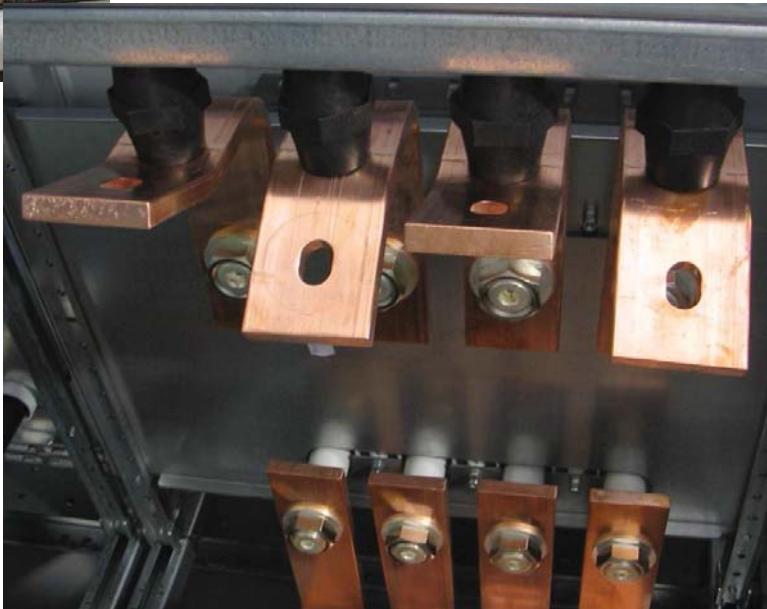
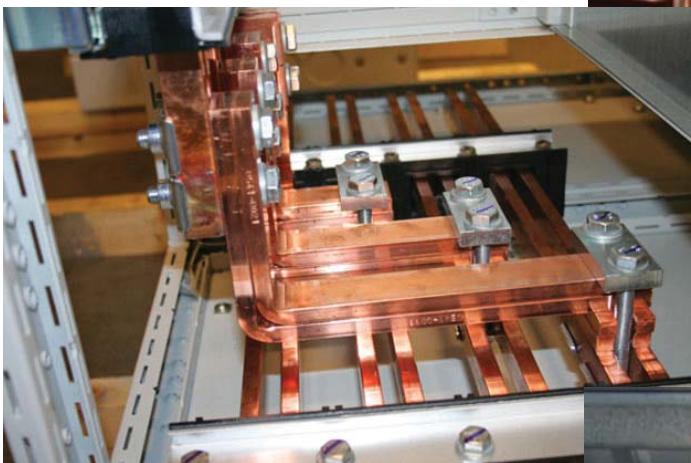
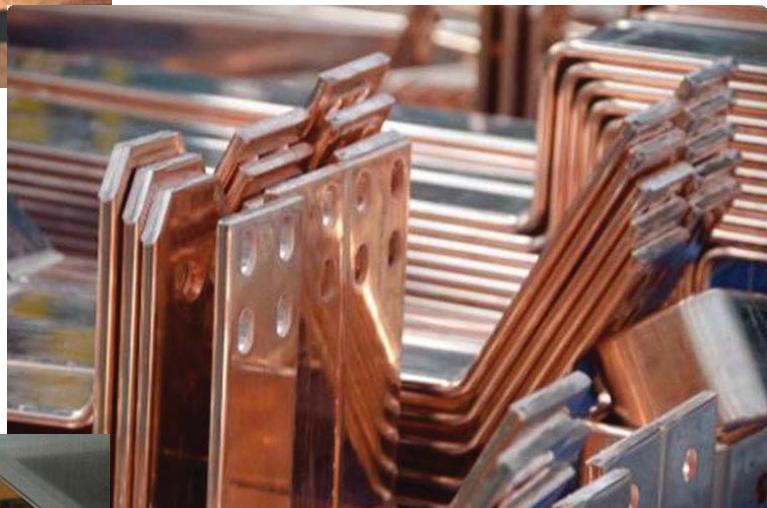
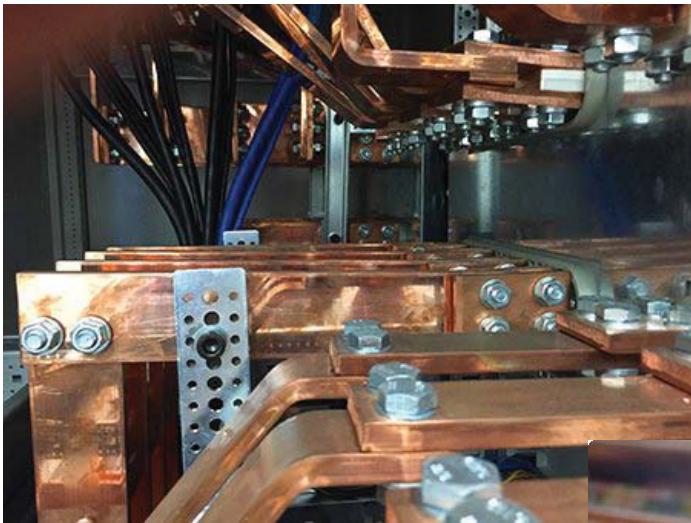


COPPER BUSBARS PROFILES & FLEXIBLE





Copper bars and accessories

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GENERAL INFORMATION AND APPLICATIONS

Flexible copper bars

These are made up of copper sheets inserted in and protected by a self-extinguishing PVC insulation (VO class according to standard UL 1581). Since the sheets can move freely inside the insulation, they offer a wide range of possible bending and torsion configurations. In this way preparation of the terminal parts is simplified since they are obtained by removing the protection from the sheets and directly drilling the sheets pack. Therefore, this is a modern, aesthetically efficient and quick connection system for wiring electric panels. In fact, maintaining the same rated current load value, there is approximately a 40% saving in material respect to normal wire usage.

The manufacture technique ensures a constant thickness of the insulation even in corners; in addition, there is a functional clearance between the insulation and the sheets.

Applications:

- *Wirings and electrical connections in the distribution panels;*
- *Connections between the transformers and the busbar system;*
- *Connections between busbar system and other equipment such as contactors, disconnectors, etc.;*
- *Connection joints;*
- *Can be used as an alternative to solid copper bars.*

Advantages:

- *Material saving (at the same overtemperature, they allow a higher current density than conventional solid bars);*
- *Less space requirements (both because the high insulation level permits reducing the distance between the different phases and towards earth and because the lack of bending constraints allows a significant reduction of the space requirements);*
- *Time saving in the designing and building of the panel (also thanks to the manual mounting with no need for particular tools);*
- *No accessories needed (they connect directly to the equipment without cable terminal or other contact elements);*
- *Extremely modern and professional design of the panel.*

Copper braids - standard and tin plated

Made of electrolytic red copper or tin plated, used for earthing connections in the electromechanical, railway and automotive sectors. The range is so wide that it meets any requirement related to electric panel design and to any kind of earthing connections. The rounded shape of the head ensures easy mounting even with reduced space availability. They ensure a direct contact and therefore an excellent electrical behaviour. Their excellent flexibility, in addition, makes them the ideal solution for very close power connections, since they can be readily bent even very close to the connection point.

Plain copper bars - standard and tin plated

They are made from the best quality electrolytic Cu-ETP copper, with rounded edges. The tin plated copper version permits saving time when building the contact points and guarantees an efficient long-lasting protection against aggressive chemical agents.

GENERAL INFORMATION AND APPLICATIONS

Accessories for copper bars

A wide range of accessories for an excellent use of the copper bars is available. This range includes:

- busbar supports
- busbar covers
- protection ferrules
- contact and connection plates
- terminals for the wire connection (from 1,5 to 300 mm²)
- terminal protection covers
- distribution boards.

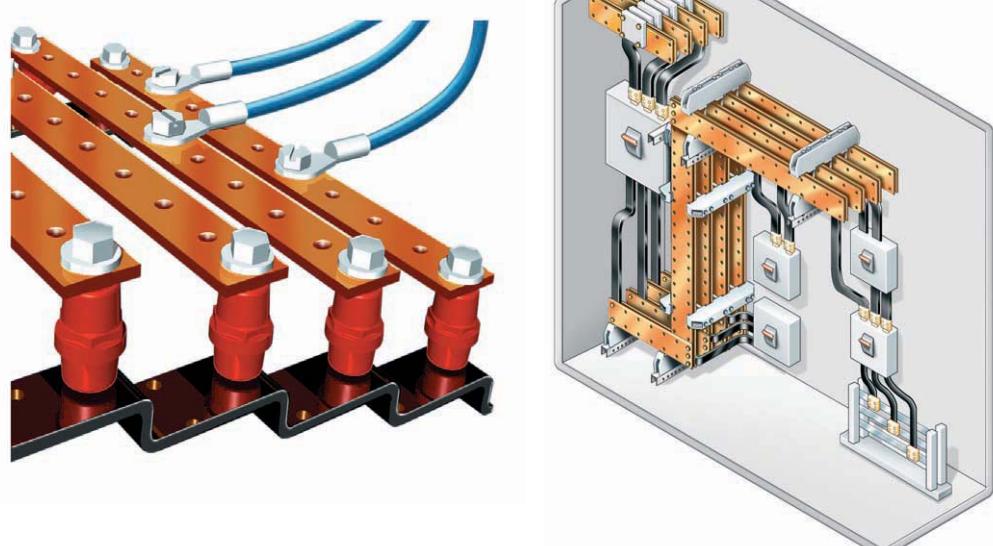
Insulators and spacing pillars

They can be used as supports or spacers between electrically active components (an example of this are the copper bars used to build the electrical panels). They are made of glass-fibre reinforced polyester resin and ensure a long-lasting mechanical and electrical resistance. The central hexagonal body permits easy mounting.

Moreover, threaded inserts varying in type and size are built-in on the ends and permit using the insulator in a very wide range of applications.

Chemical properties of copper

- Melting temperature: 1083°C
- Boiling temperature: 2595°C
- Density at 20°C: 8,94 g/cm³
- Ultimate tensile strength (annealed copper): 220 N/mm²
- Thermal expansion coefficient at 20°C: 1,65x10⁻⁶ m/(m•°K)
- Specific heat at 20°C: 385 kJ/(Kg•°K)
- Thermal conductivity at 20°C: 391 W/(m•°K)
- Electric resistivity at 20°C (annealed copper): 0,017241 Ohm•mm²/m



FLEXIBLE COPPER BARS

Description

These bars consist of electrolytic red copper sheets coated with a black PVC self-extinguishing insulating layer, applied by extrusion, e.g. without welding. Preservation of suitable tolerances between the core and the insulation makes the bars extremely flexible and avoids the formation of dangerous air pockets that would lower the dielectric strength.

Rated voltage: 1000V a.c., 1500V d.c.



Insulated flexible
copper bars

INSULATED FLEXIBLE COPPER BARS - LENGTH 2 METERS

code	type	dimensions ⁽¹⁾	section (mm ²)	rated current (A) (ΔT=50) ⁽²⁾	pack.
01056	F9x0,8x2	9 x 0,8 x 2	14,4	96	1
01054	F9x0,8x3	9 x 0,8 x 3	21,6	136	1
01057	F9x0,8x4	9 x 0,8 x 4	28,8	173	1
01058	F9x0,8x5	9 x 0,8 x 5	36,0	231	1
01194	F9x0,8x6	9 x 0,8 x 6	43,2	289	1
01070	F13x0,5x2	13 x 0,5 x 2	13,0	132	1
01071	F13x0,5x3	13 x 0,5 x 3	19,5	163	1
01072	F13x0,5x4	13 x 0,5 x 4	26,0	190	1
01050	F13x0,5x6	13 x 0,5 x 6	39,0	237	1
01073	F13x0,5x10	13 x 0,5 x 10	65,0	316	1
01074	F15,5x0,8x2	15,5 x 0,8 x 2	24,8	167	1
01075	F15,5x0,8x3	15,5 x 0,8 x 3	37,2	233	1
01076	F15,5x0,8x4	15,5 x 0,8 x 4	39,6	322	1
01035	F15,5x0,8x6	15,5 x 0,8 x 6	74,4	416	1
01085	F15,5x0,8x8	15,5 x 0,8 x 8	99,2	458	1
01086	F15,5x0,8x10	15,5 x 0,8 x 10	124,0	470	1
01279	F20x1x2	20 x 1 x 2	40,0	280	1
01027	F20x1x3	20 x 1 x 3	60,0	363	1
01087	F20x1x4	20 x 1 x 4	80,0	406	1
01088	F20x1x5	20 x 1 x 5	100,0	423	1
01028	F20x1x6	20 x 1 x 6	120,0	465	1
01089	F20x1x8	20 x 1 x 8	160,0	546	1
01029	F20x1x10	20 x 1 x 10	200,0	649	1
01280	F24x1x2	24 x 1 x 2	48,0	384	1
01091	F24x1x3	24 x 1 x 3	72,0	418	1
01253	F24x1x4	24 x 1 x 4	96,0	470	1
01611	F24x1x5	24 x 1 x 5	120,0	519	1
01255	F24x1x6	24 x 1 x 6	144,0	573	1
01092	F24x1x8	24 x 1 x 8	192,0	681	1
01184	F24x1x10	24 x 1 x 10	240,0	744	1

approval for all types

Flexible bars are available also in tin plated copper.

(1) Width of a sheet x thickness of a sheet x number of sheets.

(2) For further information see table on page 268.

FLEXIBLE COPPER BARS

Description

The insulating coating is a high resistant black vinyl compound. The basic characteristics are: elongation max: 365%, shore A hardness: 85, breakdown strength: 19,6 N/mm², resistance to temperature during operation: -40°C / +105°C according to the UL 1581 standard, self-extinguishing V0 (UL-94), dielectric strength: 20 kV/mm



Insulated flexible copper bars

INSULATED FLEXIBLE COPPER BARS - LENGTH 2 METERS

code	type	dimensions ⁽¹⁾	section (mm ²)	rated current (A) (ΔT=50) ⁽²⁾	pack.
01093	F32x1x2	32 x 1 x 2	64	411	1
01281	F32x1x3	32 x 1 x 3	96	484	1
01095	F32x1x4	32 x 1 x 4	128	554	1
01612	F32x1x5	32 x 1 x 5	160	648	1
01282	F32x1x6	32 x 1 x 6	192	723	1
01283	F32x1x8	32 x 1 x 8	256	870	1
01613	F32x1x10	32 x 1 x 10	320	1049	1
01097	F40x1x2	40 x 1 x 2	80	455	1
01098	F40x1x3	40 x 1 x 3	120	525	1
01210	F40x1x4	40 x 1 x 4	160	618	1
01614	F40x1x5	40 x 1 x 5	200	768	1
01256	F40x1x6	40 x 1 x 6	240	866	1
01257	F40x1x8	40 x 1 x 8	320	1048	1
01615	F40x1x10	40 x 1 x 10	400	1189	1
01211	F50x1x3	50 x 1 x 3	150	597	1
01212	F50x1x4	50 x 1 x 4	200	732	1
01060	F50x1x5	50 x 1 x 5	250	934	1
01213	F50x1x6	50 x 1 x 6	300	1043	1
01214	F50x1x8	50 x 1 x 8	400	1184	1
01509	F50x1x10	50 x 1 x 10	500	1404	1
01215	F63x1x5	63 x 1 x 5	315	1040	1
01216	F63x1x6	63 x 1 x 6	368	1226	1
01217	F63x1x8	63 x 1 x 8	504	1409	1
01510	F63x1x10	63 x 1 x 10	630	1617	1
01220	F80x1x5	80 x 1 x 5	400	1187	1
01221	F80x1x6	80 x 1 x 6	480	1387	1
01222	F80x1x8	80 x 1 x 8	640	1618	1
01061	F80x1x10	80 x 1 x 10	800	1791	1
01223	F100x1x4	100 x 1 x 4	400	1233	1
01224	F100x1x5	100 x 1 x 5	500	1393	1
01225	F100x1x6	100 x 1 x 6	600	1569	1
01226	F100x1x8	100 x 1 x 8	800	1830	1
01273	F100x1x10	100 x 1 x 10	1000	2001	1
01274	F100x1x12	100 x 1 x 12	1200	2129	1

approval for all types

Flexible bars are available also in tin plated copper.

(1) Width of a sheet x thickness of a sheet x number of sheets.

(2) For further information see table on page 268.

FLAT COPPER BRAIDS

Description

Made of red electrolytic or tinned copper, used for earth bonds in the electromechanical, railway and automotive sectors. The range is so wide that it meets any requirement related to electric panel design and to any kind of earth bond. The rounded shape of the head ensures easy mounting even with reduced space availability.



Copper braids

COPPER BRAIDS

code	type	section (mm ²)	length (mm)	mount. distance (mm)	width (mm)	thickness (mm)	hole diameter (mm)	pack.
30001	006R-R0120	6	120	100	12	2	6	10
30002	006R-R0170	6	170	150	12	2	6	10
30003	010R-R0120	10	120	100	17	3	8	10
30004	010R-R0170	10	170	150	17	3	8	10
30005	010R-R0220	10	220	200	17	3	8	10
30006	016R-R0120	16	120	100	17	3,5	8	10
30007	016R-R0170	16	170	150	17	3,5	8	10
30008	016R-R0220	16	220	200	17	3,5	8	10
30009	016R-R0270	16	270	250	17	3,5	8	10
30010	016R-R0320	16	320	300	17	3,5	8	10
30011	025R-R0120	25	120	100	22	3,5	8	10
30012	025R-R0170	25	170	150	22	3,5	8	10
30013	025R-R0220	25	220	200	22	3,5	8	10
30014	025R-R0270	25	270	250	22	3,5	8	10
30015	025R-R0320	25	320	300	22	3,5	8	10
30016	035R-R0120	35	120	100	22	4	8	10
30017	035R-R0170	35	170	150	22	4	8	10
30018	035R-R0220	35	220	200	22	4	8	10
30019	035R-R0270	35	270	250	22	4	8	10
30020	035R-R0320	35	320	300	22	4	8	10

TIN PLATED COPPER BRAIDS

code	type	section (mm ²)	length (mm)	mount. distance (mm)	width (mm)	thickness (mm)	hole diameter (mm)	pack.
30101	006S-S0120	6	120	100	12	2	6	10
30102	006S-S0170	6	170	150	12	2	6	10
30103	010S-S0120	10	120	100	17	3	8	10
30104	010S-S0170	10	170	150	17	3	8	10
30105	010S-S0220	10	220	200	17	3	8	10
30106	016S-S0120	16	120	100	17	3,5	8	10
30107	016S-S0170	16	170	150	17	3,5	8	10
30108	016S-S0220	16	220	200	17	3,5	8	10
30109	016S-S0270	16	270	250	17	3,5	8	10
30110	016S-S0320	16	320	300	17	3,5	8	10
30111	025S-S0120	25	120	100	22	3,5	8	10
30112	025S-S0170	25	170	150	22	3,5	8	10
30113	025S-S0220	25	220	200	22	3,5	8	10
30114	025S-S0270	25	270	250	22	3,5	8	10
30115	025S-S0320	25	320	300	22	3,5	8	10
30116	035S-S0120	35	120	100	22	4	8	10
30117	035S-S0170	35	170	150	22	4	8	10
30118	035S-S0220	35	220	200	22	4	8	10
30119	035S-S0270	35	270	250	22	4	8	10
30120	035S-S0320	35	320	300	22	4	8	10



Tin plated copper braids

INSULATED COPPER BRAIDS

code	type	section (mm ²)	length (mm)	mount. distance (mm)	width (mm)	thickness (mm)	hole diameter (mm)	pack.
30310	TL-025-230	25	252	230	20	2	8	10
30315	TL-025-330	25	352	330	20	2	8	10
30320	TL-025-430	25	452	430	20	2	8	10
30325	TL-025-530	25	552	530	20	2	8	10
30330	TL-025-630	25	652	630	20	2	8	10
30350	TL-050-230	50	255	230	20	4	8	10
30360	TL-050-330	50	355	330	20	4	8	10
30370	TL-050-430	50	455	430	20	4	8	10
30380	TL-050-530	50	555	530	20	4	8	10
30390	TL-050-630	50	655	630	20	4	8	10

COPPER BARS AND ACCESSORIES

Description

The copper bars are made of ETP copper: 99,9% -Hardness: HB 70/95 - Resistance at 20 °C: 0,01724 Ωmm²/m. The tin plated copper bars guarantee an effective protection against aggressive chemical agents. The current load resistance values comply with standard DIN 43671 and were tested under operating conditions.



Plain tin plated copper bars

PLAIN TIN PLATED COPPER BARS - 2,4 METERS LENGTH

code	type	dimensions (mm)	pack.
618	W618	12 x 5 x 2400	1
619	W619	15 x 5 x 2400	1
620	W620	20 x 5 x 2400	1
621	W621	25 x 5 x 2400	1
622	W622	30 x 5 x 2400	1
623	W623	12 x 10 x 2400	1
624	W624	20 x 10 x 2400	1
625	W625	30 x 10 x 2400	1
626	W626	40 x 10 x 2400	1
627	W627	50 x 10 x 2400	1
628	W628	60 x 10 x 2400	1
765	W765	80 x 10 x 2400	1
766	W766	100 x 10 x 2400	1

Permissible tolerances: width +0,1/-0,5 mm - thickness +0,1/-0,3 mm.



Plain copper bars

PLAIN COPPER BARS - TO 2 OR 4 METERS LENGTH

code (L = 2mt.)	type	code (L = 4mt.)	type	dimensions (mm)	pack.
12320	H12520	12340	H12540	12 x 5 x 2000-4000	1
15220	H15220	15240	H15240	15 x 2 x 2000-4000	1
15320	H15320	15340	H15340	15 x 3 x 2000-4000	1
15520	H15520	15540	H15540	15 x 5 x 2000-4000	1
20420	H20420	20440	H20440	20 x 4 x 2000-4000	1
20520	H20520	20540	H20540	20 x 5 x 2000-4000	1
20620	H20620	20640	H20640	20 x 6 x 2000-4000	1
21020	H21020	21040	H21040	20 x 10 x 2000-4000	1
25320	H25320	25340	H25340	25 x 3 x 2000-4000	1
25520	H25520	25540	H25540	25 x 5 x 2000-4000	1
21520	H21520	21540	H21540	25 x 10 x 2000-4000	1
30220	H30220	30240	H30240	30 x 2 x 2000-4000	1
31320	H30320	31340	H30340	30 x 3 x 2000-4000	1
30420	H30420	30440	H30440	30 x 4 x 2000-4000	1
30520	H30520	30540	H30540	30 x 5 x 2000-4000	1
30820	H30820	30840	H30840	30 x 8 x 2000-4000	1
31020	H31020	31040	H31040	30 x 10 x 2000-4000	1
33520	H35320	33540	H35340	35 x 3 x 2000-4000	1
40520	H40520	40540	H40540	40 x 5 x 2000-4000	1
40620	H40620	40640	H40640	40 x 6 x 2000-4000	1
41020	H41020	41040	H41040	40 x 10 x 2000-4000	1
50520	H50420	50540	H50440	50 x 4 x 2000-4000	1
55020	H50520	55040	H50540	50 x 5 x 2000-4000	1
50820	H50820	50840	H50840	50 x 8 x 2000-4000	1
51020	H51020	51040	H51040	50 x 10 x 2000-4000	1
51220	H51120	51240	H51140	50 x 12 x 2000-4000	1
60520	H60520	60540	H60540	60 x 5 x 2000-4000	1
61020	H61020	61040	H61040	60 x 10 x 2000-4000	1
63520	H63520	63540	H63540	63 x 5 x 2000-4000	1
80520	H80520	80540	H80540	80 x 5 x 2000-4000	1
86020	H80620	86040	H80640	80 x 6 x 2000-4000	1
81020	H81020	81040	H81040	80 x 10 x 2000-4000	1
81520	H81520	81540	H81540	80 x 15 x 2000-4000	1
10520	H10520	10540	H10540	100 x 5 x 2000-4000	1
11020	H11020	11040	H11040	100 x 10 x 2000-4000	1
12020	H12120	12040	H12140	120 x 10 x 2000-4000	1
20120	H20120	20140	H20140	200 x 10 x 2000-4000	1

All the bars have rounded edges r = 0,5 / 1 mm

COPPER BARS AND ACCESSORIES



Copper bars
with threaded holes

COPPER BARS WITH THREADED HOLES - LENGTH 1 METER

code	type	width (mm)	thickness (mm)	thread	holes distance (mm)	pack.
00122	H00122	12	2	M5	18	1-25
00124	H00124	12	4	M5	18	1-25
10512	H00153	15	3	M5	13,5	1-25
00155	H00155	15	5	M6	25	1-25
00205	H00205	20	5	M6	25	1-25
00210	H00210	20	10	M8	25	1-25
00254	H00254	25	4	M6	20	1-25
00255	H00255	25	5	M6	25	1-25
00325	H00325	32	5	M6	25	1-25

Made of the best quality electrolytic Cu-ETP copper, 99,9% - Hardness: HB 70/95 - Resistance at 20°C: 0,01724 Ωmm²/m - Smooth glossy finishing.

COPPER BARS WITH THREADED HOLES - LENGTH 2 METERS

code	type	width (mm)	thickness (mm)	thread	holes distance (mm)	pack.
00222	H00222	12	2	M5	18	1-25
00224	H00224	12	4	M5	18	1-25
00655	H00655	15	5	M6	25	1-25
00705	H00705	20	5	M6	25	1-25
00654	H00654	25	4	M6	20	1-25
00605	H00605	32	5	M6	25	1-25

Made of the best quality electrolytic Cu-ETP copper, 99,9% - Hardness: HB 70/95 - Resistance at 20°C: 0,01724 Ωmm²/m - Smooth glossy finishing.

EARTHING DISTRIBUTION BARS

code	type	rated current (A)	no. outlets	torque force (Nm)	pack.
00534	B0534	160	35	6	1
00542	B0542	125	45	5	1
01069	B1069	160	71	6	1
01084	B1084	125	90	5	1

To build small distribution systems (3P o 3P + N) or as auxiliary power supply. Material: copper and tin plated brass.



Earthing distribution bars



PE/N bars

PE/N BARS

code	type	no. 25 mm² inlet terminals	no. 10 mm² outlet terminals	dimensions (mm)	pack.
01926	W926	1 brida	1 clamp	9 x 6,5 x 61,5	100
01927	W927	1 brida	1 clamp	9 x 6,5 x 124	50
01928	W928	2 bride	2 clamps	9 x 6,5 x 186,5	50
01929	W929	3 bride	3 clamps	9 x 6,5 x 249	50
01930	W930	4 bride	4 clamps	9 x 6,5 x 311,5	50

With screw mounting, I=63A, self-locking.

COPPER BARS AND ACCESSORIES



Insulated busbars

400V INSULATED BUSBARS

code	type	poles	pitch	use with	section	length	pack.
<i>fork type connection</i>							
06026	B18 1P 16-G	1	18 mm	BCH 38	16 mm ²	981 mm	10
06027	B27 1P 20-G	1	27 mm	BCH 51	20 mm ²	985 mm	10
06029	B18 2P 16-G	2	18 mm	BCH 38	16 mm ²	1000 mm	10
06030	B18 3P 16-G	3	18 mm	BCH 38	16 mm ²	1014 mm	10
06032	B18 4P 16-G	4	18 mm	BCH 38	16 mm ²	1000 mm	10
<i>pin type connection</i>							
06020	B18 1P 16-S	1	18 mm	BCH 38	16 mm ²	981 mm	10
06022	B27 1P 16-S	1	27 mm	BCH 51	16 mm ²	981 mm	10
06024	B27 1P 35-S	1	27 mm	BCH 51	35 mm ²	1000 mm	10
06028	B18 2P 16-S	2	18 mm	BCH 38	16 mm ²	1000 mm	10
06021	B18 3P 16-S	3	18 mm	BCH 38	16 mm ²	1012 mm	10
06023	B27 3P 16-S	3	27 mm	BCH 51	16 mm ²	1045 mm	10
06025	B27 3P 30-S	3	27 mm	BCH 51	30 mm ²	1000 mm	10
06031	B18 4P 16-S	4	18 mm	BCH 38	16 mm ²	1000 mm	10



Connections clamps

PIN CONNECTION CLAMPS (FOR INSULATED BUSBARS)

code	type	pin lenght	pin width	clamp section	pack.
<i>side connection</i>					
06050	62513P	32 mm	4,3 mm	6÷25 mm ²	50
06052	6501P	14 mm	4,1 mm	6÷50 mm ²	25
06053	6503P	32 mm	7 mm	6÷50 mm ²	25
<i>front connection</i>					
06051	62513P	32 mm	4,3 mm	6÷25 mm ²	50
06054	6503P	14 mm	4,1 mm	6÷50 mm ²	25
06055	16951P			16÷95 mm ²	3
06056	16953P			16÷95 mm ²	3



Caps for insulated busbars

CAPS (FOR INSULATED BUSBARS)

code	type	for busbars	section	pack.
06062	1P30	1P	30 mm ²	50
06063	2P10	2P	10 mm ²	50
06060	3P16	3P	16 mm ²	50
06061	3P30	3P	30 mm ²	10
06064	4P16	4P	16 mm ²	50



Bar supports

BLOCK TYPE BUSBARS SUPPORT SYSTEM FOR 10 mm THICKNESS BUSBARS

code	type	for busbars	description	pack.
14400	B10	-	block	2
14410	S60	30/40/50/60 x 10 mm	lateral support	2
14420	S100	60/80/100 x 10 mm	lateral support	2

Material: polyester with glass fibre, halogen free and VO. Colour: RAL 3002.

BLOCK TYPE UNIVERSAL BUSBARS SUPPORT SYSTEM

code	type	description	pack.
14450	B UN	blocchetto universale	universal block
14460	S-B UN	supporto laterale	lateral support

The BL UN universal block can be used with bars having 5, 6, 8, 10 mm and with height between 30 and 120 mm.

COPPER BARS AND ACCESSORIES



Universal bars supports,
side protections and supports
for PE/N bars

BUSBARS SUPPORTS

code	type	poles	description	pack.
01495	W495	3	with holes for internal fixing screws	10
01500	W500	3	with holes for external fixing screws	10
01485	W485	4	with holes for internal fixing screws	10

Suitable for use with 12, 15, 20, 25, 30 x 5 - 10 mm plain bars.

SIDE PROTECTIONS

code	type	for supports	width (mm)	pack.
01573	W573	cod IW 01495 / cod IW 01500	166	10
01131	W131	cod IW 01485 (set 2 pezzi)	226	5

Code IW 01131: 2 pieces set composed by 1 cover for right side and 1 for left side.

SUPPORT FOR PE/N BARS

code	type	width (mm)	thickness (mm)	pack.
01489	W489	12, 15, 20, 25, 30	5 - 10	10

These supports can be mounted individually or connected to the bars support with IW code 01500. The PE and N plates are included.



"Stairs-shaped" support

"STAIRS-SHAPED" BUSBARS SUPPORT

code	type	description	pack.
14170	S4300	3P+N - per barre 15x5, 20x5, 25x5, 30x5, 32x5 3P+N - for 15x5, 20x5, 25x5, 30x5, 32x5 bars	2

Made of glass-fibre polyamide, halogen free, self-extinguishing class VO, dielectric strength 20kV between the phases and 19kV between phase and earth. Allows positioning the bars either with a 45° inclination or straight.



Universal bars support

UNIVERSAL BUSBARS SUPPORT

code	type	pack.
43020	B43020	10

Equipped with 15 slots for copper bars with dimensions ranging from 6 x 6 to 30 x 10 mm. Supplied complete with M6 x 35 screw for panel mounting.

COPPER BARS AND ACCESSORIES



Support for earthing
or distribution bars



Bars covers



Flexible bars anchoring
support



Ferrule

SUPPORT FOR EARTHING OR DISTRIBUTION BARS (12 X 4 OR 16 X 4)

code	type	pack.
41216	B41216	12

Material: self-extinguishing polyamide, grey RAL 7032; 690 V a.c.; 160°C.
For panel mounting. They can be coupled to the BD 43020 support.
Supplied complete with M6 x 20 screws.

BARS COVERS

code	type	for bars	length (m)	pack.
01244	W244	12 - 30 x 5 mm	1	10
01245	W245	12 - 30 x 10 mm	1	10
78463	W8463	12 x 5 mm	1	10

FLEXIBLE BAR ANCHORING SUPPORT

code	type	pack.
04050	S4050	4

Each support is fixed on a 35 mm DIN rail by means of a rotating bracket that locks it. They can be coupled to form series allowing to fix from one to several straps irrespective of their thickness and of their width.

FERRULES

code	type	ferrule width (mm)	hole diameter (mm)	for flexible bars	pack.
16940	B16940	16	Ø 9	with 4 or more sheets	10
16980	B16980	16	Ø 9	with 6 or more sheets	10
20112	B20112	20	Ø 11	with 2 or more sheets	10
24133	B24133	24	Ø 13	with 3 or more sheets	10
24135	B24135	24	Ø 13	with 5 or more sheets	10
32173	B32173	32	Ø 17	with 3 or more sheets	10
32176	B32176	32	Ø 17	with 6 or more sheets	10

Used to protect the ends of the flexible bars.

COPPER BARS AND ACCESSORIES



Tin plated
copper contact plate

TIN PLATED COPPER CONTACT PLATES

code	type	holes	flexible bar width (mm)	pack.
03230	P03230	1	32	6
04040	P04040	1	40	6
05050	P05050	1	50	6
06360	P06360	1	63	6
08080	P08080	4	80	3
00100	P00100	4	100	3

These plates guarantee a good contact surface between the flexible bar and the element to be mounted. Supplied complete with screws and nuts.



Busbar connector

BUSBARS CONNECTOR FOR FLEXIBLE BARS / PLAIN BARS

code	type	useful bars dimension (mm)	clamping capacity - max height (mm)	pack.
01996	W996	25 x 20	20	10
01997	W997	30 x 20	20	10
01586	W586	30 x 30	20	10
01587	W587	35 x 30	20	10
01206	W206	40 x 20	20	10

In chromium plated steel / tinned brass, with M6 clamping screws, hardness 8/8, they permit establishing a good contact without induction problems between the plain and the flexible bar. Tightening torque: 6 Nm.



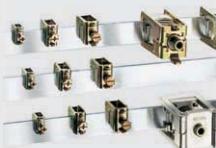
Distribution blocks

DISTRIBUTION BLOCKS

code	type	no. holes for single bar	poles	modules	I_n (A)	V_n (V)	pack.
22100	C2100	5 x ø 5,4 + 2 x ø 7,5	2P	4	100A	450V	4
22125	C2125	7 x ø 5,4 + 2 x ø 7,5 + 2 x ø 9	2P	6	125A	450V	2
22126	C2126	11 x ø 5,4 + 2 x ø 7,5 + 2 x ø 9	2P	8	125A	450V	2
24100	C4100	5 x ø 5,4 + 2 x ø 7,5	4P	4	100A	450V	2
24125	C4125	7 x ø 5,4 + 2 x ø 7,5 + 2 x ø 9	4P	6	125A	450V	1
24126	C4126	11 x ø 5,4 + 2 x ø 7,5 + 2 x ø 9	4P	8	125A	450V	1
24160	C4160	9 x ø 6,5 + 4 x ø 8,5 + 1 x ø 11	4P	10	160A	450V	1

Power distribution blocks, three-phases or three-phases plus neutral. The insulating support is made from V0 self-extinguishing polycarbonate. For DIN rail or panel mounting. With insulating shield for each brass bar.

COPPER BARS AND ACCESSORIES



Terminals for wires connection,
terminals for flexible
bars connection

CLAMPING CONNECTORS FOR PLAIN COPPER BARS

code	type	wire section min. - max (mm ²)	bars thickness (mm)	can be used up to max (A)	pack.
01284	W284	1,5 - 16	5	180	20
01285	W285	4 - 35	5	270	10
01287	W287	16 - 70	5	400	5
01068	W068	16 - 120	5	440	5
01289	W289	1,5 - 16	10	180	20
01290	W290	4 - 35	10	270	10
01292	W292	16 - 70	10	400	5
01203	W203	16 - 120	10	470	5
01318	W318	95 - 185	20 x 5 - 30 x 10	500	6
01760	W760	150 - 300	20 x 5 - 30 x 10	600	3

Clamping connectors are used for connecting wires and/or flexible bars to plain copper bars, they can be positioned directly on the bars, with 5 or 10 mm thickness and width from 12 to 30 mm, without any special process.

CLAMPING CONNECTORS FOR FLEXIBLE / PLAIN BARS

code	type	bars dimensions (mm)	pack.
01319	W319	30 x 20	6
01759	W759	32 x 20	3



Terminals protection covers

TERMINALS PROTECTION COVERS

dimensions in mm							
code	type	for wires	for bars	L	x	H	x
01590	W590	16 - 70 mm ²	12 - 30 x 5 / 10	54	x	200	x
01413	W413	16 - 120 mm ²	12 - 30 x 5 / 10	84	x	200	x
01756	W756	185 - 300 mm ²	20 - 30 x 5 / 10	135	x	200	x
						55	90
							1
							1
							1

They are made of non-toxic thermoplastic material (chlorine free), resistant to temperatures up to 120°C and can be mounted on three-poles busbar systems with 60 mm mounting distance to cover and protect the terminals.

INSULATORS, SPACING PILLARS, SPACERS

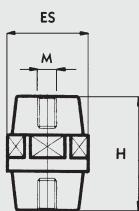
Description

They are made of red colour polyester resin reinforced with glass fibre, they guarantee a high resistance both to electrical stress and mechanical stress.

Halogen free material. A central hexagonal body permits easy mounting. Threaded inserts varying in size are built-in on both sides and permit using the isolator in a very wide range of applications.



Insulators



INSULATORS

dimensions in mm

code	type	H	M	ES	pack.
80012	D012	12	3	8	100
80016	D016	16	4	14	100
80017 ⁽¹⁾	D017	15	4	14	100
80018 ⁽¹⁾	D018	15	5	14	100
80020	D020	20	4	18	100
80120	D120	20	5	18	100
80220	D220	20	6	17	100
80025	D025	25	4	22	100
80125	D125	25	5	21	50
80225	D225	25	6	21	100
80325	D325	25	8	33	50
80030	D030	30	6	33	100
80130	D130	30	8	33	50
80035	D035	35	6	33	50
80036	D036	35	6	41	50
80135	D135	35	8	33	50
80137	D137	35	8	41	25
80235	D235	35	10	33	50
80336	D336	35	10	41	50
80041	D041	40	6	38	50
80040	D040	40	8	38	25
80140	D140	40	10	38	50
80240	D240	40	12	41	25
80044	D044	45	6	40	25
80045	D045	45	8	40	25
80145	D145	45	10	40	20
80046	D046	45	8	46	25
80146	D146	45	10	46	48
80245	D245	45	12	46	20
80050	D050	50	6	36	25
80350	D350	50	8	36	25
80150	D150	50	8	46	10
80450	D450	50	10	36	25
80250	D250	50	10	46	10
80550	D550	50	12	46	25
80055	D055	55	8	55	10
80155	D155	55	10	55	10
80255	D255	55	12	55	25
80060	D060	60	8	50	25
80160	D160	60	10	50	25
80260	D260	60	12	50	25
80163	D163	63	8	41	20
80263	D263	63	10	41	20
80065	D065	65	8	55	10
80165	D165	65	10	55	10
80265	D265	65	12	55	36
80070	D070	70	12	55	5
80170	D170	70	16	65	5
80270	D270	70	10	55	15
80175	D175	75	10	55	5
80275	D275	75	12	65	16
80076	D076	75	8	53	5
80176	D176	76	10	50	5
80276	D276	75	12	55	24
80082	D082	80	10	65	12
80080	D080	80	12	65	12
80180	D180	80	16	65	12
80100	D100	100	10	65	12
80200	D200	100	12	65	9
80300	D300	100	16	65	9

(1) Hexagonal shape through the total height of the insulator.

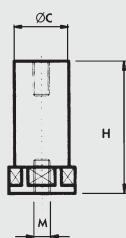
INSULATORS, SPACING PILLARS, SPACERS

Description

They are made of red colour polyester resin reinforced with glass fibre, they guarantee a high resistance both to electrical stress and mechanical stress.



Spacing pillars



SPACING PILLARS - Ø 20 mm

dimensions in mm

code	type	H	M	C	pack.
82001	C011	16	4	20	50
82019	C019	16	5	20	50
82027	C027	16	6	20	50
82035	C035	16	8	20	50
82111	C111	20	4	20	50
82119	C119	20	5	20	50
82127	C127	20	6	20	50
82135	C135	20	8	20	50
82221	C221	25	4	20	50
82219	C219	25	5	20	50
82227	C227	25	6	20	50
82235	C235	25	8	20	50
82311	C311	30	5	20	50
82319	C319	30	6	20	50
82327	C327	30	8	20	50
82411	C411	35	5	20	50
82419	C419	35	6	20	50
82427	C427	35	8	20	50
82511	C511	40	5	20	50
82519	C519	40	6	20	50
82527	C527	40	8	20	50
82611	C611	45	5	20	50
82619	C619	45	6	20	50
82627	C627	45	8	20	50
82711	C711	50	5	20	50
82719	C719	50	6	20	50
82727	C727	50	8	20	50

SPACING PILLARS - Ø 30 mm

dimensions in mm

code	type	H	M	C	pack.
82328	C328	30	8	30	25
82528	C528	40	8	30	25
82728	C728	50	8	30	25
82827	C827	55	8	30	25
82919	C919	60	6	30	25
82928	C928	60	8	30	25
82931	C931	65	6	30	25
82932	C932	65	8	30	25
82934	C934	70	6	30	25
82936	C936	70	8	30	25

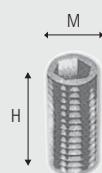
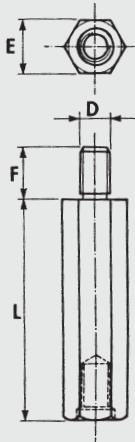
INSULATORS, SPACING PILLARS, SPACERS

Description

They are made of high resistance galvanically treated steel. They can be overlapped and it is therefore always possible to obtain the desired height.



Spacers



Screws without top

SPACERS

dimensions in mm

code	type	D	L	E	F	screw type	pack.
81410	S410	4	10	7	7	4 MA	25
81415	S415	4	15	7	7	4 MA	25
81420	S425	4	20	7	7	4 MA	25
81425	S425	4	25	7	7	4 MA	25
81430	S430	4	30	7	7	4 MA	25
81450	S450	4	50	7	7	4 MA	25
81470	S470	4	70	7	7	4 MA	25
81490	S490	4	90	7	7	4 MA	25
81495	S499	4	100	7	7	4 MA	25
81515	S515	5	15	8	7	5 MA	25
81520	S520	5	20	8	7	5 MA	25
81525	S525	5	25	8	7	5 MA	25
81530	S530	5	30	8	7	5 MA	25
81540	S540	5	40	8	7	5 MA	25
81550	S550	5	50	8	7	5 MA	25
81570	S570	5	70	8	7	5 MA	25
81590	S590	5	90	8	7	5 MA	25
81615	S615	6	15	10	10	6 MA	25
81620	S620	6	20	10	10	6 MA	25
81625	S625	6	25	10	10	6 MA	25
81630	S630	6	30	10	10	6 MA	25
81650	S650	6	50	10	10	6 MA	25
81670	S670	6	70	10	10	6 MA	25
81690	S690	6	90	10	10	6 MA	25
81815	S815	8	15	13	10	8 MA	10
81820	S820	8	20	13	10	8 MA	10
81825	S825	8	25	13	10	8 MA	10
81830	S830	8	30	13	10	8 MA	10
81850	S850	8	50	13	10	8 MA	10
81870	S870	8	70	13	10	8 MA	10
81890	S890	8	90	13	10	8 MA	10

SCREWS WITHOUT TOP

dimensions in mm

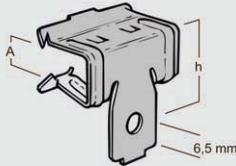
code	type	H	M	screw type	pack.
84001	V14-3	14	3	3 MA	100
84002	V14-4	14	4	4 MA	100
84003	V25-5	25	5	5 MA	100
84004	V20-6	20	6	6 MA	100
84005	V25-8	25	8	8 MA	100
84006	V30-8	30	8	8 MA	100
84007	V35-8	35	8	8 MA	100
84008	V35-10	35	10	10 MA	100
84009	V40-12	40	12	12 MA	100
84010	V50-16	50	16	16 MA	100

FIXING SYSTEMS FOR ELECTRICAL APPLICATIONS

BISCLIPS - FC SERIES

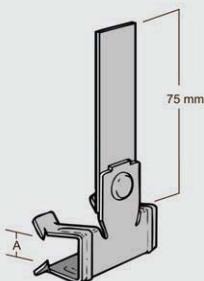
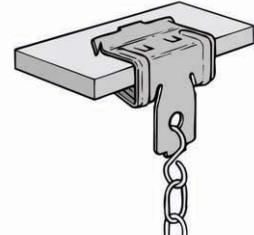
Description

The fixing systems constitute link between the structure carrier and the components that make up the various technological systems, mainly the electrical system, but also the lighting, air conditioning, etc.



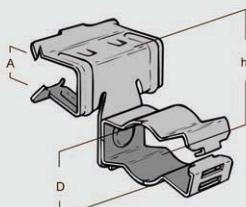
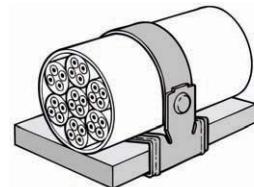
BASIC SUPPORTS

code	A (mm)	h (mm)	static load Fa-z (N)	surface treatment	pack.
W504	2-4	20	450	deltatone® 500	100
W509	5-9	16	950	deltatone® 500	100
W516	10-16	30	950	deltatone® 500	100
W520	17-20	32	950	deltatone® 500	100
W530	23-30	50	950	deltatone® 500	100
W559	5-9	21	950	deltatone® 500	25
W566	10-16	30	950	deltatone® 500	25
W570	17-20	32	950	deltatone® 500	25



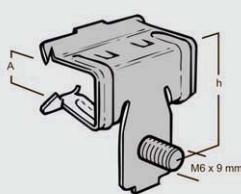
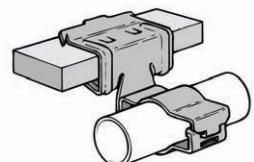
SUPPORT WITH FLEXIBLE STRIP FOR CABLES

code	A (mm)	surface treatment	pack.
W5509	5-9	deltatone® 500	100
W5516	10-16	deltatone® 500	100
W5520	17-20	deltatone® 500	100
W5530	23-30	deltatone® 500	100
W5559	5-9	deltatone® 500	25
W5566	10-16	deltatone® 500	25
W5570	17-20	deltatone® 500	25



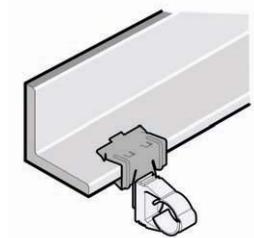
SUPPORT WITH HORIZONTAL CONDUIT CLIP SWIVELS 360°

code	D (mm)	A (mm)	h (mm)	static load Fa-z (N)	surface treatment	pack.
W5409	18-24	5-9	16	450	deltatone® 500	50
W5416	18-24	10-16	30	450	deltatone® 500	50
W5420	18-24	17-20	32	450	deltatone® 500	50
W5430	18-24	23-30	50	450	deltatone® 500	50
W5609	22-26	5-9	16	450	deltatone® 500	50
W5616	22-26	10-16	30	450	deltatone® 500	50
W5620	22-26	17-20	32	450	deltatone® 500	50
W5630	22-26	23-30	50	450	deltatone® 500	50
W5209	30-32	5-9	16	450	deltatone® 500	50
W5216	30-32	10-16	30	450	deltatone® 500	50
W5220	30-32	17-20	32	450	deltatone® 500	50
W5230	30-32	23-30	50	450	deltatone® 500	50

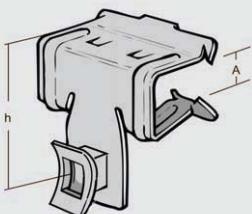


SUPPORTS WITH SCREW M6

code	A (mm)	h (mm)	static load Fa-z (N)	surface treatment	pack.
W50604	2-4	20	450	deltatone® 500	100
W50609	5-9	21	450	deltatone® 500	100
W50616	10-16	30	450	deltatone® 500	100
W50620	17-20	32	450	deltatone® 500	100
W50630	23-30	50	450	deltatone® 500	100

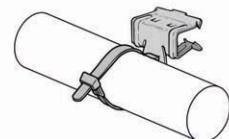


FIXING SYSTEMS FOR ELECTRICAL APPLICATIONS BISCLIPS - FC SERIES



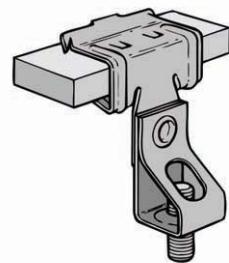
SUPPORTS WITH SADDLE FOR CABLE TIE

code	A (mm)	h (mm)	static load Fa-z (N)	surface treatment	pack.
W5039	5-9	21	220	deltatone® 500	100
W50316	10-16	30	220	deltatone® 500	100
W50320	17-20	32	220	deltatone® 500	100
W50359	5-9	21	220	deltatone® 500	25
W50366	10-16	30	220	deltatone® 500	25
W50370	17-20	32	220	deltatone® 500	25



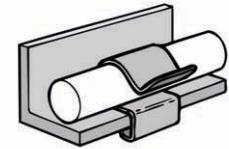
SUPPORT WITH THREADED BAR HOLDER

code	A (mm)	G	h (mm)	static load Fa-z (N)	surface treatment	pack.
W50409	5-9	M6	51	650	deltatone® 500	100
W50459	5-9	M6	51	650	deltatone® 500	25
W50416	10-16	M6	56	650	deltatone® 500	100
W50466	10-16	M6	56	650	deltatone® 500	25

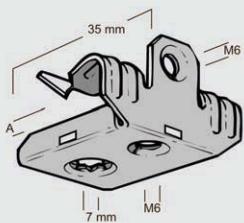


SUPPORT "S" FOR A QUICK FIXING OF CABLES

code	D (mm)	A (mm)	surface treatment	pack.
W52604	4,5-5,5	2-4	deltatone® 500	100
W52704	6-7	2-4	deltatone® 500	100
W52904	7-9	2-4	deltatone® 500	100
W52104	10-12	2-4	deltatone® 500	100
W52404	12-14	2-4	deltatone® 500	100
W52804	15-18	2-4	deltatone® 500	100
W52404	19-24	2-4	deltatone® 500	100
W53004	25-30	2-4	deltatone® 500	100
W50607	4,5-5,5	4-7	deltatone® 500	100
W50707	6-7	4-7	deltatone® 500	100
W50907	7-9	4-7	deltatone® 500	100
W51107	10-12	4-7	deltatone® 500	100
W51407	12-14	4-7	deltatone® 500	100
W51807	15-18	4-7	deltatone® 500	100
W52407	19-24	4-7	deltatone® 500	100
W53007	25-30	4-7	deltatone® 500	100
W50612	4,5-5,5	8-12	deltatone® 500	100
W50712	6-7	8-12	deltatone® 500	100
W50912	7-9	8-12	deltatone® 500	100
W51112	10-12	8-12	deltatone® 500	100
W51412	12-14	8-12	deltatone® 500	100
W51812	15-18	8-12	deltatone® 500	100
W52412	19-24	8-12	deltatone® 500	100
W53012	25-30	8-12	deltatone® 500	100

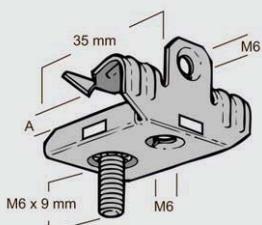
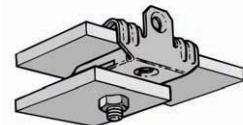


FIXING SYSTEMS FOR ELECTRICAL APPLICATIONS BISCLIPS - FU SERIES



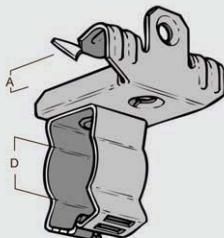
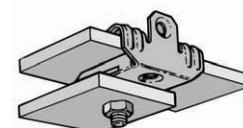
HORIZONTALS BASIC SUPPORT

code	A (mm)	static load Fa-z (N)	surface treatment	pack.
W51407	3-7	350	deltatone® 500	100
W51413	8-12,5	500	deltatone® 500	100
W51420	14-20	500	deltatone® 500	100
W51457	3-7	350	deltatone® 500	25
W51463	8-12,5	500	deltatone® 500	25
W51470	14-20	500	deltatone® 500	25



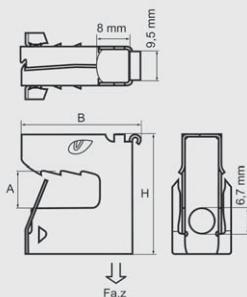
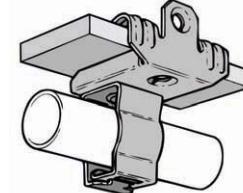
HORIZONTALS SUPPORT WITH SCREW M6

code	A (mm)	static load Fa-z (N)	surface treatment	pack.
W51507	3-7	350	deltatone® 500	100
W51513	8-12,5	500	deltatone® 500	100
W51520	14-20	500	deltatone® 500	100
W51557	3-7	350	deltatone® 500	25
W51563	8-12,5	500	deltatone® 500	25
W51570	14-20	500	deltatone® 500	25



SUPPORTS WITH VERTICAL CONDUIT CLIP SWIVELS 360°

code	D (mm)	A (mm)	static load Fa-z (N)	surface treatment	pack.
W512407	18-24	3-7	350	deltatone® 500	50
W512413	18-24	8-12,5	450	deltatone® 500	50
W512420	18-24	14-20	450	deltatone® 500	50
W512607	22-26	3-7	350	deltatone® 500	50
W512613	22-26	8-12,5	450	deltatone® 500	50
W512620	22-26	14-20	450	deltatone® 500	50
W513207	30-32	3-7	350	deltatone® 500	50
W513213	30-32	8-12,5	450	deltatone® 500	50
W513220	30-32	14-20	450	deltatone® 500	50



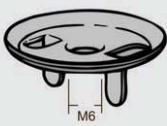
MULTI PURPOSE CLIP "TIGER" HIGH PERFORMANCE

code	A (mm)	B (mm)	H (mm)	static load Fa-z (N)	surface treatment	pack.
W51808	2-8	30	30	1200	deltatone® 500	100
W51816	8-16	32	38	1200	deltatone® 500	100

Material: tempered steel

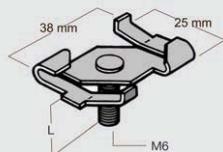


FIXING SYSTEMS FOR ELECTRICAL APPLICATIONS BISCLIPS - AC SERIES



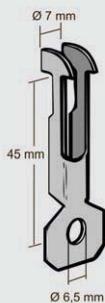
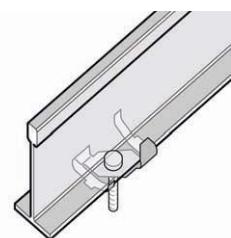
"TWIST" SUPPORT

code	static load $F_{a,z}$ (N)	surface treatment	pack.
W565106	220	deltatone® 500	100
W565156	220	deltatone® 500	25



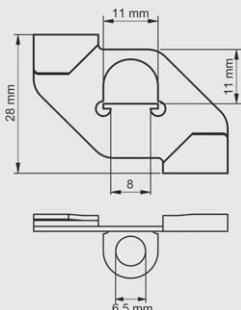
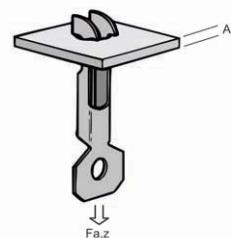
"TWIST" SUPPORT WITH SCREW M6

code	L (mm)	static load $F_{a,z}$ (N)	surface treatment	pack.
W565102	11	220	deltatone® 500	100
W565602	16	220	deltatone® 500	100
W565502	25	220	deltatone® 500	100
W565652	16	220	deltatone® 500	25
W565552	25	220	deltatone® 500	25



SUPPORT FOR FIXING TO ROOFING SHEETS

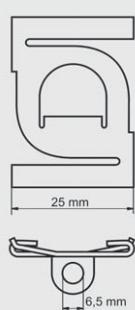
code	A (mm)	static load $F_{a,z}$ (N)	surface treatment	pack.
W54000	0,8-2,0 / 2,0-3,0	470 / 950	deltatone® 500	100



"TWIST" SUPPORT WITH FIXING HOLE

code	surface treatment	pack.
W31025	zinc plated	100
W91025	epoxi-powder coated	100

Material: steel 1.0032



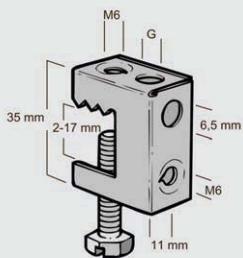
"TWIST" SUPPORT WITH FIXING HOLE AND WINGS

code	static load $F_{a,z}$ (N)	surface treatment	pack.
W90025	220	zinc plated	100
W90075	220	zinc plated	25
W30025	220	epoxi-powder coated	100

Material: steel 1.0032

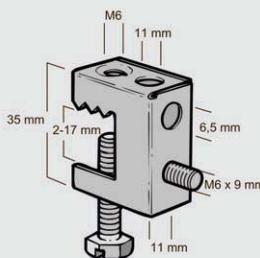
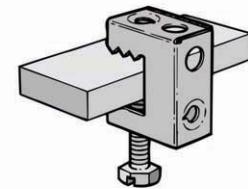


FIXING SYSTEMS FOR ELECTRICAL APPLICATIONS BISCLIPS - AC SERIES



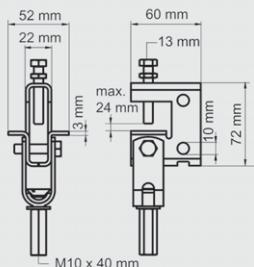
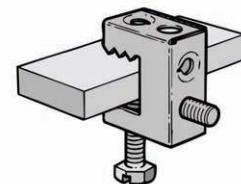
CLAMP SUPPORT

code	G (mm)	static load Fa-z (N)	surface treatment	pack.
W1117	ø 11	550	deltatone® 500	100
W1167	ø 11	550	deltatone® 500	25



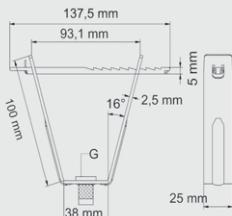
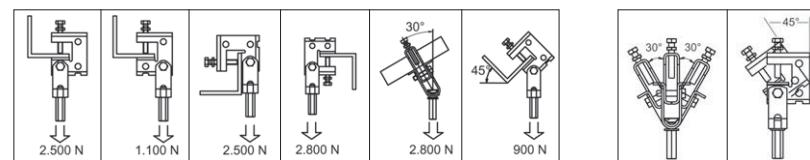
SUPPORTI A MORSETTO CON VITE ORIZZONTALE CLAMP SUPPORT WITH HORIZONTAL SCREW

code	static load Fa-z (N)	surface treatment	pack.
W0617	550	deltatone® 500	100
W0667	550	deltatone® 500	25



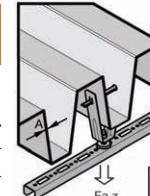
MULTIDIRECTIONAL CLAMP

code	description	surface treatment	pack.
W6000	up to flange thickness 24 mm	dacromet®	10

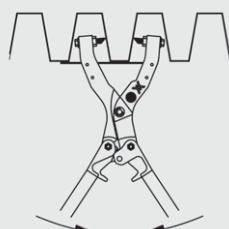


TRAPEZIUM SHAPED SUPPORT

code	G	surface treatment	pack.
W8106	M6	pre galvanized	50
W8108	M8	pre galvanized	50
W8110	M10	pre galvanized	50



A (mm)	Fa,z (N)
0,63 - 0,70	630
0,70 - 0,80	740
0,80 - 1,00	850
1,00 - 1,20	1.050
1,20 - 1,50	1.250
> 1,50	1.550



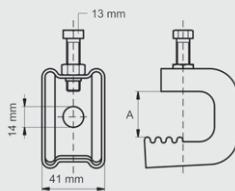
HOLE PUNCHING PLIER

code	jaw opening max (mm)	ø punches (mm)	weight (kg)	pack.
W60012	90	10,5	5,5	1



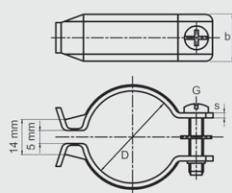
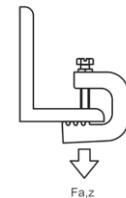
FIXING SYSTEMS FOR ELECTRICAL APPLICATIONS

SPECIAL FIXING



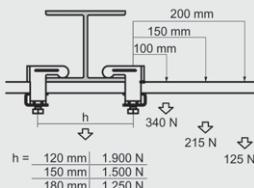
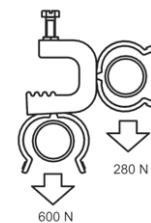
BEAM CLAMPS

code	A (mm)	static load Fa-z (N)	surface treatment	pack.
W77020	20	1100	dacromet®	25
W77030	30	1200	dacromet®	25
W77045	45	1300	dacromet®	25



ACCESSORIES FOR BEAM CLAMPS

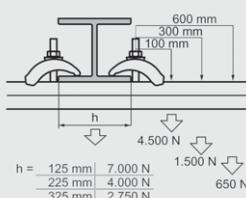
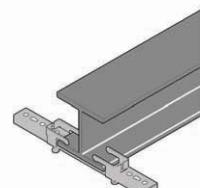
code	D (mm)	G	b x s (mm)	surface treatment	pack.
W77225	20,4-25	M5	16 x 1,5	dacromet®	50
W77231	26,9-31,8	M5	16 x 1,5	dacromet®	50
W77244	40-44,5	M6	20 x 1,5	dacromet®	50



"LIGHT DUTY" RAILS WITH ACCESSORIES

code	flange thickness (mm)	rail length (mm)	surface treatment	pack.
W71300	max 20	300	zincato zinc plated	20
W71500	max 20	500	zincato zinc plated	15

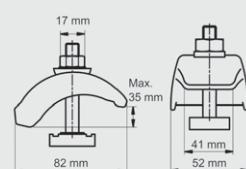
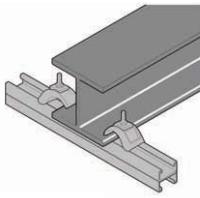
The code includes one rail (30 x 15 mm), two terminals and two caps for the ends of rail



"HEAVY DUTY" RAILS WITH ACCESSORIES

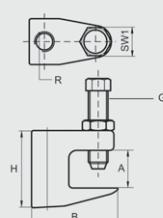
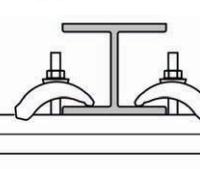
code	flange thickness (mm)	rail length (mm)	surface treatment	pack.
W73300	max 35	300	dacromet®	4
W73600	max 35	600	dacromet®	4

The code includes one rail (41 x 21 mm) double, two terminals and four caps for the ends of rail



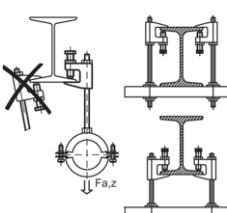
"HEAVY DUTY" BEAM CLAMP

code	flange thickness (mm)	surface treatment	pack.
W72002	max 35 mm	dacromet®	20

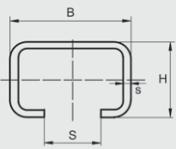


SAFETY BEAM CLAMP

code	A (mm)	R (mm)	G (mm)	B (mm)	SW1 (mm)	H (mm)	static load Fa-z (N)	surface treat.	pack.
W03908	23	9 mm	M10	50	13	45	2500	zinc plated	50
W03106	23		M6	M8	50	17	45	zinc plated	30
W03108	23		M8	M10	50	13	45	zinc plated	30
W03110	20		M10	M10	44	17	42	zinc plated	30



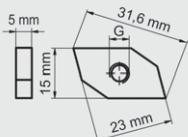
FIXING SYSTEMS FOR ELECTRICAL APPLICATIONS RAILS AND ACCESSORIES - WM SERIES



FIXING RAIL WITH CONTINUOUS PERFORATION "C" SHAPED

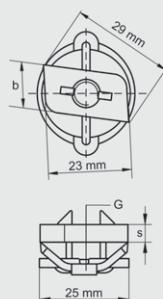
code	type	length (m)	B (mm)	H (mm)	S (mm)	s (mm)	surface treat.	pack.
W05000	WM0	2	27	18	15	1,2	pre galvanized	20
W05600	WM0	6	27	18	15	1,2	pre galvanized	60
W05001	WM1	2	30	15	15	2	pre galvanized	20
W05601	WM1	6	30	15	15	2	pre galvanized	60
W05002	WM2	2	30	30	15	2	pre galvanized	20
W05602	WM2	6	30	30	15	2	pre galvanized	60

Material: steel 1.0242



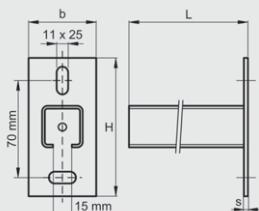
FIXING ACCESSORIES FOR RAILS (SLIDE NUTS)

code	G	surface treatment	pack.
W13006	M6	zinc plated	100
W13008	M8	zinc plated	100
W13010	M10	zinc plated	100



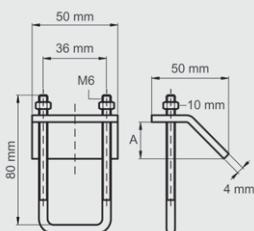
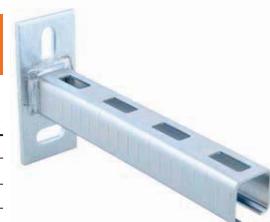
FIXING ACCESSORIES FOR RAILS (SLIDE NUTS WITH WASHER AND SPRING)

code	G	b x s (mm)	static load Fa-z (N)	surface treatment	pack.
W13106	M6	13,5 x 4	2000	zinc plated	50
W13108	M8	13,5 x 5	2700	zinc plated	50
W13110	M10	14 x 5	2900	zinc plated	50



CANTILEVER ARMS "C" SHAPED

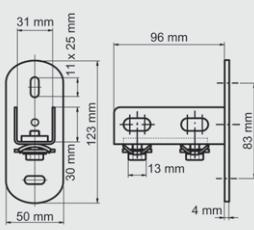
code	type	L (mm)	H (mm)	b x s (mm)	surface treatment	pack.
W63015	WM0	150	110	38 x 5	zinc plated	20
W63019	WM0	200	110	38 x 5	zinc plated	20
W63120	WM1	200	110	48 x 5	zinc plated	20
W63130	WM1	300	110	48 x 5	zinc plated	20
W63220	WM2	200	110	48 x 5	zinc plated	10
W63230	WM2	300	110	48 x 5	zinc plated	10
W63240	WM2	400	110	48 x 5	zinc plated	20
W63250	WM2	500	110	48 x 5	zinc plated	20



SPECIAL FIXING ACCESSORY

code	A (mm)	static load Fa-z (N)	surface treatment	pack.
W85011	max 20	4500	zinc plated	50

Always use 2 beam clamps per fixing



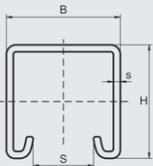
ACCESSORY FOR WALL FIXING OF RAILS WM SERIES

code	description	surface treatment	pack.
W13200	wall plate "U" profile	zinc plated	25

Material: steel 1.0332



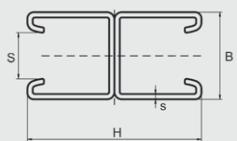
FIXING SYSTEMS FOR ELECTRICAL APPLICATIONS RAILS AND CANTILEVERS - RAPIDSTRUT SERIES



SLOTTED RAILS (TYPE 41 x 21)

code	length (m)	B (mm)	H (mm)	s (mm)	surface treatment	pack.	
W65324	3	41	21	22	1,5	pre galvanized	30
W65624	6	41	21	22	1,5	pre galvanized	60
W65325	3	41	21	22	2,5	pre galvanized	30
W65625	6	41	21	22	2,5	pre galvanized	60
W65345	3	41	41	22	2,5	pre galvanized	30
W65645	6	41	41	22	2,5	pre galvanized	60

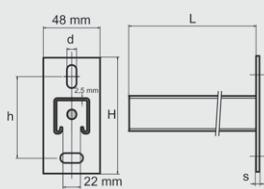
Material: steel 1.0242



DOUBLE RAILS SLOTTED

code	type	length (m)	B (mm)	H (mm)	s (mm)	surface treatment	pack.	
W65626	41 x 21D	6	41	42 (21 x 2)	22	2,5	pre galvanized	6
W65646	41 x 41D	6	41	82 (41 x 2)	22	2,5	pre galvanized	6

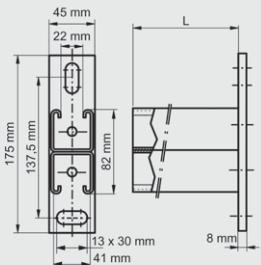
Material: steel 1.0332



SLOTTED CANTILEVERS

code	type	d (mm)	L (mm)	H (mm)	s (mm)	h (mm)	surface treatment	pack.
W61831	41 x 21	11 x 25	200	110	5	70	hot dip galvanized	10
W61832	41 x 21	11 x 25	300	110	5	70	hot dip galvanized	10
W61862	41 x 41	13 x 30	300	130	7	87,5	hot dip galvanized	10
W61863	41 x 41	13 x 30	450	130	7	87,5	hot dip galvanized	10
W61864	41 x 41	13 x 30	600	130	7	87,5	hot dip galvanized	8
W61865	41 x 41	13 x 30	750	130	7	87,5	hot dip galvanized	8

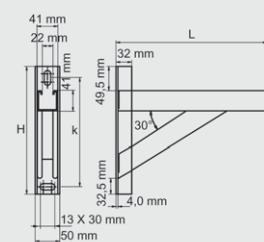
Material: steel 1.0332



DOUBLE CANTILEVERS SLOTTED (TYPE 41 x 41D)

code	L (mm)	surface treatment	pack.
W61883	450	hot dip galvanized	8
W61884	600	hot dip galvanized	4
W61885	750	hot dip galvanized	4

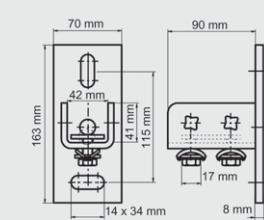
Material: steel 1.0332



SLOTTED CANTILEVER WITH RAIL PROP (TYPE 41 x 41)

code	L (mm)	H (mm)	k (mm)	surface treatment	pack.
W61894	600	350	311,5	hot dip galvanized	1

Material: steel 1.0332



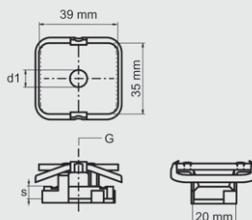
WALL PLATE ACCESSORY FOR RAILS RAPIDSTRUT SERIES

code	description	surface treatment	pack.
W673400	"U" profile	zinc plated	10

Material: steel 1.0332



FIXING SYSTEMS FOR ELECTRICAL APPLICATIONS ACCESSORIES RAPIDSTRUT SERIES AND STEEL ACCESSORIES

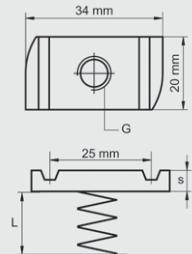


FIXING ACCESSORIES RAPIDSTRUT - SLIDE NUTS WITH WASHER

code	G	d1 (mm)	s (mm)	static load Fa-z (N)	surface treatment	pack.
W617108	M8	8,5	6	6000	zinc plated	20
W617110	M10	10,5	8	9500	zinc plated	20
W617112	M12	12,5	10	10000	zinc plated	20



Material: steel 1.0332

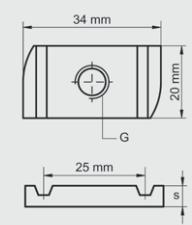


FIXING ACCESSORIES RAPIDSTRUT - SLIDE NUTS WITH SPRING

code	G	s (mm)	static load Fa-z (N)	surface treatment	pack.
W67006	M6	5	9600	zinc plated	100
W67008	M8	6	9600	zinc plated	100
W67010	M10	8	10900	zinc plated	100
W67012	M12	10	10900	zinc plated	100



Material: steel 1.0332

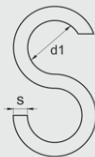


FIXING ACCESSORIES RAPIDSTRUT - NUTS WITH PLASTIC PLATE

code	G	s (mm)	surface treatment	pack.
W68606	M6	5	zinc plated	100
W68608	M8	6	zinc plated	100
W68610	M10	8	zinc plated	100
W68612	M12	10	zinc plated	100

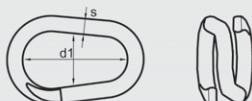


Material: steel 1.0332



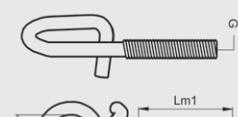
STEEL FIXING ACCESSORIES - "S" HOOKS

code	d1 (mm)	s (mm)	static load Fa-z (N)	surface treatment	pack.
W691040	ø 11	4	250	zinc plated	100
W691050	ø 14	5	400	zinc plated	100



STEEL FIXING ACCESSORIES - SPLITTED S-HOOKS

code	d1 (mm)	s (mm)	static load Fa-z (N)	surface treatment	pack.
W692040	8 x 20	4	550	zinc plated	300



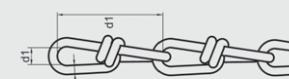
STEEL FIXING ACCESSORIES - "PIG TAIL" CHAIN HOOKS

code	G	d1 (mm)	Lm1 (mm)	static load Fa-z (N)	surface treatment	pack.
W690006	M6	15	40	400	zinc plated	100
W690008	M8	16,5	30	600	zinc plated	100



STEEL FIXING ACCESSORIES - THREADED RODS (DIN 976-1)

code	G	L (m)	surface treatment	pack.
W63206	M6	2	zinc plated	50
W63008	M8	1	zinc plated	50
W63010	M10	1	zinc plated	25
W63012	M12	1	zinc plated	20



STEEL FIXING ACCESSORIES - CHAINS (DIN 5686)

code	length	d1 (mm)	s (mm)	static load Fa-z (N)	surface treatment	pack.
W02022	30	28 x 5	2	400	zinc plated	1
W02027	30	35 x 6	2,5	700	zinc plated	1
W03032	30	41 x 8	3,1	1050	zinc plated	1



DIMENSIONS AND SPECIFICATIONS FLEXIBLE COPPER BARS

FLEXIBLE COPPER BARS

Technical specifications and dimensions in mm

Flexible copper bars

The following table shows the various permissible current intensity values for each type of flexible bar according to their section. In addition it indicates the heating caused by the flowing current according to the section of the copper bar.

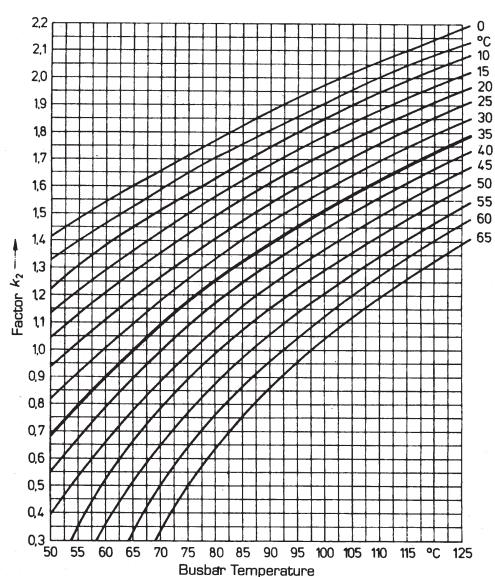
type	dimensions	section mm ²	thermal increase (ΔT)						
			20	30	40	50 ⁽¹⁾	60	70	80
			current intensity (A)						
F 9x0,8x2	9 x 0,8 x 2	14,4	59	74	86	96	105	113	120
F 9x0,8x3	9 x 0,8 x 3	21,6	83	104	121	136	149	160	170
F 9x0,8x4	9 x 0,8 x 4	28,8	106	133	155	173	189	204	216
F 9x0,8x5	9 x 0,8 x 5	36	142	177	206	231	253	272	289
F 9x0,8x6	9 x 0,8 x 6	43,2	177	221	258	289	316	340	361
F 13x0,5x2	13 x 0,5 x 2	13	75	97	116	132	147	160	171
F 13x0,5x3	13 x 0,5 x 3	19,5	93	120	143	163	181	198	214
F 13x0,5x4	13 x 0,5 x 4	26	108	140	166	190	211	231	250
F 13x0,5x6	13 x 0,5 x 6	39	135	174	207	237	263	288	302
F 13x0,5x10	13 x 0,5 x 10	65	180	232	276	316	351	383	412
F 15,5x0,8x2	15,5 x 0,8 x 2	24,8	102	128	149	167	183	197	209
F 15,5x0,8x3	15,5 x 0,8 x 3	37,2	143	179	208	233	255	274	291
F 15,5x0,8x4	15,5 x 0,8 x 4	39,6	197	247	288	322	353	379	403
F 15,5x0,8x6	15,5 x 0,8 x 6	74,4	255	319	371	416	455	489	519
F 15,5x0,8x8	15,5 x 0,8 x 8	99,2	281	351	409	458	501	539	572
F 15,5x0,8x10	15,5 x 0,8 x 10	124	268	345	411	470	523	571	615
F 20x1x2	20 x 1 x 2	40	172	215	250	280	306	329	350
F 20x1x3	20 x 1 x 3	60	222	278	324	363	397	427	453
F 20x1x4	20 x 1 x 4	80	249	311	363	406	444	478	507
F 20x1x5	20 x 1 x 5	100	259	324	378	423	463	497	528
F 20x1x6	20 x 1 x 6	120	285	356	415	465	509	547	581
F 20x1x8	20 x 1 x 8	160	335	419	488	546	597	642	682
F 20x1x10	20 x 1 x 10	200	397	497	579	649	709	763	810
F 24x1x2	24 x 1 x 2	48	235	294	342	384	419	451	478
F 24x1x3	24 x 1 x 3	72	256	320	373	418	457	491	522
F 24x1x4	24 x 1 x 4	96	288	360	420	470	514	553	587
F 24x1x5	24 x 1 x 5	120	318	398	463	519	568	610	648
F 24x1x6	24 x 1 x 6	144	351	439	511	573	626	674	716
F 24x1x8	24 x 1 x 8	192	417	522	607	681	744	800	850
F 24x1x10	24 x 1 x 10	240	456	570	664	744	814	875	930
F 32x1x2	32 x 1 x 2	64	252	315	367	411	450	483	514
F 32x1x3	32 x 1 x 3	96	296	371	432	484	529	569	604
F 32x1x4	32 x 1 x 4	128	340	425	495	554	606	652	693
F 32x1x5	32 x 1 x 5	160	397	496	578	648	708	762	809
F 32x1x6	32 x 1 x 6	192	443	554	645	723	790	850	903
F 32x1x8	32 x 1 x 8	256	533	667	777	870	951	1023	1087
F 32x1x10	32 x 1 x 10	320	642	804	936	1049	1147	1233	1310
F 40x1x2	40 x 1 x 2	80	279	349	406	455	498	535	569
F 40x1x3	40 x 1 x 3	120	322	403	469	525	575	618	656
F 40x1x4	40 x 1 x 4	160	379	474	552	618	676	727	772
F 40x1x5	40 x 1 x 5	200	471	589	686	768	840	903	959
F 40x1x6	40 x 1 x 6	240	530	663	773	866	947	1018	1081
F 40x1x8	40 x 1 x 8	320	642	803	936	1048	1146	1233	1309
F 40x1x10	40 x 1 x 10	400	728	911	1061	1189	1300	1397	1484
F 50x1x3	50 x 1 x 3	150	365	457	532	597	652	701	745
F 50x1x4	50 x 1 x 4	200	449	561	654	732	801	861	914
F 50x1x5	50 x 1 x 5	250	572	716	834	934	1021	1098	1167
F 50x1x6	50 x 1 x 6	300	639	799	931	1043	1140	1126	1302
F 50x1x8	50 x 1 x 8	400	725	907	1057	1184	1295	1392	1479
F 50x1x10	50 x 1 x 10	500	860	1076	1253	1404	1535	1651	1754
F 63x1x5	63 x 1 x 5	315	637	797	928	1040	1137	1223	1299
F 63x1x6	63 x 1 x 6	378	751	940	1095	1226	1341	1442	1532
F 63x1x8	63 x 1 x 8	504	863	1079	1257	1409	1540	1656	1760
F 63x1x10	63 x 1 x 10	630	990	1239	1443	1617	1768	1901	2019
F 80x1x5	80 x 1 x 5	400	727	909	1059	1187	1298	1395	1482
F 80x1x6	80 x 1 x 6	480	849	1063	1238	1387	1516	1630	1732
F 80x1x8	80 x 1 x 8	640	991	1240	1444	1618	1769	1902	2021
F 80x1x10	80 x 1 x 10	800	1097	1372	1599	1791	1958	2106	2237
F 100x1x4	100 x 1 x 4	400	755	945	1100	1233	1348	1449	1540
F 100x1x5	100 x 1 x 5	500	853	1067	1243	1393	1523	1638	1739
F 100x1x6	100 x 1 x 6	600	961	1202	1400	1569	1715	1845	1959
F 100x1x8	100 x 1 x 8	800	1121	1402	1634	1830	2001	2152	2286
F 100x1x10	100 x 1 x 10	1000	1226	1533	1786	2001	2188	2353	2499
F 100x1x12	100 x 1 x 12	1200	1304	1631	1900	2129	2328	2503	2659

(1) Recommended value (in case of forced ventilation the values can be increased by 20-25%)

DIMENSIONS AND SPECIFICATIONS PLAIN COPPER BARS

PLAIN COPPER BARS

Technical specifications



Capacity of the copper bars The rated current capacity of the bars varies according to the ambient temperature at which they are installed. For this reason, in order to establish the actual rated capacity, it is necessary to calculate a correction factor (K_2) according to the DIN 43671 standards. Consequently, if the installed components have a high resistance to temperatures, a higher capacity can be obtained.

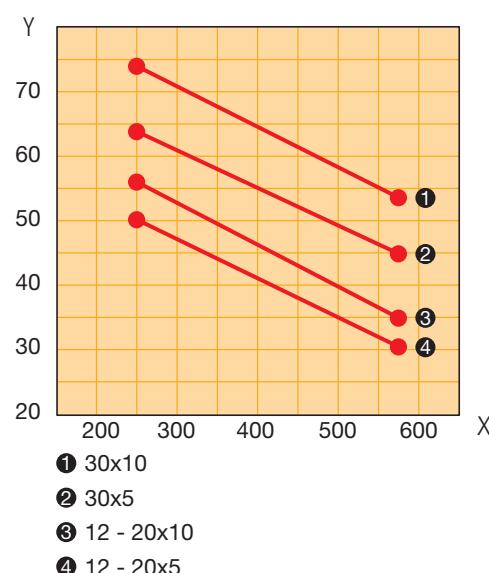
Example

A 30x10 bars system, installed in an environment with temperature of approx. 35 °C has a 630A ($K_2 = 1$) capacity. To obtain a capacity of 800 A at the same ambient temperature, it is necessary to take into consideration a correction factor $K_2 = 1,3$ ($630 \text{ A} \times 1,3 = 800 \text{ A}$).

The diagram above shows that, considering this data (amb. temp. 35 °C, $K_2 = 1,3$) the temperature of the bars will be 85 °C. This means that, the bars can fit components (bar supports, accessories, etc) that have a temperature resistance of at least 85 °C.

Busbars system resistance to short circuit current diagram.

Y: short circuit current (kA)
X: distance between the busbars supports (mm)

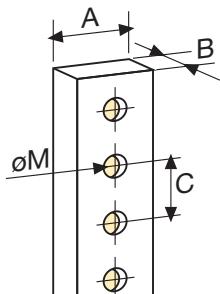


IMENSIONS AND SPECIFICATIONS UPPER BARS

COPPER BARS

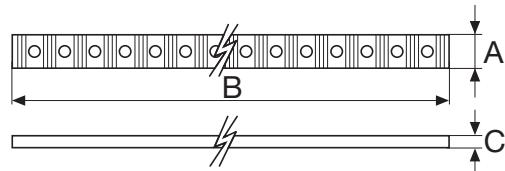
Dimensions in mm

Copper bars with threaded holes



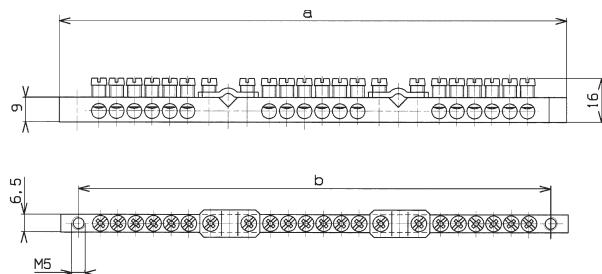
1 m type	2 m type	A	B	C	thread
H00122	H00222	12	2	18	M5
H00124	H00224	12	4	18	M5
H00153	–	15	3	13,5	M5
H00155	H00655	15	5	25	M6
H00205	H00705	20	5	25	M6
H00210	–	20	10	25	M8
H00254	H00654	25	4	20	M6
H00255	H02255	25	5	25	M6
H00305	H00905	30	5	25	M6
H00325	H00605	32	5	25	M6

Earthing distribution bars



tipo type	A	B	C
B00534	16	500	4
B00542	12	500	4
B01069	16	1000	4
B01084	12	1000	4

PE/N bars

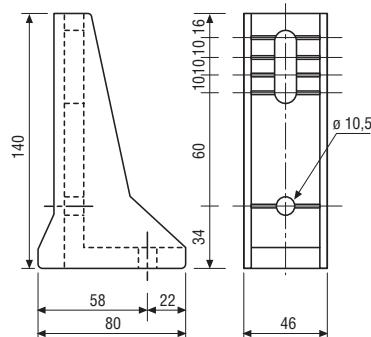
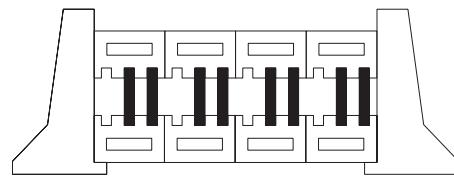


tipo type	A	B	brida clamp
W926	61,5	48,5	–
W927	124	111	1
W928	186,5	173,5	2
W929	249	236	3
W930	311,5	298,5	4
W931	374	361	5
W932	1000	–	–

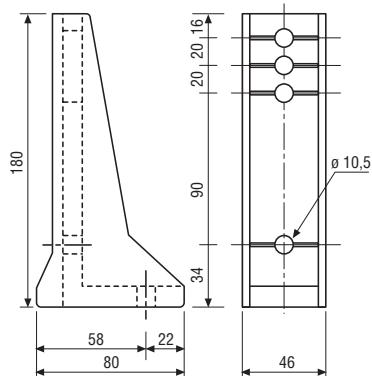
DIMENSIONS AND SPECIFICATIONS ACCESSORIES FOR COPPER BARS

BLOCK TYPE BUSBARS SUPPORT SYSTEM FOR 10 mm THICKNESS BUSBARS

Dimensions in mm



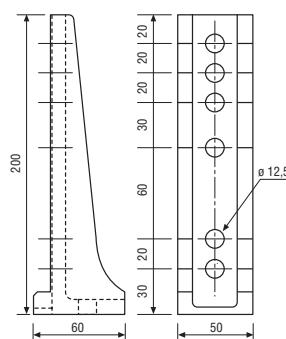
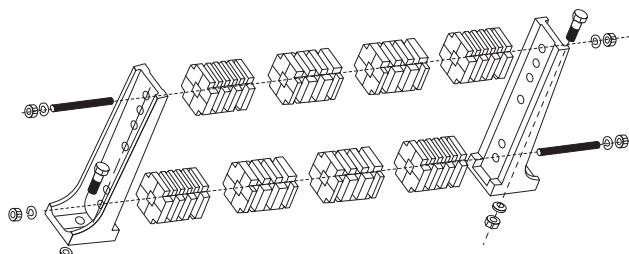
Lateral support S360



Lateral support S100

BLOCK TYPE UNIVERSAL BUSBARS SUPPORT SYSTEM

Dimensions in mm



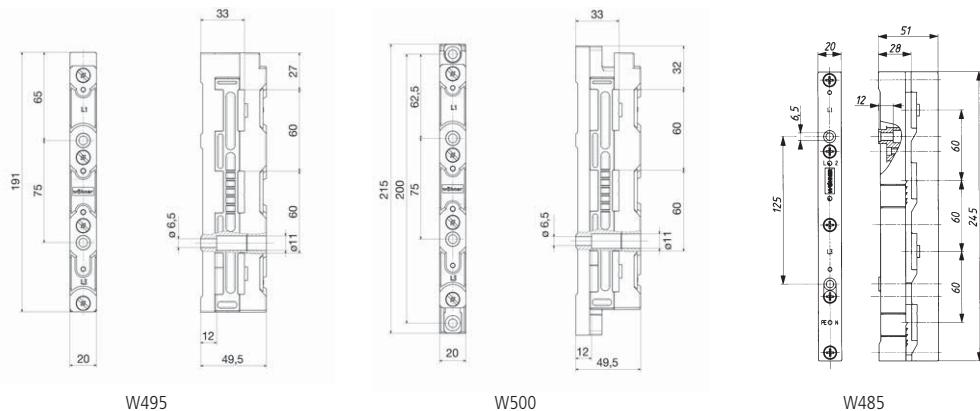
Lateral support S-B UN

DIMENSIONS AND SPECIFICATIONS ACCESSORIES FOR COPPER BARS

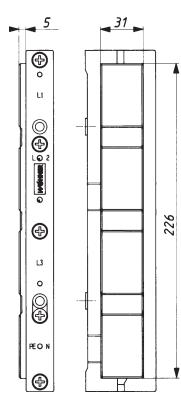
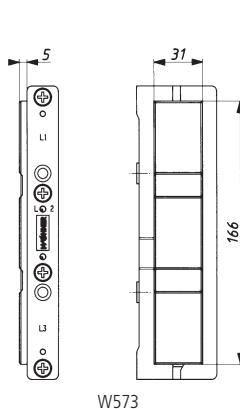
ACCESSORIES FOR COPPER BARS

Dimensions in mm

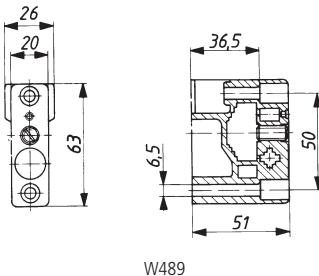
Universal busbars supports



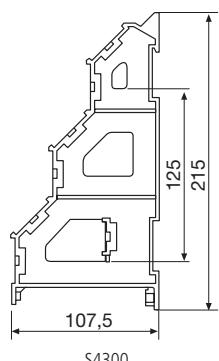
Side protections



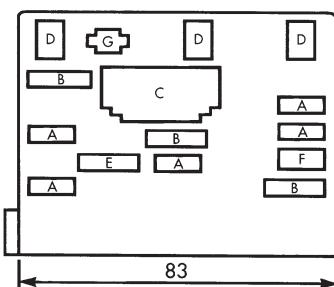
Supports for PE/N bars



"Stairs-shaped" busbar support



Universal busbar support



Useful dimensions for bar mounting

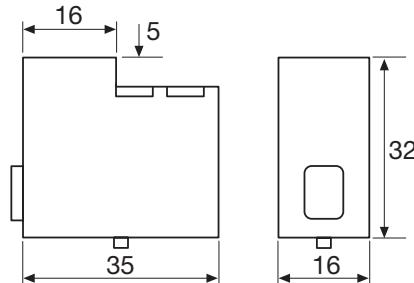
- A: 12 x 4
- B: 16 x 4
- C: 30 x 5/10+25 x 5/
10+20 x 5
- D: 6 x 10
- E: 15 x 5
- F: 12 x 5
- G: 10 x 3+6 x 6

DIMENSIONS AND SPECIFICATIONS ACCESSORIES FOR COPPER BARS

ACCESSORIES FOR COPPER BARS

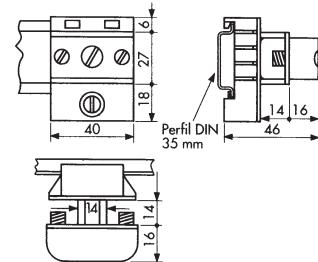
Dimensions in mm

Support for earthing bars



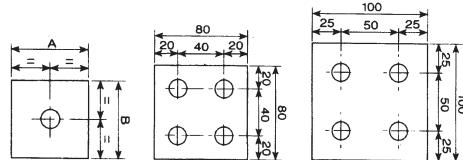
B41216

Flexible bar anchoring support



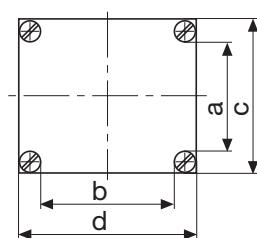
S4050

Tin plated copper contact plates



type	A	B	thickness	thread
P03230	32	30	5	M8
P04040	40	40	5	M10
P05050	50	50	5	M10
P06360	63	60	5	M12
P08080	80	80	5	M12
P0100100	100	100	5	M12

Busbar connectors for flexible bars / copper plain bars



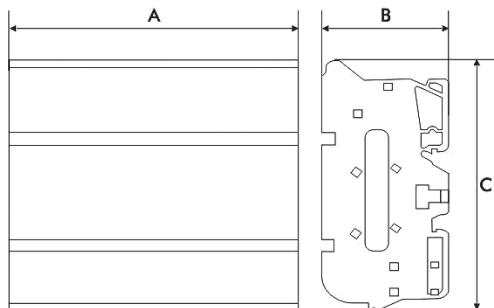
type	a	b	c	d
W996	20	25	40	45
W997	20	30	40	50
W206	20	40	40	60
W586	30	30	50	50
W587	30	35	50	55

DIMENSIONS AND SPECIFICATIONS ACCESSORIES FOR COPPER BARS

ACCESSORIES FOR COPPER BARS

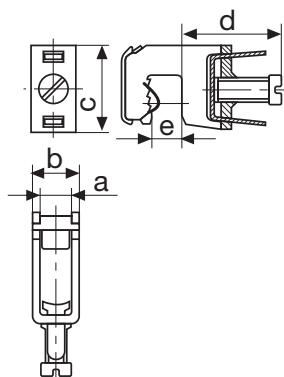
Dimensions in mm

Distribution blocks



type	A	B	C
C2100	70	50	50
C2125	110	50	50
C2126	141	50	50
C4100	70	50	90
C4125	110	50	90
C4126	141	50	90
C4160	185	50	94

Terminals for wires connection



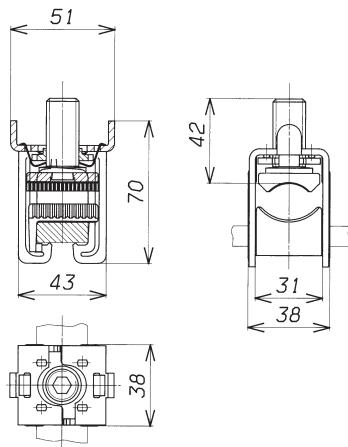
type	a	b	c	d	e
W284	7,5	11,5	22,5	25	5
W285	10,5	15,5	29	36	5
W287	14,5	20,5	32	42	5
W068	17	23,5	36	55	5
W289	7,5	11,5	22,5	25	10
W290	10,5	15,5	29	35	10
W292	14,5	20,5	32	42	10
W203	17	23,5	36	55	10

DIMENSIONS AND SPECIFICATIONS ACCESSORIES FOR COPPER BARS

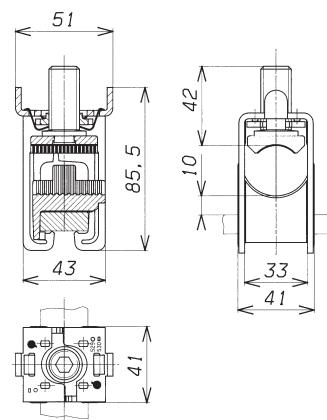
ACCESSORIES FOR COPPER BARS

Dimensions in mm

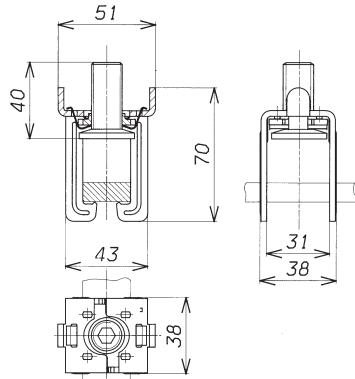
Terminals for plain / flexible bars connection



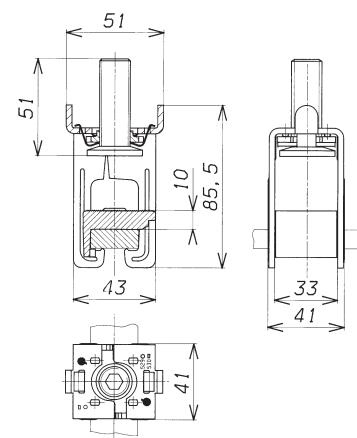
W318



W760

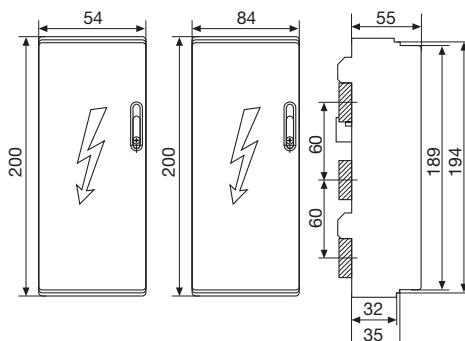


W319

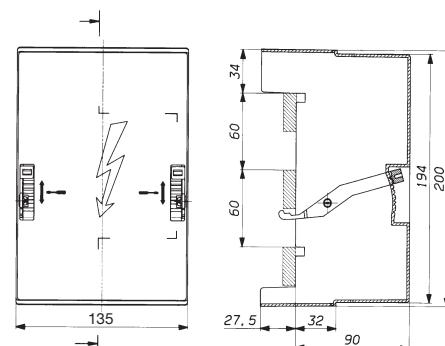


W759

Terminal protection covers



W590
W413



W756

DIMENSIONS AND SPECIFICATIONS INSULATORS AND SPACING PILLARS

INSULATORS AND SPACING PIILLARS

Technical specifications

Insulators ⁽¹⁾

type	height (mm)	applied tensile stress (daN)	applied torque stress (daN)	applied bending stress (daN)	operating voltage	
					AC (V)	DC (V)
D 012, 100	12	100	2	35	220	300
D 015, 016, 018	15	300	4	48	250	350
D 020, 120, 220	20	360	5	52	300	400
D 025, 125, 225, 325	25	400	8	110	400	500
D 030, 130	30	650	5	250	600	750
D 035, 036, 135, 137, 235, 336	35	700	18	270	600	750
D 040, 041, 140, 240	40	980	38	370	1000	1200
D 044, 045, 046, 146, 245	45	990	40	380	1000	1200
D 050, 150, 250, 350, 450, 550	50	1300	42	400	1200	1500
D 055, 155, 255	55	1350	50	420	1200	1500
D 060, 160, 260	60	1400	70	440	1500	1800
D 163, 263	63	1450	75	500	1500	1800
D 065, 165, 265	65	1500	80	650	1500	1800
D 070, 170, 270	70	1800	90	660	2000	2400
D 076, 175, 176, 276, 275, 575	75	2000	92	680	2000	2400
D 080, 082, 180	80	2800	100	1000	2200	2600
D 100, 200, 300	100	3500	110	1200	2800	3000

20 mm Ø spacing pillars ⁽¹⁾

type	applied tensile stress (daN)	applied bending stress (daN)	operating voltage	
			AC (V)	DC (V)
C 011, 019, 027, 035	350	220	250	350
C 111, 119, 127, 135	350	220	300	400
C 219, 221, 227, 235	350	180	400	500
C 311, 319, 327	350	180	600	750
C 411, 419, 427	350	130	600	750
C 511, 519, 527	350	130	1000	1200
C 611, 619, 627	350	80	1000	1200
C 711, 719, 727	350	80	1200	1500

30 mm Ø spacing pillars ⁽¹⁾

type	applied tensile stress (daN)	applied bending stress (daN)	operating voltage	
			AC (V)	DC (V)
C 328	800	420	600	750
C 528	800	150	1000	1200
C 728	800	270	1200	1500
C 827	800	170	1200	1500
C 919, 928	800	120	1500	1800
C 931, 932	800	110	1500	1800
C 934, 936	800	100	2000	2400

(1) **Temperature** °C: from -40 to +130 - **Arc resistance**: > 180 sec.
 (according ASTM D-495) - **Water absorption**: 0,15% (according to
 ASTM D-570) - **Dielectric strength**: >10 kV/mm (according to UNI 4291)
 - **Self extinguishing degree**: UL94-V0.

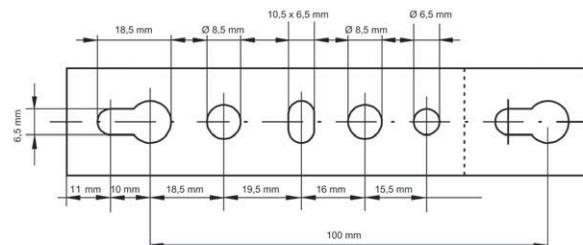
Ultimate tensile strength values = ± 10%.
 1 daN = 1kg

DIMENSIONS AND SPECIFICATIONS FIXING SYSTEMS

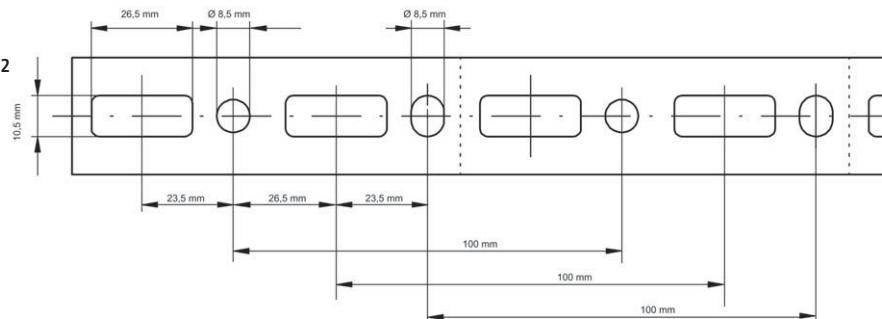
RAILS AND CANTILEVERS WM AND RAPIDSTRUT SERIES

Technical specifications

WM0



WM1 - WM2



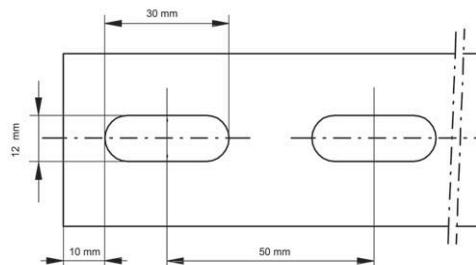
Rails WM Series

L (mm)	max load Newton (N)			max load Newton (N)									
	WM0	WM1	WM2	WM0	WM1	WM2							
central load						uniform load							
250	758	899	3230	1516	1797	6475	200	474	562	2023	974	1123	4047
300	631	749	2698	1263	1498	5396	150	316	358	1349	631	749	2698
400	474	562	2023	947	1123	4047	200	204	202	1012	474	538	2023
500	379	449	1619	758	826	3238	250	130	129	780	348	344	1619
600	316	358	1349	580	574	2698	300	91	90	542	242	239	1349
800	204	202	1012	326	323	1950	400	51	50	305	136	134	813
1000	130	129	780	209	206	1248	600	33	32	195	60	60	361
1600	51	50	305	82	81	488	700	23	22	135	44	44	265
2000	33	32	195	52	52	312	800	13	13	76	34	34	203
3000	14	14	87	23	23	139	900	10	—	60	27	27	161

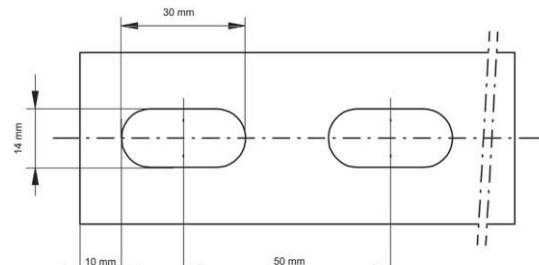
Cantilevers WM Series

L (mm)	max load Newton (N)			max load Newton (N)									
	WM0	WM1	WM2	WM0	WM1	WM2							
peak load						uniform load							
200	474	562	2023	974	1123	4047	200	474	562	2023	974	1123	4047
150	316	358	1349	631	749	2698	150	316	358	1349	631	749	2698
200	204	202	1012	474	538	2023	200	204	202	1012	474	538	2023
250	130	129	780	348	344	1619	250	130	129	780	348	344	1619
300	91	90	542	242	239	1349	300	91	90	542	242	239	1349
400	51	50	305	136	134	813	400	51	50	305	136	134	813
600	33	32	195	60	60	361	600	33	32	195	60	60	361
700	23	22	135	44	44	265	700	23	22	135	44	44	265
800	13	13	76	34	34	203	800	13	13	76	34	34	203
900	10	—	60	27	27	161	900	10	—	60	27	27	161

Thickness 1,5 mm



Thickness 2,5 mm



Rails RAPIDSTRUT Series

L (mm)	max load Newton (N)										
	41x21	41x21	41x41	41x21D	41x41D	41x21	41x21	41x41	41x21D	41x41D	
central load						uniform load					
1,5	1848	2381	7611	7081	22804	3697	4762	15222	14162	45690	
2,5	1540	1984	6342	5901	19004	3081	3968	12685	11802	38007	

Cantilevers RAPIDSTRUT Series

L (mm)	max load Newton (N)												
	41x21	41x41	41x21D	41x21	41x41	41x21D							
peak load						uniform load							
100	1488	4757	4426	2976	9514	8851	100	1488	4757	4426	2976	9514	8851
150	922	3171	2950	1984	6342	5901	150	922	3171	2950	1984	6342	5901
200	719	2378	2213	1488	4757	4426	200	719	2378	2213	1488	4757	4426
250	460	1903	1770	1190	3805	3540	250	460	1903	1770	1190	3805	3540
300	320	1586	1475	853	3171	2950	300	320	1586	1475	853	3171	2950
400	180	1114	1015	480	2378	2213	400	180	1114	1015	480	2378	2213
600	80	495	451	213	1231	1203	600	80	495	451	213	1231	1203
700	59	364	331	157	940	884	700	59	364	331	157	940	884
800	45	279	254	120	743	677	800	45	279	254	120	743	677
900	29	178	162	77	476	433	900	29	178	162	77	476	433

L (mm)	max load Newton (N)										
	41x21	41x41	41x21D	41x21	41x41	41x21D					
central load						uniform load					
250	1848	2381	7611	7081	22804	3697	4762	15222	14162	45690	
300	1540	1984	6342	5901	19004	3081	3968	12685	11802	38007	
400	1155	1488	4757	4426	14253	2310	2976	9514	8851	28506	
500	924	1190	3805	3540	11402	1848	2381	7611	7081	22804	
600	770	992	3171	2950	9502	1540	1984	6342	5901	19004	
800	557	719	2378	2213	7126	891	1151	4757	4426	14263	
1000	356	460	1903	1770	5701	570	737	3805	3540	11402	
1600	139	180	1114	1015	3563	223	288	1783	1624	7126	
2000	89	115	713	513	2851	143	184	1141	1039	5701	
3000	40	51	317	289	1864	60	82	507	462	2983	



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