminal and insulate the sets of bars from the rest of the equipment.
■ For assembly inside the enclosure, top or bottom.
■ The busbar chambers are supplied without side panels.

External dimensions mm			
Height	Width	Depth	Reference
300	300	500	**CE 3050 N**
300	300	600	**CE 3060 N**
300	300	800	**CE 3080 N**
300	400	500	**CE 4050 N**
300	400	600	**CE 4060 N**
300	600	500	**CE 6050 N**
300	600	600	**CE 6060 N**
300	600	800	**CE 6080 N**
300	800	500	**CE 8050 N**
300	800	600	**CE 8060 N**
300	800	800	**CE 8080 N**
300	1200	500	**CE 12050 N**
300	1200	600	**CE 12060 N**

OLN

Top/bottom busbar chamber panels

Set of 2 side panels to be fitted to top and bottom busbar chambers.

Busbar chamber + sides + eye-bolts.

External dimensions mm		
Height	Width	Side panels reference
300	500	**2LCE50**
300	600	**2LCE60**
300	800	**2LCE80**

Side busbar chambers

■ Conceived to protect and support the sets of vertical bars.
■ The busbar chambers allow the new power points per terminal and insulate the sets of bars from the rest of the equipment.
■ For assembly on any side of the enclosure.

Measurements enclosure in mm			
Height	No. of units	Width	Reference
2000	300	500	**OLN 203/50**
2000	300	600	**OLN 203/60**
2000	300	800	**OLN 203/80**
2000	400	500	**OLN 204/50**
2000	400	600	**OLN 204/60**

Note: for busbar supports, see previous page.

Bolted externally or internally side panel

Set of 2 side panels to be fited externally or internally to the enclosure. Made of sheet steel, painted with textured polyester-epoxy resin to RAL-7032.
■ Fully gasketed and supplied with screws required for fixing.

Measurements enclosure (mm)		Reference	
Height	Depth	Outside fixing	Inside fixing
2000	500	**2PLOL205**	**2PLIOL205**
2000	600	**2PLOL206**	**2PLIOL206**
2000	800	**2PLOL208**	**2PLIOL206**

Note: for busbar supports, see previous page.

BBH bimetal terminals
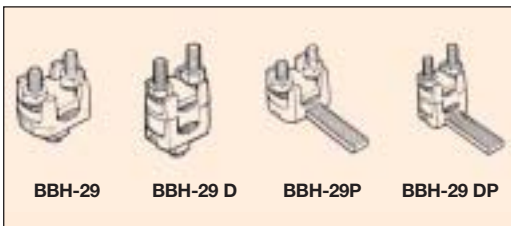
Terminals specially designed for the diversion of cables and connection of busbars. BBH terminals are made of a copper alloy. Hot stamped and tin-plated, suitable to connect a copper or aluminium conductor (bimetallic).

BBH-29   **BBH-29 D**   **BBH-29P**   **BBH-29 DP**

Reference	Main cross section mm²	Diversion cable cross section mm²
BBH-29P	6-50	-
BBH-29 PC*	6-50	-
BBH-29 DP	6-50	6-50
BBH-29 DPC*	6-50	6-50

* Terminal cover CBBH-29 included.

Reference	Main cross section mm²	Diversion cross section mm²
BBH-29	6-50	-
BBH-29 C*	6-50	-
BBH-30	10-95	-
BBH-31	16-150	-
BBH-32	50-240	-
BBH-29 D	6-50	6-50
BBH-29 DC*	6-50	6-50
BBH-30 D	10-95	10-95
BBH-31 D	25-150	16-150
BBH-32 D	95-240	5-240

Plate/cable diversion terminals

Entry through plate and cable, plate or terminal diversion.

| Reference	Entry plate thickness mm	Diversion cable cross section mm²	Fig. no.
BTN 25	15	16	1
BDA 25	15	16	2
BPC 1550	15	50	3
BPC 2050	20	50	3
BPC 3050	30	50	3
BCT 15/20	15/20	95	4

Three pole diversion terminals

Plate entry and cable diversion (for EMH-630 and EMV-630 busbars).

Reference	Entry plate thickness mm	Diversion cable cross section mm²
BTE 630	12 × 30	35 × 120
TBT 630	BTE 630 terminal cover	

Terminal blocks
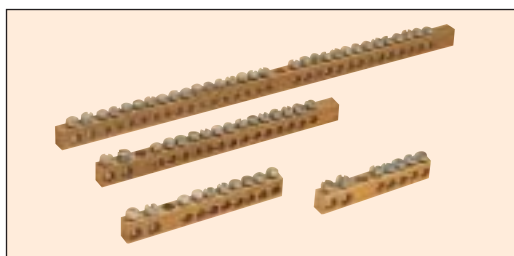
For the diversion of neutrals and earth wires.
- **RBL** models to fit to COMBINORM - DSU - DTU, insulating bottom cases, in the holes prepared for their fixing.
- **RBLZ** models with insulating base to fit onto a 12 × 2 mm profile in the DSU - DTM - CRD/CMD, models, already prepared for fixing of these terminal blocks.
- **RBL/416286 K** model made up of two RBL/216146 M terminals mounted on a bakelite bar, which makes it possible to place the standard supply terminal, RBL/21656 M, on the centre. This allows a total of 6 16 mm² terminals and 33 6 mm² terminals to fit to DSU 15 and 30 modules insulating bottom cases.

Reference	Quantity of terminals × cross section mm²	To fit to boxes / enclosures
RBL/21656 M	2 × 16 mm² + 5 × 6 mm²	COMBINORM - DSU - DTU
RBL/21686 M	2 × 16 mm² + 8 × 6 mm²	COMBINORM - DSU - DTU
RBL/216146 M	2 × 16 mm² + 14 × 6 mm²	COMBINORM - DSU - DTU
RBL/216296 M	2 × 16 mm² + 29 × 6 mm²	COMBINORM - DSU - DTU
RBLZ/21656	2 × 16 mm² + 5 × 6 mm²	DSU - DTM - CRD/CMD
RBLZ/21686	2 × 16 mm² + 8 × 6 mm²	DSU - DTM - CRD/CMD
RBLZ/216146	2 × 16 mm² + 14 × 6 mm²	DSU - DTM - CRD/CMD
RBLZ/216296	2 × 16 mm² + 29 × 6 mm²	DSU - DTM - CRD/CMD
RBLZ/416286 K	2 × 16 mm² + 14 × 6 mm²	DSU

OLN

Distribution terminals
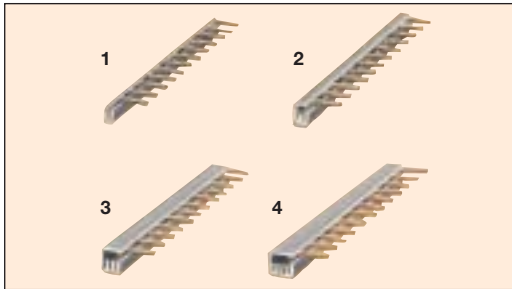
For the distribution in the same row of a total of 12 automatic modules.

Reference	No. of bars	No. of poles per bar	Fig. no.
BDS 1/12	1	12	1
BDS 2/6	2	6	2
BDS 3/4	3	4	3
BDS 4/3	4	3	4
BAP 25	25 mm² cross section		5
BAH 25	25 mm² cross section		6

Adjustable cable ties

Made of 6.6 nylon in natural colour or in black for inclemency.
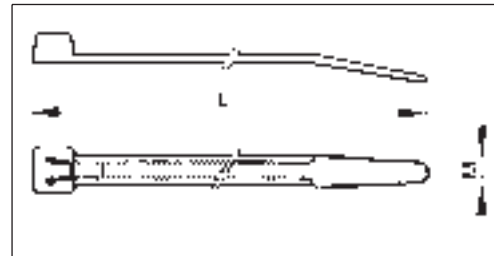
To use for				Reference	
∅ min.	∅ max.	L	M	White	Black
1.6	22	100	2.5	LZ25100	LN25100
1.6	49	200	2.5	LZ25200	LN25200
1.6	35	150	3.5	LZ35150	LN35150
1.6	49	200	3.5	LZ35200	LN35200
1.6	75	300	3.5	LZ35300	LN35300
1.6	36	150	4.6	LZ46150	LN46150
1.6	49	200	4.6	LZ46200	LN46200
1.6	73	270	4.8	LZ48270	LN48270
1.6	109	390	4.6	LZ46390	LN46390
4.7	108	390	7.6	LZ76390	LN76390

Cable tie base

It allows the insertion of 1 cable tie from 4 points in a 90° angle. Cable ties trom series **LZ25100** to **LZ46390** can be coupled. Material 6.6 nylon.

adhesive support
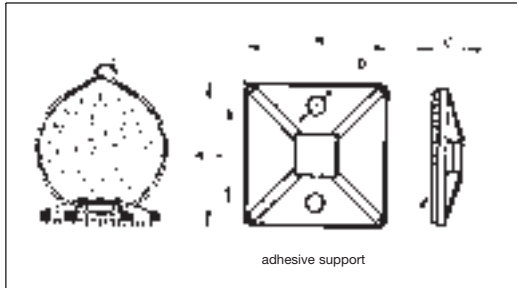
Ties width	A	B	C	D	E	Reference
2.5÷3.5	19.1	19.1	4.8	3.2	13.2	**MB3A**
2.5÷4.8	28.5	28.5	5.5	4	20.2	**MB4A**

ACCESSOIRES AND COMPLEMENTS LOCKING SYSTEM
BUILT INTO THE DOORS OF JOINED ENCLOSURES

Ref. **ENBAR60**
ENBAR80
ENBAR100

Ref. **ENPUS**

Ref. **ENCIN**
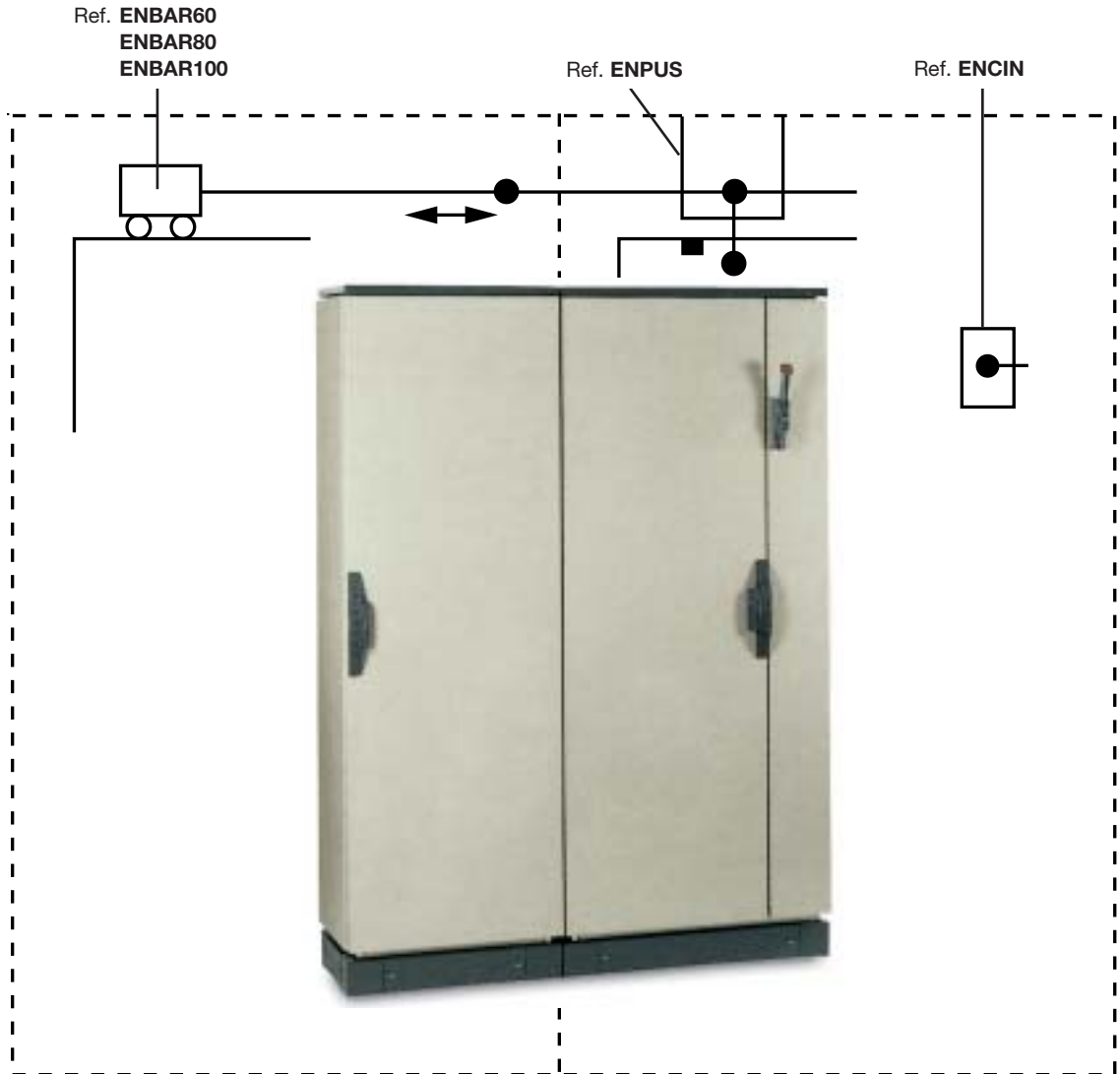
Made to be associated to same breakers or switches:

– Allen Bradley (**1494 VH11**),

– Square D (**9422 A1**),

– Siemens (**FH0H**),

– Telemecanique.

The integrate safety locking system for "incoming" and "outgoing" enclosure doors makes it possible to adapt the **OLN**… enclosures to American standards (automobiles).

■ How they work: the "incoming" enclosure doors is locked by means of the breaker control or main switch. A built-in locking system with sliding rods forces the opening of the doors of the "outgoing" enclosures. Access is only possible when the incoming organ is at the "ON" position, the incoming door open, and the remaining rods are manually unlocked and access given.
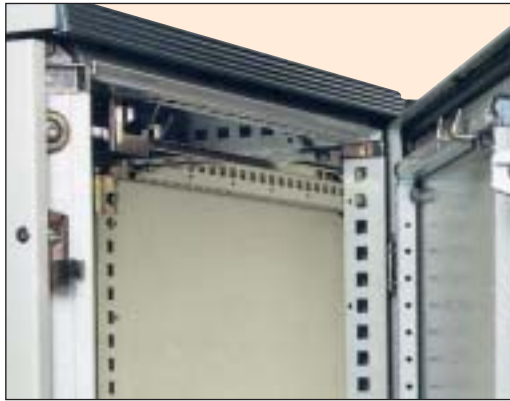
		Height (A)	Depth (C)
		ENCIN	Locking kit lock main enclosure
		ENPUS	Locking kit lock secondary doors
		ENBAR60 **ENBAR80** **ENBAR100**	Locking kit lock joining enclosures 600 mm-wide Locking kit lock joining enclosures 800 mm-wide Locking kit lock joining enclosures 1000 mm-wide

Cross rails Lütze chassis
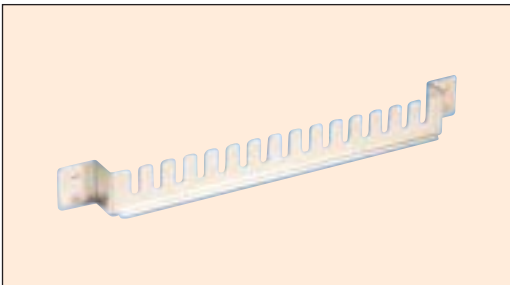
Set of 6 cross rails for fixing and adjusting of Lütze chassis. Made in galvanised sheet steel, thickness 2.5 mm. Fixings for assembly included. To fix them at the back enclosure, use **SFLTZ** supports.

Measurements enclosure Depth (mm)	Reference
400	**SDLTZ40**
500	**SDLTZ50**
600	**SDLTZ60**

CMO-OLN

LOCKS FOR FLOOR STANDING ENCLOSURES

Locks

OLN standard closing mechanism option for **CMO**.
Double bar (supplied as standard).
■ Operated by
LDB/OLN
(in accordance with DIN 43668).

OPTIONAL LOCK INSERTS TO TRANSFORM THE STANDARD LOCK

Type of mechanism using key reference	Reference	Characteristics
	TT 7/OLN	7 mm triangular key
	TT 8/OLN	8 mm triangular key
	TT 9/OLN	9 mm triangular key
	TT 10/OLN	10 mm triangular key
	TCNOMO/OLN	**CNOMO** closing mechanism
	TCNOMO/OLN-2P	Two-door enclosure **CNOMO** closing mechanism
	TC 6/OLN	6 mm square key
	TC 7/OLN	7 mm square key
	TC 8/OLN	8 mm square key
	TC 6H/OLN	6 strand square key
	TC 8H/OLN	8 strand square key
	TDB3/OLN	3 mm two bar
	TEX10/OLN	10 mm hexagonal key
	TS/OLN	Pushbutton closing mechanism
	TFI/OLN	FIAT closing mechanism
	TM24/OLN	2 × 4 coin
	TCOR/OLN	Crown (tubo)
	TAUSA/OLN	Channelled
	TBENZ/OLN	Daimler Benz
	TLR/OLN	Locking catch with reinforced key
	TJIS/OLN	JIS
	TFAC/OLN	Lockable type FAC
	TL/OLN	405 key lock
	TLB/OLN	Locking top part with 405 key
	TLE1/OLN	E1 closing mechanism
	TL421E/OLN	Lockable 421 E
	TL455/OLN	Lockable 455
	TL1242E/OLN	Lockable 1242 E
	TL1332E/OLN	Lockable 1332 E
	TL2131A/OLN	Lockable 2131 A
	TL2132A/OLN	Lockable 2132 A
	TL2331A/OLN	Lockable 2331 A
	TL2433A/OLN	Lockable 2433 A
	TL2452E/OLN	Lockable 2452 E
	TL3113A/OLN	Lockable 3113 A
	TL3122E/OLN	Lockable 3122 E
	TL3123A/OLN	Lockable 3123 A
	TL3133A/OLN	Lockable 3133 A
	TL3422E/OLN	Lockable 3422 E
	TL3432E/OLN	Lockable 3432 E
	TL1300/OLN	Lockable EDF 1300
	TL1400/OLN	Lockable EDF 1400
	ABDIN/OLN	Adapted DIN barrel lock
	ABKABA/OLN	Adapted KABA barrel lock
	ABASSA/OLN	Adapted ASSA barrel lock
	MCS/MICH8376	MICHELIN-type handle-operated closing mechanism
	MCS/MICH8079	MICHELIN-type handle-operated closing mechanism
	MCS/MICH8133	MICHELIN-type handle-operated closing mechanism

Optional flat lock
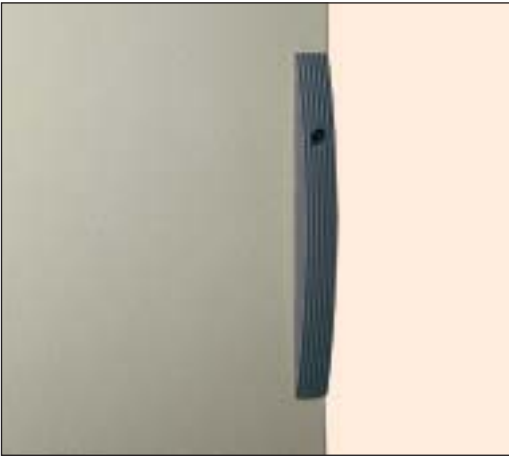
EMP/OLN
Optional **CMO** standard closing mechanism for **OLN**.
Standard two bar mechanism
(supplied as standard).
■ Operated by:
□ **LDB 5** key
(in accordance with DIN 43668).
■ For conversion to closing mechanisms for internal doors **PIL** see enclosure closing mechanisms section **CRN**.
■ For conversion of closing mechanisms of enclosures for PC applications or motor control centres see panel closing mechanism section **PK**.
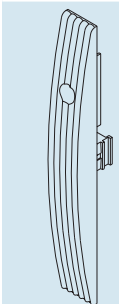
OPTIONAL LOCK INSERTS TO TRANSFORM THE STANDARD LOCK

Type of mechanism using key reference			Reference	Characteristics
			TPDT7/OLN	7 mm triangular key
			TPDT8/OLN	8 mm triangular key
			TPDC6/OLN	6 mm square key
			TPDC7/OLN	7 mm square key
			TPC8/OLN	8 mm square key
			TPDB/OLN	5 mm two bar
			TPDES/OLN	Screwdriver slot

Internal doors

OLN 186/60 + PIL 186

OLN 1810602P + PIL 18102P

To fit directly into **OLN** cubicles. Made of sheet steel and painted with poliester-epoxy resin to texturized RAL-7032.

■ Depth adjustable every 25 mm.
■ Reversible door.
■ Reinforcement profiles on the back, punched every 25 mm for mounting of equipment.
■ Double bar ⬡ standard lock. By fixing the wing to the locks, this is transformed into handle lock. Easily change to triangle, square or safety locks. See **CRN** locks.

Side view of internal door installed, with detail of lock.

Dimensions enclosure (mm)			
Height (A)	Depth (B)	D	Reference
1600	600	350	**PIL 166**
1600	800	550	**PIL 168**
1800	600	350	**PIL 186**
1800	800	550	**PIL 188**
1800	1000	700	**PIL 1810**
1800	1000	700	**PIL 18102P***
2000	600	350	**PIL 206**
2000	800	550	**PIL 208**
2000	1000	700	**PIL 2010**
2000	1000	700	**PIL 20102P***
2200	600	350	**PIL 226**
2200	800	550	**PIL 228**
2200	1000	700	**PIL 2210**
2200	1000	700	**PIL 22102P***

* For 2 door enclosures.

C = cubicle nominal depth

CMO-OLN

Mounting profiles

Detail of upper and lower mounting limits

3 rows

2 rows

1 row

| | TML | | TMR |
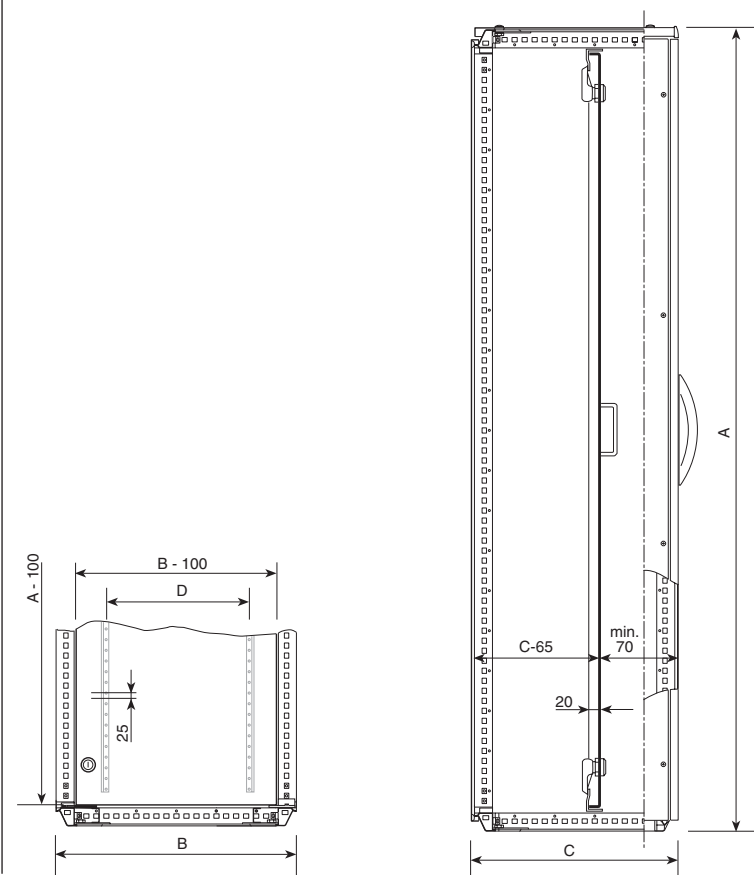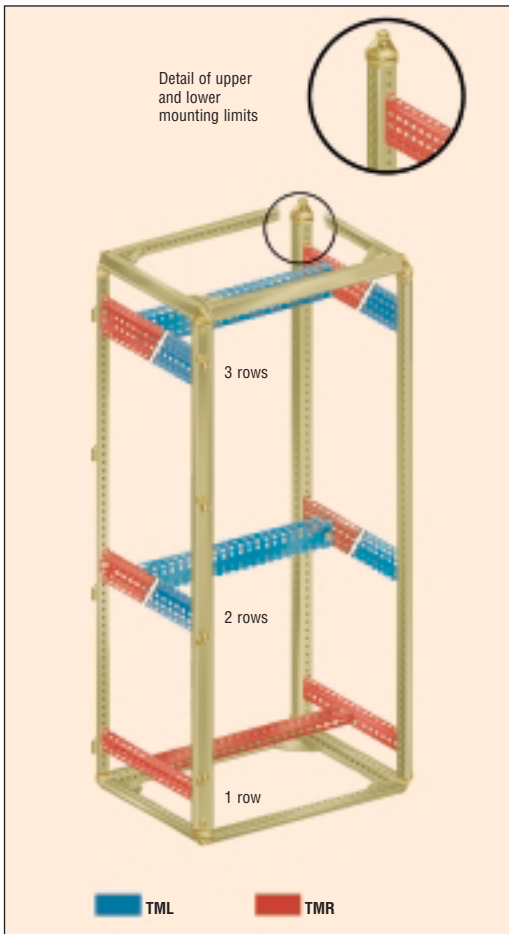
Enclosure width or depth	40 mm wide profile		65 mm wide profile		90 mm wide profile	
400	TML 40/40	TMR 40/40	TML 65/40	TMR 65/40	TML 90/40	TMR 90/40
500	TML 40/50	TMR 40/50	TML 65/50	TMR 65/50	TML 90/50	TMR 90/50
600	TML 40/60	TMR 40/60	TML 65/60	TMR 65/60	TML 90/60	TMR 90/60
800	TML 40/80	TMR 40/80	TML 65/80	TMR 65/80	TML 90/80	TMR 90/80
100	TML 40/100	TMR 40/100	TML 65/100	TMR 65/100	TML 90/100	TMR 90/100
1200	TML 40/120	TMR 40/120	TML 65/120	TMR 65/120	TML 90/120	TMR 90/120
1400	TML 40/140	–	TML 65/140	–	TML 90/140	–
1600	TML 40/160	–	TML 65/160	–	TML 90/160	–
1800	TML 40/180	–	TML 65/180	–	TML 90/180	–
2000	TML 40/200	–	TML 65/200	–	TML 90/200	–

Two ranges available, 40 mm width (1 row), 65 mm width (2 rows) and 90 mm width (3 rows). Enable depth adjustment of equipment supports, 19" rack, etc. Can be combined to form partial supports or horizontal supports for mounting deep equipment.
- **TMR:** access to 4 fixing nuts from outside.
- **TML:** for all kind of assembly.

Direct attachment to framework with **STCMO** brackets.
Delivered in pairs with supports and fixings.

Cross rail brackets

- For mounting profiles in depth.
- Directly fixed to the front of **CMO** enclosure.
- Made of galvanized steel.
  Ref.: **STCMO**.

Partial mounting plate
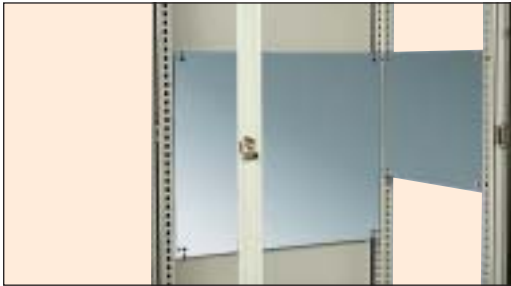
Made of galvanized steel with all edges reinforced. Fixed directly to the enclosure up rights, both at the sides and the back. Depth adjustable by means of **TML** mounting profiles.

Width enclosure (M)	Plate height (H)	Reference
600	247	**PMP 2560**
	397	**PMP 4060**
	597	**PMP 6060**
800	247	**PMP 2580**
	397	**PMP 4080**
	597	**PMP 6080**
1000	247	**PMP 25100**
	397	**PMP 40100**
	597	**PMP 60100**
1200	247	**PMP 25120**
	397	**PMP 40120**
	597	**PMP 60120**
1600	397	**PMP 40160**

Partial perforated mounting plate

Enclosure dimensions		
Width (B)	Plate height	Reference
600	225	**PMR 2260**
	450	**PMR 4560**
	600	**PMR 6060**
	825	**PMR 8260**
800	225	**PMR 2280**
	450	**PMR 4580**
	600	**PMR 6080**
	825	**PMR 8280**
1000	225	**PMR 22100**
	450	**PMR 45100**
	600	**PMR 60100**
	825	**PMR 82100**
1200	225	**PMR 22120**
	450	**PMR 45120**
	600	**PMR 60120**
	825	**PMR 82120**

Side mounting plate

Made of galvanized sheet steel with reinforced edges. Prepared to be mounted at the enclosure sides.

Enclosure dimensions		
Height (A)	Depth (C)	Reference
1800	600	**PMLOL186**
1800	800	**PMLOL188**
2000	600	**PMLOL206**
2000	800	**PMLOL208**
2200	600	**PMLOL226**
2200	800	**PMLOL228**
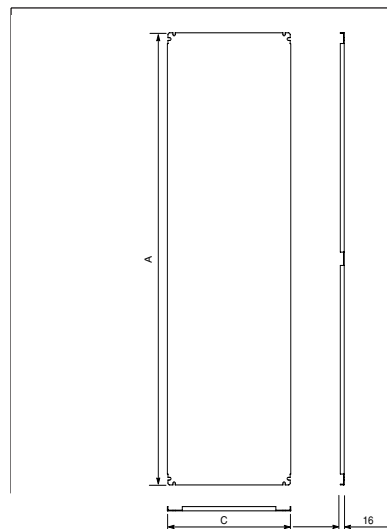
Fixing brackets

Set of 4 fixing brackets to be directly mounted to the enclosure frame work for fixing the mounting plate. Reference: **EDCOL**.

Double rail profile

■ Combines advantages of symmetric and asymmetric DIN rails.
■ Direct fixing to the structure.
■ Level continuity guaranteed in case of juxtaposition of enclosures.
■ Galvanized sheet steel.
■ Sheet thickness: 1.5 mm.

Reference	Width enclosure (mm)	Units pack.
CDP60	600	10
CDP80	800	10
CDP100	1000	10
CDP120	1200	10
CDP200	2000	10
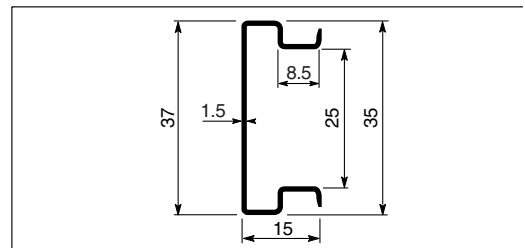
Symmetric DIN rail

■ Direct fixing to the structure.
■ Level continuity guaranteed in case of juxtaposition of enclosures.
■ Galvanized sheet steel.
■ Sheet thickness: 1.5 mm.

Reference guide	Width enclosure (mm)	Units pack.
CSON60	600	10
CSON80	800	10
CSON100	1000	10
CSON120	1200	10
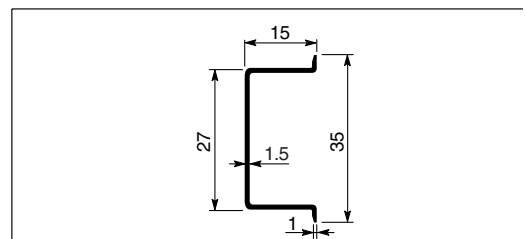
Asymmetric DIN rail

■ Direct fixing to the structure.
■ Level continuity guaranteed in case of juxtaposition of enclosures.
■ Galvanized sheet steel.
■ Sheet thickness: 1.5 mm.

Reference guide	Width enclosure (mm)	Units pack.
CAON60	600	10
CAON80	800	10
CAON100	1000	10
CAON120	1200	10
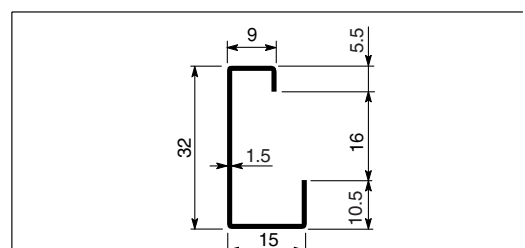
Door cable fixing profile

To fix cables on the inside of the door. Profile bolted to door reinforcement frame and height adjustable every 25 mm.

Cubicle dimensions Width (B)	Reference
600	**TFP/OL 6**
800	**TFP/OL 8**
1000	**TFP/OL 10**

Cable fixing profile

Quick fixing of incoming/outgoing cables. Depth adjustable 25 mm.

Cubicle dimensions Width (B)	Reference
600	**TFC/OL 6**
800	**TFC/OL 8**
1000	**TFC/OL 10**

Fixed tray

Drilled to improve air circulation inside the cubicle.
Painted to RAL-7032.

Cubicle dimensions		
Width (B)	Depth[1] (C)	Reference
600	400	**BFOL 64**
600	600	**BFOL 66**
800	400	**BFOL 84**
800	600	**BFOL 86**

Max. load 25 kg.
(1) Can be fitted in more depth enclosures by means of **TML 40/...** cross rails (to be ordered separately).

Adjustable tray

Drilled to improve air circulation inside the cubicle. Painted to RAL-7032.

Cubicle dimensions		
Width (B)	Depth[1] (C)	Reference
600	400	**BDOL 64**
600	600	**BDOL 66**
800	400	**BDOL 84**
800	600	**BDOL 86**

Max. load 20 kg.
(1) Can be fitted in more depth enclosures by means of **TML 40/...** cross rails (to be ordered separately).

Folding plan tray

Made of sheet steel. Painted to grey RAL-7032. Direct fixing to door reinforcement frame and adjustable in height every 25 mm. 4 different positions.

Cubicle dimensions	
Width (B)	Reference
600	**BSP/OL 6**
800	**BSP/OL 8**
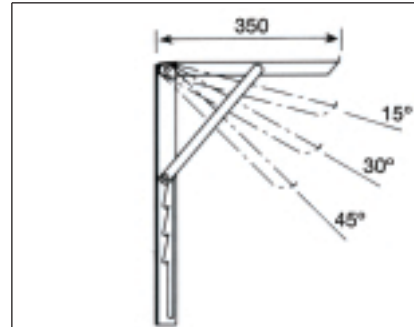
Aluminium doors

Transparent doors with polycarbonate visor made of a highly-resistant special anodized aluminium profile. Colour RAL-7013.
■ Maximum inside visibility.
■ High-quality finishing.
■ 120° opening.
■ Standard **OLN** double-bar lock.

To fit to enclosures			
Height (A)	Width (B)	Reference	Weight kg
1800	600	**PAOL 186**	11
1800	800	**PAOL 188**	13
1800	600	**PAOL 1810**	15
2000	800	**PAOL 206**	13
2000	1000	**PAOL 208**	14
2000	1000	**PAOL 2010**	16

Protection frames for controls

Made of anodized aluminium. Neoprene gasket. Hinges for direct fixing to door and key lock supplied.

Height (H)	Width (M)	Reference
400	400	**MA-44**
400	500	**MA-45**
400	600	**MA-46**
500	500	**MA-55**
600	600	**MA-66**
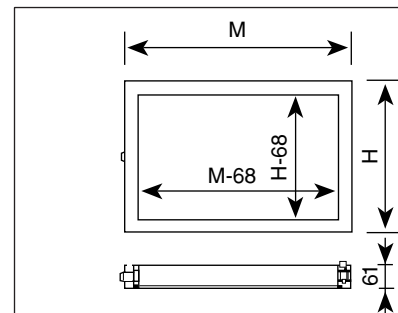
Diagram pockets
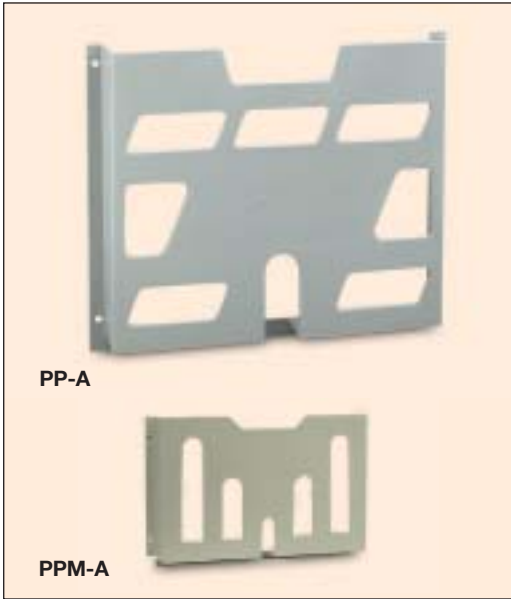
PP-A models of **PS** to grey RAL-7035.
■ Adhesive fixing or by means of screws.
For DIN A3, A4 or A5 sized documents.

PPM-A models made of sheet steel and painted to light grey RAL-7032.
■ Fixing to door reinforcement frame by means of screws.

PP-A

PPM-A

INSULATING		METAL	
Document size	Reference	Cubicle dimensions Width (B)	Reference
A4	**PP-A4**	600	**PPM-A3/6N**
A5	**PP-A5**	800	**PPM-AE/8N**

174 / 188 / 22
Ref.: PP-A5

234 / 278 / 40
Ref.: PP-A4

B-150 / 281
Ref.: PPM-A3/...N
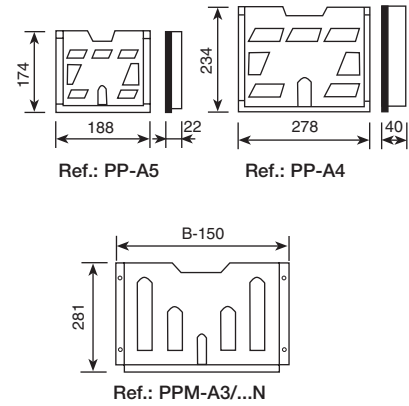
180° opening hinges

Made of anodized aluminium in black. Ready to fit to both standard and glazed doors.
Reference: OLN: **BEN 180**
CMO: **BEM 180**

180°
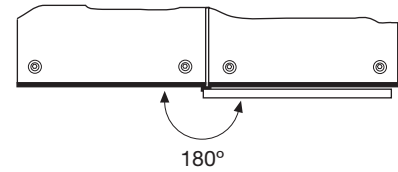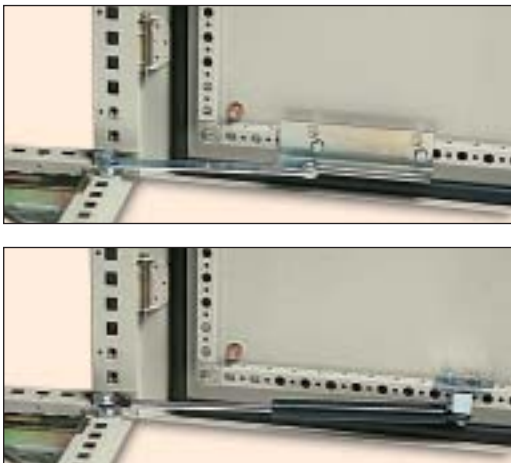
Door retainer

Mechanical and pneumatic door and 19" rack retainers to fit directly to the cubicle structure.
■ Easy mounting.
■ 90° up to 120° opening depending on models.
■ For **19" Rack** retainers see page 1/129.

Features	Reference
Mechanical retainer with 2 posiciones (90° and 120°) for standar door (hinges on the right)	**RET/OL**
Same as above with hinges on the left	**RET I/OL**
Pneumatic retainer with 90°/120° opening	**RETN/OL**

Castors

Set of 4 castors, two of them with brakes. Easy quick fixing.
Reference: **RUT/ZUN**.

Max. load:
75 kg per castor.

110

Ø 80
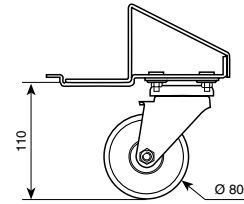
Eyebolts

M12 lifting eyebolts bolted directly to the cubicle structure.
Reference: OLN: **TLN/12**
CMO: **TMO/12**

Set of 2 eyebolts.

Ø 29

55

M.12

CMO-OLN
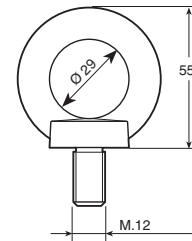
Enclosure lighting

Compact fluorescent lamps, specially designed for their use in enclosures. Possibility to fix them with magnet.

- Voltage 220 V/50 Hz.
- Consumption 11 W.
- Power on/off switch.
- Earthed 200 V/16 A plug.
- Max. ambient temperature: 60 °C.
- Lighting performance + 75 W bulb.

Characteristics	Reference	Plug	Voltage
Lamp with magnet or 35 mm symmetrical DIN rail fixing	LAM-75	220 V/16 A	220 V/50 Hz
Lamp with 35 mm symmetrical DIN rail fixing	LAC-75	220 V/16 A	220 V/50 Hz
Lamp with magnet or 35 mm symmetrical DIN rail fixing	LAM-75/120	120 V/15 A	120 V/60 Hz
Lamp with 35 mm symmetrical DIN rail fixing	LAC-75/120	120 V/15 A	120 V/60 Hz

Enclosure lighting

Incandescent lamp specially designed to be used in electric enclosures.
- Connection current: 220 V/50-60 Hz.
- Consumption: 60 W.
- Power on/off switch.
- Entry connection terminal.

Reference
LAI/OL 68

Enclosure lighting

1

2

3

4

Lighting specially designed for use in electrical enclosures with various types of fixing and switching.
- Electronic low consumption lamp E27, 20 W, 220 - 240 V/50-60 Hz or 120 V/60 Hz.
- Output equivalent to a 100 W bulb.
- Delivered with power supply cable with either plug and socket (portable inspection lamp), or 2.5 mm² screw terminal block.
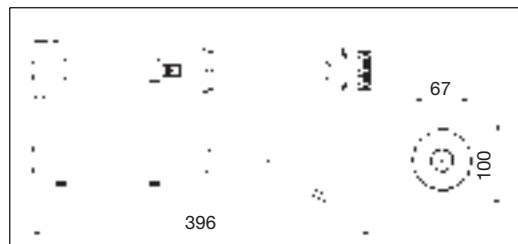
- IP20 rating.
- Type II insulation.
- According to standards EN 55014 and EN 50082-1.

67
100
396

Description	Fixing	Figure	Reference	Voltage
Proximity switch operated	Magnetic, screws and or DIN 35 rail (1)	1	**LAMDP**	220 V/56 Hz
			LAMDP 120	120 V/60 Hz
ON/OFF switch with optional door switch	Magnetic, screws and or DIN 35 rail (1)	2	**LAMIN**	220 V/50 Hz
			LAMIN 120	120 V/60 H
Portable lamp, cord connection	Adhesive or screws	3	**LAMPO**	220 V/50 Hz
			LAMPO 120	120 V/60 Hz
Lamp support for **LAMDP**, **LAMIN**, **LAMPO**	Adhesive or screws (1) DIN rail not included	4	**SOLAM**	

(1) DIN rail not supplied as standard.

Door switch

INL: Supplied with support and screws for direct fixing to the cubicle structure.
■ Can be connected to lamp, thermal controls...

INL/BRP: Supplied with support and screws for direct fixing to the cubicle structure.
■ Can be connected to swing 19" rack (120° or 180°).

DOOR SWITCH	
Features	Reference
Door In = 10 A switch	**INL**

19" RACK SWITCH	
Features	Reference
Door In = 10 A switch	**INL/BRP**

Earthing braids

CTI earthing leads made in copper/brass and yellow/green PVC insulation.

CTAF earthing braids made in tinned copper. Ensure adequate connections to earth for high frequencies, since it is at these frequencies that electrical interference is likely.

Lenght mm	Width mm	Cross section mm²	Eyelet hole ⌀ mm	Reference
170	-	6	6.4	**CTI 17/6**
170	-	10	6.4	**CTI 17/10**
220	-	6	6.4	**CTI 22/6**
220	-	10	6.4	**CTI 22/10**
220	-	25	8.3	**CTI 22/25**
410	-	10	8.3	**CTI 41/10**
410	-	25	8.3	**CTI 41/25**
155	20	16	8.5	**CTAF 15/16**
200	21	25	8.5	**CTAF 20/25**
200	26	25	8.5	**CTAF 25/25**
200	40	50	8.5	**CTAF 20/50**

Nuts and screws

| TFP | TDC | TDE | TDM | TNS | TLD | TOR | TOR 16/5 AT |
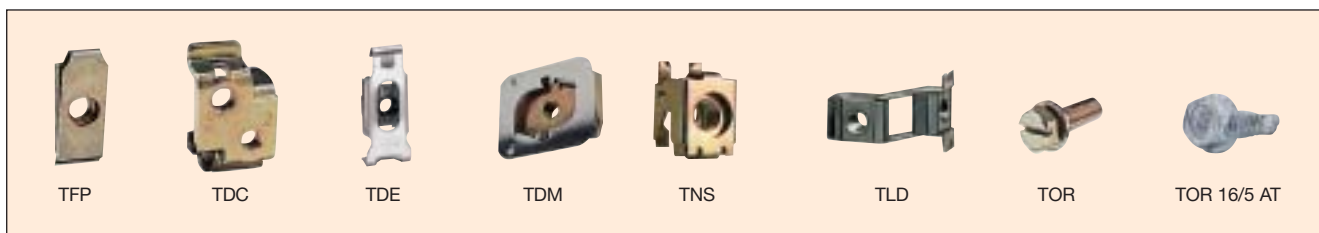
	Nuts for fixing of equipment			Nuts for mounting on cubicle structure		
Thread	**PMR** mounting plates and **MOL** profiles	**CDP** Double rails	**MOL** Profiles	Single nut	Double nut
M3	**TFP 3**	**TDC 34**	-	-	-	
M4	**TFP 4**	**TDC 34** **TDE 4**	-	-	-
M5	**TFP 5**	**TDC 56** **TDE 5**	-	-	-
M6	**TFP 6**	**TDC 56** **TDE 6**	**TDM 6**	**TNS 6**	**TLD 6**
M8	-	- -	**TDM 8**	**TNS 8**	**TLD 8**

FIXING SCREW AND WASHER		
Thread	Lenght (mm)	Reference
M4	10	**TOR 10/4 A**
M4	16	**TOR 16/4 A**
M5	12	**TOR 12/5 A**
M5	18	**TOR 18/5 A**
M6	12	**TOR 12/6 A**
M6	16	**TOR 16/6A**
M6	18	**TOR 18/6 A**
M8	16	**TOR 16/8 A**
M8	20	**TOR 20/8 A**
Self-tapping	16	**TOR 16/5 AT***

* Self-tapping metal screw with washer.

Fixing accessories

Support to fit directly to the 11×13 mm drillings of cubicle uprights and TML.
Reference: **STON**.

Spray paint

Features	Reference
Colour RAL-7032 contents 150 g	**BPA-7032**

Top ventilation liftings

Set of 4 top ventilation liftings, references.
■ Roof height: 14 mm.
Reference: **VET 12**.

Blanking cap base

■ Makes the base of the plinth-mounted or floor standing enclosure fully watertight.
Reference: **TPOB**.

Single support for side panel

■ For mounting side panels on enclosures joined at the back or if there are no rear panels.
■ Supplied with screws.
Reference: **SPON**.

Door recentering castor

For recentering door as it closes.
Max. load: 60 kg
per door.
Reference: **CP/CMOL**.

Heavy duty cross rails

Set of 2 cross rails for use with loads distributed across both rails. Attachment possible with cable gland plate and mounting plate fitted.

Reference	Width enclosure (mm)	Load (kg)
TMP40	400	250
TMP50	600	200
TMP60	800	175
TMP80	1000	150

Monobloc control desks

PK & PKP

The removal of the front upright allows for a complete access to the inside of the control desks.

A pneumatic retaining stay facilitates opening of the top of the control desk and prevents it dropping down unexpectedly.

These control desks are equipped with side cross-rails providing support, depth adjustment and fixing for the different equipment mounting accessories through the use of perforations at 25 mm pitch.
Installation of two chassis back-to-back is very easy and provides space for maximum of equipment.

PK: back panel.

PKP: removal back panel.

The cable entry gland plates at the bottom of the control desk are in two sliding parts to optimise cabling. An adhesive gasket can be added to these plates to ensure dust and damp protection.

Changing the direction of opening of the doors is fast and does not require special tools through the use of screw-fixed hinges.

Modular console for **PKP** control desk.

for customised solutions

PKP... /F

The closing system uses a 5 mm double bar. A wide range of lock combinations is available in the form of accessories.

Upper mounting plate.

Bottom mounting plate.

And accessory is available to support the screen.

The operator panels of the main part of the control desk and the console are equipped with vertical rails for mounting equipment or securing the cables.

Cross rails can be used to accommodate the same component mounting accessories as those used for our standard enclosure ranges.

PK

MONOBLOC METAL CONTROL DESKS WITH FIXED REAR PANEL
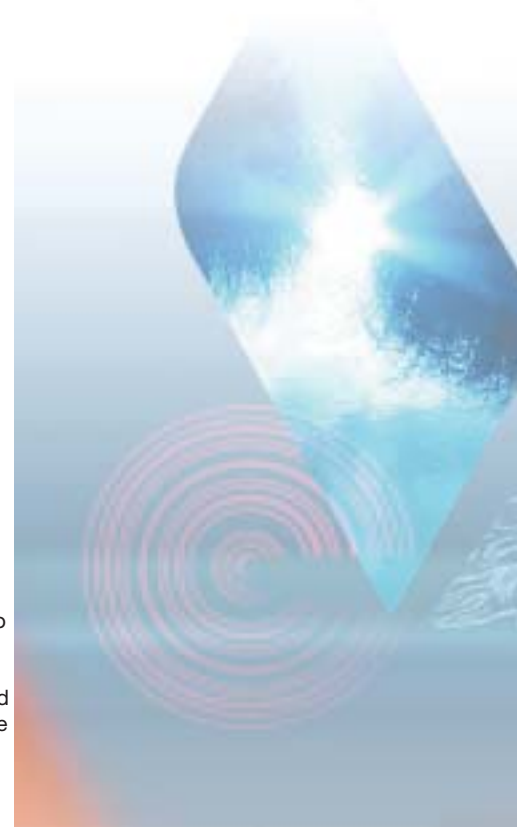
IP55 (EN 60529)

PK 80-PM + ZUN 84/100

Monobloc sheet steel control desks. Single-piece back and sides. Total accessibility thanks to intermediate crossbeam-free design. Protected on outside and inside with textured grey polyester-epoxy to RAL-7032.

- Mechanical retention support top front and pneumatic on console making opening easier, and preventing abrupt openings leading to falls.
- Double-bar locks on doors.
  Can easily be changed to triangular, square or key lock.
- Angular reinforcement on panel to facilitate the fixing of gear, with drillings every 25 mm, with drill holes of Ø 4.25 mm.

- Earthing on door, body and mounting plate.
- 100 mm or 200-mm high U plinth in anthracite grey RAL-7022.
- Cable gland plate with maximum cable access.
- Galvanised steel mounting plate, adjustable at 25 mm.

Basic configuration:
- Plain front door.
- 3 mm double bar locking system.
- 4 plate support brackets.
- Mounting plate (only **PK...PM** references).
- Cable gland plate.

MODELS, SIZES AND REFERENCES

External dimensions (mm)			Control desks			Metal mounting plates		Plinths	
Height (A)	Width (B)	Depth (C)	Without mounting plate	With mounting plate	No. of doors	Reference	Universal mounting plates	Heights 100 (mm)	Heights 200 (mm)
1024	600	466	PK 60	PK 60-PM	1	PMPK-8560	PMR-6760	ZUN 64/100	ZUN 64/200
1024	800	466	PK 80	PK 80-PM	1	PMPK-8580	PMR-6780	ZUN 84/100	ZUN 84/200
1024	1000	466	PK 100	PK 100-PM	2	PMPK-85100	PMR-67100	ZUN 104/100	ZUN 104/200
1024	1200	466	PK 120	PK 120-PM	2	PMPK-85120	PMR-67120	ZUN 124/100	ZUN 124/200

Dimensions (mm)

FIG. 1

PK control desks

A Mounting plate

1 Maximum opening 56 mm

IP55 (EN 60529)
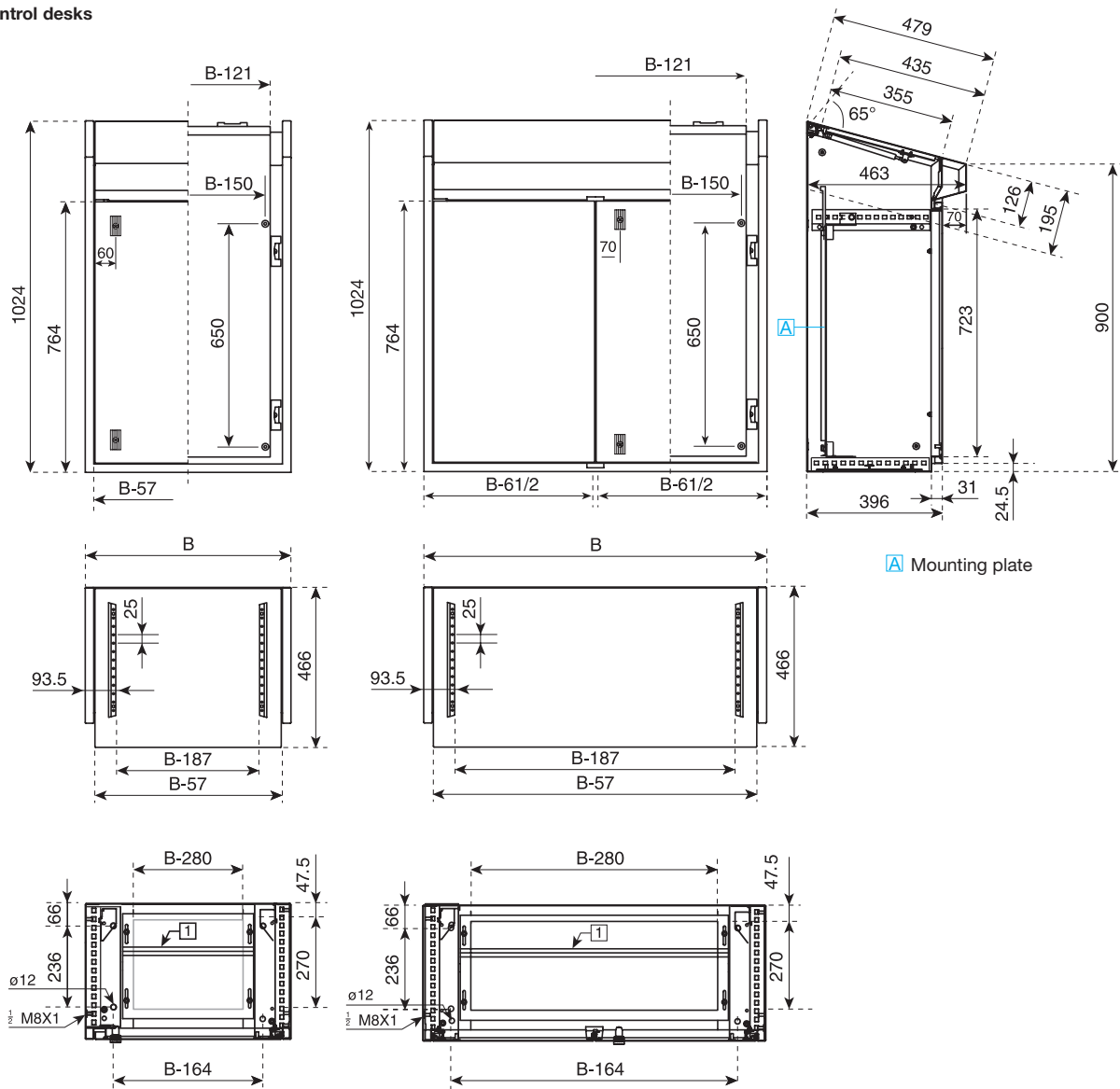
PKP 80-PM + ZUN 85/100

Monobloc sheet steel control desks. Total accessibility thanks to intermediate crossbeam-free design. Protected on outside and inside with textured light grey polyester-epoxy to RAL-7032.

- Mechanical retention support top front and pneumatic on console making opening easier, and preventing abrupt openings leading to falls.
- Double-bar locks on doors can easily be changed to triangular, square or key lock.
- Rear panel with screw fixing, with positioners for easy and quick assembly.
- Angular reinforcement on panel to facilitate the fixing of gear, with drillings evvery 25 mm, with drill holes of Ø 4.25 mm.

- Earthing door, body, mounting plate and rear panel.
- 100 mm or 200-mm high U plinth in anthracite grey RAL-7022.
- Cable gland plate with maximum cable access.
- Galvanised steel mounting plate, adjustable at 25 mm.

Basic configuration:
- Paint front door.
- Removable rear panel.
- Double-bar locking system.
- 4 plate support brackets.
- Mounting plate (only with **PKP...PM**).
- Cable gland plate.

MODELS, SIZES AND REFERENCES

External dimensions (mm)			Control desks			Metal mounting plates		Plinths	
Height (A)	Width (B)	Depth (C)	**Without** mounting plate	**With** mounting plate	No. of doors	Reference	Universal mounting plates	Heights 100 (mm)	Heights 200 (mm)
1024	600	597	**PKP 60**	**PKP 60-PM**	1	**PMPK-8560**	PMR 6760	**ZUN 65/100**	**ZUN 65/200**
1024	800	597	**PKP 80**	**PKP 80-PM**	1	**PMPK-8580**	PMR 6780	**ZUN 85/100**	**ZUN 85/200**
1024	1000	597	**PKP 100**	**PKP 100-PM**	2	**PMPK-85100**	PMR 67100	**ZUN 105/100**	**ZUN 105/200**
1024	1200	597	**PKP 120**	**PKP 120-PM**	2	**PMPK-85120**	PMR 67120	**ZUN 125/100**	**ZUN 125/200**

Dimensions (mm)

FIG. 1

PKP control desks

A Mounting plate

1 Maximum opening 56 mm

BASIC COMPONENTS
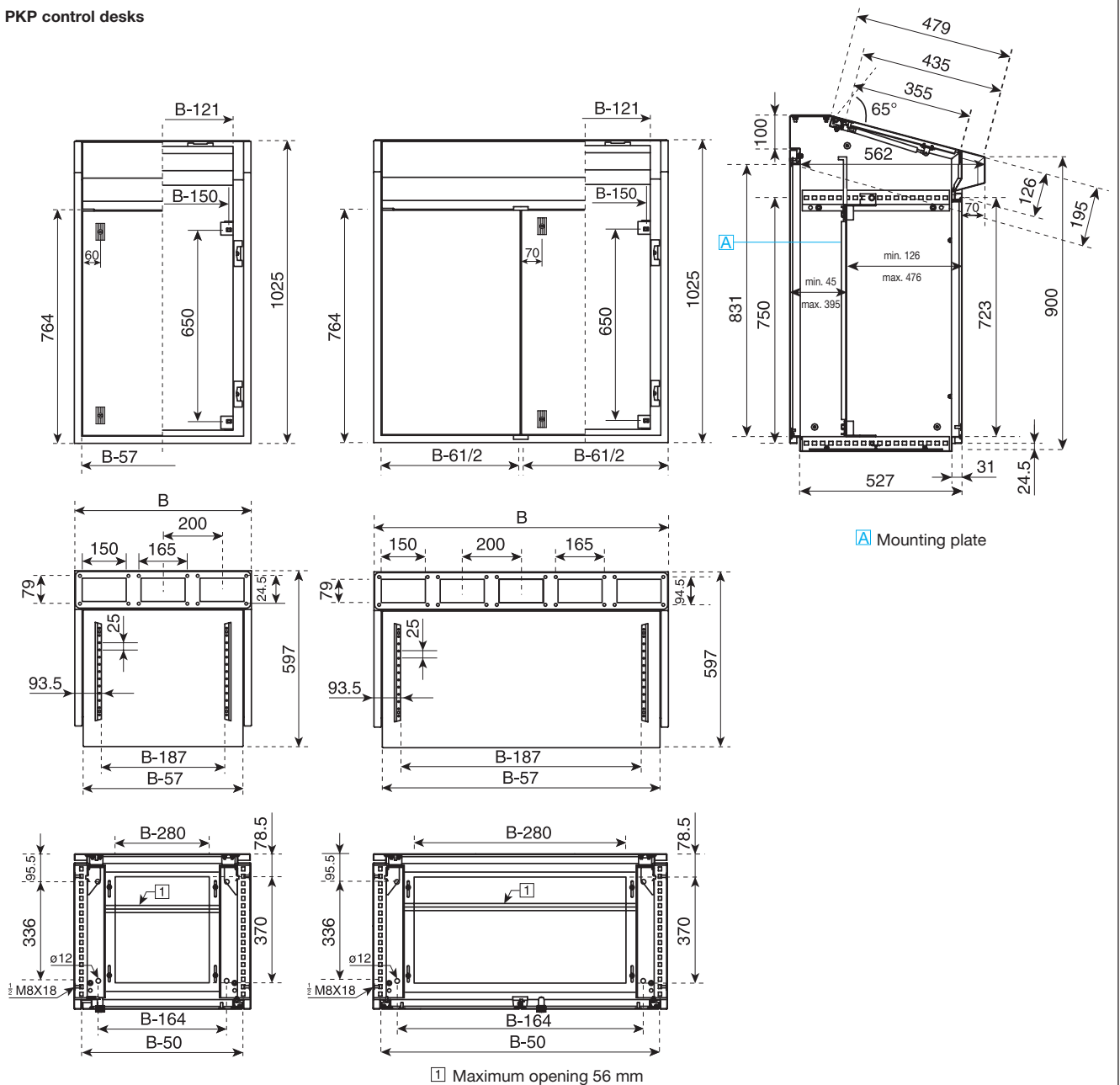
IP55 (EN 60529)

200 mm console: fix back panel.

300 mm console: removable back panel.

PKP 80 + FE 42 + TA 40

Modular top fronts for **PKP** control desks with removable rear panel made of sheet steel, protected on the inside and outside with light grey textured polyester-epoxy RAL-7032 paint.

■ Two widths, 400 and 600 mm, and two depths, 200 and 300 mm, the latter fitted with a depth-adjustable mounting plate and a detachable rear panel with screws, providing easy access to the inside of the front.
■ Locks on the top of the front, providing optimal usable door surface area, double bar lock which can be easily changed to triangular, square or key lock.
■ Features door retainer support.

■ Blanking lids in different widths, 200, 400, 600 and 800 mm.
■ Universal and metal mounting plates, either attached to the bottom of the front or adjustable in the 300 mm-deep models.

MODELS, SIZES AND REFERENCES

Width desk	Reference desk	Front references			Blanking lids	Fig. no.	Mounting plates		
		Width	Depth				Metal	Perforated	Universal
			200 (mm)	300 (mm)					
600	PKP 60	400	FE 42	FE 43	TA 20	1	MM 44	MF 44	MR 44
		600	FE 62	FE 63	-	2	MM 64	MF 64	MR 64
800	PKP 80	400	FE 42	FE 43	TA 40	3	MM 44	MF 44	MR 44
		400	2 × FE 42	2 × FE 43	-	4	2 × MM 44	2 × MF 44	2 × MR 44
		600	FE 62	FE 63	TA 20	5	MM 64	MF 64	MR 64
1000	PKP 100	400	FE 42	FE 43	TA 60	6	MM 44	MF 44	MR 44
		600	FE 62	FE 63	TA 40	7	MM 64	MF 64	MR 64
		600	FE 62	FE 63	2 × TA 20	8	MM 64	MF 64	MR 64
		400+600	FE 42 + FE 62	FE 43 + FE 63	-	9	MM 44	MF 44	MR 44
							MM 64	MF 64	MR 64
1200	PKP 120	400	FE 42	FE 43	TA 80	10	MM 44	MF 44	MR 44
		400+600	FE 42 + FE 62	FE 43 + FE 63	TA 20	11	MM 44	MF 44	MR 44
							MM 64	MF 64	MR 64
		600	FE 62	FE 63	TA 60	12	MM 64	MF 64	MR 64
		600	FE 62	FE 63	TA 20 + TA 40	13	MM 64	MF 64	MR 64
		600	2 × FE 62	2 × FE 63	-	14	2 × MM 64	2 × MF 64	2 × MR 64

Mounting possibilities

FIG. 1 FIG. 2 FIG. 3 FIG. 4 FIG. 5

Desk dimensions (width): 600 mm **Desk dimensions (width): 800 mm**

FIG. 6 FIG. 7 FIG. 8 FIG. 9

Desk dimensions (width): 1000 mm

FIG. 10 FIG. 11 FIG. 12 FIG. 13 FIG. 14

Desk dimensions (width): 1200 mm

Dimensions (mm)

FIG. 1
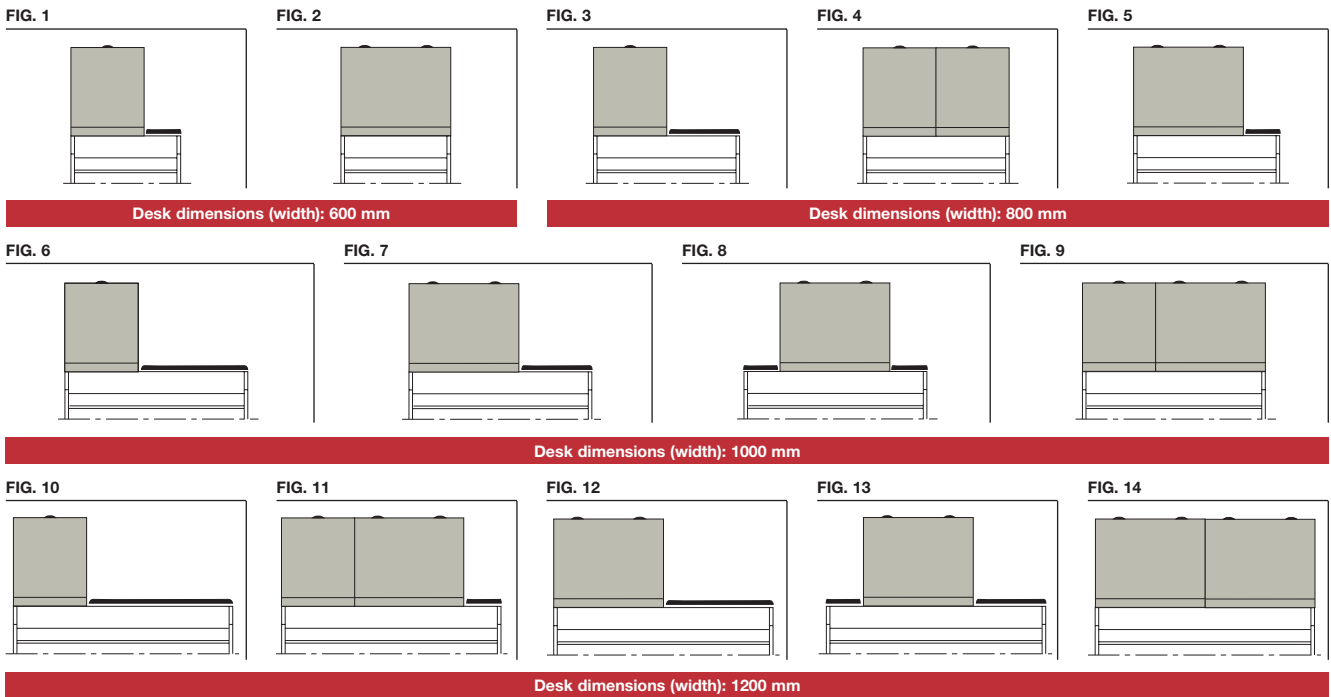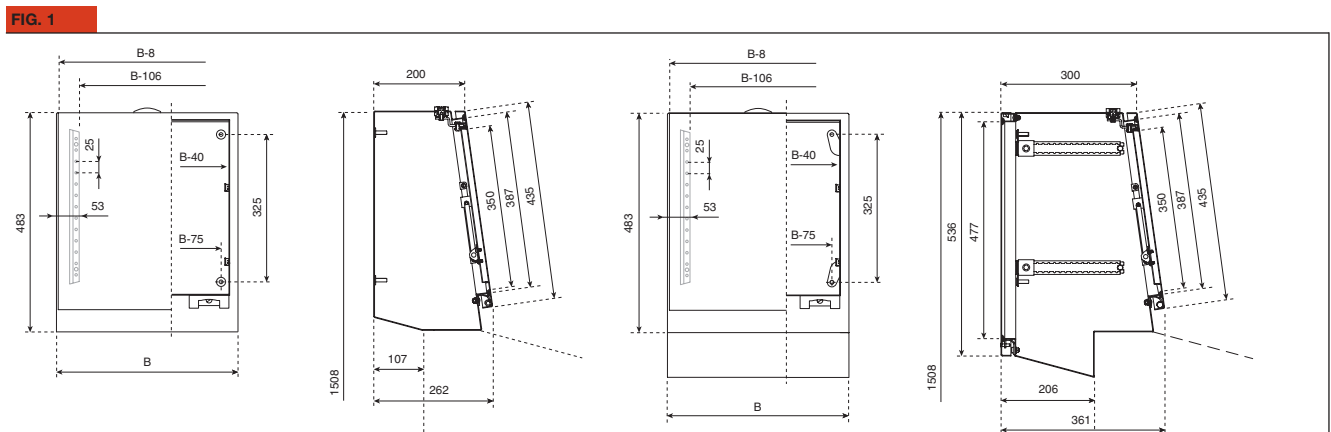
PKP 80/F30-PM

Compact control desks with top front made of steel sheet. Top part can be accessed via a three-point lock door. Painted on the inside and outside with light grey polyester-epoxy to textured RAL-7032.

- Mechanical retention support top front and pneumatic on console making opening easier, and preventing abrupt openings leading to falls.
- Double bar locking on doors. Can easily be changed to triangular, squared or key lock.
- Angular reinforcement on panels perforated every 25 mm with 4.25 mm Ø crill holes.
- Galvanised mounting plate to be fitted in control console, in top front and in bottom desk or total mounting plate adjustable at 25 mm.

- Earthing on door, body and mounting plate.
- 100 or 200 mm U-profile plinth in anthracite grey to RAL-7022.
- Fully gasketed cable gland plate. Maximum capacity for cable access.

Basic configuration:
- Top front panel.
- Plain front door.
- Plain rear door.
- 3 mm double bar system lock.
- 4 support brackets for bottom plate.
- Bottom mounting plate, removable plate and upper brackets (only with **PKP.../F...PM**).
- 2 parts cable gland plate.

MODELS, SIZES AND REFERENCES

External dimensions (mm)			Control desks			Metal mounting plates		Plinths	
Height (A)	Width (B)	Depth (C)	Without mounting plate	With mounting plate	No. door front and rear	Reference	Bottom* Universal mounting plates	Height 100 (mm)	Height 200 (mm)
1400	800	845	PKP80/F30	PKP80/F30-PM	1	PMP7080	PMR 6760	ZUN 84/100	ZUN 84/200
1400	1000	845	PKP100/F30	PKP100/F30-PM	2	PMP70100	PMR 6780	ZUN 104/100	ZUN 104/200
1400	1200	845	PKP120/F30	PKP120/F30-PM	2	PMP70120	PMR 67100	ZUN 124/100	ZUN 124/200
1400	1600	845	PKP160/F30	PKP160/F30-PM	2	PMP70160	PMR 67120	ZUN 164/100	ZUN 164/200
1400	800	1045	PKP80/F50	PKP80/F50-PM	1	PMP7080	-	ZUN 86/100	ZUN 86/200
1400	1000	1045	PKP100/F50	PKP100/F50-PM	2	PMP70100	-	ZUN 106/100	ZUN 106/200
1400	1200	1045	PKP120/F50	PKP120/F50-PM	2	PMP70120	-	ZUN 126/100	ZUN 126/200
1400	1600	1045	PKP160/F50	PKP160/F50-PM	2	PMP70160	-	ZUN 166/100	ZUN 166/200

Dimensions (mm)

FIG. 1
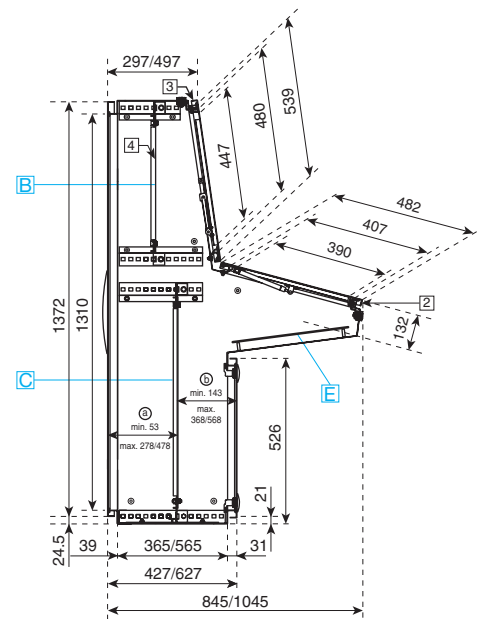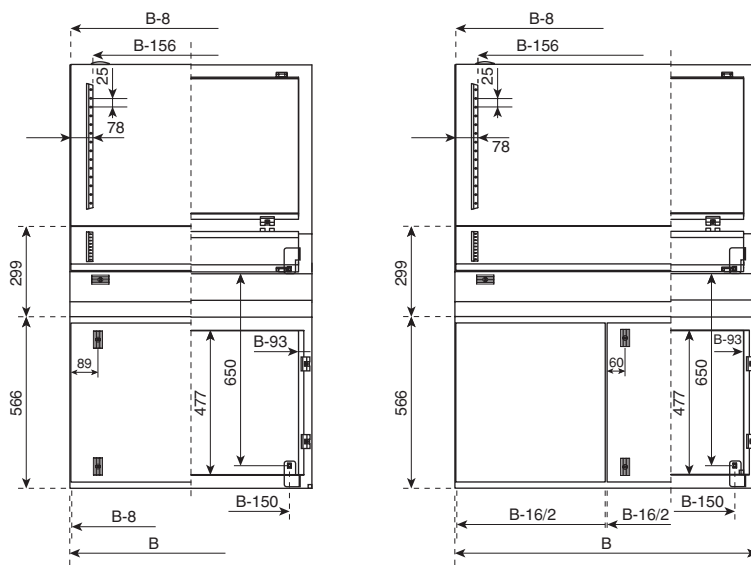
1. Cable entry: max. opening 66 mm.
2. Comanding panel: max. opening 75º.
3. Sinoptic panel: max. opening 65º.
B. Upper mounting plate.
C. Bottom mounting plate.
E. Control console mounting plate.

Notes: 2 cable entries on 1600 mm wide desks.

Upper B and bottom C mounting plates can be substituted by a complete D mounting plate.

For 2 door control desks:
ⓐ +25 mm
ⓑ -25 mm
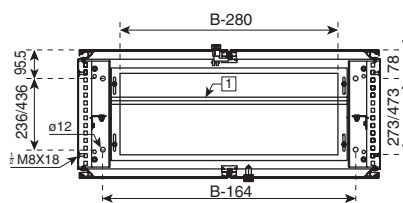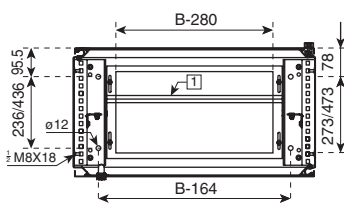
Accessories for metal control desks

Mounting plates

Made of galvanised sheet steel for the bottom, total, front and console models, and in zinc steel for bichrome universal plates.

PK and PKP   **PKP... /F**
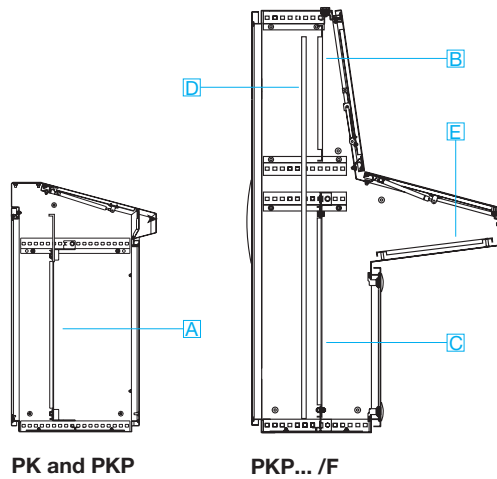
A Bottom mounting plate.
B Upper mounting plate.
C Bottom mounting plate.
E Control console mounting plate.
D Complete mounting plate.

Notes: Upper B and bottom C mounting plates can be substituted by a complete D mounting plate

	To couple to control desk reference	Bottom A and C						Front* B									Console E				Total* D			
	Metal	P	S	Universal	P	S	Pos.	Metal	P	S	Pos.	Universal	P	S	Pos.	Metal	P	S	Pos.	Metal	P	S	Pos.
PK 60	PMPK-8560	847	505	PMR 6760	675	508	A																
PK 80	PMPK-8580	847	705	PMR 6780	675	708	A																
PK 100	PMPK-85100	847	905	PMR 67100	675	908	A																
PK 120	PMPK-85120	847	1105	PMR 67120	675	1108	A																
PKP 60	PMPK-8560	847	505	PMR 6760	675	508	A																
PKP 80	PMPK-8580	847	705	PMR 6780	675	708	A																
PKP 100	PMPK-85100	847	905	PMR 67100	675	908	A																
PKP 120	PMPK-85120	847	1105	PMR 67120	675	1108	A																
PKP 80/F30	PMP-7080	697	705	PMR 6780	675	708	C	PMP 4580	447	705	B	PMR 4280	425	708	B	PMP 4080	397	705	E	PMOL 148	1298	697	D
PKP 100/F30	PMP-70100	697	905	PMR 67100	675	908	C	PMP 45100	447	905	B	PMR 42100	425	908	B	PMP 40100	397	905	E	PMOL 1410	1298	897	D
PKP 120/F30	PMP-70120	697	1105	PMR 67120	675	1108	C	PMP 45120	447	1105	B	PMR 42120	425	1108	B	PMP 40120	397	1105	E	PMOL 1412	1298	1097	D
PKP 160/F30	PMP-70160	697	1505	-	-	-	C	PMP 45160	447	1505	B	-	-	-	-	PMP 40160	397	1505	E	-	-	-	-
PKP 80/F50	PMP-7080	697	705	PMR 6780	675	708	C	PMP 4580	447	705	B	PMR 4280	425	708	B	PMP 4080	397	705	E	PMOL 148	1298	697	D
PKP 100/F50	PMP-70100	697	905	PMR 67100	675	908	C	PMP 45100	447	905	B	PMR 42100	425	908	B	PMP 40100	397	905	E	PMOL 1410	1298	897	D.
PKP 120/F50	PMP-70120	697	1105	PMR 67120	675	1108	C	PMP 45120	447	1105	B	PMR 42120	425	1108	B	PMP 40120	397	1105	E	PMOL 1412	1298	1097	D
PKP 160/F50	PMP-70160	697	1505	-	-	-	C	PMP 45160	447	1505	B	-	-	-	-	PMP 40160	397	1505	E	-	-	-	-

* The **DFPK** plate fixing suite is required to fix front or total mounting plates.

Dimensions (mm)

FIG. 1

PMPK...   PMP...   PMR...   PMOL...
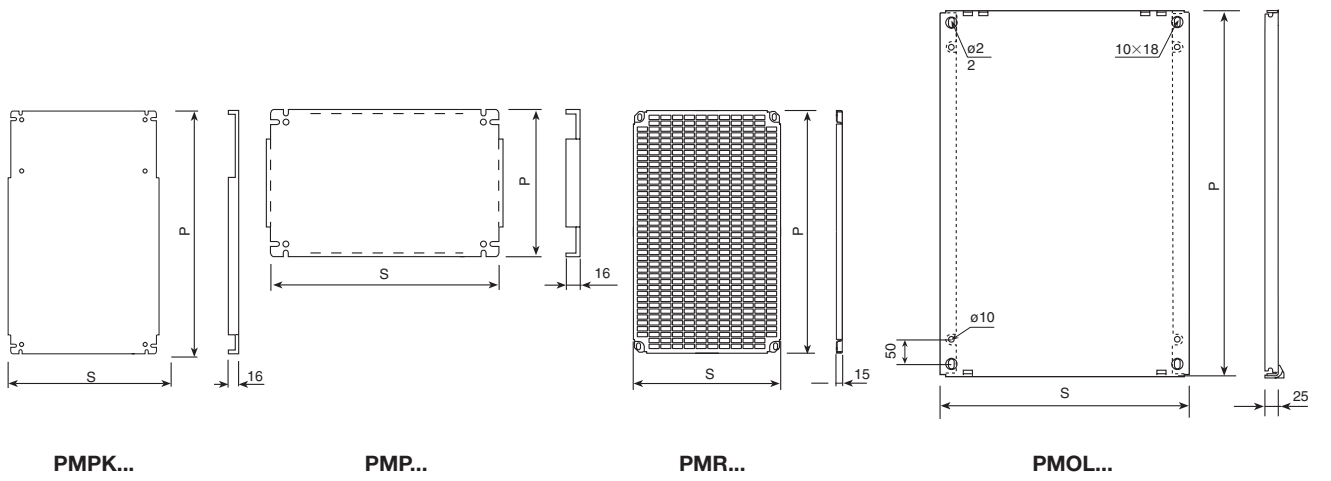
Plinths

For direct coupling to the control desks using floor-fixing screw holes.
- Heights of 100 and 200 mm.
- Accessible from front and rear side.
- Painted in anthracite grey polyester paint to RAL-7022.
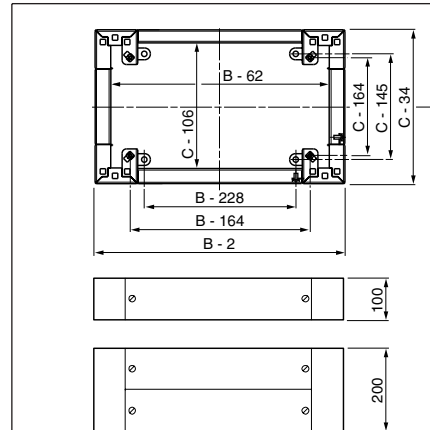
To couple to control desk	Reference	Width (B)	Depth (C)	Plinth height	
				100 mm	200 mm
Without front	**PK60**	600	400	**ZUN 64/100**	**ZUN 64/200**
rear panel	**PK80**	800	400	**ZUN 84/100**	**ZUN 84/200**
fixed	**PK100**	1000	400	**ZUN 104/100**	**ZUN 104/200**
	PK120	1200	400	**ZUN 124/100**	**ZUN 124/200**
Without front	**PKP60**	600	500	**ZUN 65/100**	**ZUN 65/200**
rear panel	**PKP80**	800	500	**ZUN 85/100**	**ZUN 85/200**
fixed	**PKP100**	1000	500	**ZUN 105/100**	**ZUN 105/200**
	PKP120	1200	500	**ZUN 125/100**	**ZUN 125/200**
With front	**PKP80/F30**	800	400	**ZUN 84/100**	**ZUN 84/200**
model	**PKP100/F30**	1000	400	**ZUN 104/100**	**ZUN 104/200**
F30	**PKP120/F30**	1200	400	**ZUN 124/100**	**ZUN 124/200**
	PKP160/F30	1600	400	**ZUN 164/100**	**ZUN 164/200**
With front	**PKP80/F50**	800	600	**ZUN 86/100**	**ZUN 86/200**
model	**PKP100/F50**	1000	600	**ZUN 106/100**	**ZUN 106/200**
F50	**PKP120/F50**	1200	600	**ZUN 126/100**	**ZUN 124/200**
	PKP160/F50	1600	600	**ZUN 166/100**	**ZUN 164/200**

PK-PKP

Locks for metal control desks

Door and front panel locks

Standard double bar lock, fixing wing-type lock if changing from double bar to standard manual lock. Operated by wing-shaped handle **PDB ▮**.
LDB 5 key ▭━▭ (to DIN 43668).

OPTIONAL LOCK INSERTS TO TRANSFORM THE STANDARD LOCK

Characteristics	Key type	Reference
□ 6 mm square lock	**LC-7**	**TC 6/CRN**
□ 7 mm square lock	**LC-7**	**TC 7/CRN**
□ 8 mm square lock	**LC-8**	**TC 8/CRN**
△ 7 mm triangular lock	**LT-8**	**TT 7/CRN**
△ 8 mm triangular lock	**LT-8**	**TT 8/CRN**
405 full key lock	▭━▭	**TCL/PK**

Locks for rear doors

Standard double bar lock (normal supply). Operated by **LDB 5** key ▭━▭ (to DIN 43668).

OPTIONAL LOCK INSERTS TO TRANSFORM THE FLAT LOCK

Characteristics	Key type	Reference
△ 7 mm triangular lock	**LT-7**	**TPT 7/OLN**
△ 8 mm triangular lock	**LT-8**	**TPT 8/OLN**
□ 6 mm square lock	**LC-7**	**TPC 6/OLN**
□ 7 mm square lock	**LC-7**	**TPC 7/OLN**
□ 8 mm square lock	**LC-8**	**TPC 8/OLN**

Optional handle lock

Ergonomic locking syhstem with pivoting handle.

(1) To form the new lock order the panel with handle ref.: **MCS/OLN** plus the operating/locking variant chosen.

OPTIONAL LOCK INSERTS TO TRANSFORM THE HANDLE LOCK (1)

Characteristics	Key type	Reference
Handle lock panel		**MCS/OLN**
		MCS/MICH 8079
Handle lock with MICHELIN type mechanism		**MCS/MICH 8133**
		MCS/MICH 8376
□ 6 mm square lock	LC-7	**TC 6/OLN**
□ 7 mm square lock	LC-7	**TC 7/OLN**
□ 8 mm square lock	LC-8	**TC 8/OLN**
△ 7 mm triangular lock	LT-8	**TT 7/OLN**
△ 8 mm triangular lock	LT-8	**TT 8/OLN**
△ 6.5 mm CNOMO triangular lock	LT-6,5	**TCNOMO/OLN**
△ 6.5 mm CNOMO triangular lock for double door enclosures		**TCNOMO/OLN-2P**
Key lock type 405	▭━▭	**TL/OLN**
Safety cylinder lock	▭━▭	**TLR/OLN**
Pushbutton lock opening		**TS/OLN**
FIAT lock		**TFI/OLN**
E1 lock		**TLE1/OLN**
Padlock		**BC/OLN**

Plate support suites

DFPK suite... needed to fix front or total plates to **PKP.../F** control desks.
■ Are depth-adjustable.
■ For double plates (back-to-back) the 4 loose bracket suite should be ordered. Ref.: **EDF/PK**.

To couple to front of control desk	Reference
PKP.../F30	**DFPK-2030**
PKP.../F50	**DFPK-4050**

Pneumatic retainers

Quick-to-mount pneumatic retainers make it easy to open the console while stopping it from dropping abruptly.

Maximum load per retainer	Reference
21 kg	**RETN 21/PK**
24 kg	**RETN 24/PK**
29 kg	**RETN 30/PK**

PC monitor support

Monitor support suite to join to the front of the **PKF...F** control desks, consisting of guides and horizontal tray.

To couple to control desk	Reference
PKP800/F...	**SPC8**
PKP1000/F...	**SPC10**
PKP1200/F...	**SPC12**
PKP1600/F...	**SPC16**

Diagram rest

Profile for fixing to the edge of the top tilted panel. Stops diagrams or material from falling.
■ Made of **PVC** to RAL-7011.

To couple to width control desk	Reference
600	**REP 6**
800	**REP 8**
1000	**REP 10**
1200	**REP 12**
1600	**REP 16**

Stainless steel enclosures

Door reinforcement frame on **CRSX 108** and **128** models.

Polyurethane foamed gasket ensuring full watertightness (IP66).

Back with 4 welded studs for fixing of mounting plate and depth adjustable supports.
4 drillings for direct wall fixing or through brackets.
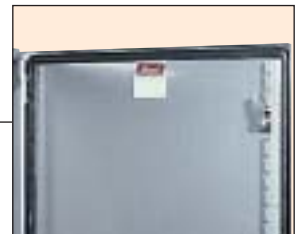
Vertical door profiles (up from 600 mm high enclosures) for fixing of equipment.

Earthing between body and door through welded studs. Total safety of use. Available as accessory.

Stainless steel hinge bolted to the body of the enclosure for a reversible door and easy machining. Opening angle over 120°.

for permanent protection

Stainless steel inside guide and reinforcement frame with section 18×18 mm, reinforced at 25 mm intervals with Ø 5 and 10 mm drill holes.

Inside view of cable gland plate in stainless steel.

Guide with drill holes every 25 mm to facilitate depth-adjustment of the plate.

CRSX 54/200

The stainless steel Himel enclosures are specially suitable for corrosive environments and installations where hygiene is essential. Also in chemical and food industries, etc.

- Monobloc watertight AISI 304 stainless steel enclosures. Types AISI 304L (resistant against corrosive organic agents) and AISI 316 (resistant to concentrated acids and halogen based agents) also available on request.
- Scotch brite (AST) type mechanical polish for an excellent surface quality and improved protection against corrosion. Electrical polish on request.

- 14 dimensions. Wide range of accessories compatible with the **CRN** enclosures.
- **CMOX** range in stainless steel also available, dimensions up to 2000 high × 1600 wide × 600 deep (mm).
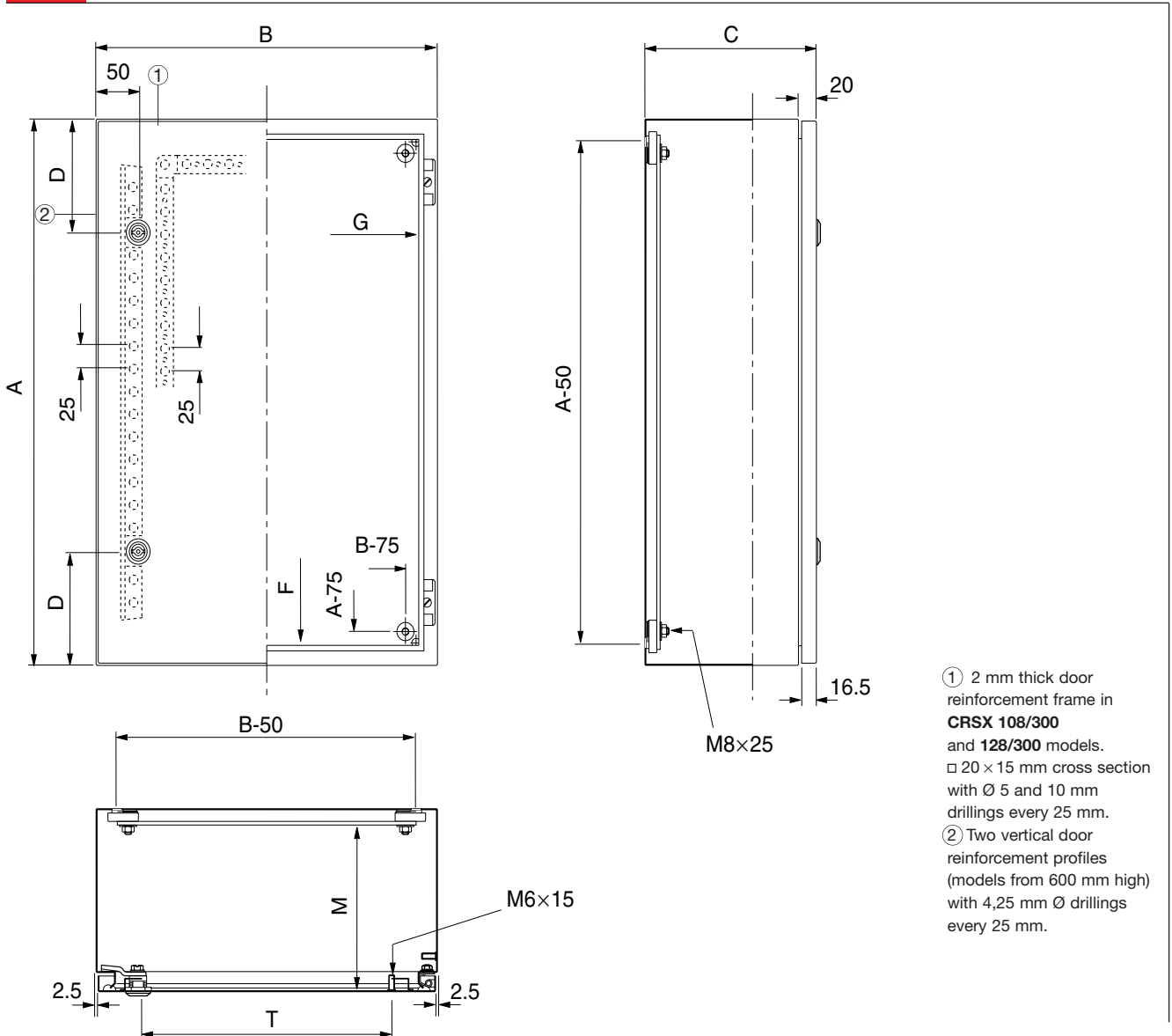
IP66 (EN 60529)

MODELS, SIZE AND REFERENCES

External dimensions (mm)			Enclosures									Mounting plates (1)				Depth adjust. m. plate support (1)	DINIMEL chassis (1)	Internal door (1)
Height (A)	Width (B)	Depth (C)	Reference	No. of locks	No. of hinges	D	F	G	M	T	Weight (Kg)	metal	insulating	perf.	universal			
300	200	150	**CRSX 32/150**	1	2	150	257	157	134	-	3.9	●	●	●	●			
300	250	150	**CRSX 3025/150**	1	2	150	257	207	134	-	4.8	●	●	●	●			
300	300	150	**CRSX 33/150**	1	2	150	257	257	134	-	5	●	●	●	●			
400	300	150	**CRSX 43/150**	2	2	200	347	257	134	165	5.7	●	●	●	●		●	
400	300	200	**CRSX 43/200**	2	2	200	347	257	184	165	6.7	●	●	●	●	●	●	●
400	400	200	**CRSX 44/200**	2	2	200	347	357	184	265	7	●	●	●	●	●		
500	400	200	**CRSX 54/200**	2	2	125	457	357	184	265	9.2	●	●	●	●	●	●	●
600	400	200	**CRSX 64/200**	2	2	125	557	357	184	317	10.7	●	●	●	●	●	●	●
600	600	250	**CRSX 66/250**	2	2	125	557	557	234	517	14	●	●	●	●	●		
700	500	250	**CRSX 75/250**	2	2	125	657	457	234	417	18.5	●	●	●	●	●	●	●
800	600	250	**CRSX 86/250**	2	2	125	757	557	234	517	23.5	●	●	●	●	●	●	●
800	800	300	**CRSX 88/300**	2	2	125	757	757	284	717	31	●	●	●	●	●		
1000	800	300	**CRSX 108/300**	2	3	125	957	757	284	650	38.5	●	●	●	●	●	●	●
1200	800	300	**CRSX 128/300**	2	3	125	1157	757	284	650	44	●	●	●	●	●		●

(1) See characteristics and references in CRN.

Dimensions (mm)

FIG. 1

① 2 mm thick door reinforcement frame in **CRSX 108/300** and **128/300** models. □ 20 × 15 mm cross section with Ø 5 and 10 mm drillings every 25 mm.

② Two vertical door reinforcement profiles (models from 600 mm high) with 4,25 mm Ø drillings every 25 mm.

IP55 (EN 60529)

CMOX 188/40

Floor standing enclosures made of AISI 304 stainless steel. Polished finish.

- Door in folded and welded 304 stainless sheet steel.
- Door opening 120°, to right or left. Reinforcing frame on door, with 4 stainless steel hinges.
  Maximum load 50 kg.
 3 locking points. Handle with key 405.

- 4 support brackets included for mounting plate **PMOL**.
- Stainless steel cable gland plate.
- Optional 100 and 200 mm high plinths.
- Optional stainless steel canopies.
- Lifting eyebolts **TMO/12** available.

MODELS, SIZES AND REFERENCES

External dimensions (mm)			Reference	No. of doors	E	F	MOL universal chassis	PIL internal doors	Reference mounting plate
Height (A)	Width (B)	Depth (C)							
1200	1000	300	**CMOX 1210/30**	2	720	170	●		**PMOL 1210**
1600	800	400	**CMOX 168/40**	1	520	270	●	●	**PMOL 168**
1800	800	400	**CMOX 188/40**	1	520	270	●	●	**PMOL 188**
1800	1200	400	**CMOX 1812/40**	2	920	270	●		**PMOL 1812**
1800	1600	400	**CMOX 1816/40**	2	520	270	●		**PMOL 1816**
2000	800	400	**CMOX 208/40**	1	520	270	●	●	**PMOL 208**
2000	1000	400	**CMOX 2010/40**	2	720	270	●	●	**PMOL 2010**
2000	1200	500	**CMOX 2012/50**	2	920	370	●	●	**PMOL 2012**
2000	1600	600	**CMOX 2016/60**	2	1,320	470	●		**PMOL 2016**

Dimensions (mm)
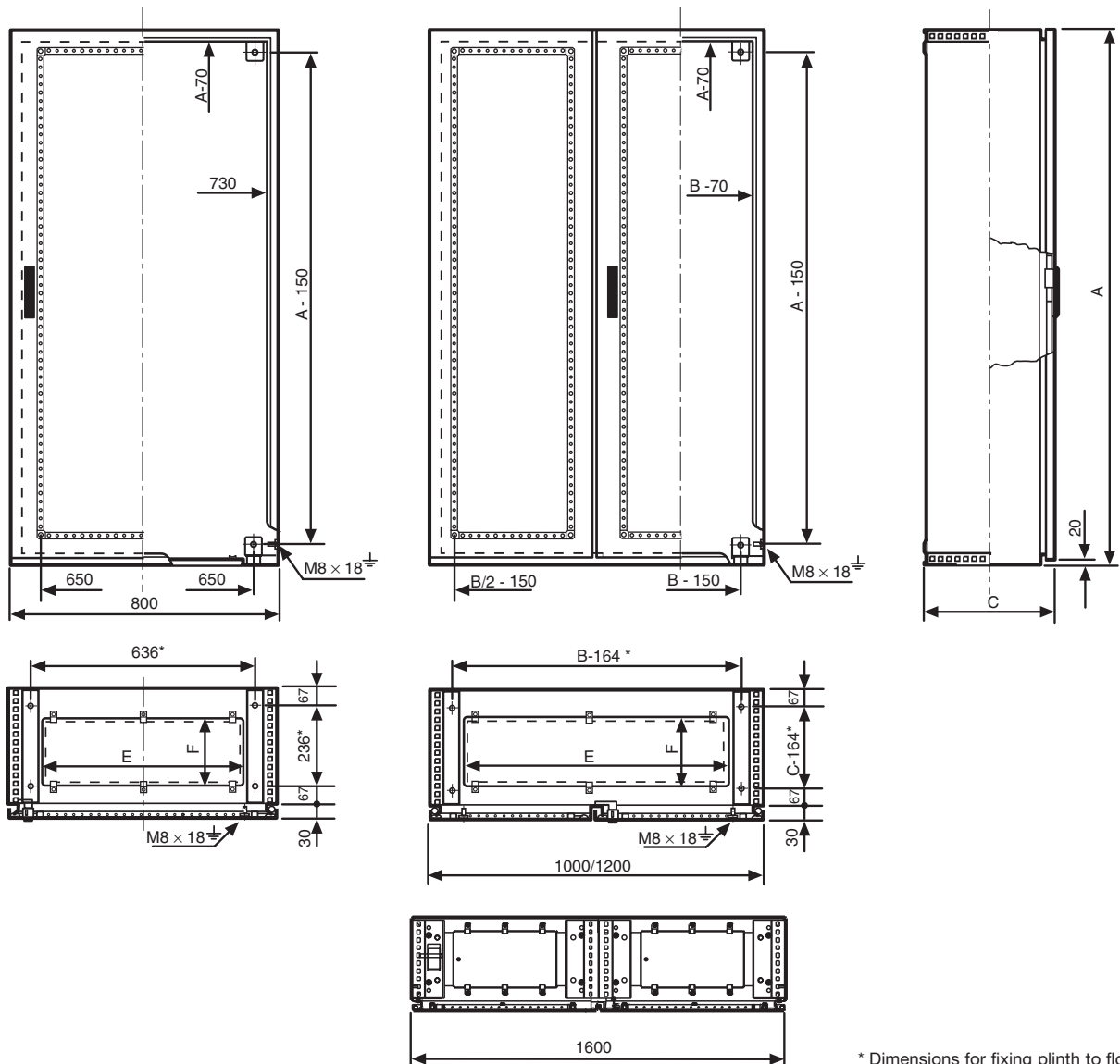
* Dimensions for fixing plinth to floor.

CRSX-CMOX

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Mounting plates
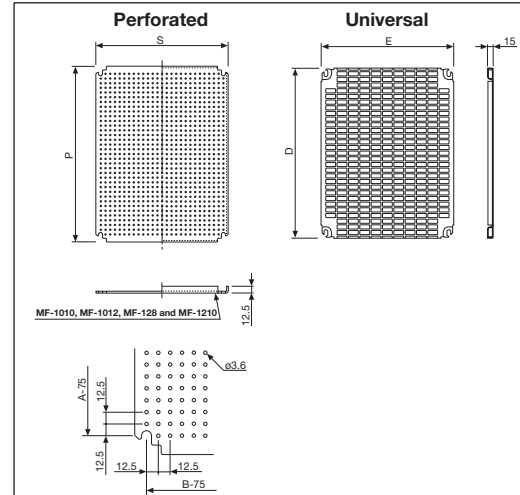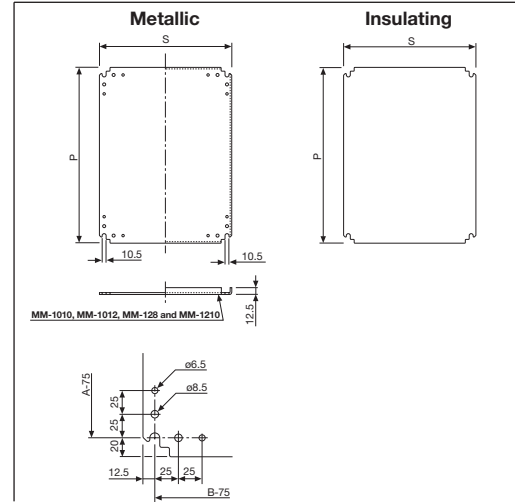
Metallic

Insulating

Perforated

Universal

A comprehensive range of plates in three versions solves most installation requirements.
■ Mounting plates in zinc bichromated steel with holes for accessory fixing and earth connection.
■ Insulating plates in bakelite.
■ Perforated plates in galvanized steel, drilled with 3.6 mm Ø holes, 12.5 mm apart.
■ Perforated plates for quick equipment fixing, in zinc bichromated steel. The distribution of them, together with the position of the nuts, cover all the fixing points.

Metallic   **Insulating**

MM-1010, MM-1012, MM-128 and MM-1210

Perforated   **Universal**

MF-1010, MF-1012, MF-128 and MF-1210

To fit into **CRSX** enclosures		Metallic			Insulating			Perforated					Universal		
Height (A)	Width (B)	Reference	Thickness (mm)	Weight (Kg)	Reference	Thickness (mm)	Weight (Kg)	Reference	Thickness (mm)	Weight (Kg)	P	S	Reference	D	E
300	200	**MM-32**	2	0.5	**MB-32**	4	0.2	**MF-32**	2	0.5	265	150	**MR-32**	255	154
300	250	**MM-3025**	2	0.6	**MB-3025**	4	0.3	**MF-3025**	2	0.6	265	200	**MR-3025**	253	228
300	300	**MM-33**	2	1.2	**MB-33**	4	0.5	**MF-33**	2	1.1	265	250	**MR-33**	255	251
400	300	**MM-43**	2	1.6	**MB-43**	4	0.5	**MF-43**	2	1.5	365	250	**MR-43**	348	251
400	400	**MM-44**	2	2.2	**MB-44**	4	0.7	**MF-44**	2	2.1	365	350	**MR-44**	345	351
500	400	**MM-54**	2	2.5	**MB-54**	4	0.9	**MF-54**	2	2.4	465	350	**MR-54**	450	351
600	400	**MM-64**	2	3.1	**MB-64**	4	1.1	**MF-64**	2	3.1	565	350	**MR-64**	555	351
600	600	**MM-66**	2	5.5	**MB-66**	4	1.7	**MF-66**	2	5.5	565	550	**MR-66**	555	551
700	500	**MM-75**	2	4.6	**MB-75**	4	1.7	**MF-75**	2	4.3	665	450	**MR-75**	645	451
800	600	**MM-86**	3	9.9	**MB-86**	4	2.3	**MF-86**	3	9	765	550	**MR-86**	750	551
800	800	**MM-88**	3	13.6	**MB-88**	5	4.5	**MF-88**	3	12	765	750	**MR-88**	750	751
1000	800	**MM-108**	3	16.9	**MB-108**	5	5.7	**MF-108**	3	16	965	750	**MR-108**	945	751
1200	800	**MM-128**	2.5	17.8	**MB-128**	5	6.8	**MF-128**	2.5	17	1150	750	**MR-128**	1145	751

CRSX-CMOX

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Locks for CRSX enclosures

STD/CSX

Double bar standard lock, with stainless steel latch and fixing screw. Operation through **LDB3** key (according to **DIN 43668**) (supplied as standard). Reference **STD/CSX**.

Type	Key type / reference		Reference
Stainless steel □ 6 mm square lock		LC-7	TC 6/CSX
Stainless steel □ 7 mm square lock		LC-7	TC 7/CSX
Stainless steel △ 8 mm triangular lock		LT-8	TT 8/CSX
Key lock type 405			CL/CSX
Full stainless catch			CC6/CSX

Locks for CMSX enclosures
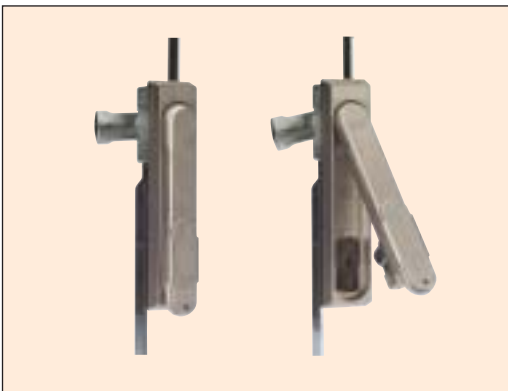
Directly operated standard closing mechanism retractable handle with key 405.
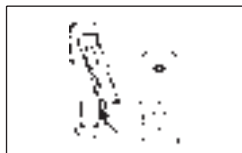
Type	Key type / reference		Reference
Double bar lock		LDB 5	TE DB/ML
△ 7 mm triangular lock		LT-8	TE T7/ML
△ 8 mm triangular lock		LT-8	TE T8/ML
□ 6 mm square lock		LC-8	TE C6/ML
□ 7 mm square lock		LC-8	TE C7/ML
□ 8 mm square lock		LC-8	TE C8/ML
Key lock type 405			TE L/ML
Safety cylinder lock			TE R/ML
Manual lock			TEM/PLD
Padlock fastening			BCME/PL

Wall fixing brackets

Set of 4 stainless steel brackets fixed from the outside vertically or horizontally. Not included in standard supply.
Reference: CRSX: **PFCX**.
CMOX: **FCMX**.

FCMX

PFCX