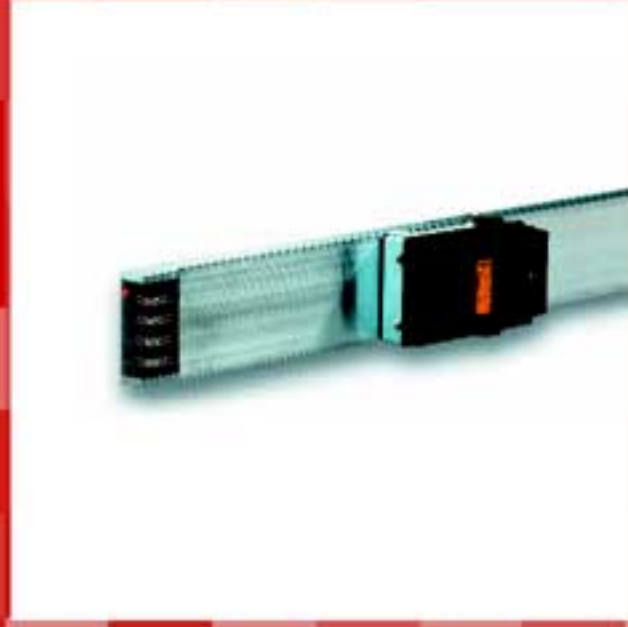


160 - 1600 A



GDA



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160 - 1600 A



PLUG-IN BUSBAR



GDA complies with the following standard:
IEC 60439-1, IEC 60439-2, CEI EN 60439-1, CEI EN 60439-2, DIV VDE 0660 part 500, DIN VDE 0660 part 502

- **Aluminium housing**
- **Aluminium conductors have been specially designed to make the most of SKIN EFFECT**
- **Protection degree from IP50 to IP55**
- **4 metres standard straight elements**
- **Neutral always like the phase section**
- **GDA 4: PE housing with section always bigger than phase section**
- **GDA 5: PE dedicated conductor**
- **Plug-in access opening on each side**



Straight elements

GDA 4			GDA 5	
A		kg/m		kg/m
	Code		Code	
160	GDA101000	4,0	GDA201000	4,3
250	GDA102000	4,4	GDA202000	4,7
400	GDA104000	6,2	GDA204000	6,5
500	GDA105000	7,7	GDA205000	8,45
630	GDA106000	9,0	GDA206000	9,75
800	GDA108000	10,0	GDA208000	10,75
1000	GDA110000	11,36	GDA210000	12,11

Straight elements are IP50, it is possible to have IP55 with accessories.

The joint is always included in each element.



Straight elements length 0,5 - 1,90 m

GDA 4		GDA 5
A	Code	Code
160	GDA101001	GDA201001
250	GDA102001	GDA202001
400	GDA104001	GDA204001
500	GDA105001	GDA205001
630	GDA106001	GDA206001
800	GDA108001	GDA208001
1000	GDA110001	GDA210001

N.B. The number of tap off boxes depending on the length of straight elements.



Straight elements length 1,91 - 4 m

GDA 4		GDA 5
A	Code	Code
160	GDA101002	GDA201002
250	GDA102002	GDA202002
400	GDA104002	GDA204002
500	GDA105002	GDA205002
630	GDA106002	GDA206002
800	GDA108002	GDA208002
1000	GDA110002	GDA210002

N.B. The number of tap off boxes depending on the length of straight elements.



Horizontal elbows

GDA 4			GDA 5	
DX		SX	DX	SX
A	Code	Code	Code	Code
160	GDA100102	GDA100101	GDA200102	GDA200101
250	GDA100102	GDA100101	GDA200102	GDA200101
400	GDA100102	GDA100101	GDA200102	GDA200101
500	GDA100106	GDA100105	GDA200106	GDA200105
630	GDA100106	GDA100105	GDA200106	GDA200105
800	GDA100106	GDA100105	GDA200106	GDA200105
1000	GDA100116	GDA100115	GDA200116	GDA200115

The joint is always included in each element.



Vertical elbows

A	GDA 4		GDA 5	
	DX	SX	DX	SX
	Code	Code	Code	Code
160	GDA100104	GDA100103	GDA200104	GDA200103
250	GDA100104	GDA100103	GDA200104	GDA200103
400	GDA100104	GDA100103	GDA200104	GDA200103
500	GDA100108	GDA100107	GDA200108	GDA200107
630	GDA100108	GDA100107	GDA200108	GDA200107
800	GDA100108	GDA100107	GDA200108	GDA200107
1000	GDA100118	GDA100117	GDA200118	GDA200117

The joint is always included in each element.



"T" elements

A	GDA 4		GDA 5	
	DX	SX	DX	SX
	Code	Code	Code	Code
160	GDA100111	GDA100109	GDA200111	GDA200109
250	GDA100111	GDA100109	GDA200111	GDA200109
400	GDA100111	GDA100109	GDA200111	GDA200109
500	GDA100112	GDA100110	GDA200112	GDA200110
630	GDA100112	GDA100110	GDA200112	GDA200110
800	GDA100112	GDA100110	GDA200112	GDA200110
1000	GDA100122	GDA100120	GDA200122	GDA200120

In every "T" elbow are included 2 joint.



Fire barrier

A	GDA 4	GDA 5
	Code	Code
160	GDA101006	GDA201006
250	GDA102006	GDA202006
400	GDA104006	GDA204006
500	GDA105006	GDA205006
630	GDA106006	GDA206006
800	GDA108006	GDA208006
1000	GDA110006	GDA210006

It is possible to set the fire barrier, REI 120 (2 h), in any straight element to be ordered separately. Always indicate where the fire barrier has to be placed.



End feed unit IP55

A	GDA 4		GDA 5	
	DX	SX	DX	SX
	Code	Code	Code	Code
160	GDA100021	GDA100020	GDA200021	GDA200020
250	GDA100021	GDA100020	GDA200021	GDA200020
400	GDA100021	GDA100020	GDA200021	GDA200020
500	GDA100023	GDA100022	GDA200023	GDA200022
630	GDA100023	GDA100022	GDA200023	GDA200022
800	GDA100023	GDA100022	GDA200023	GDA200022
1000	GDA100043	GDA100042	GDA200043	GDA200042

Cables entrance: 160x60 mm.



End feed unit with switch IP55

	GDA 4		GDA 5	
	DX	SX	DX	SX
A	Code	Code	Code	Code
160	GDA101004	GDA101003	GDA201004	GDA201003
250	GDA102004	GDA102003	GDA202004	GDA202003
400	GDA104004	GDA104003	GDA204004	GDA204003
500	GDA105004	GDA105003	GDA205004	GDA205003
630	GDA106004	GDA106003	GDA206004	GDA206003
800	GDA108004	GDA108003	GDA207004	GDA208003
1000	GDA110004	GDA110003	GDA210004	GDA210003

Cables entrance: 160x60 mm.



Centre feed unit IP55

	GDA 4	GDA 5
A	Code	Code
160	GDA100024	GDA200024
250	GDA100024	GDA200024
400	GDA100024	GDA200024
500	GDA100025	GDA200025
630	GDA100025	GDA200025
800	GDA100025	GDA200025
1000	GDA100045	GDA200045

Cables entrance: 200x80 mm.



End cap

	GDA 4/5
A	Code
160/400	GDA100028
500/1000	GDA100029



Switchboard feed unit

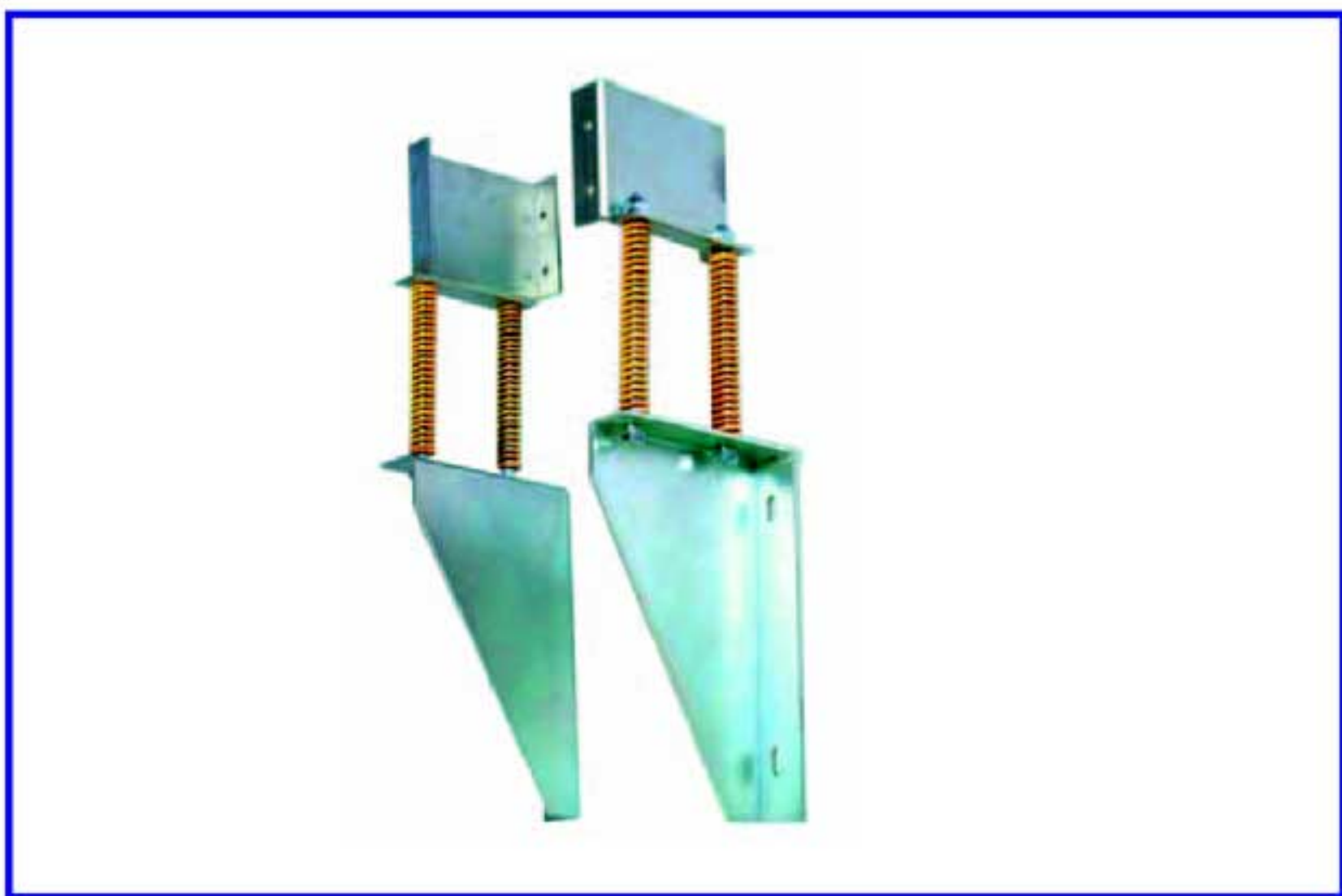
	GDA 4		GDA 5	
	DX	SX	DX	SX
A	Code	Code	Code	Code
160	GDA100030	GDA100032	GDA200030	GDA200032
250	GDA100030	GDA100032	GDA200030	GDA200032
400	GDA100030	GDA100032	GDA200030	GDA200032
500	GDA100031	GDA100033	GDA200031	GDA200033
630	GDA100031	GDA100033	GDA200031	GDA200033
800	GDA100031	GDA100033	GDA200031	GDA200033
1000	GDA100051	GDA100053	GDA200051	GDA200053



Internal busbar clamp

	GDA 4	GDA 5
A	Code	Code
160	GDA101007	GDA201007
250	GDA102007	GDA202007
400	GDA104007	GDA204007
500	GDA105007	GDA205007
630	GDA106007	GDA206007
800	GDA108007	GDA208007
1000	GDA110007	GDA210007

The internal busbar clamp is inserted in a standard straight element (to be ordered separately) every 12 m of line. Start to mount the element with internal busbar clamp from lower line point.



Hanger for vertical risers

	GDA 4/5
A	Code
160/400	GDA010002
500/1000	GDA010003

One hanger for vertical risers must be foresees, in additional of universal fixing hangers, in each vertical riser and every 150 kg of busway.



Fixing hanger

GDA 4/5
Code
GDA010001

The fixing hanger can be used on every type of GDA, simply shifting the pin. Each GDA element need 2 fixing hangers.



Bracket

	GDA 4/5
Lenght	Code
550 mm	GDA010004
750 mm	GDA010005

The brackets can be used wall or ceiling side.



Tap off box 32 A with fuse bases IP55

	GPD 4/5
	GDA400250
Tap off material	Plastic
Conductor material	CU + AG
Max cable section	6 mm ²
Maximum entrance cable	22,5 Ø mm
Fuse-base type	10,3x38
Execution	Without off load

Plug-in access opening on each side of every straight element.



Tap off box 63/125 A with fuse bases IP55

	GPD 4/5	
	GDA400630	GDA401250
Tap off material	Plastic	Plastic
Conductor material	CU + AG	CU + AG
Max cable section	50 mm ²	50 mm ²
Maximum entrance cable	48 Ø mm	48 Ø mm
Fuse-base type	NH00	NH00
Execution	With off load	With off load

Plug-in access opening on each side of every straight element.



Tap off box 160/250/400 A with fuse bases IP55

	GPD 4/5		
	GDA401600	GDA402500	GDA404000
Tap off material	Steel	Steel	Steel
Conductor material	CU + AG	CU + AG	CU + AG
Max cable section	70 mm ²	150 mm ²	185 mm ²
Maximum entrance cable	180x50 mm	160x60 mm	160x60 mm
Fuse-base type	NH00	NH1	NH2
Execution	With off load	With off load	With off load

Plug-in access opening on each side of every straight element.

On request are available for all the ratings tap off boxes empty. Code: GDA40●●●3



Pen tap off box 32 A IP55

	GPD 4/5
	GDA400251
Tap off material	Plastic
Conductor material	CU + AG
Max cable section	6 mm ²
Maximum entrance cable	22,5 Ø mm
Fuse-base type	10,3x38
Execution	Without off load

Plug-in access opening on each side of every straight element.



Pen tap off box 63/125 A IP55

	GPD 4/5	
	GDA400631	GDA401251
Tap off material	Plastic	Plastic
Conductor material	CU + AG	CU + AG
Max cable section	50 mm ²	50 mm ²
Maximum entrance cable	48 Ø mm	48 Ø mm
Fuse-base type	NH00	NH00
Execution	With off load	With off load

Plug-in access opening on each side of every straight element.



Pen tap off box 160/250/400 A IP55

	GPD 4/5		
	GDA401601	GDA402501	GDA404001
Tap off material	Steel	Steel	Steel
Conductor material	CU + AG	CU + AG	CU + AG
Max cable section	70 mm ²	150 mm ²	185 mm ²
Maximum entrance cable	180x50 mm	160x60 mm	160x60 mm
Fuse-base type	NH00	NH1	NH2
Execution	With off load	With off load	With off load

Plug-in access opening on each side of every straight element.

On request are available for all the ratings tap off boxes empty. Code: GDA40●●●3



Tap off box 32 A prefitted for MCB

	GPD 4/5
	GDA400252
Tap off material	Plastic
Conductor material	CU + AG
Max cable section	6 mm ²
Maximum entrance cable	22,5 Ø mm
MCB number of modules on DIN rail	8

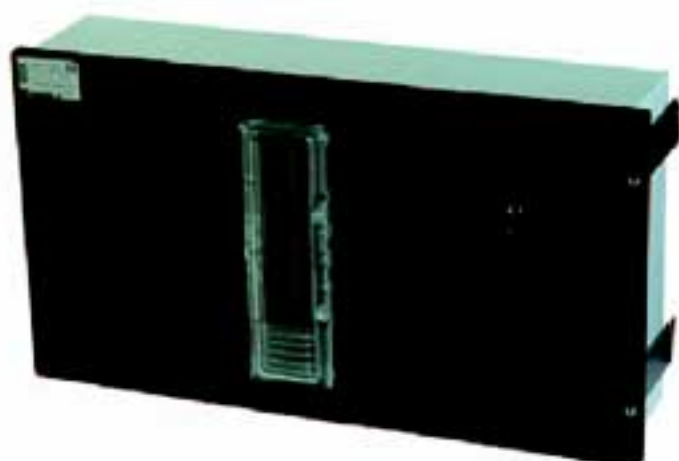
Plug-in access opening on each side of every straight element.



Tap off box 63/125 A IP55 prefitted for MCB

	GPD 4/5	
	GDA400632	GDA401252
Tap off material	Plastic	Plastic
Conductor material	CU + AG	CU + AG
Max cable section	50 mm ²	50 mm ²
Maximum entrance cable	48 Ø mm	48 Ø mm
MCB number of modules on DIN rail	8	8

Plug-in access opening on each side of every straight element.

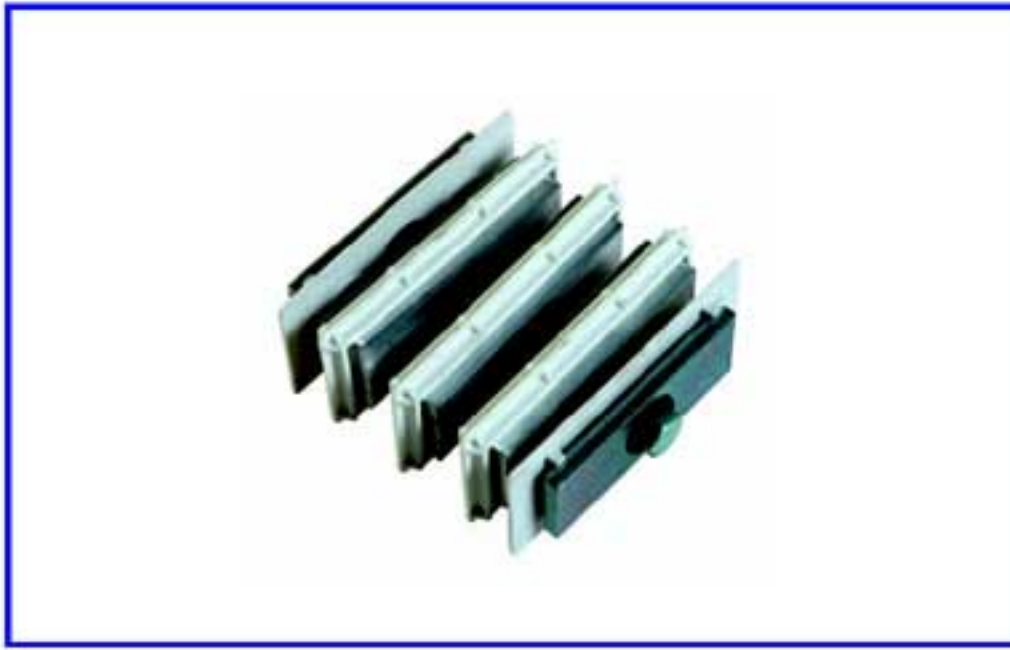


Tap off box 160/250/400 A IP55 prefitted for MCB

	GPD 4/5		
	GDA401602	GDA402502	GDA404002
Tap off material	Steel	Steel	Steel
Conductor material	CU + AG	CU + AG	CU + AG
Max cable section	70 mm ²	150 mm ²	186 mm ²
Maximum entrance cable	180x50 mm	160x60 mm	160x60 mm
MCB number of modules on DIN rail	8	12	12+12

Plug-in access opening on each side of every straight element.

On request are available for all the ratings tap off boxes empty. Code: GDA40●●●3



One-bolt joint

	GDA 4	GDA 5
A	Code	Code
160/400	GDA6014	GDA6135
500/1000	GDA6015	GDA6136

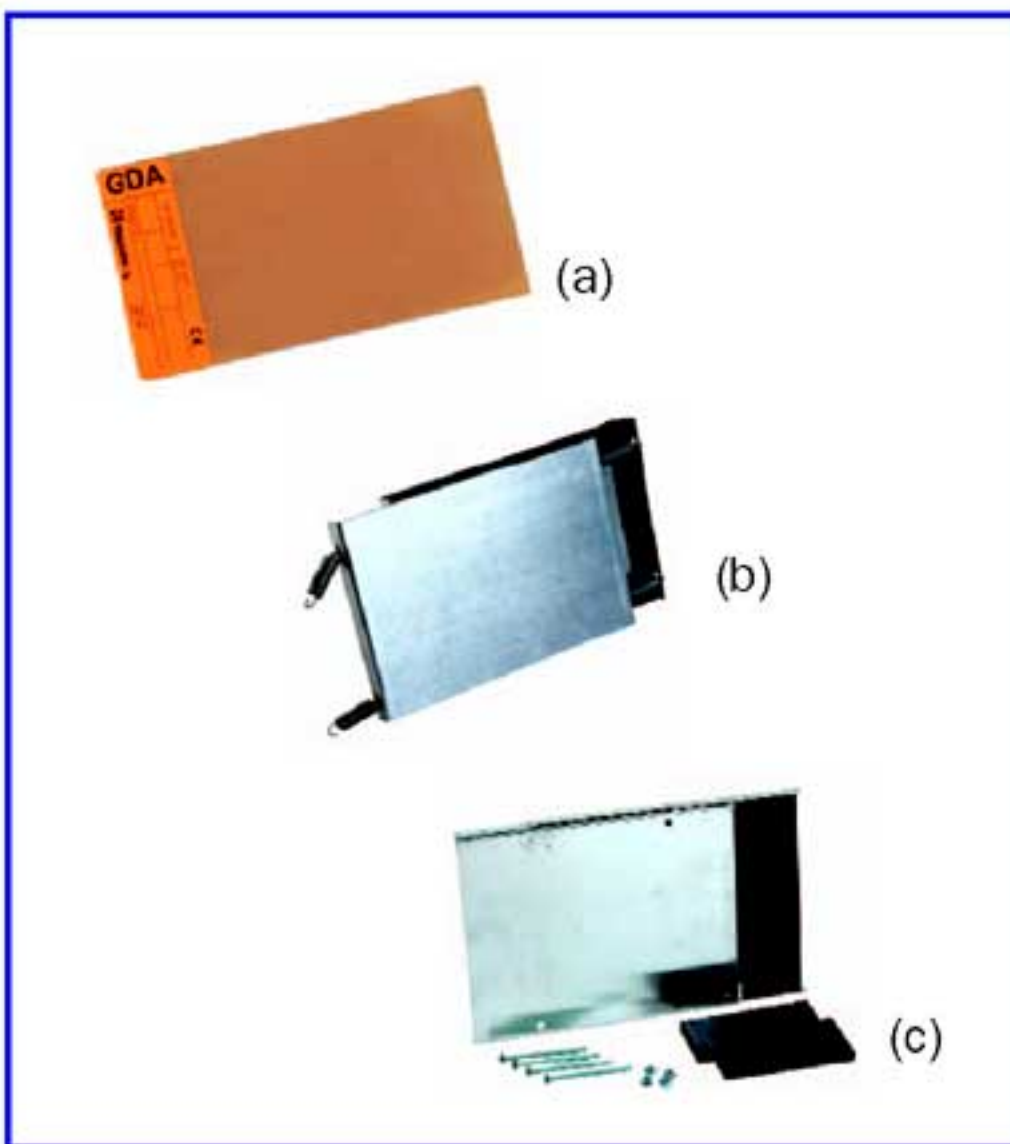
One bolt joint is included with each straight and with each elbow. For the spare part see the table.



Extension tool (Torque)

A	without extension tool	with extension tool
160/400	30 Nm	17 Nm
500/1000	40 Nm	22 Nm

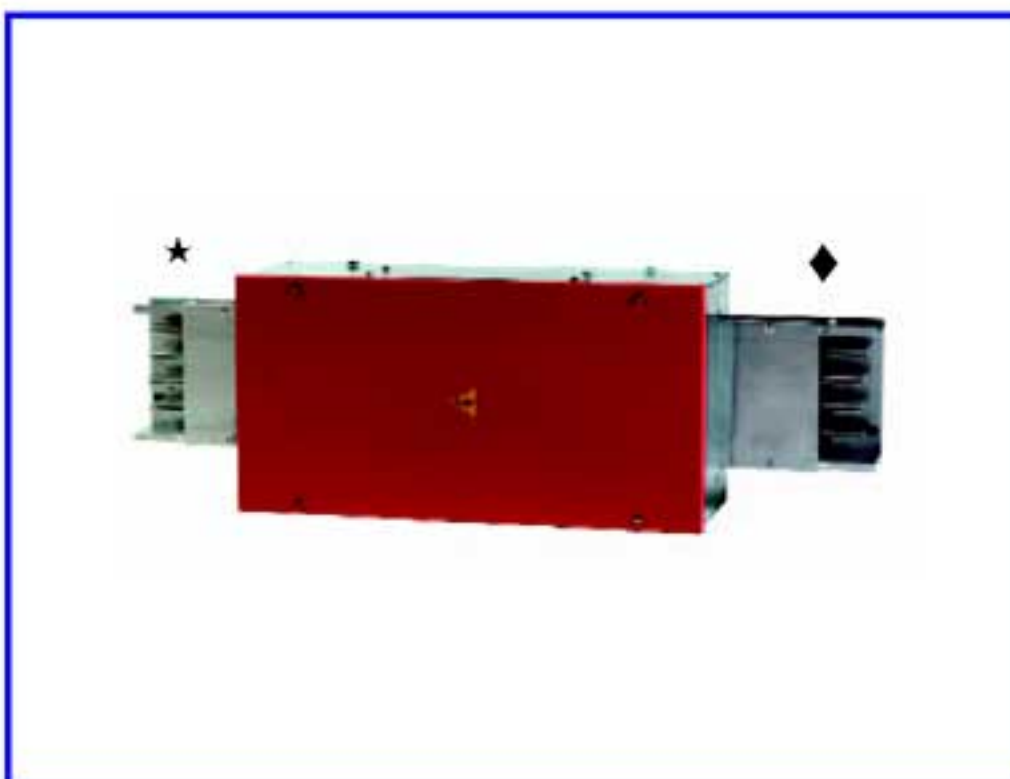
One extension tool is included with every delivery with straight elements. It is possible to buy separately (code GDA6129).



IP55 accessories

	A	GDA 4/5	
		Code	
Sticky plug outlet cover	160/1000	GDA500002	(a)
Rigid plug outlet cover	160/1000	GDA500003	(b)
IP55 joint cover	160/400	GDA500004	(c)
IP55 joint cover	500/1000	GDA500005	(c)

(a) and (b) are alternatives. It is necessary 8 for every 4 m standard elements.



Reduction unit

	GDA 4/5
A	Code
160/1000	GDARED ★/◆
★	= indicate current to be reduced
◆	= indicate current reduced
Exemple	GDARED 800/400

Reduction unit as CEI 64/8 are made on request.

GDR

250 - 1600 A



Features

- Aluminium housing
- Copper conductors
- Protection degree from IP50 to IP55
- 4 metres standard straight elements
- Neutral section always like the phase section
- GDR 4: PE housing with section always bigger than phase section
- GDR 5: PE dedicated conductor
- Plug-in access opening on each side

Straight elements

GDR 4			GDR 5	
A		kg/m		kg/m
	Code		Code	
250	GDR102000	7,1	GDR202000	7,4
400	GDR104000	11,4	GDR204000	11,7
630	GDR106000	14,8	GDR206000	15,1
800	GDR108000	17,3	GDR208000	17,6
1250	GDR112000	24,8	GDR212000	25,4
1600	GDR116000	28,4	GDR216000	29,0

Straight elements are IP50, it is possible to have IP55 with accessories.

The joint is always included in each element.

Conductors

	Material	Code
Standard	Copper (cu etp 99,9)	-
	Tinned copper (CU+SN)	STAGN
As option	Silvered copper (CU+AG)	ARG

GDR ≠ GDA

GDR accessories

- Special Straight elements
- Horizontal elbows
- Vertical elbows
- "T" elements
- End feed unit
- Center feed unit
- Switchboard feed unit
- One-bolt joint

For the codes use GDA code writing GDR
GDA xxxx → GDR xxxx

GDR = GDA

Common accessories with GDA

- Fire barrier
- End cap
- Internal busbar clamp
- Hanger for vertical risers
- Fixing hanger
- Bracket
- Tap off boxes
- IP55 accessories

Conformity declaration

GDA busbar described in this publication complies with the following standards

IEC60439-1 IEC60439-2 IEC60529 CEI EN50102 DIN VDE 0660 parte 500
CEI EN60439-1 CEI EN60439-2 CEI EN60529 DIN VDE 0660 parte 502

Test types

Short-circuit resistance	Resistance to heavy loads
Casing degree of protection (IP code)	Protection countermeasures
Insulation resistance	Protective circuit efficiency
Overheating limit	Air and surface distances
Wiring, electrical operation	Insulation
Applied voltage resistance	Casing degree of protection (IK code)
Operation	

The product object of this declaration exceeds the test types above mentioned and therefore this material is marked:



Certifications



Conformity declaration

GDR busbar described in this publication complies with the following standards

IEC60439-1 IEC60439-2 IEC60529 CEI EN50102 DIN VDE 0660 parte 500

CEI EN60439-1 CEI EN60439-2 CEI EN60529 DIN VDE 0660 parte 502

Test types

Short-circuit resistance

Resistance to heavy loads

Casing degree of protection (IP code)

Protection countermeasures

Insulation resistance

Protective circuit efficiency

Overheating limit

Air and surface distances

Wiring, electrical operation

Insulation

Applied voltage resistance

Casing degree of protection (IK code)

Operation

The product object of this declaration exceeds the test types above mentioned and therefore this material is marked:



GDR

Certifications



GDA Technical data

Nominal current	I_n	[A]	160	250	400	500	630	800	1000
Operational voltage	U_e	[V]	690	690	690	690	690	690	690
Insulation voltage	U_i	[V]	690	690	690	690	690	690	690
Frequency	f	[Hz]	50 - 60	50 - 60	50 - 60	50 - 60	50 - 60	50 - 60	50 - 60
Cross section phases	S_F	[mm ²]	85	116	281	380	500	600	700
Cross section neutral	S_N	[mm ²]	85	116	281	380	500	600	700
Cross section of protective conductor (housing)	S_{PE}	[mm ²]	1083	1083	1083	1232	1232	1232	1232
Cross section of hearth bar (5th bar)	S_{PE}	[mm ²]	120	120	120	210	210	210	210
Rated short circuit time current (1s)	I_{cw}	[kA]	13	13	27	29	33	35	37
Peak current	I_{pk}	[kA]	26	26	56	61	72	77	80
Rated short circuits time of neutral bar (1s)	I_{cw}	[kA]	8,5	8,5	17	20	22	22	22
Peak current of neutral bar	I_{pk}	[kA]	17	17	34	40	46	46	46
Rated short circuit time of protective circuit (1s)	I_{cw}	[kA]	8,5	8,5	17	20	22	22	22
Peak current of protective circuit	I_{pk}	[kA]	17	17	34	40	46	46	46
Phase resistance (T=20°C)	R_{20}	[mΩ/m]	0,376	0,261	0,112	0,072	0,065	0,052	0,048
Phase reactance	X	[mΩ/m]	0,168	0,135	0,093	0,059	0,063	0,062	0,059
Phase impedance (T=20°C)	Z_{20}	[mΩ/m]	0,412	0,356	0,170	0,110	0,107	0,091	0,084
Neutral resistance	R_N	[mΩ/m]	0,376	0,261	0,112	0,072	0,065	0,052	0,048
Neutral reactance	X_N	[mΩ/m]	0,168	0,135	0,093	0,059	0,063	0,062	0,060
Neutral impedance	Z_N	[mΩ/m]	0,412	0,356	0,170	0,110	0,107	0,091	0,077
Protective conductor resistance	R_{PE}	[mΩ/m]	0,032	0,032	0,032	0,028	0,028	0,028	0,028
Protective conductor reactance	X_{PE}	[mΩ/m]	0,102	0,102	0,102	0,087	0,087	0,087	0,087
Protective conductor impedance	Z_{PE}	[mΩ/m]	0,107	0,107	0,107	0,091	0,091	0,091	0,091
Resistance of the fault loop	R_o	[mΩ/m]	0,408	0,395	0,203	0,195	0,178	0,176	0,174
Reactance of the fault loop	X_o	[mΩ/m]	0,117	0,117	0,116	0,112	0,108	0,103	0,098
Impedance of the fault loop	Z_o	[mΩ/m]	0,424	0,412	0,234	0,224	0,208	0,204	0,200
Degree of protection IP	IP		50/55	50/55	50/55	50/55	50/55	50/55	50/55
Losses for the Joule effect at nominal current	P_j	[W/m]	28,91	48,94	53,76	54,00	77,40	99,20	144,00
Calorific power	k CAL/m		2974	2974	2974	3353	3353	3353	3353

Voltage drop with distributed load [ΔV]

		160[A]	250 [A]	400 [A]	500 [A]	630 [A]	800 [A]	1000 [A]
cosφ = 0,7	[mV/m]	53,08	60,36	50,11	40,02	49,31	55,67	65,33
cosφ = 0,8	[mV/m]	55,63	62,67	50,32	40,22	48,94	54,35	63,67
cosφ = 0,9	[mV/m]	57,03	63,52	48,91	39,15	46,84	50,88	59,46
cosφ = 1,0	[mV/m]	52,10	56,44	38,75	31,14	35,42	35,75	41,41

Voltage drop with concentrated end line load [ΔV]

$$\Delta V = \sqrt{3} I_n (R_{B_L} \cos\phi + x \sin\phi) \text{ [mV/m]}$$

Schedule of ratings for the ambient temperature on average 24 h

	18°C	25°C	30°C	35°C	43°C	50°C
K	1,18	1,14	1,10	1,06	1	0,86

GDR Technical data

Nominal current	I_n	[A]	250	400	630	800	1250	1600
Operational voltage	U_e	[V]	690	690	690	690	690	690
Insulation voltage	U_i	[V]	690	690	690	690	690	690
Frequency	f	[Hz]	50 - 60	50 - 60	50 - 60	50 - 60	50 - 60	50 - 60
Cross section phases	S_F	[mm ²]	100	200	300	400	600	700
Cross section neutral	S_N	[mm ²]	100	200	300	400	600	700
Cross section of protective conductor (housing)	S_{PE}	[mm ²]	1083	1083	1083	1083	1232	1232
Cross section of hearth bar (5th bar)	S_{PE}	[mm ²]	120	120	120	120	210	210
Rated short circuit time current (1_s)	I_{cw}	[kA]	13	27	33	35	37	39
Peak current	I_{pk}	[kA]	26	56	72	77	80	81
Rated short circuits time of neutral bar (1_s)	I_{cw}	[kA]	8,5	17	22	22	22	22
Peak current of neutral bar	I_{pk}	[kA]	17	34	46	46	46	46
Rated short circuit time of protective circuit (1_s)	I_{cw}	[kA]	8,5	17	22	22	22	22
Peak current of protective circuit	I_{pk}	[kA]	17	34	46	46	46	46
Phase resistance ($T=20^\circ\text{C}$)	R_{20}	[mΩ/m]	0,170	0,078	0,052	0,043	0,028	0,024
Phase reactance	X	[mΩ/m]	0,090	0,064	0,063	0,062	0,059	0,059
Phase impedance ($T=20^\circ\text{C}$)	Z_{20}	[mΩ/m]	0,192	0,101	0,082	0,075	0,065	0,064
Neutral resistance	R_N	[mΩ/m]	0,170	0,078	0,052	0,043	0,028	0,024
Neutral reactance	X_N	[mΩ/m]	0,090	0,064	0,063	0,062	0,059	0,059
Neutral impedance	Z_N	[mΩ/m]	0,192	0,101	0,082	0,075	0,065	0,064
Protective conductor resistance	R_{PE}	[mΩ/m]	0,032	0,032	0,032	0,032	0,028	0,028
Protective conductor reactance	X_{PE}	[mΩ/m]	0,102	0,102	0,102	0,102	0,087	0,087
Protective conductor impedance	Z_{PE}	[mΩ/m]	0,107	0,107	0,107	0,107	0,091	0,091
Resistance of the fault loop	R_o	[mΩ/m]	0,202	0,110	0,084	0,075	0,059	0,056
Reactance of the fault loop	X_o	[mΩ/m]	0,192	0,166	0,165	0,151	0,146	0,146
Impedance of the fault loop	Z_o	[mΩ/m]	0,279	0,199	0,185	0,169	0,157	0,156
Degree of protection IP	IP		50/55	50/55	50/55	50/55	50/55	50/55
Losses for the Joule effect at nominal current	P_j	[W/m]	32,8	38,4	71,4	96,0	145,3	215,0
Calorific power	k	CAL/m	2974	2974	2974	2974	3353	3353

Voltage drop with distributed load $[\Delta V]$

		250 [A]	400 [A]	630 [A]	800 [A]	1250 [A]	1600 [A]
$\cos\varphi = 0,7$	[mV/m]	40,4	35,2	47,5	54,9	73,7	85,5
$\cos\varphi = 0,8$	[mV/m]	42,0	35,5	46,8	53,5	69,1	80,1
$\cos\varphi = 0,9$	[mV/m]	42,6	34,6	44,4	49,9	60,9	70,6
$\cos\varphi = 1,0$	[mV/m]	37,9	27,7	32,7	34,6	33,6	38,8

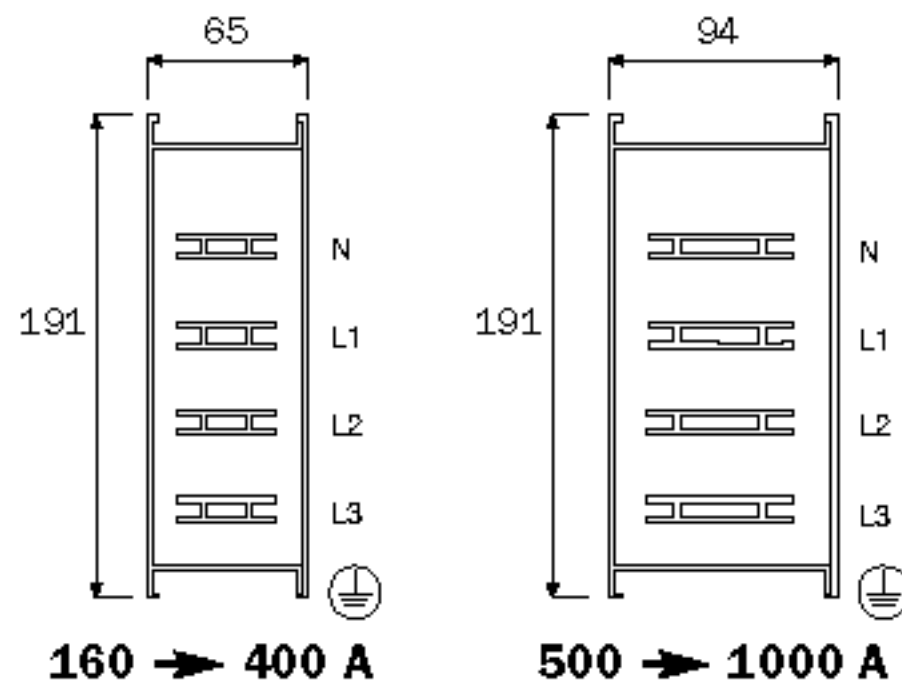
Voltage drop with concentrated end line load $[\Delta V]$

$$\Delta V = \sqrt{3} I_n (R_{B1} \cos\varphi + x \sin\varphi) [\text{mV/m}]$$

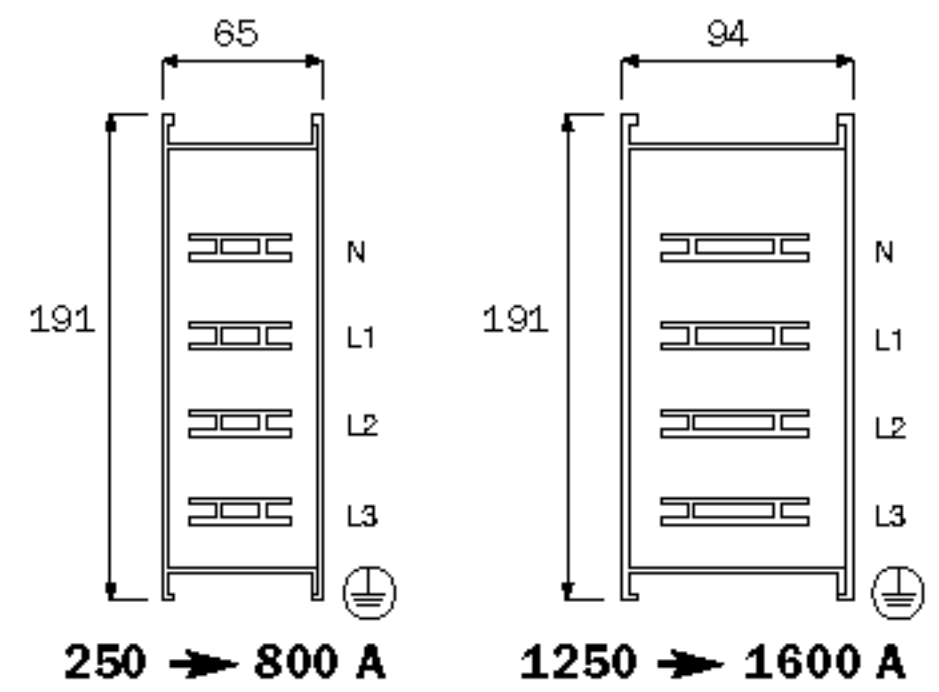
Schedule of ratings for the ambient temperature on average 24 h

	18°C	25°C	30°C	35°C	43°C	50°C
K	1,18	1,14	1,10	1,06	1	0,70

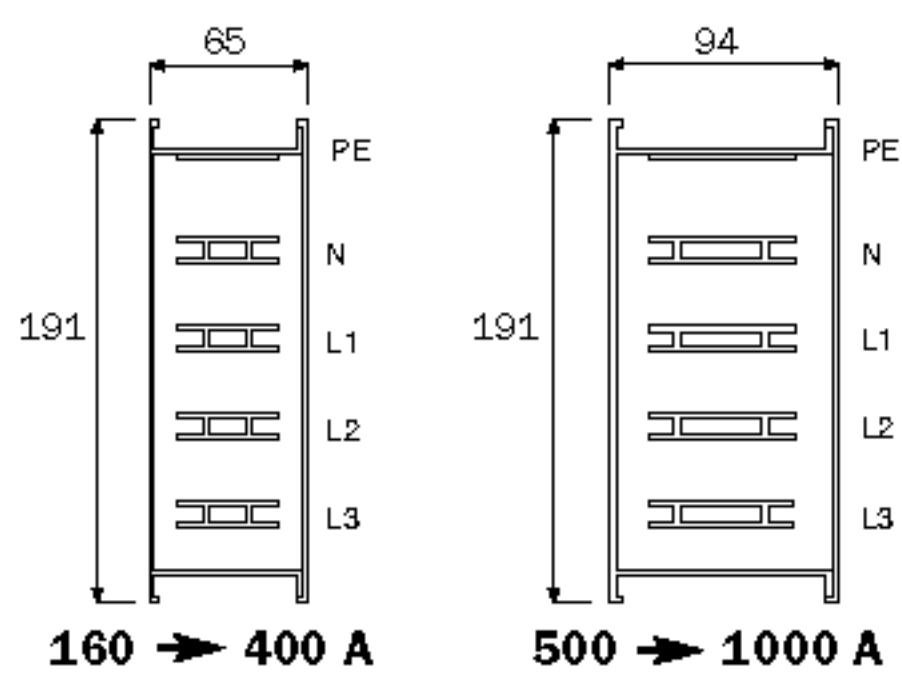
■ **GDA 4**



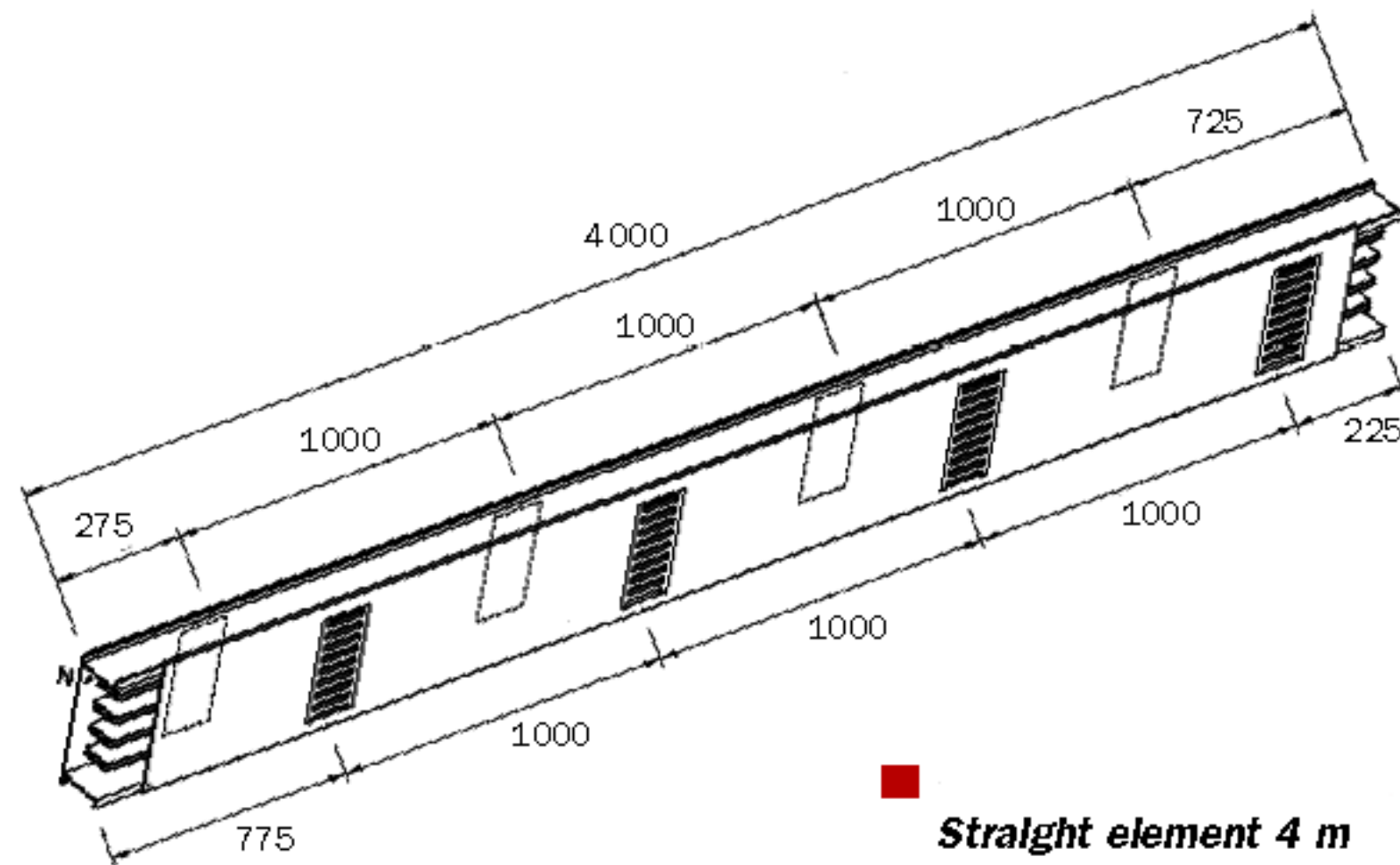
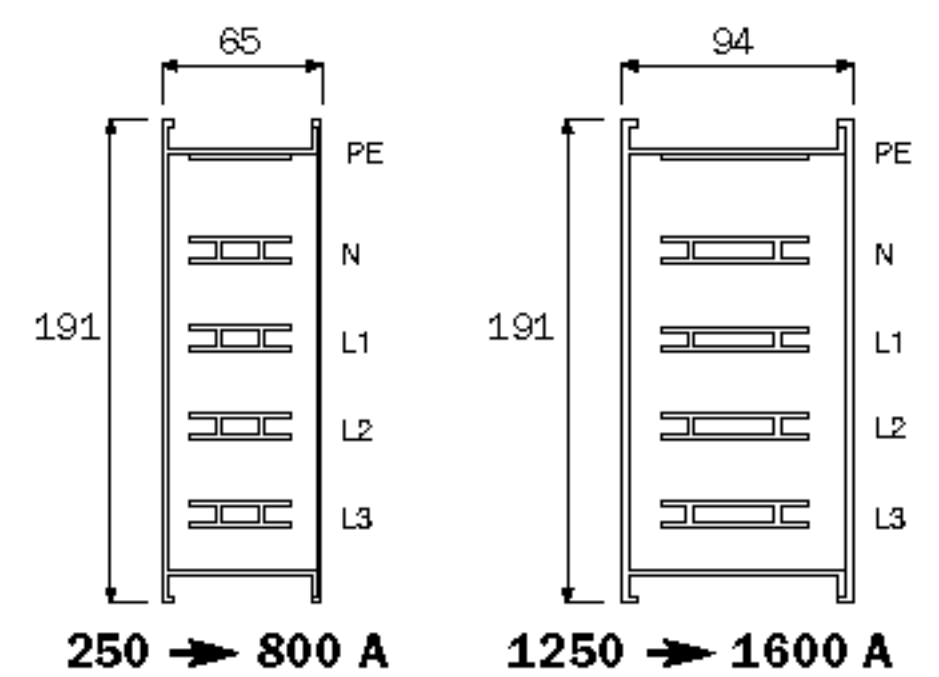
■ **GDR 4**



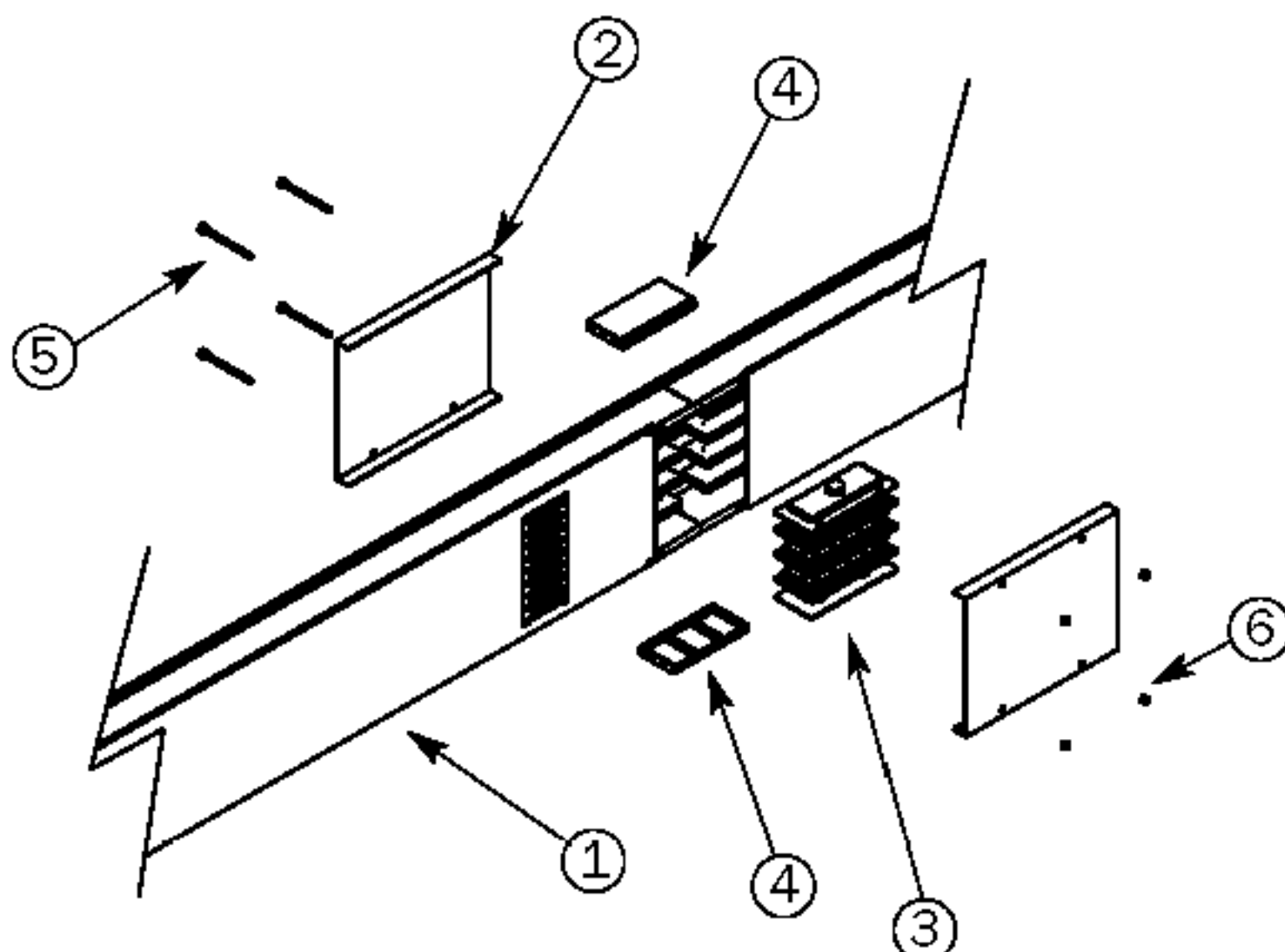
■ **GDA 5**



■ **GDR 5**

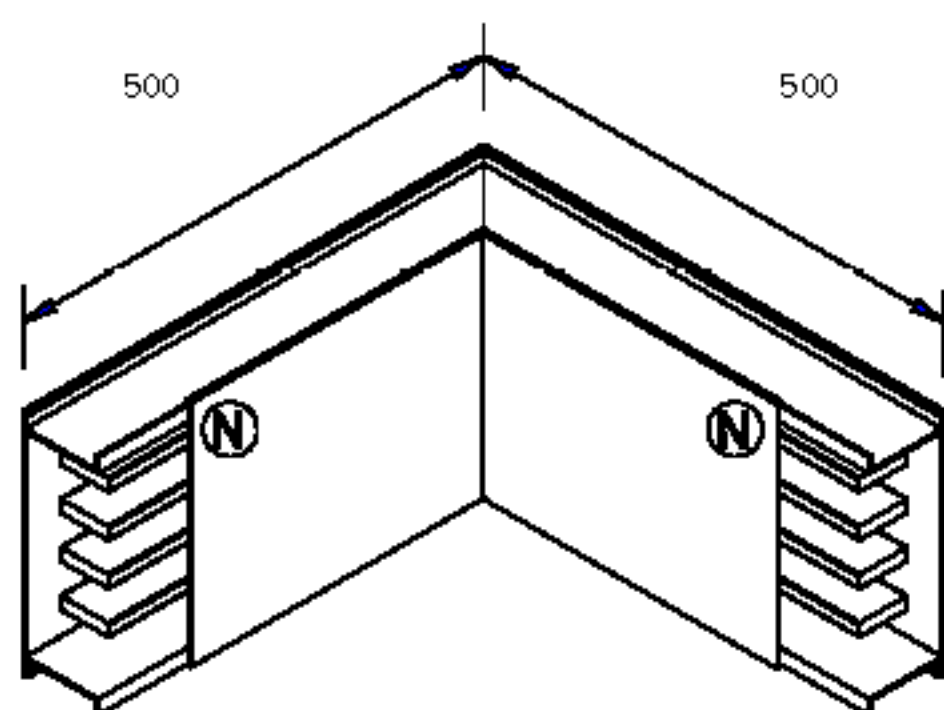


■ **Straight element 4 m**

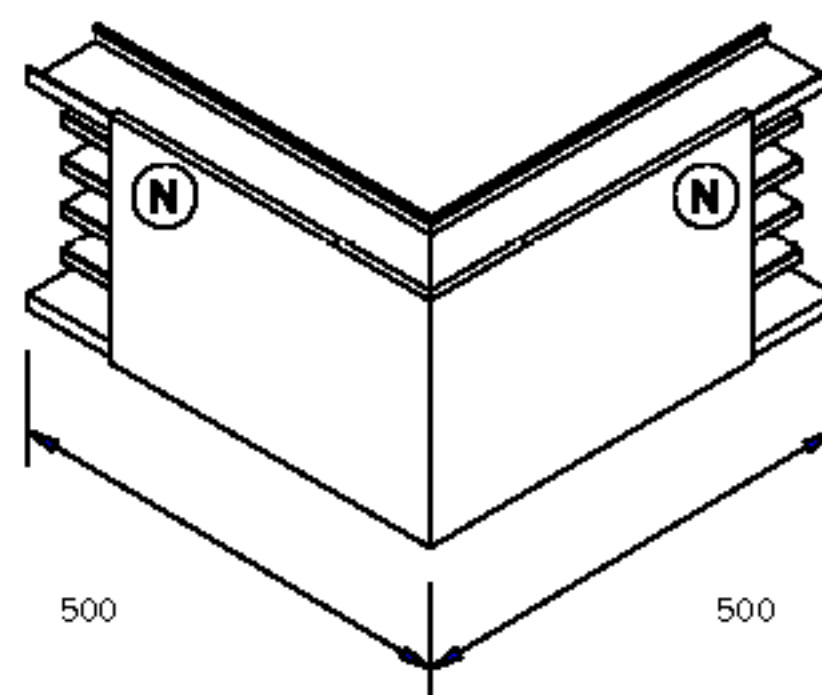


- ① GDA line element
- ② Joint cover
- ③ One-bolt joint
- ④ Lateral cover chasm
- ⑤ Screw 5MA
- ⑥ Stud nut 5MA

■ **Joint**

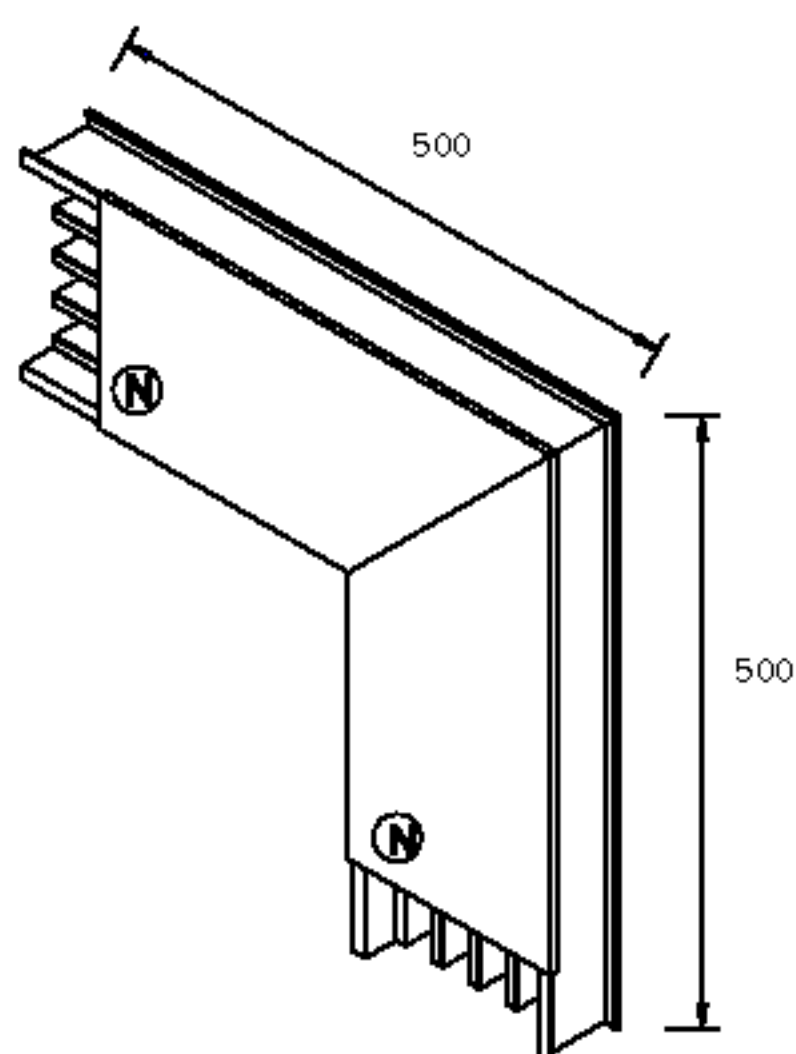


SX

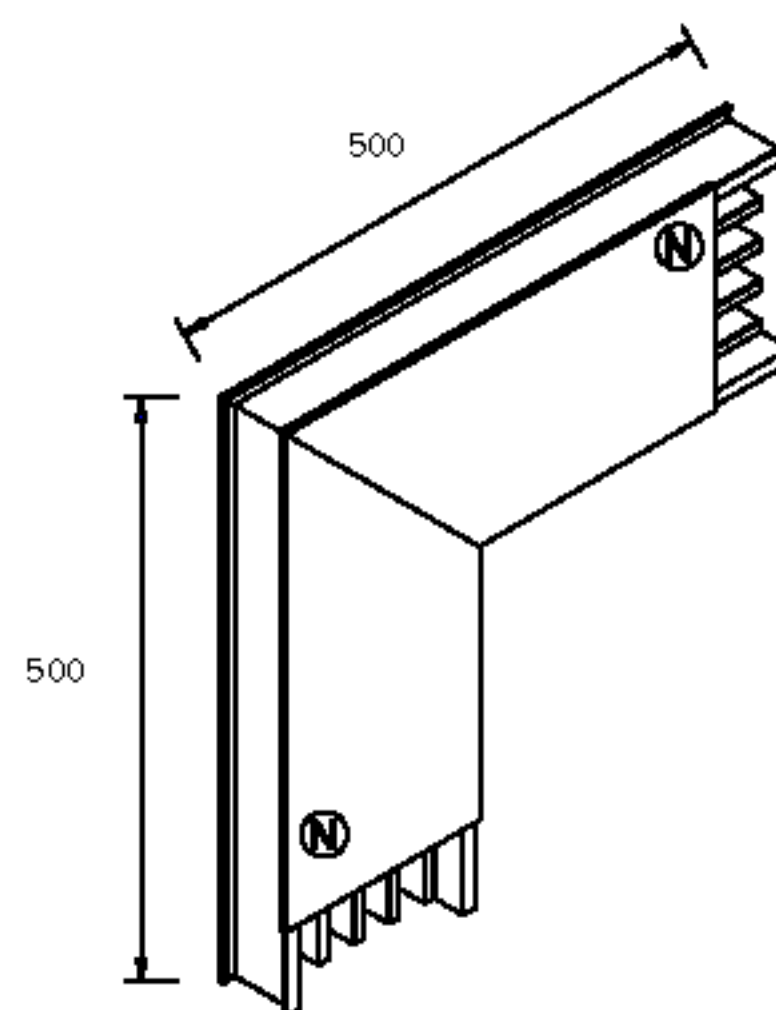


DX

■ **Horizontal elbows**

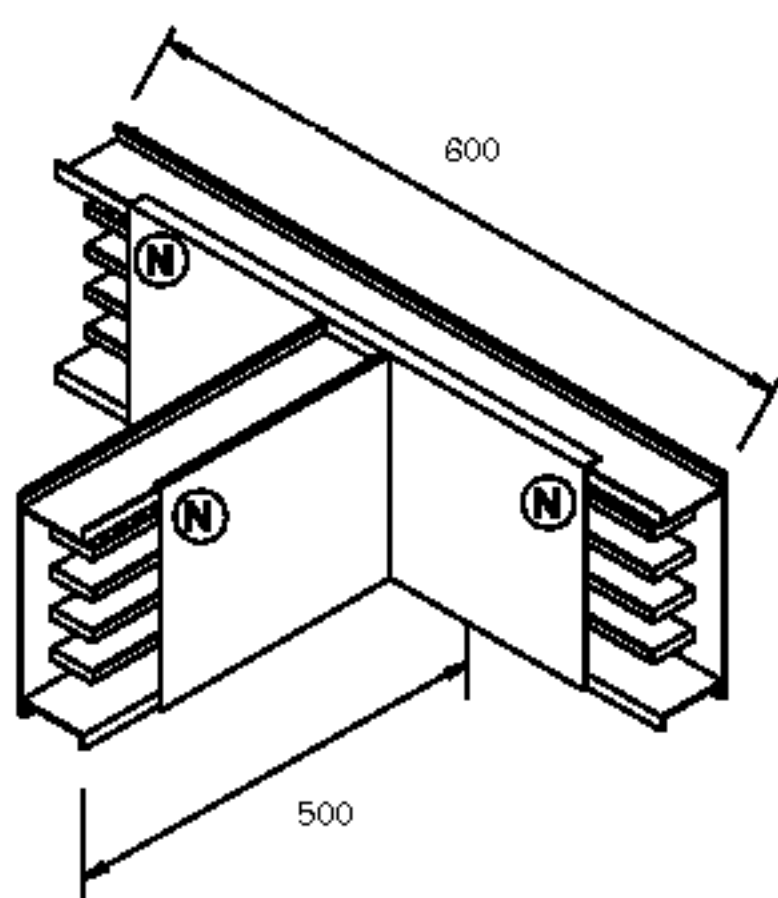


SX

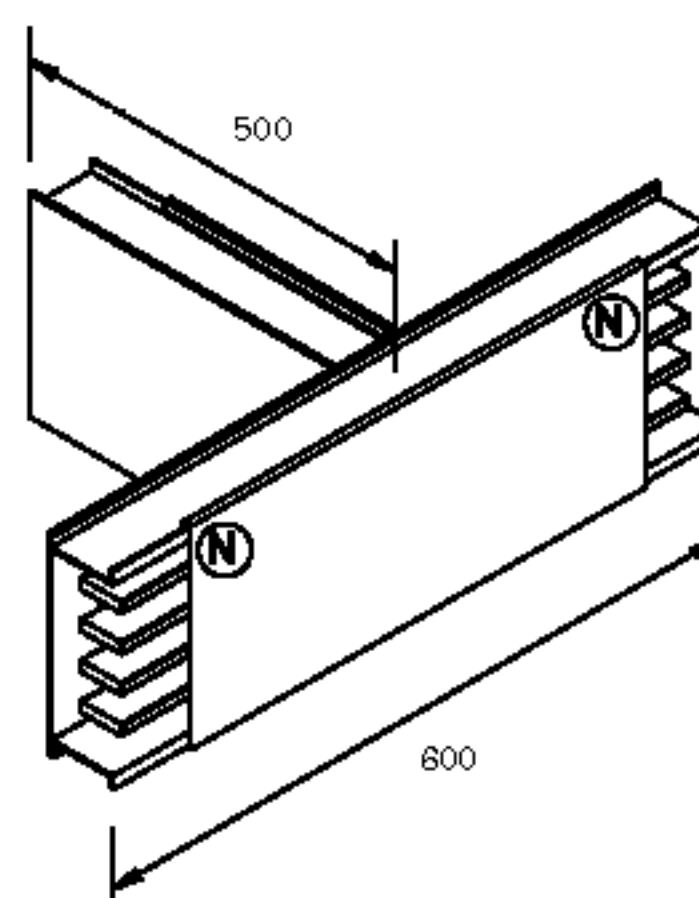


DX

■ **Vertical elbows**

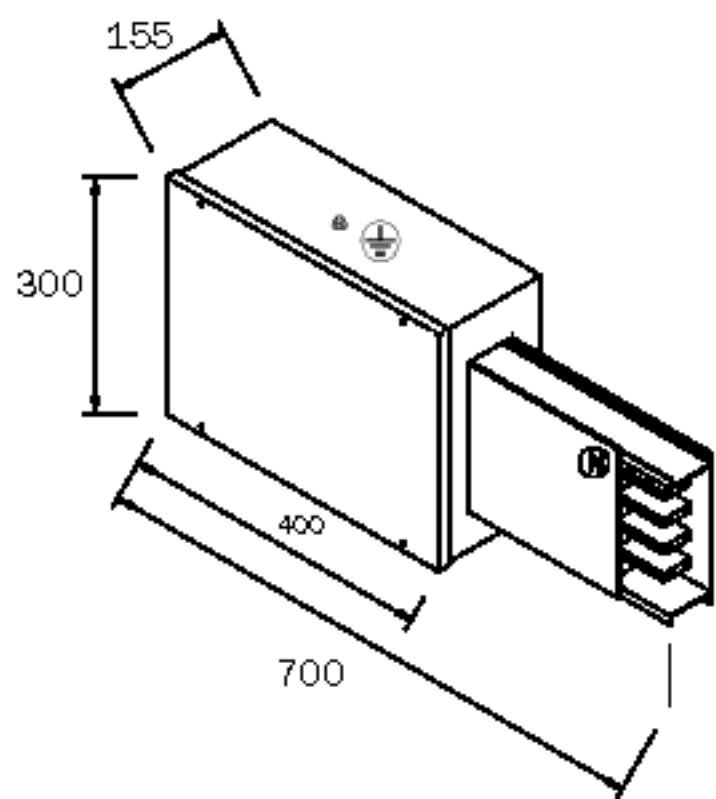


SX

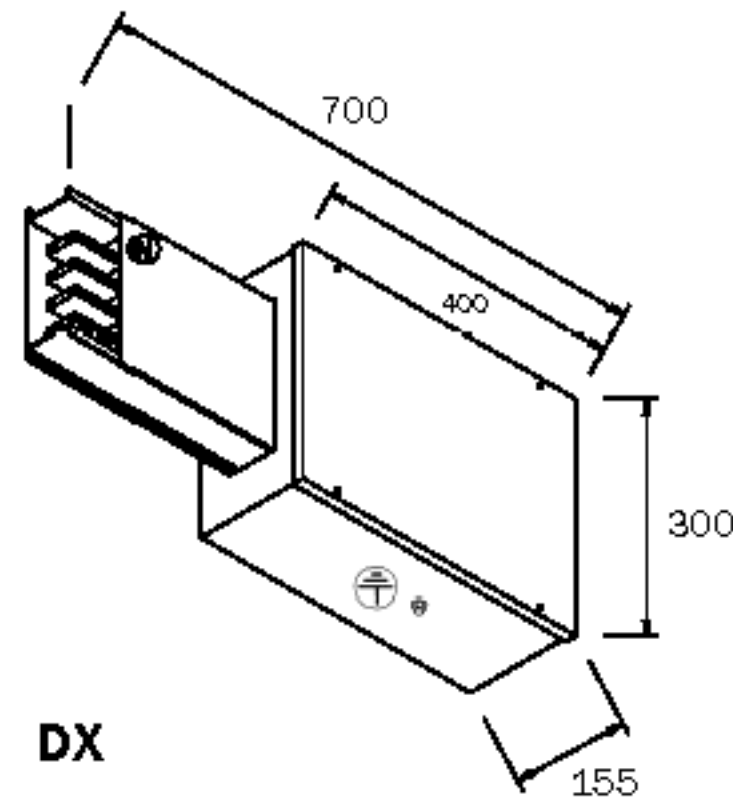


DX

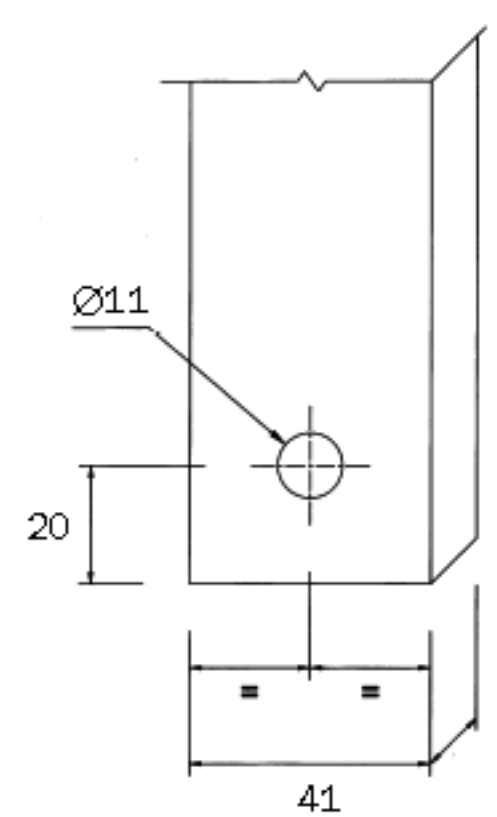
■ **"T" elbows**



SX

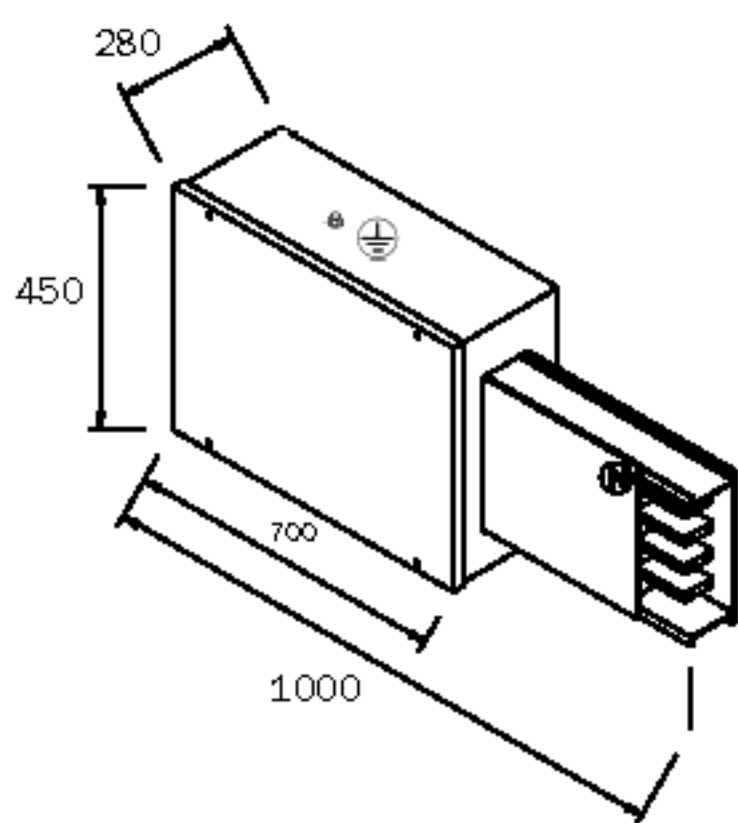


DX

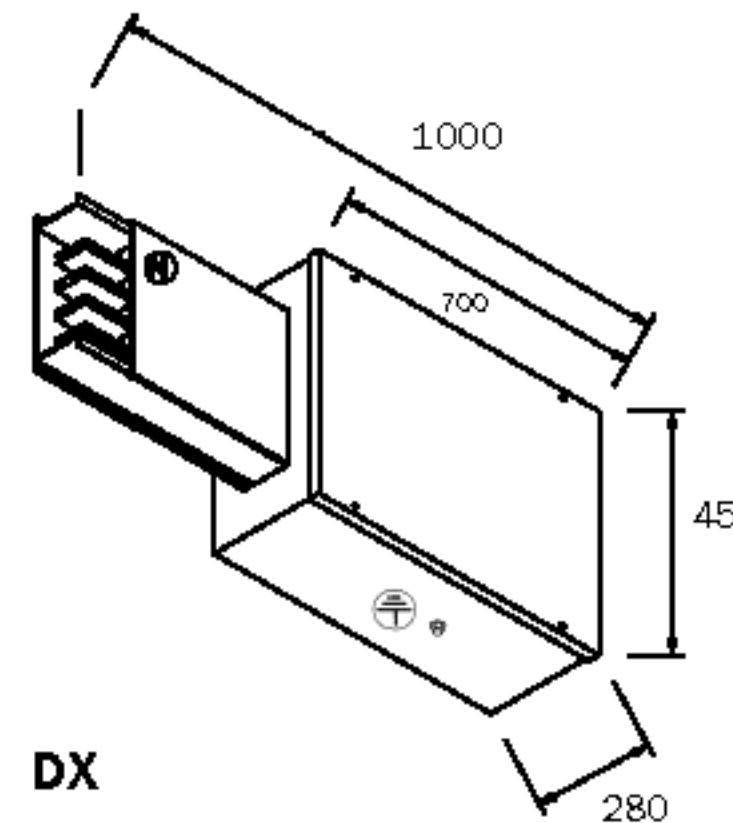


Feed box GDA/GDR 160 - 400 A

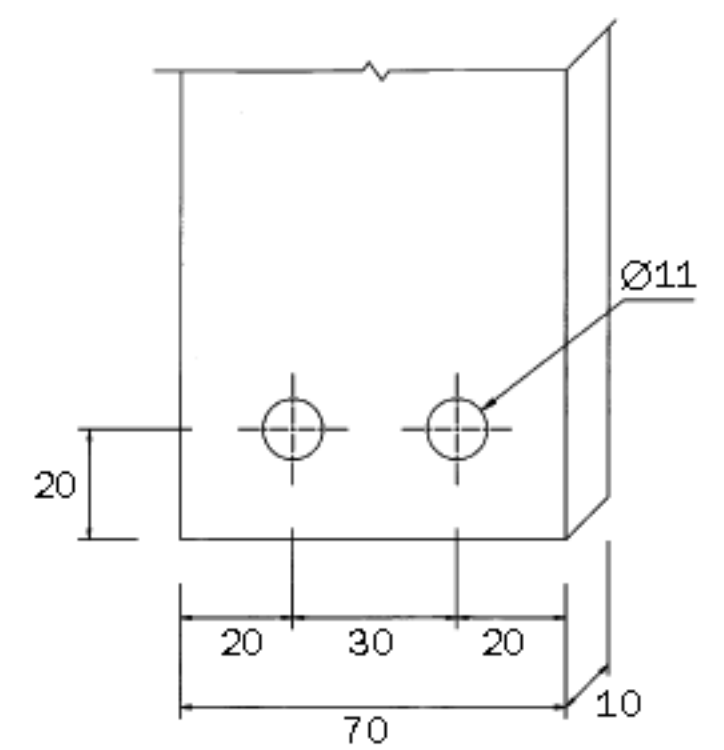
Feed unit connection



SX

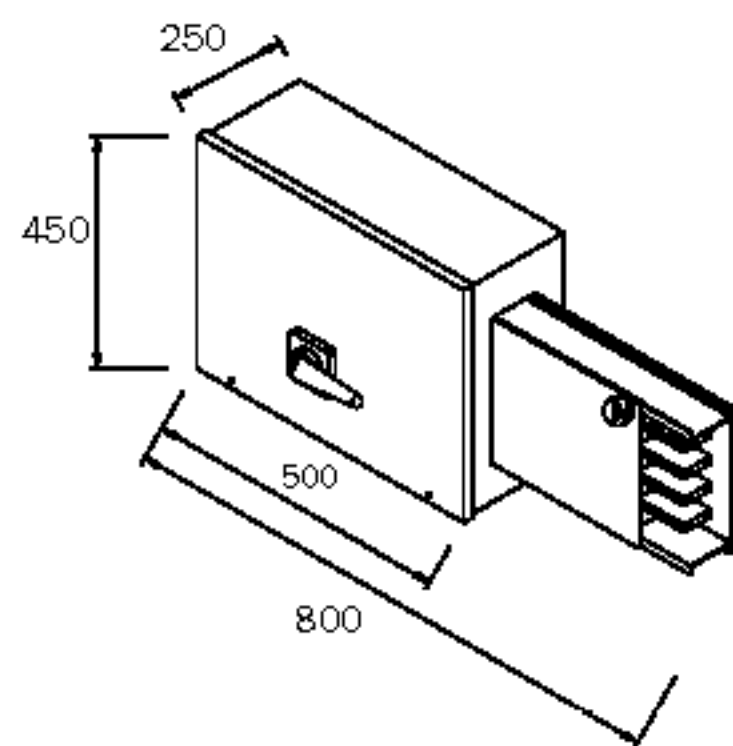


DX

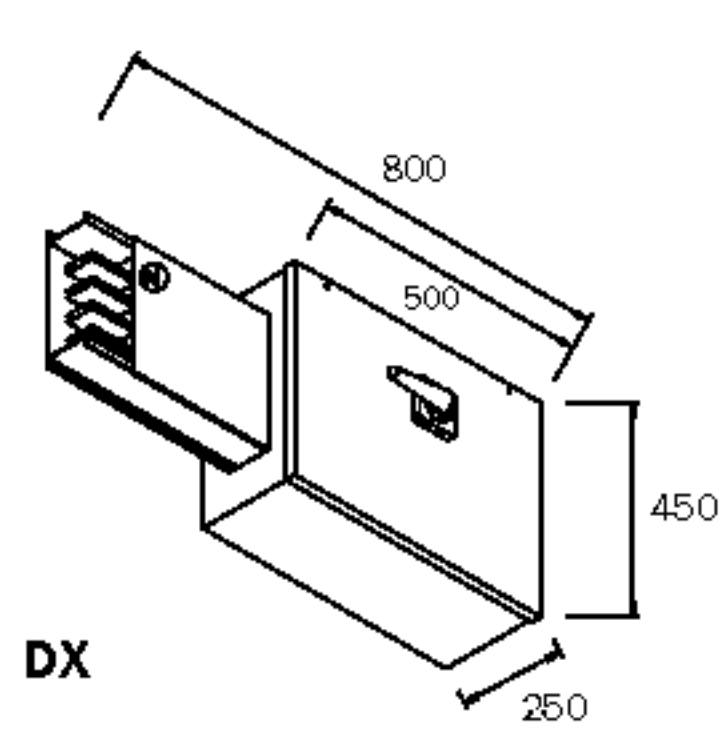


Feed box GDA/GDR 500 - 1600 A

Feed unit connection

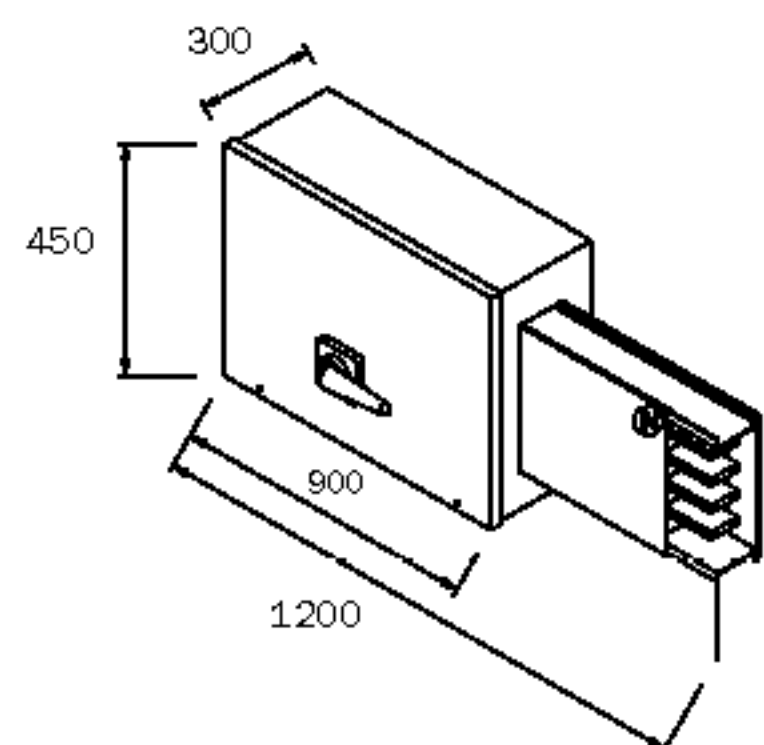


SX

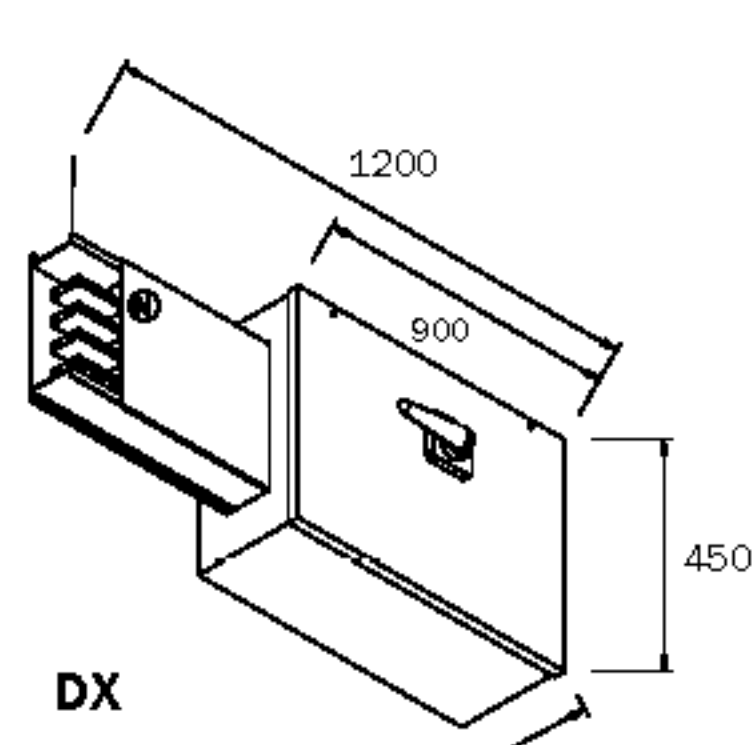


DX

Feed box with switch GDA/GDR 160 - 400 A

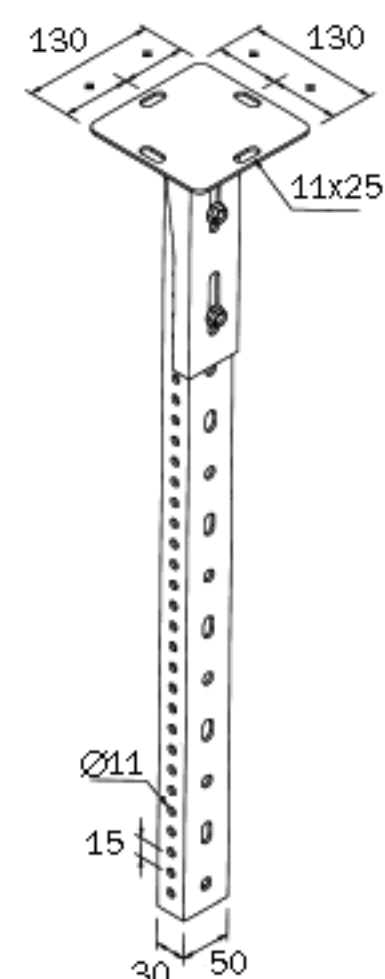
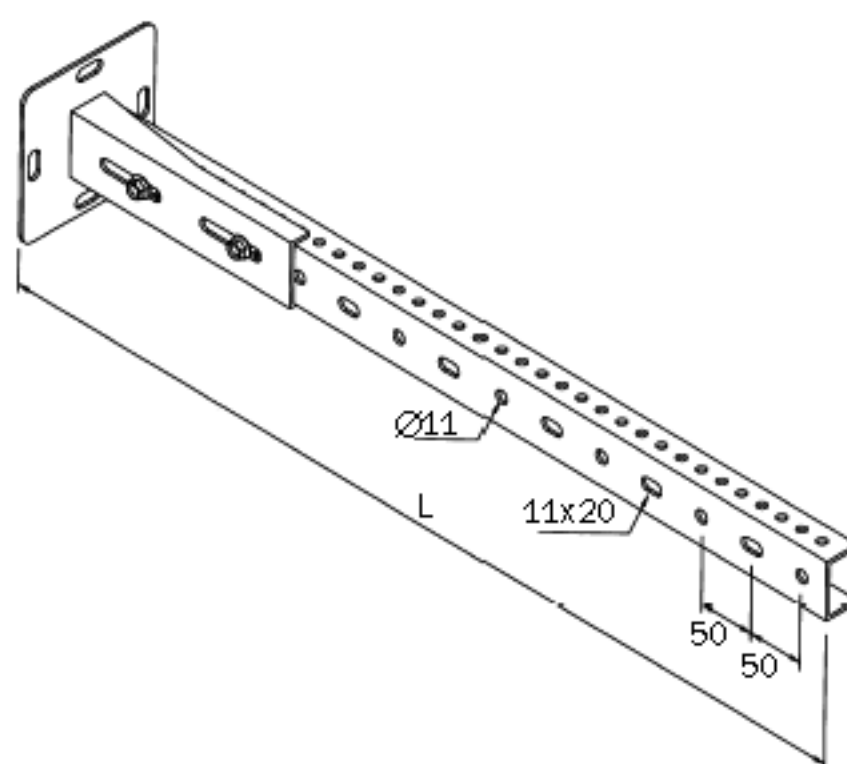
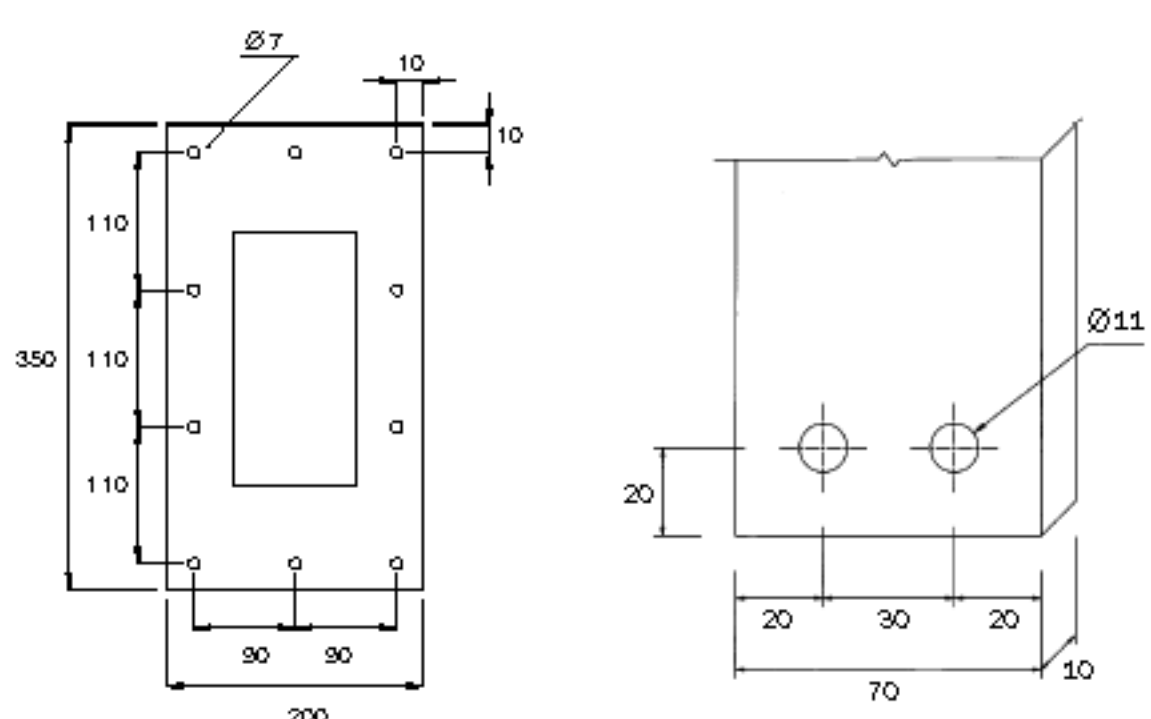
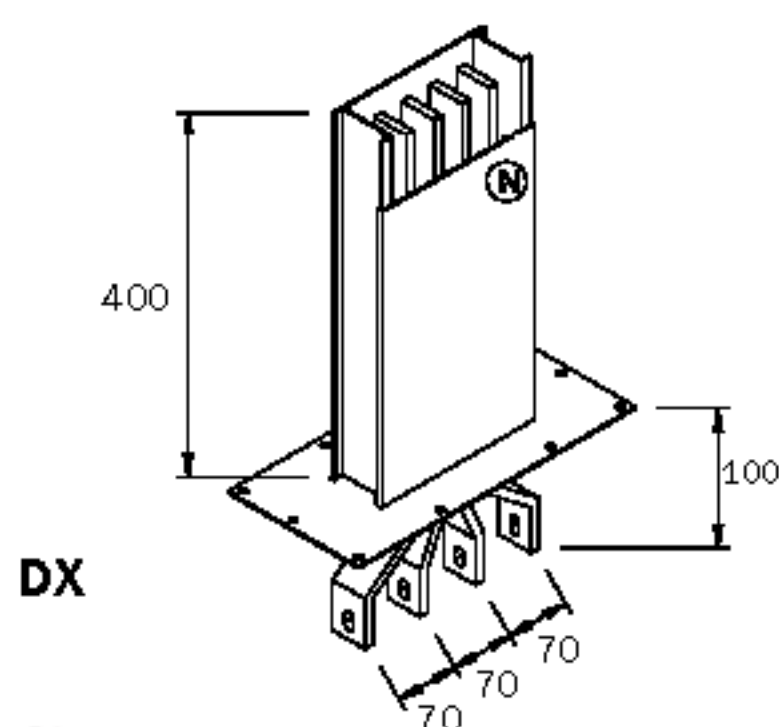
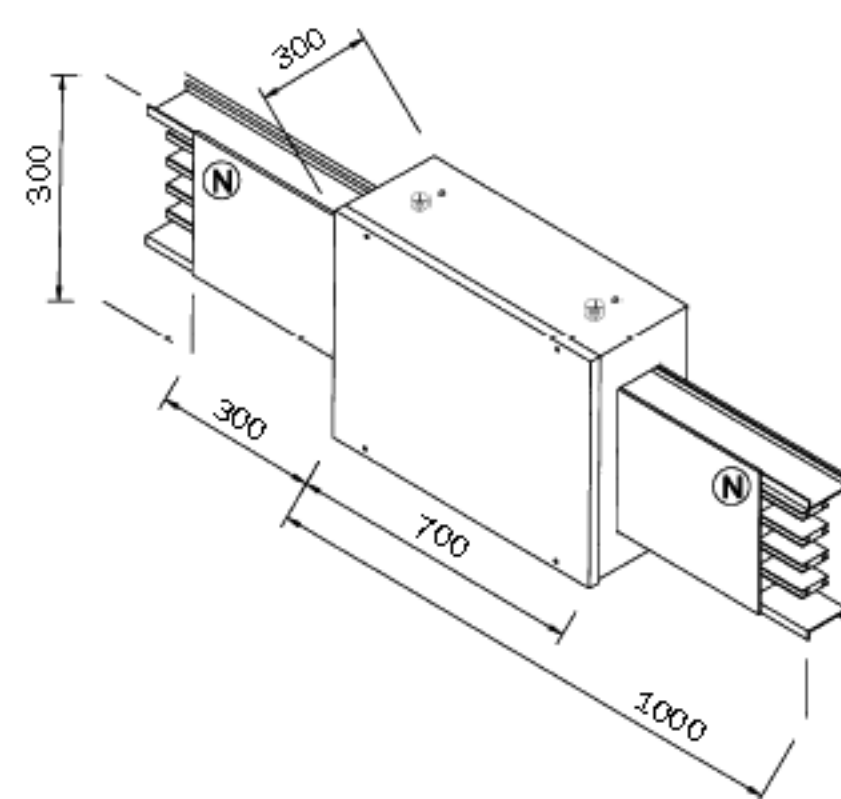


SX

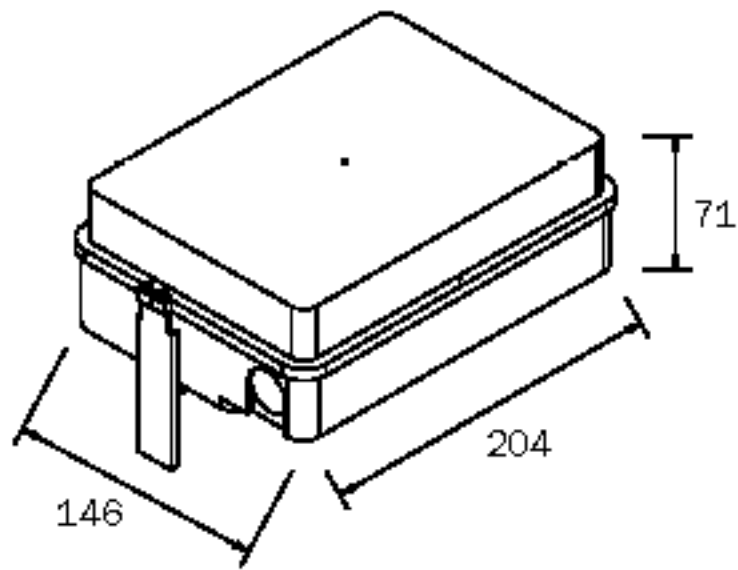


DX

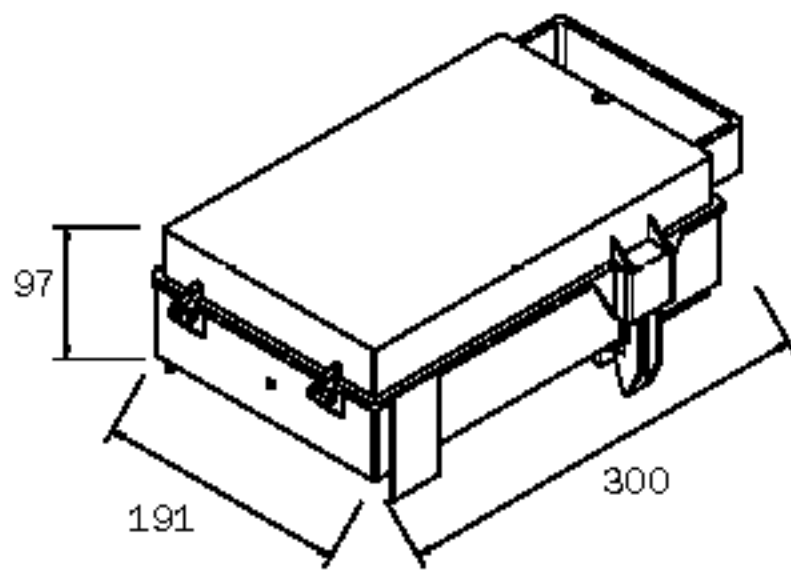
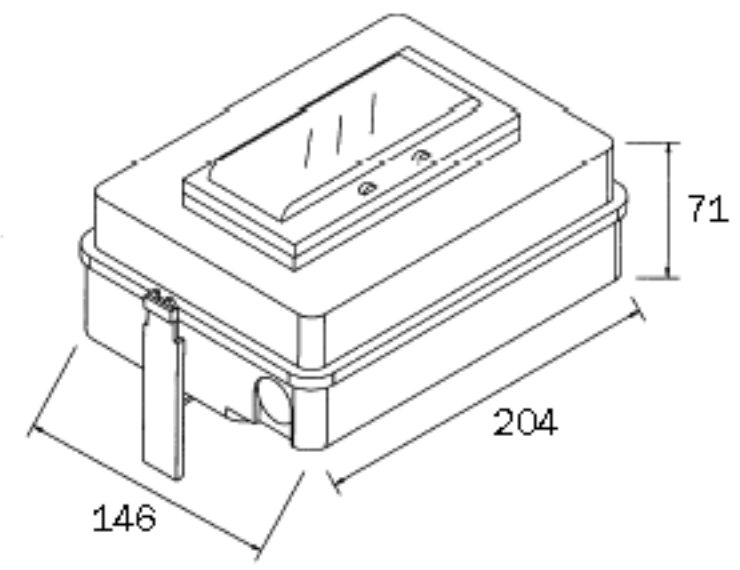
Feed box with switch GDA/GDR 500 - 1600 A



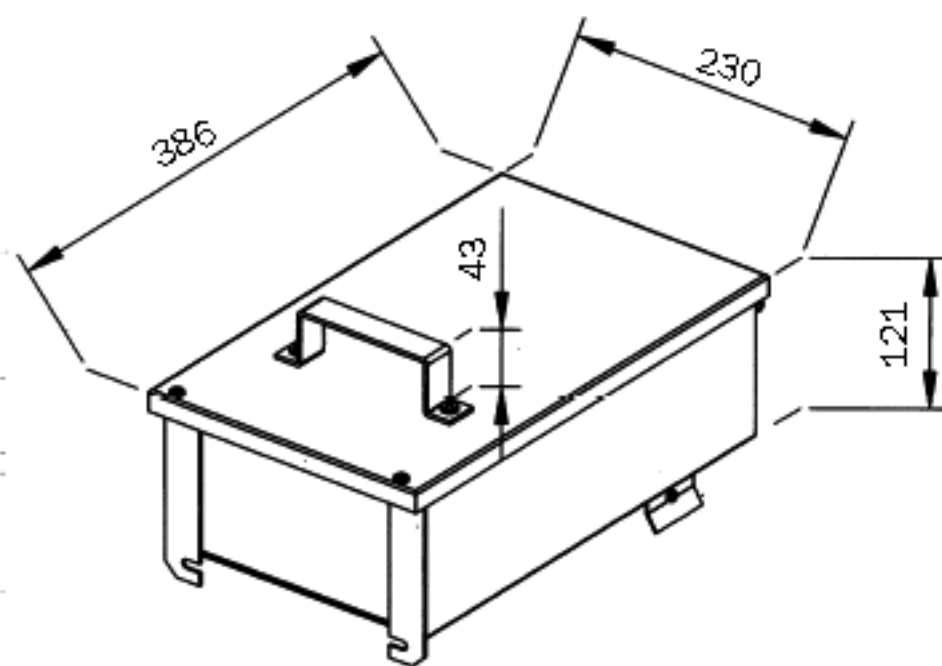
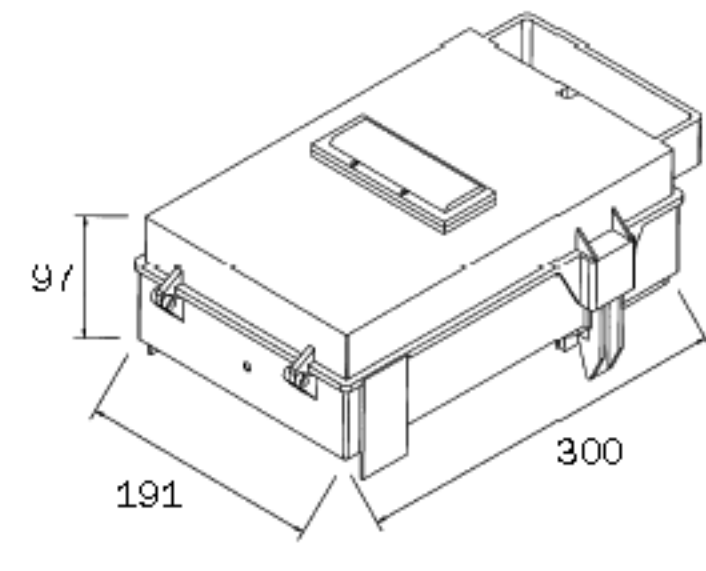
■ **Tap off boxes**



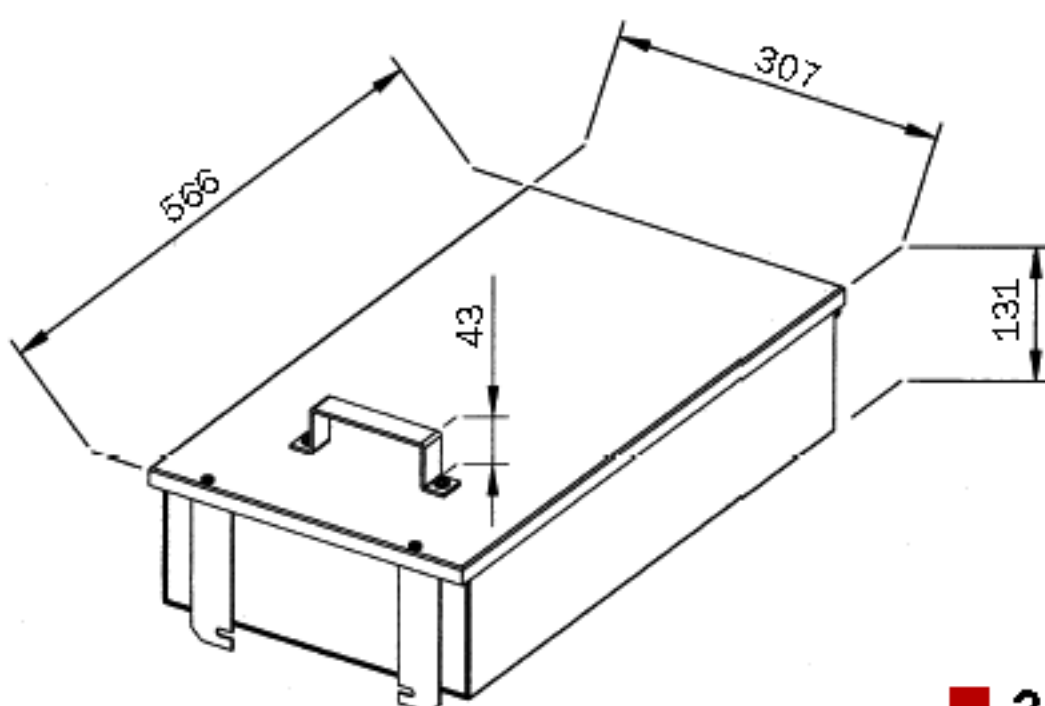
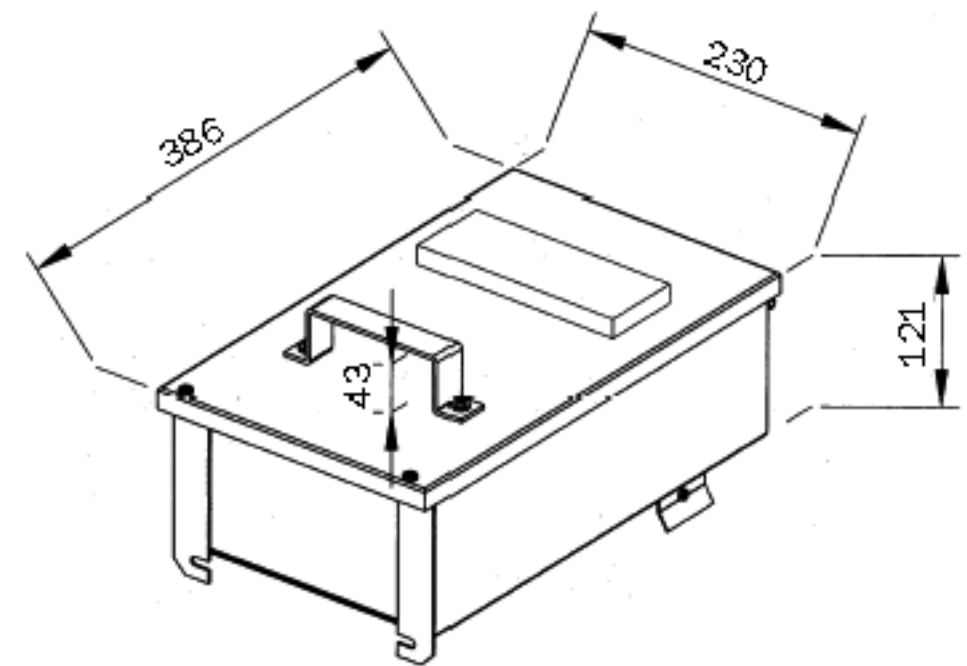
■ **25 A**



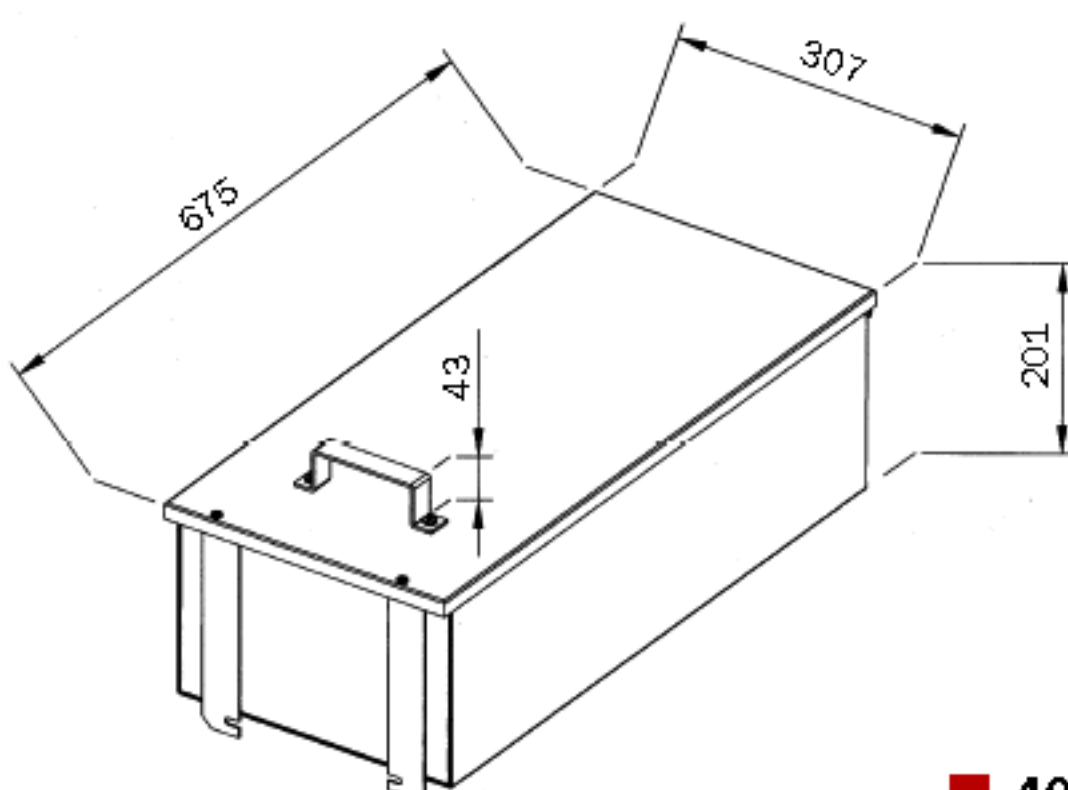
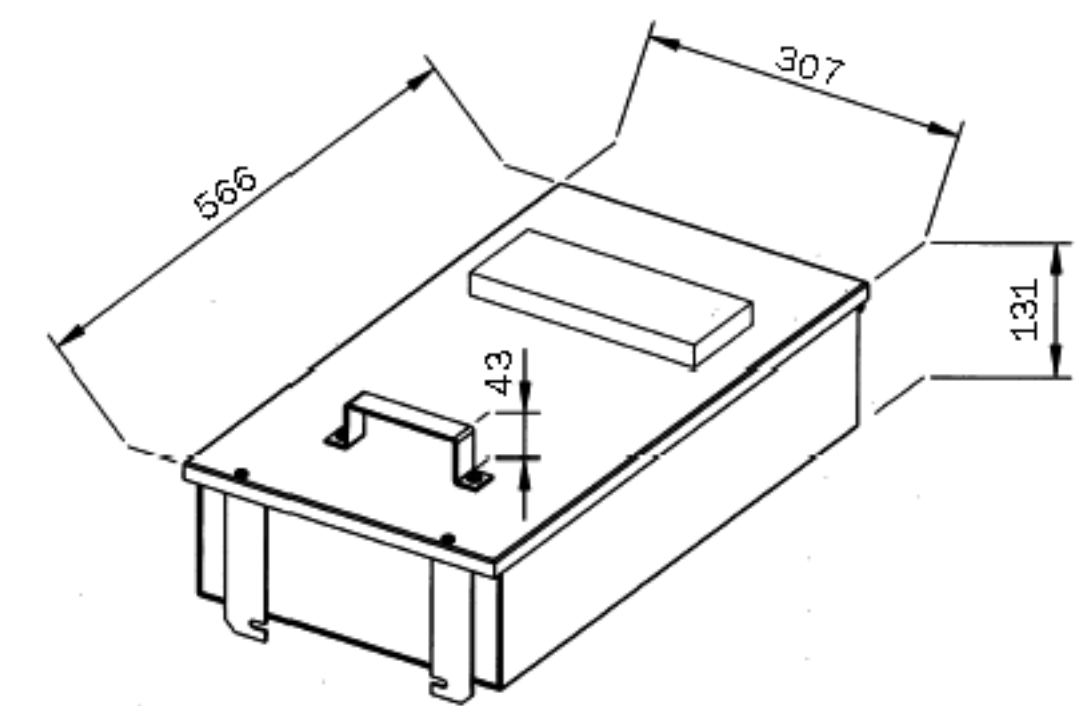
■ **63-125 A**



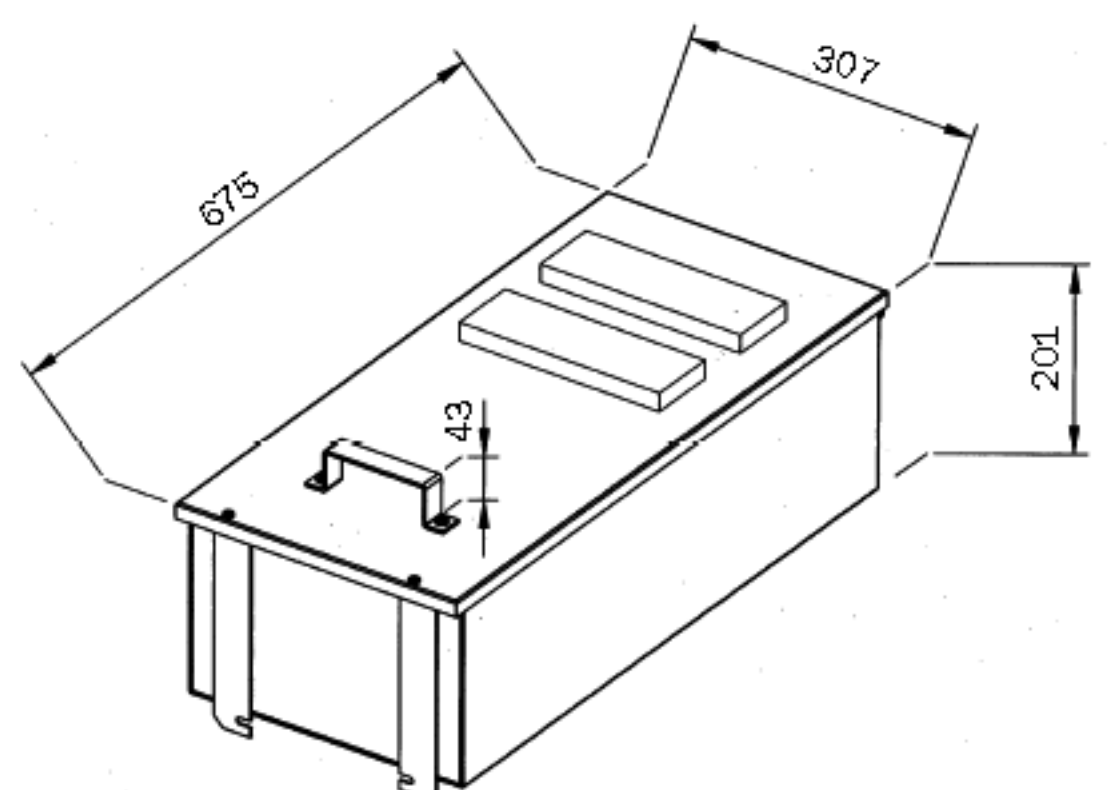
■ **160 A**



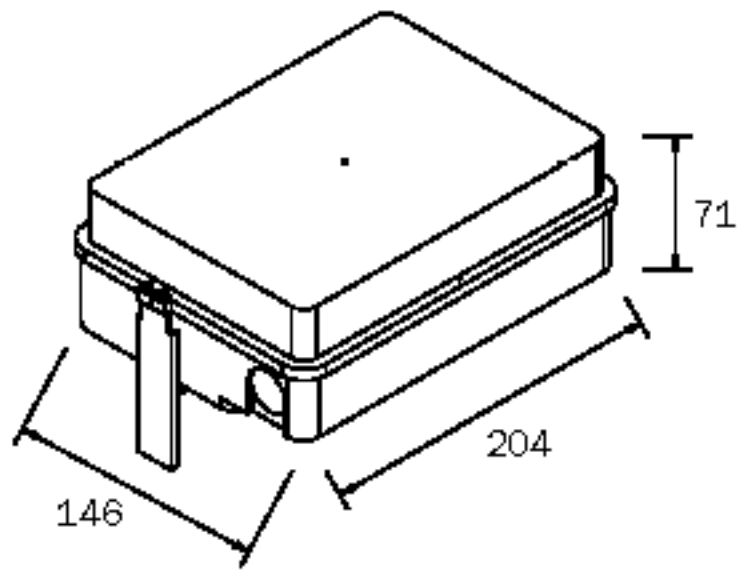
■ **250 A**



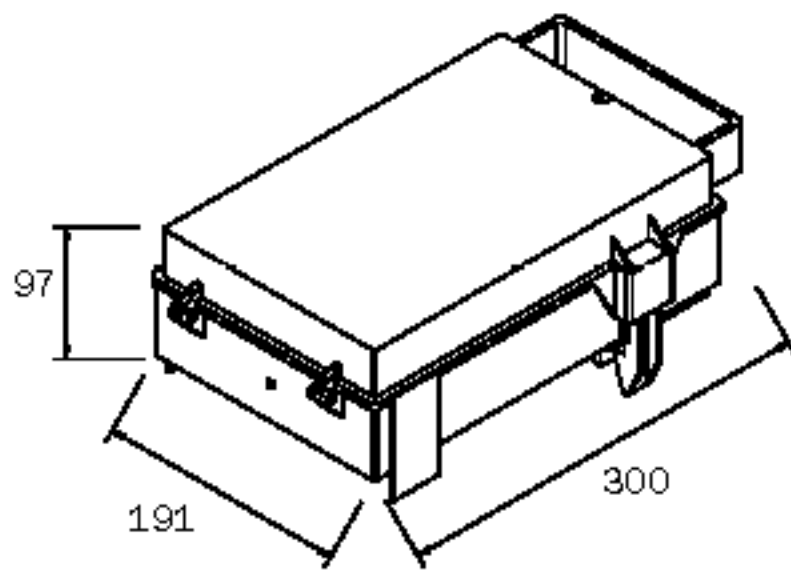
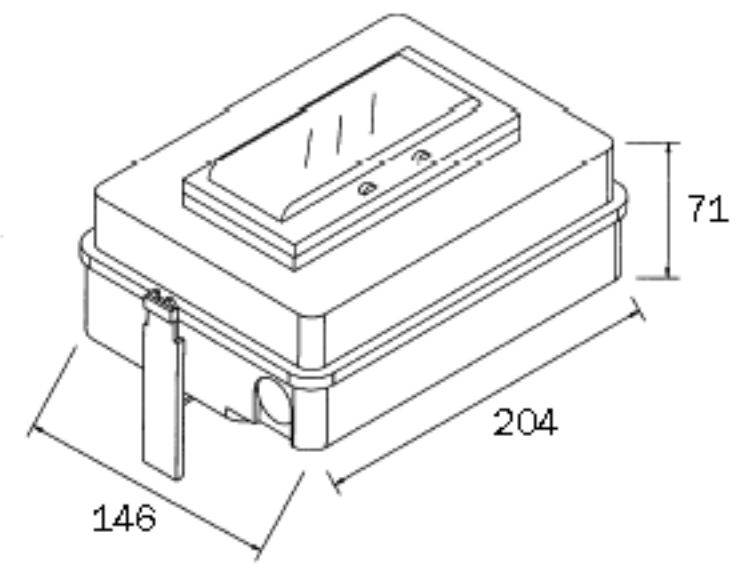
■ **400 A**



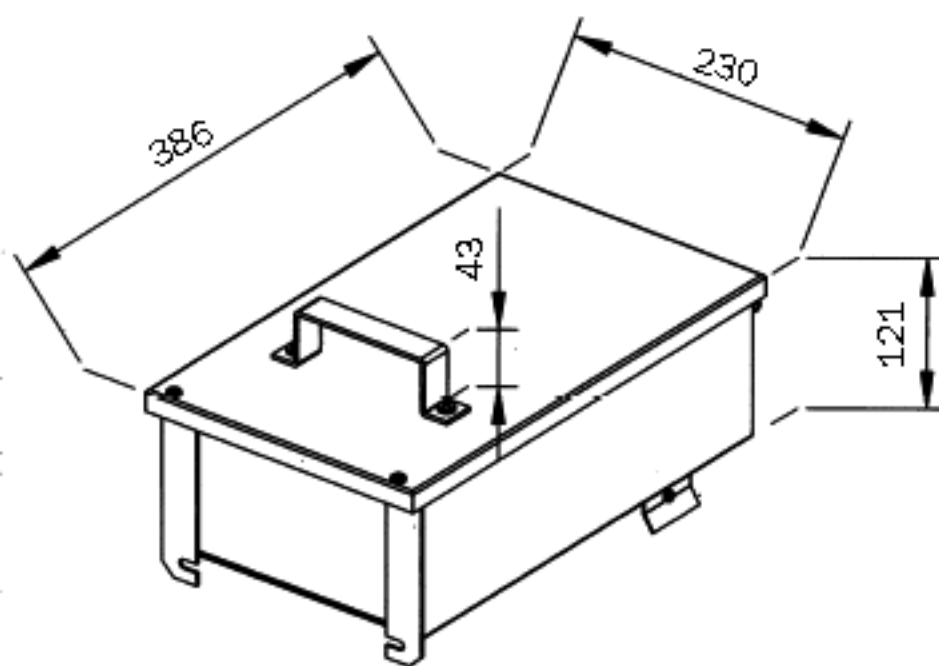
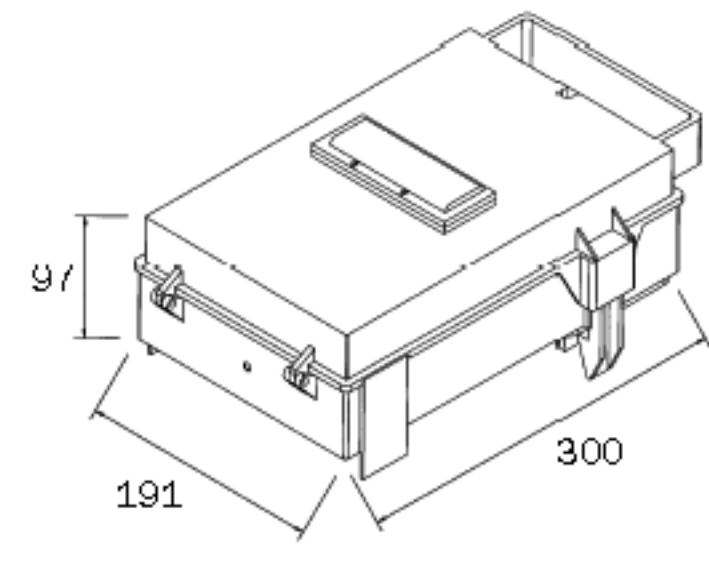
■ **Tap off boxes**



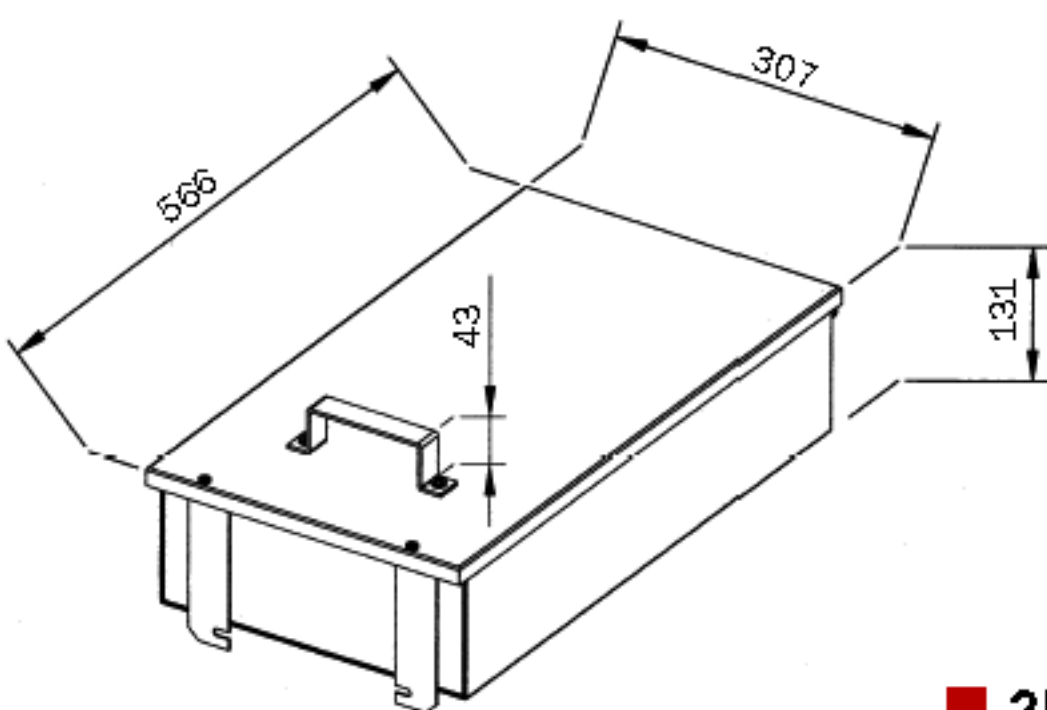
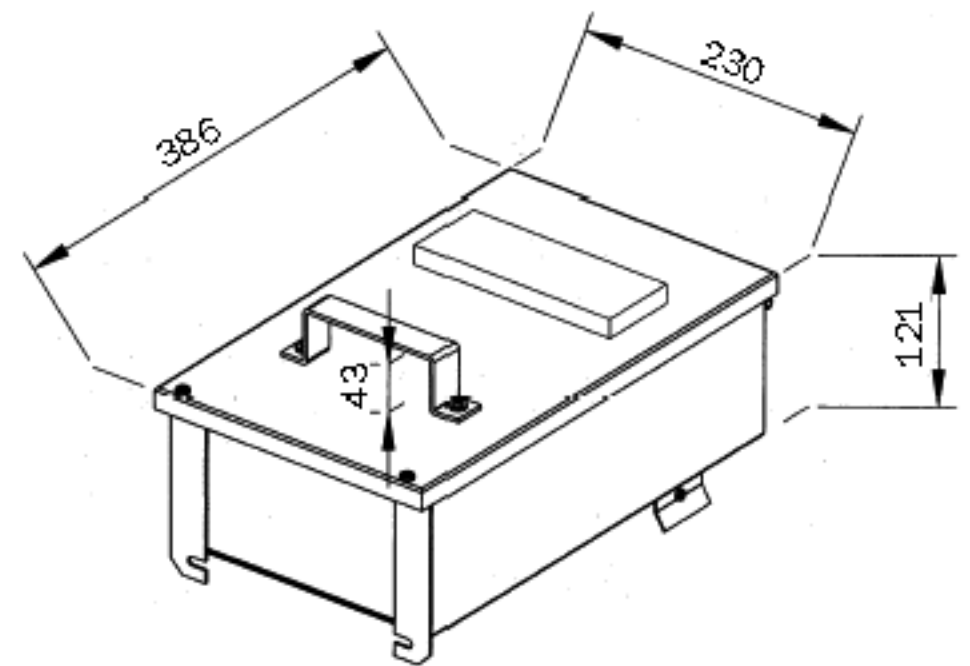
■ **25 A**



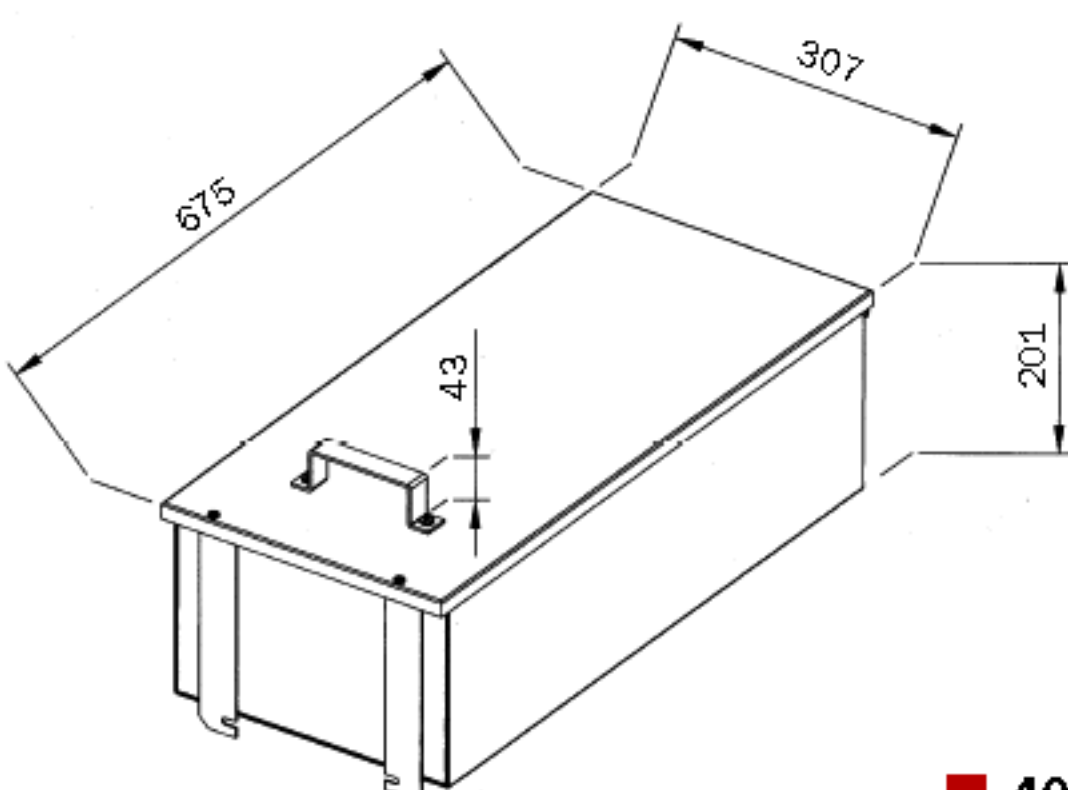
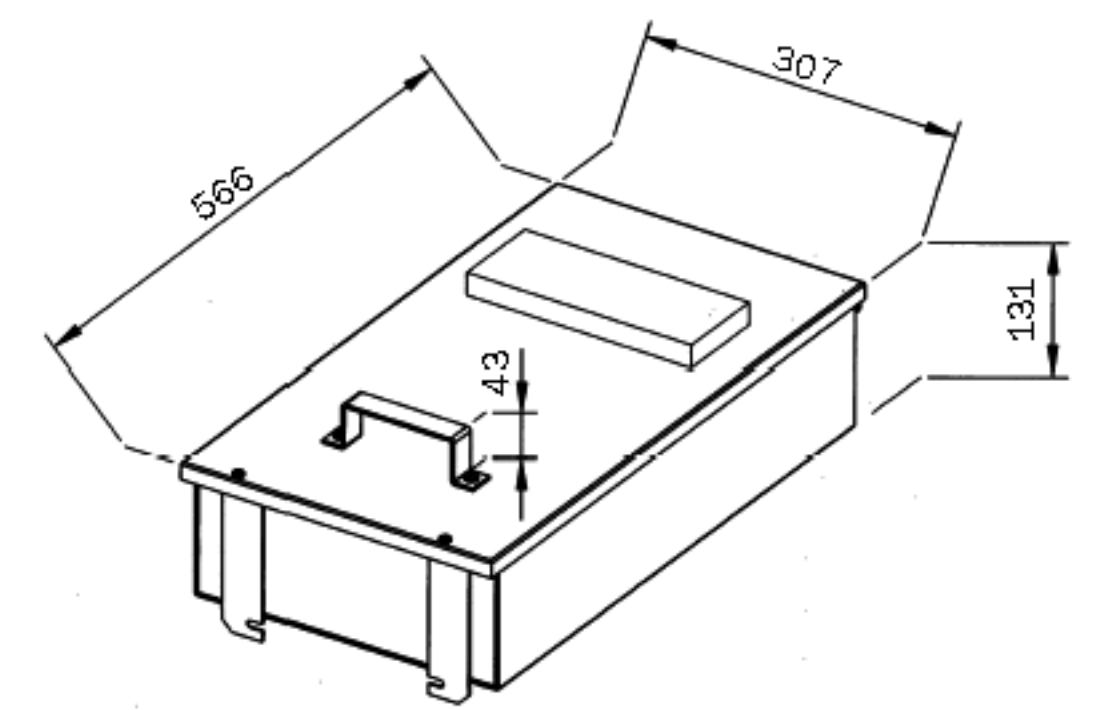
■ **63-125 A**



■ **160 A**



■ **250 A**



■ **400 A**

