ESC_INTERNO_nov2012.indd 27

GDA 63-2000 A

GRAZIADIO & C.

17/12/12 15:30

Sistemi di distribuzione
Plug-in busbar
63-2000 A

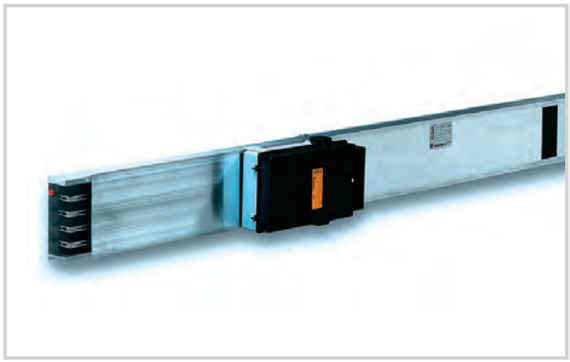
- Involucro esterno in alluminio
- Giunto monobullone
- Conduttori in alluminio e in rame con profilo appositamente progettato per sfruttare meglio l'effetto pelle
- Grado di protezione da IP50 a IP55
- Elementi rettilinei standard di 4 m
- Sezione del Neutro sempre pari alla fase
- GDA 4: conduttore di PE involucro con sezione sempre superiore alla fase
- GDA 5: conduttore di PE dedicato
- Derivazioni su entrambi i lati
- Cassette di derivazione inseribili sotto tensione

- Aluminium housing
- One bolt joint
- Aluminium and copper conductors have been specially designed to make the most of SKIN EFFECT
- Protection degree trom 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
- Tap off boxes plug-in type in live conditions

GDA è conforme alle norme:
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

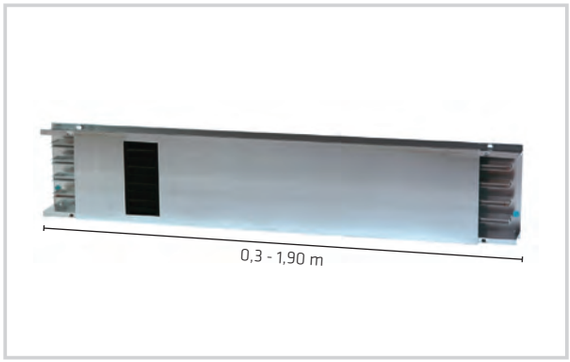
ESC_INTERNO_nov2012.indd 28 17/12/12 15:30



ELEMENTI RETTILINEI (4 m) • STRAIGHT ELEMENTS (4 m)					
A	GDA 4		GDA 5		
	Codice Code	Kg/m	Codice Code	Kg/m	N° derivazioni Tap off points
63	GDA100630	3,0	GDA200630	3,3	4+0
100	GDA100000	3,1	GDA200000	3,4	4+0
160	GDA101000M	3,3	GDA201000M	3,6	4+0
250	GDA102000	4,4	GDA202000	4,7	4+4
400	GDA104000	6,2	GDA204000	6,5	4+4
500	GDA105000	7,7	GDA205000	8,45	4+4
630	GDA106000	9,0	GDA206000	9,75	4+4
800	GDA108000	10,0	GDA208000	10,75	4+4
1000	GDA110000	11,3	GDA210000	12,11	4+4
1250	GDA112000	14,7	GDA212000	15,6	4+0
1600	GDA116000	16,6	GDA216000	17,5	4+0

Gli elementi rettilinei sono IP50, elevabili a IP55 con gli appositi accessori.
Straight elements are IP50, it is possible to have IP55 with accessories.

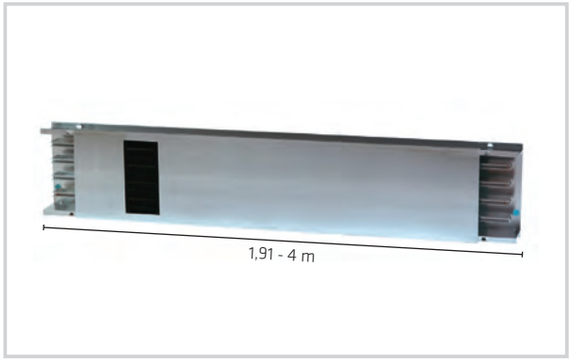
Il giunto è sempre incluso in ogni elemento.
The joint is always included in each element.



ELEMENTI RETTILINEI A MISURA DA 0,3 A 1,90 METRI STRAIGHT ELEMENTS LENGTH 0,3 - 1,90 M		
A	GDA 4	GDA 5
	Codice Code	Codice Code
63	GDA100631	GDA200631
100	GDA100001	GDA200001
160	GDA101001M	GDA201001M
250	GDA102001	GDA202001
400	GDA104001	GDA204001
500	GDA105001	GDA205001
630	GDA106001	GDA206001
800	GDA108001	GDA208001
1000	GDA110001	GDA210001
1250	GDA112001	GDA212001
1600	GDA116001	GDA216001

N.B. Il numero delle predisposizioni per le derivazioni varia a seconda della lunghezza dell'elemento.
N.B. The number of tap off boxes depends on the length of elements.

Il giunto è sempre incluso in ogni elemento.
The joint is always included in each element.

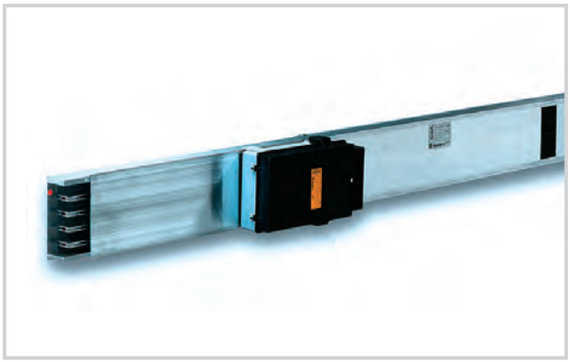


ELEMENTI RETTILINEI A MISURA DA 1,91 A 4 METRI STRAIGHT ELEMENTS LENGTH 1,91 - 4 M		
A	GDA 4	GDA 5
	Codice Code	Codice Code
63	GDA100632	GDA200632
100	GDA100002	GDA200002
160	GDA101002M	GDA201002M
250	GDA102002	GDA202002
400	GDA104002	GDA204002
500	GDA105002	GDA205002
630	GDA106002	GDA206002
800	GDA108002	GDA208002
1000	GDA110002	GDA210002
1250	GDA112002	GDA212002
1600	GDA116002	GDA216002

N.B. Il numero delle predisposizioni per le derivazioni varia a seconda della lunghezza dell'elemento.
N.B. The number of tap off boxes depends on the length of elements.

Il giunto è sempre incluso in ogni elemento.
The joint is always included in each element.

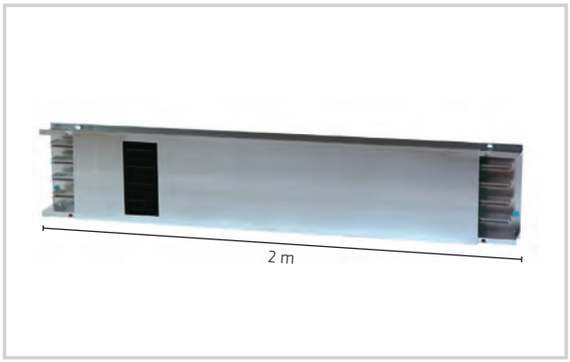
ESC_INTERNO_nov2012.indd 29 17/12/12 15:30



ELEMENTI RETTILINEI DA 4 M CON DERIVAZIONI OGNI 0,5 M SOLO IN FRONTE
STRAIGHT ELEMENTS 4 M LENGHT WITH PLUG-IN POINTS EVERY 0,5 M ONLY IN FRONT

A	GDA 4	GDA 5	
	Codice Code	Codice Code	N° derivazioni Tap off points
63	GDA100630S	GDA200630S	8+0
100	GDA100000S	GDA200000S	8+0
160	GDA101000MS	GDA201000MS	8+0
250	GDA102000S	GDA202000S	8+0
400	GDA104000S	GDA204000S	8+0
500	GDA105000S	GDA205000S	8+0
630	GDA106000S	GDA206000S	8+0
800	GDA108000S	GDA208000S	8+0
1000	GDA110000S	GDA210000S	8+0
1250	GDA112000S	GDA212000S	8+0
1600	GDA116000S	GDA216000S	8+0

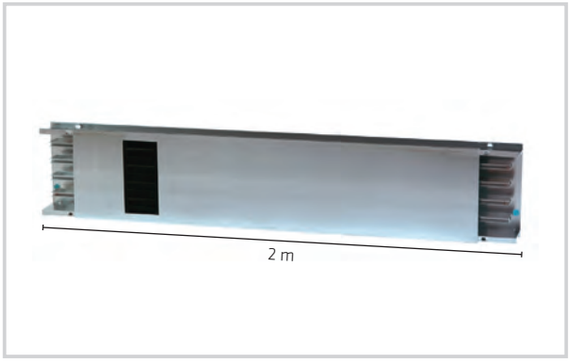
Gli elementi rettilinei sono IP50, elevabili a IP55 con gli appositi accessori.
Straight elements are IP50, it is possible to have IP55 with accessories.
Il giunto è sempre incluso in ogni elemento.
The joint is always included in each element.



ELEMENTI RETTILINEI DA 2 M • **STRAIGHT ELEMENTS 2 M LENGHT**

A	GDA 4	GDA 5
	Codice Code	Codice Code
63	GDA100632M2	GDA200632M2
100	GDA100002M2	GDA200002M2
160	GDA101002M2	GDA201002M2
250	GDA102002M2	GDA202002M2
400	GDA104002M2	GDA204002M2
500	GDA105002M2	GDA205002M2
630	GDA106002M2	GDA206002M2
800	GDA108002M2	GDA208002M2
1000	GDA110002M2	GDA210002M2
1250	GDA112002M2	GDA212002M2
1600	GDA116002M2	GDA216002M2

Ordine minimo: multipli di 2 pezzi.
Minimum order: multiples of 2 pcs.
Il giunto è sempre incluso in ogni elemento.
The joint is always included in each element.



ELEMENTI RETTILINEI DA 2 M CON DERIVAZIONI OGNI 0,5 M SOLO IN FRONTE
STRAIGHT ELEMENTS 2 M LENGHT WITH PLUG-IN POINTS EVERY 0,5 M ONLY IN FRONT

A	GDA 4	GDA 5	
	Codice Code	Codice Code	N° derivazioni Tap off points
63	GDA100632M2S	GDA200632M2S	4+0
100	GDA100002M2S	GDA200002M2S	4+0
160	GDA101002M2S	GDA201002M2S	4+0
250	GDA102002M2S	GDA202002M2S	4+0
400	GDA104002M2S	GDA204002M2S	4+0
500	GDA105002M2S	GDA205002M2S	4+0
630	GDA106002M2S	GDA206002M2S	4+0
800	GDA108002M2S	GDA208002M2S	4+0
1000	GDA110002M2S	GDA210002M2S	4+0
1250	GDA112002M2S	GDA212002M2S	4+0
1600	GDA116002M2S	GDA216002M2S	4+0

Ordine minimo: multipli di 2 pezzi.
Minimum order: multiples of 2 pcs.
Il giunto è sempre incluso in ogni elemento.
The joint is always included in each element.

ESC_INTERNO_nov2012.indd 30 17/12/12 15:30

ANGOLI ORIZZONTALI • HORIZONTAL ELBOWS				
A	GDA 4		GDA 5	
	DX	SX	DX	SX
	Codice Code		Codice Code	
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
1250	GDA116116	GDA116115	GDA216116	GDA216115
1600	GDA116116	GDA116115	GDA216116	GDA216115

Il giunto è sempre incluso in ogni elemento.
The joint is always included in each element.

ANGOLI VERTICALI • VERTICAL ELBOWS				
A	GDA 4		GDA 5	
	DX	SX	DX	SX
	Codice Code		Codice Code	
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
1250	GDA116118	GDA116117	GDA216118	GDA216117
1600	GDA116118	GDA116117	GDA216118	GDA216117

Il giunto è sempre incluso in ogni elemento.
The joint is always included in each element.

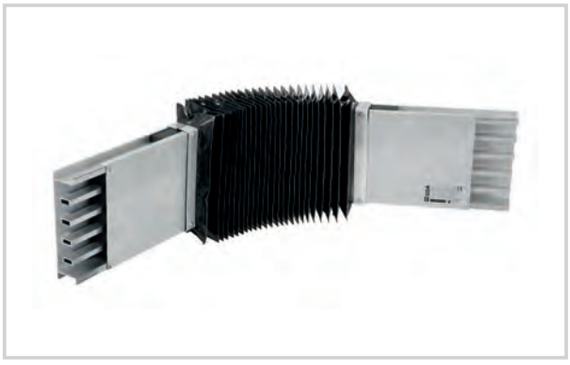
ANGOLI SU MISURA • ON MEASURE ELBOW		
Lunghezza (lato + lato) < 1,50 m • Lenght (side + side) <1,50 m		
A	GDA 4	GDA 5
	Codice Code	Codice Code
250/1600	GDA******S	GDA******S
Lunghezza (lato + lato) > 1,50 m • Lenght (side + side) >1,50 m		
A	GDA 4	GDA 5
	Codice Code	Codice Code
250/1600	GDA******SS	GDA******SS

Sostituire "*" con il codice dell'angolo standard desiderato.
Change "*" with the code of standard elbow.
Il giunto è sempre incluso in ogni elemento.
The joint is always included in each element.

ESC_INTERNO_nov2012.indd 31 17/12/12 15:30

ANGOLI <> 90° • ELBOWS <> 90°		
A	GDA 4	GDA 5
	Codice Code	Codice Code
250/1600	GDA******M	GDA******M

Sostituire "*" con il codice dell'angolo standard desiderato.
Change "*" with the code of standard elbow.
Il giunto è sempre incluso in ogni elemento.
The joint is always included in each element.



ANGOLI FLESSIBILI • FLEXIBLE ELBOWS		
A	GDA 4	GDA 5
	Codice Code	Codice Code
63	GDA1FX16	GDA2FX16
100	GDA1FX16	GDA2FX16
160	GDA1FX16	GDA2FX16

Lunghezza totale angolo: 1000 mm.
Total elbow lenght: 1000 mm.
Il giunto è sempre incluso in ogni elemento.
The joint is always included in each element.

ELEMENTI A "T" • "T" ELEMENTS				
A	GDA 4		GDA 5	
	DX	SX	DX	SX
	Codice Code		Codice Code	
63-160	GDA100111M	GDA100109M	GDA200111M	GDA200109M
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
1250	GDA116122	GDA116120	GDA216122	GDA216120
1600	GDA116122	GDA116120	GDA216122	GDA216120

In ogni elemento a "T· sono inclusi 2 giunti.
In every "T" elbow are included 2 joint.

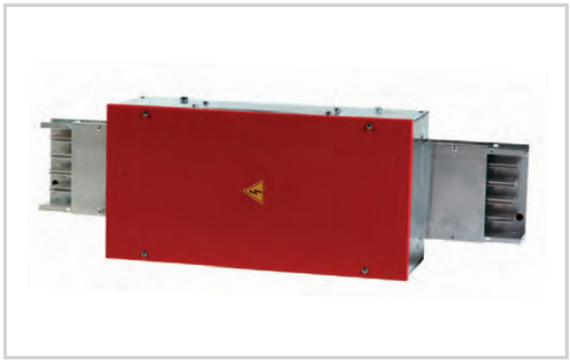
ESC_INTERNO_nov2012.indd 32 17/12/12 15:30

ALIMENTAZIONE DI TESTATA IP55 • END FEED UNIT IP55				
A	GDA 4		GDA 5	
	DX	SX	DX	SX
	Codice Code		Codice Code	
63	GDA100021M	GDA100020M	GDA200021M	GDA200020M
100	GDA100021M	GDA100020M	GDA200021M	GDA200020M
160	GDA100021M	GDA100020M	GDA200021M	GDA200020M
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
1250	GDA116043	GDA116042	GDA216043	GDA216042
1600	GDA116043	GDA116042	GDA216043	GDA216042

Foro passaggio cavi:
Cables entrance:
63-160 A: Ø 46 mm - **250-400 A**: 75 x 200 mm - **500-1600 A**: 364 x 175 mm.

ALIMENTAZIONE DI TESTATA CON INTERRUTTORE SEZIONATORE IP55 END FEED UNIT WITH SWITCH IP55				
A	GDA 4		GDA 5	
	DX	SX	DX	SX
	Codice Code		Codice Code	
63	GDA101004M	GDA101003M	GDA201004M	GDA201003M
100	GDA101004M	GDA101003M	GDA201004M	GDA201003M
160	GDA101004M	GDA101003M	GDA201004M	GDA201003M
250	GDA102004	GDA102003	GDA202004	GDA202003
400	GDA104004	GDA104003	GDA204004	GDA204003
500	GDA105004	GDA105003	GDA205004	GDA205003
630	GDA106004	GDA106003	GDA206004	GDA206003
800	GDA108004	GDA108003	GDA208004	GDA208003
1000	GDA110004	GDA110003	GDA210004	GDA210003
1250	GDA112004	GDA112003	GDA212004	GDA212003
1600	GDA116004	GDA116003	GDA216004	GDA216003

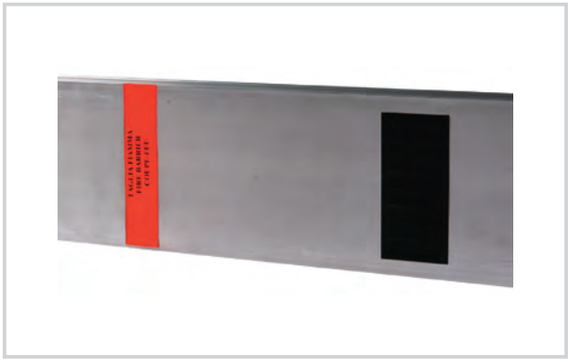
Il sezionatore è senza base portafusibile.
Switch is unfused
Foro passaggio cavi:
Cables entrance:
63-160 A: Ø 46 mm - **250-400 A**: 75 x 200 mm - **500-1600 A**: 364 x 175 mm.



ALIMENTAZIONE INTERMEDIA IP55 • CENTRE FEED UNIT IP55		
A	GDA 4	GDA 5
	Codice Code	Codice Code
63	GDA100024M	GDA200024M
100	GDA100024M	GDA200024M
160	GDA100024M	GDA200024M
250	GDA100024	GDA200024
400	GDA100024	GDA200024
500	GDA100025	GDA200025
630	GDA100025	GDA200025
800	GDA100025	GDA200025
1000	GDA100045	GDA200045
1250	GDA100055	GDA200055
1600	GDA100055	GDA200055

Foro passaggio cavi:
Cables entrance:
250-1000 A: 200 x 80 mm - **1250/1600 A**: 700 x 200 mm

ESC_INTERNO_nov2012.indd 33 17/12/12 15:30



PASSAMURO TAGLIAFIAMMA • FIRE BARRIER		
A	GDA 4	GDA 5
	Codice Code	Codice Code
63	GDA101006M	GDA201006M
100	GDA101006M	GDA201006M
160	GDA101006M	GDA201006M
250	GDA102006	GDA202006
400	GDA104006	GDA204006
500	GDA105006	GDA205006
630	GDA106006	GDA206006
800	GDA108006	GDA208006
1000	GDA110006	GDA210006
1250	GDA112006	GDA212006
1600	GDA116006	GDA216006

Il passamuro tagliafiamma di classe REI 120 (2 h) viene premontato su qualsiasi elemento rettilineo o angolo (da ordinare a parte) nella posizione indicata dal cliente.
It is possibile to set the fire barrier, REI 120 (2 h), in any straight element or elbow to be ordered separately. Always indicate where the fire barrier has to be placed.

CHIUSURA DI TESTATA • END CAP		
A	GDA 4	GDA 5
	Codice Code	Codice Code
63/160	GDA100027	GDA100027
160/400	GDA100028	GDA100028
500/1000	GDA100029	GDA100029
1250/1600	GDACT4	GDACT4

ELEMENTO TERMINALE QUADRO • SWICHBOARD FEED UNIT				
A	GDA 4		GDA 5	
	DX	SX	DX	SX
	Codice Code		Codice Code	
63	GDA100030M	GDA100032M	GDA200030M	GDA200032
100	GDA100030M	GDA100032M	GDA200030M	GDA200032
160	GDA100030M	GDA100032M	GDA200030M	GDA200032M
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
1250	GDA100061	GDA100063	GDA200061	GDA200063
1600	GDA100061	GDA100063	GDA200061	GDA200063

ESC_INTERNO_nov2012.indd 34 17/12/12 15:30

BLOCCASBARRE PER COLONNE MONTANTI • INTERNAL BUSBAR CLAMP		
A	GDA 4	GDA 5
	Codice Code	Codice Code
63	GDA104007M	GDA204007M
100	GDA104007M	GDA204007M
160	GDA104007M	GDA204007M
250	GDA104007	GDA204007
400	GDA104007	GDA204007
500	GDA106007	GDA208007
630	GDA108007	GDA208007
800	GDA108007	GDA208007
1000	GDA110007	GDA210007
1250	GDA160007	GDA160007
1600	GDA160007	GDA160007

Il bloccasbarre è fornito premontato su qualsiasi elemento rettilineo (da ordinare a parte) e va utilizzato in ogni percorso verticale, in ragione di un bloccasbarre ogni 12 m di linea, iniziando dal punto più basso.
The internal busbar clamp is inserted in a standard straight element (to be ordered separately) every 12 m of fine. Start to mount the element with internal busbar clamp from lower fine point.

STAFFA DI SOSTEGNO LINEE VERTICALI • HANGER FOR VERTICAL RISERS		
A	GDA 4	GDA 5
	Codice Code	Codice Code
63/160	GDA010002M	GDA010002M
250/400	GDA010002	GDA010002
500/1000	GDA010003	GDA010003
1250/1600	GDASSV4	GDASSV4

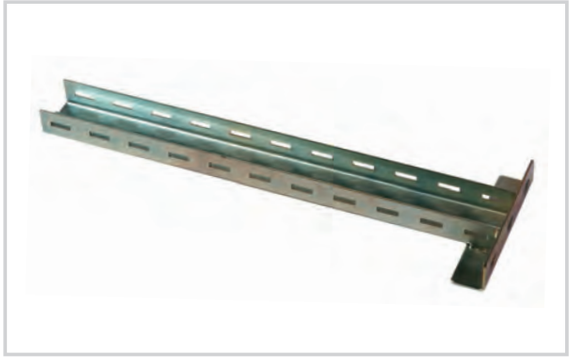
Una staffa di sostegno linee verticali deve essere installata in ogni colonna montante, in aggiunta alla staffe di sospensione e ogni 150 kg di linea.
One hanger for vertical risers must be foresees, in additional of universal fixing hangers, in each vertical riser and every 150 kg of busway.

GDA010000*

GDASS4

STAFFA DI SOSPENSIONE • FIXING HANGER			
A	GDA 4	GDA 5	INOX
	Codice Code	Codice Code	Codice Code
63/160	GDA010000	GDA010000	GDA01000X
250/1000	GDA010001	GDA010001	GDA01000X
1250/1600	GDASS4	GDASS4	GDASS4X

Utilizzare n. 2 staffe per elemento GDA.
Each GDA element need 2 fixing hangers.



MENSOLE PORTASTAFFE • BRACKET		
Lunghezza Lenght (mm)	GDA 4	GDA 5
	Codice Code	Codice Code
550	GDA010004	GDA010004
750	GDA010005	GDA010005

Le mensole possono essere usate sia a parete sia a soffitto.
The brackets can be used wall or ceiling side.

ESC_INTERNO_nov2012.indd 35 17/12/12 15:30

32 A

CASSETTA DI DERIVAZIONE 32 A CON PORTAFUSIBILI IP55
TAP OFF BOX 32 A WITH FUSE BASES IP55

Codice Code	GDA 4	GDA 5
	GDA400250	GDA400250
Materiale cassetta Tap off material	Plastica Plastic	Plastica Plastic
Materiale conduttore Conductor material	Cu + Ag	Cu + Ag
Sezione massima cavo Max cable sectlon	6 mm²	6 mm²
Foro ingresso cavi max Max. entrance cable	ø 22,5 mm	ø 22,5 mm
Base portafusibile Fuse base type	CF 10,3 x 38	CF 10,3 x 38

La cassetta può essere inserita su entrambi i lati di ogni elemento.
Tap off can be inserted on each side of every straight element.

63 A
125 A

CASSETTA DI DERIVAZIONE 63/125 A CON PORTAFUSIBILI IP55
TAP OFF BOX 63/125 A WITH FUSE BASES IP55

Codice Code	GDA 4 / GDA 5	GDA 4 / GDA 5
	GDA400630	GDA401250
Materiale cassetta Tap off material	Plastica Plastic	Plastica Plastic
Portata Rating	63 A	125 A
Materiale conduttore Conductor material	Cu + Ag	Cu + Ag
Sezione massima cavo Max cable sectlon	50 mm²	50 mm²
Foro ingresso cavi max Max. entrance cable	ø 48 mm	ø 48 mm
Base portafusibile Fuse base type	NHOO	NHOO
Esecuzione Execution	Sezionabile With off load	Sezionabile With off load

La cassetta può essere inserita su entrambi i lati di ogni elemento.
Tap off can be inserted on each side of every straight element.

160 A
250 A
400 A

CASSETTA DI DERIVAZIONE 160/250/400 A CON PORTAFUSIBILI IP55
TAP OFF BOX 160/250/400 A WITH FUSE BASES IP55

Codice Code	GDA 4 / GDA 5	GDA 4 / GDA 5	GDA 4 / GDA 5
	GDA401600	GDA402500	GDA404000
Materiale cassetta Tap off material	Metallo Steel	Metallo Steel	Metallo Steel
Portata Rating	160 A	250 A	400 A
Materiale conduttore Conductor material	Cu + Ag	Cu + Ag	Cu + Ag
Sezione massima cavo Max cable sectlon	70 mm²	150 mm²	185 mm²
Foro ingresso cavi max Max. entrance cable	180 x 50 mm	160 x 60 mm	160 x 60 mm
Base portafusibile Fuse base type	NHOO	NH1	NH2
Esecuzione Execution	Sezionabile With off load	Sezionabile With off load	Sezionabile With off load

La cassetta può essere inserita su entrambi i lati di ogni elemento.
Tap off can be inserted on each side of every straight element.

Fusibili non inclusi.
Fuses not included.

ESC_INTERNO_nov2012.indd 36 17/12/12 15:30

32 A

CASSETTA DI DERIVAZIONE 32 A PEN IP55 PEN TAP OFF BOX 32 A IP55		
Codice Code	GDA 4	GDA 5
	GDA400251	GDA400251
Materiale cassetta Tap off material	Plastica Plastic	Plastica Plastic
Materiale conduttore Conductor material	Cu + Ag	Cu + Ag
Sezione massima cavo Max cable section	6 mm²	6 mm²
Foro ingresso cavi max Max. entrance cable	ø 22,5 mm	ø 22,5 mm
Base portafusibile Fuse base type	CF 10,3 x 38	CF 10,3 x 38

La cassetta può essere inserita su entrambi i lati di ogni elemento.
Tap off can be inserted on each side of every straight element.

63 A
125 A

CASSETTA DI DERIVAZIONE 63/125 A PEN IP55 TAP OFF BOX 63/125 A PEN IP55		
Codice Code	GDA 4 / GDA 5	GDA 4 / GDA 5
	GDA400631	GDA401251
Materiale cassetta Tap off material	Plastica Plastic	Plastica Plastic
Portata Rating	63 A	125 A
Materiale conduttore Conductor material	Cu + Ag	Cu + Ag
Sezione massima cavo Max cable section	50 mm²	50 mm²
Foro ingresso cavi max Max. entrance cable	ø 48 mm	ø 48 mm
Base portafusibile Fuse base type	NHOO	NHOO
Esecuzione Execution	Sezionabile With off load	Sezionabile With off load

La cassetta può essere inserita su entrambi i lati di ogni elemento.
Tap off can be inserted on each side of every straight element.

160 A
250 A
400 A

CASSETTA DI DERIVAZIONE 160/250/400 A PEN IP55 TAP OFF BOX 160/250/400 A PEN IP55			
Codice Code	GDA 4 / GDA 5	GDA 4 / GDA 5	GDA 4 / GDA 5
	GDA401601	GDA402501	GDA404001
Materiale cassetta Tap off material	Metallo Steel	Metallo Steel	Metallo Steel
Portata Rating	160 A	250 A	400 A
Materiale conduttore Conductor material	Cu + Ag	Cu + Ag	Cu + Ag
Sezione massima cavo Max cable section	70 mm²	150 mm²	185 mm²
Foro ingresso cavi max Max. entrance cable	180 x 50 mm	160 x 60 mm	160 x 60 mm
Base portafusibile Fuse base type	NHOO	NH1	NH2
Esecuzione Execution	Sezionabile With off load	Sezionabile With off load	Sezionabile With off load

La cassetta può essere inserita su entrambi i lati di ogni elemento.
Tap off can be inserted on each side of every straight element.

Fusibili non inclusi.
Fuses not included.

ESC_INTERNO_nov2012.indd 37 17/12/12 15:30

32 A

CASSETTA DI DERIVAZIONE 32 A PREDISPOSTA PER INTERRUTTORE MODULARE
TAP OFF BOX 32 A PREFITTED FOR MCB

Codice Code	GDA 4	GDA 5
	GDA400252	GDA400252
Materiale cassetta Tap off material	Plastica Plastic	Plastica Plastic
Materiale conduttore Conductor material	Cu + Ag	Cu + Ag
Sezione massima cavo Max cable sectlon	6 mm²	6 mm²
Foro ingresso cavi max Max. entrance cable	ø 22,5 mm	ø 22,5 mm
N. moduli interruttore guida DIN MCB number of modules on DIN rail	8	8
Spazio interno disponibile (mm) Free inside space (mm)	185 x 45 x 60 (h)	185 x 45 x 60 (h)

La cassetta può essere inserita su entrambi i lati di ogni elemento.
Tap off can be inserted on each side of every straight element.

63 A
125 A

CASSETTE DI DERIVAZIONE 63/125 A IP55 PREDISPOSTA PER INTERRUTTORE MODULARE
TAP OFF BOX 63/125 A IP55 PREFITTED FOR MCB

Codice Code	GDA 4 / GDA 5	GDA 4 / GDA 5
	GDA400632	GDA401252
Materiale cassetta Tap off material	Plastica Plastic	Plastica Plastic
Portata Rating	63 A	125 A
Materiale conduttore Conductor material	Cu + Ag	Cu + Ag
Sezione massima cavo Max cable sectlon	50 mm²	50 mm²
Foro ingresso cavi max Max. entrance cable	ø 48 mm	ø 48 mm
N. moduli interruttore guida DIN MCB number of modules on DIN rail	8	8
Spazio interno disponibile (mm) Free inside space (mm)	185 x 168 x 88 (h)	185 x 168 x 88 (h)

La cassetta può essere inserita su entrambi i lati di ogni elemento.
Tap off can be inserted on each side of every straight element.

160 A
250 A
400 A

CASSETTE DI DERIVAZIONE 160/250/400 A IP55 PREDISPOSTA PER INTERRUTTORE MODULARE
TAP OFF BOX 160/250/400 A IP55 PREFITTED FOR MCB

Codice Code	GDA 4 / GDA 5	GDA 4 / GDA 5	GDA 4 / GDA 5
	GDA401602	GDA402502	GDA404002
Materiale cassetta Tap off material	Metallo Steel	Metallo Steel	Metallo Steel
Portata Rating	160 A	250 A	400 A
Materiale conduttore Conductor material	Cu + Ag	Cu + Ag	Cu + Ag
Sezione massima cavo Max cable sectlon	70 mm²	150 mm²	185 mm²
Foro ingresso cavi max Max. entrance cable	180 x 50 mm	160 x 60 mm	160 x 60 mm
N. moduli interruttore guida DIN MCB number of modules on DIN rail	8	12	12+12
Spazio interno disponibile (mm) Free inside space (mm)	218 x 220 x 120 (h)	268 x 405 x 125 (h)	297 x 515 x 198 (h)

La cassetta può essere inserita su entrambi i lati di ogni elemento.
Tap off can be inserted on each side of every straight element.

Interruttori non inclusi.
MCB not included.

ESC_INTERNO_nov2012.indd 38 17/12/12 15:30

32 A

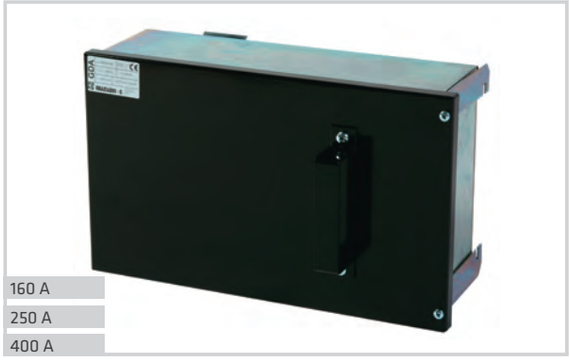
CASSETTA DI DERIVAZIONE 32 A VUOTA IP55 TAP OFF BOX 32 A EMPTY IP55		
Codice Code	GDA 4	GDA 5
	GDA400253	GDA400253
Materiale cassetta Tap off material	Plastica Plastic	Plastica Plastic
Materiale conduttore Conductor material	Cu + Ag	Cu + Ag
Sezione massima cavo Max cable section	6 mm²	6 mm²
Foro ingresso cavi max Max. entrance cable	ø 22,5 mm	ø 22,5 mm
Spazio interno disponibile (mm) Free inside space (mm)	185 x 45 x 60 (h)	185 x 45 x 60 (h)

La cassetta può essere inserita su entrambi i lati di ogni elemento.
Tap off can be inserted on each side of every straight element.

63 A
125 A

CASSETTA DI DERIVAZIONE 63/125 A VUOTA IP55 TAP OFF BOX 63/125 A EMPTY IP55		
Codice Code	GDA 4 / GDA 5	GDA 4 / GDA 5
	GDA400633	GDA401253
Materiale cassetta Tap off material	Plastica Plastic	Plastica Plastic
Portata Rating	63 A	125 A
Materiale conduttore Conductor material	Cu + Ag	Cu + Ag
Sezione massima cavo Max cable section	50 mm²	50 mm²
Foro ingresso cavi max Max. entrance cable	ø 48 mm	ø 48 mm
Spazio interno disponibile (mm) Free inside space (mm)	185 x 168 x 88 (h)	185 x 168 x 88 (h)
Esecuzione Execution	Sezionabile With off load	Sezionabile With off load

La cassetta può essere inserita su entrambi i lati di ogni elemento.
Tap off can be inserted on each side of every straight element.



160 A
250 A
400 A

CASSETTA DI DERIVAZIONE 160/250/400 A VUOTA IP55 TAP OFF BOX 160/250/400 A EMPTY IP55			
Codice Code	GDA 4 / GDA 5	GDA 4 / GDA 5	GDA 4 / GDA 5
	GDA401603	GDA402503	GDA404003
Materiale cassetta Tap off material	Metallo Steel	Metallo Steel	Metallo Steel
Portata Rating	160 A	250 A	400 A
Materiale conduttore Conductor material	Cu + Ag	Cu + Ag	Cu + Ag
Sezione massima cavo Max cable section	70 mm²	150 mm²	185 mm²
Foro ingresso cavi max Max. entrance cable	180 x 50 mm	160 x 60 mm	160 x 60 mm
Spazio interno disponibile (mm) Free inside space (mm)	218 x 220 x 115 (h)	268 x 405 x 115 (h)	297 x 515 x 198 (h)
Esecuzione Execution	Sezionabile With off load	Sezionabile With off load	Sezionabile With off load

La cassetta può essere inserita su entrambi i lati di ogni elemento.
Tap off can be inserted on each side of every straight element.

Ideali per inserimento interruttori scatolati. A richiesta disponibili piastre per fissaggio interruttori.
Best choice to fit MCCB. On request available plates to fix MCCB.

ESC_INTERNO_nov2012.indd 39 17/12/12 15:30

630 A
800 A
1000 A

CASSETTA DI DERIVAZIONE 630/800/1000 A CON SEZIONATORE PORTAFUSIBILI TAP OFF BOX 630/800/1000 A WITH FUSED SWITCH IP55			
Codice Code	GDA 4 / GDA 5	GDA 4 / GDA 5	GDA 4 / GDA 5
	GDA406300	GDA408000	GDA410000
Materiale cassetta Tap off material	Metallo Steel	Metallo Steel	Metallo Steel
Portata Rating	630 A	800 A	1000 A
Materiale conduttore Conductor material	Cu + Ag	Cu + Ag	Cu + Ag
Tipo Type	Imbullonata sul giunto Joint bolted	Imbullonata sul giunto Joint bolted	Imbullonata sul giunto Joint bolted
Dimensioni Dimensions	600 x 1000 x 400 (h) mm	600 x 1000 x 400 (h) mm	600 x 1000 x 400 (h) mm
Base portafusibile Fuse-base type	NH3	NH3	NH4
Esecuzione Execution	Sezionabile With off load	Sezionabile With off load	Sezionabile With off load

A richiesta sono disponibili cassette di derivazione fisse fino a 1250 A.
Tap off boxes bolted up to 1250 A available on request.

630 A
800 A
1000 A

CASSETTA DI DERIVAZIONE 630/800/1000 A PEN IP55 TAP OFF BOX 630/800/1000 A PEN IP55			
Codice Code	GDA 4 / GDA 5	GDA 4 / GDA 5	GDA 4 / GDA 5
	GDA406301	GDA408001	GDA410001
Materiale cassetta Tap off material	Metallo Steel	Metallo Steel	Metallo Steel
Portata Rating	630 A	800 A	1000 A
Materiale conduttore Conductor material	Cu + Ag	Cu + Ag	Cu + Ag
Tipo Type	Imbullonata sul giunto Joint bolted	Imbullonata sul giunto Joint bolted	Imbullonata sul giunto Joint bolted
Dimensioni Dimensions	600 x 1000 x 400 (h) mm	600 x 1000 x 400 (h) mm	600 x 1000 x 400 (h) mm
Base portafusibile Fuse-base type	NH3	NH3	NH4
Esecuzione Execution	Sezionabile With off load	Sezionabile With off load	Sezionabile With off load

A richiesta sono disponibili cassette di derivazione fisse fino a 1250 A.
Tap off boxes bolted up to 1250 A available on request.

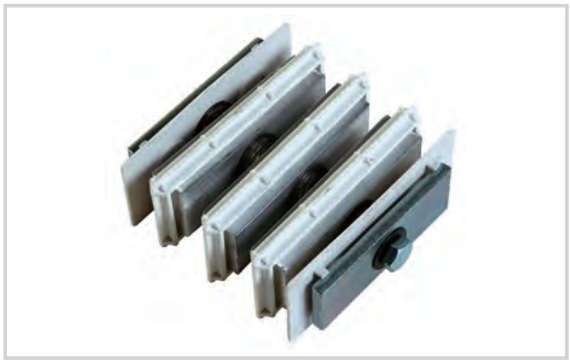
630 A
800 A
1000 A

CASSETTA DI DERIVAZIONE 630/800/1000 A VUOTA TAP OFF BOX 630/800/1000 A EMPTY IP55			
Codice Code	GDA 4 / GDA 5	GDA 4 / GDA 5	GDA 4 / GDA 5
	GDA406303	GDA408003	GDA410003
Materiale cassetta Tap off material	Metallo Steel	Metallo Steel	Metallo Steel
Portata Rating	630 A	800 A	1000 A
Materiale conduttore Conductor material	Cu + Ag	Cu + Ag	Cu + Ag
Tipo Type	Imbullonata sul giunto Joint bolted	Imbullonata sul giunto Joint bolted	Imbullonata sul giunto Joint bolted
Dimensioni Dimensions	600 x 1000 x 400 (h) mm	600 x 1000 x 400 (h) mm	600 x 1000 x 400 (h) mm

A richiesta sono disponibili cassette di derivazione fisse fino a 1250 A.
Tap off boxes bolted up to 1250 A available on request.

Cassette da inserire con linee non in tensione. In caso di ordine di cassetta di ricambio indicare su quale linea andrà montata.
Tap off boxes to install with lines off. In case of order of spare tap off indicate the line where will be mounted.

ESC_INTERNO_nov2012.indd 40 17/12/12 15:30



GIUNZIONE MONOBULLONE • ONE-BOLT JOINT		
A	GDA 4 Codice Code	GDA 5 Codice Code
63/160	GDA7514	GDA5G02
250/400	GDA6014	GDA6135
500/1000	GDA6015	GDA6136
1250/1600	GDA4G16	GDA5G16
COPRIGIUNTO IP50 • COVER JOINT IP50		
A	GDA 4 Codice Code	GDA 5 Codice Code
63/160	GDA7510	GDA7510
250/400	GDA6110	GDA6110
500/1000	GDA6111	GDA6111
1250/1600	GDACOG116	GDACOG116

Giunto e coprigiunto IP50 sono inclusi in tutti gli elementi rettilinei e in ogni angolo.
Sono fornibili come ricambi (vedere tabella).
Joint and cover joint IP50 are included with each straight elements and with each elbow.
For the spare part see the table.

PROLUNGA PER CHIAVE DINAMOMETRICA (COPPIE SERRAGGIO) EXTENSION TOOL (TORQUE)			
A	Codice Code	Senza prolunga Without extension tool	Con prolunga With extension tool
63/160	GDA6199	15 Nm	10 Nm
250/400	GDA6129	30 Nm	17 Nm
500/1000	GDA6129	40 Nm	22 Nm
1250/1600	GDA6129	55 Nm	32 Nm

IP55

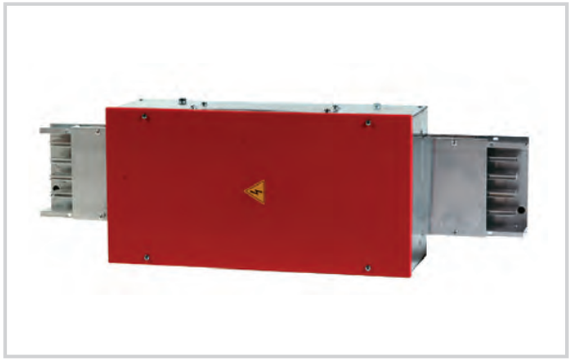
(a)

(b)

(c)

ACCESSORI PER IP55 • IP55 ACCESSORIES			
	A	GDA 4 Codice Code	GDA 5 Codice Code
Otturatore adesivo per derivazione (a) Sticky plug outlet cover (a)	63/1600	GDA500002	GDA500002
Otturatore rigido per derivazione (b) Rigid plug outlet cover (b)	63/160	GDA500003M	GDA500003M
	250/1000	GDA500003	GDA500003
Coprigiunto IP55 (c) IP55 joint cover (c)	63/160	GDA500000	GDA500000
	250/400	GDA500004	GDA500004
	500/1000	GDA500005	GDA500005
	1250/1600	GDA500006	GDA500006

(a) e (b) sono alternativi tra loro, ne necessita 1 per ogni punto di derivazione.
(a) and (b) are alternatives. It is necessary 1 for every plug-in point.



RIDUTTORE DI PORTATA • REDUCTION UNIT - L=1 M		
A	GDA 4 Codice Code	GDA 5 Codice Code
63/1600	GDARED★/♦	GDARED★/♦

★ = indicare portata da ridurre
indicate current to be reduced

♦ = indicare portata ridotta
indicate current reduced

Esempio
Example = GDARED 800/400

I riduttori di portata secondo le norme CEI 64/8 sono quotati e realizzati su richiesta.
Reduction unit as CEI 64/8 are made on request.

ESC_INTERNO_nov2012.indd 41 17/12/12 15:30

GDR
100-2500 A

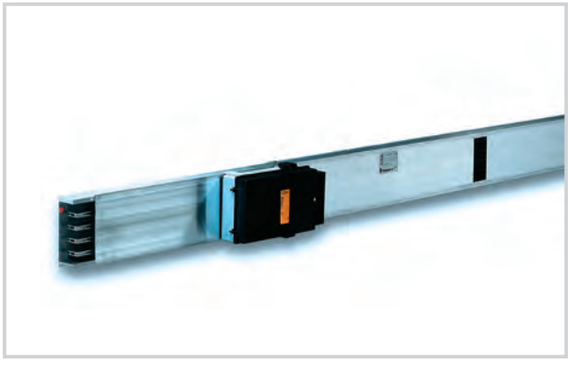
CARATTERISTICHE • FEATURES

- Involucro esterno in alluminio
- Conduttori in rame ETP 99.9
- Grado di protezione da IP50 a IP55
- Sezione del Neutro sempre pari alla fase
- GDR 4: conduttore di protezione PE involucro con sezione sempre superiore alla fase
- GDR 5: conduttore di protezione PE dedicato

- Aluminium housing
- Copper ccnductors ETP 99.9
- Protection degree from IP50 to IP55
- Neutral section always like the phase section
- GDR 4: PE housing with section always bigger than phase section
- GDR 5: PE dedicated conductor

CONDUTTORI • CONDUCTORS

	Materiale Material	Codice Code
Standard	Rame • Copper (cu etp 99,9)	-
In opzione As option	Rame stagnato • Tinned Copper (Cu + Sn)	STAGN
	Rame argentato • Silvered copper (Cu+Ag)	ARG



ELEMENTI RETTILINEI • STRAIGHT ELEMENTS

A	GDR 4		GDR 5		
	Codice Code	Kg/m	Codice Code	Kg/m	N° derivazioni Tap off points
100	GDR10000*	4,0	GDR20000*	4,3	4+0
160	GDR10100*M	4,4	GDR20100*M	4,7	4+0
250	GDR10200*	6,3	GDR20200*	6,7	4+0
400	GDR10400*	11,4	GDR20400*	11,7	4+4
630	GDR10600*	14,8	GDR20600*	15,1	4+4
800	GDR10800*	17,3	GDR20800*	17,6	4+4
1250	GDR11200*	24,8	GDR21200*	25,4	4+4
1600	GDR11600*	28,4	GDR21600*	29,0	4+4
2000	GDR12000*	40,9	GDR12000*	41,7	3+0
2500	GDR12500*	48,0	GDR12500*	48,9	3+0

* = 0 = 4m (2000-2500 A = 3m)
1 = 0,5-1,90 m
2 = 1,91-4 m (2000-2500 A = 1,91-3m)

ANGOLI ORIZZONTALI • HORIZONTAL ELBOWS

A	GDR 4		GDR 5	
	DX	SX	DX	SX
	Codice Code		Codice Code	
100	GDR100102M	GDR100101M	GDR200102M	GDR200101M
160	GDR100102M	GDR100101M	GDR200102M	GDR200101M
250	GDR100102M	GDR100101M	GDR200102M	GDR200101M
400	GDR100102	GDR100101	GDR200102	GDR200101
630	GDR100106	GDR100105	GDR200106	GDR200105
800	GDR100106	GDR100105	GDR200106	GDR200105
1250	GDR100116	GDR100115	GDR200116	GDR200115
1600	GDR100116	GDR100115	GDR200116	GDR200115
2000	GDR120116	GDR120115	GDR220116	GDR220115
2500	GDR120116	GDR120115	GDR220116	GDR220115

Il giunto è sempre incluso in ogni elemento.
The joint is always included in each element.

ALIMENTAZIONE DI TESTATA IP55 • END FEED UNIT IP55

A	GDR 4		GDR 5	
	DX	SX	DX	SX
	Codice Code		Codice Code	
100	GDR100021M	GDR100020M	GDR200021M	GDR200020M
160	GDR100021M	GDR100020M	GDR200021M	GDR200020M
250	GDR100021M	GDR100020M	GDR200021M	GDR200020M
400	GDR100021	GDR100020	GDR200021	GDR200020
630	GDR100023	GDR100022	GDR200023	GDR200022
800	GDR100023	GDR100022	GDR200023	GDR200022
1250	GDR100043	GDR100042	GDR200043	GDR200042
1600	GDR100043	GDR100042	GDR200043	GDR200042
2000	GDR120043	GDR120042	GDR220043	GDR220042
2500	GDR120043	GDR120042	GDR220043	GDR220042

Foro passaggio cavi:
Cables entrance:
100-250A: 55x200 mm - **400-800 A**: 75x200 mm - **1250-2500 A**: 364-175 mm

ESC_INTERNO_nov2012.indd 42 17/12/12 15:30

ELEMENTI A "T" • "T" ELEMENTS				
A	GDR 4		GDR 5	
	DX	SX	DX	SX
	Codice Code		Codice Code	
100-160	GDR100111M	GDR100109M	GDR200111M	GDR200109M
250	GDR100111M	GDR100109M	GDR200111M	GDR200109M
400	GDR100111	GDR100109	GDR200111	GDR200109
630	GDR100112	GDR100110	GDR200112	GDR200110
800	GDR100112	GDR100110	GDR200112	GDR200110
1250	GDR116122	GDR116120	GDR216122	GDR216120
1600	GDR116122	GDR116120	GDR216122	GDR216120
2000	GDR120122	GDR120120	GDR220122	GDR220120
2500	GDR120122	GDR120120	GDR220122	GDR220120

In ogni elemento a "T" sono inclusi 2 giunti.
In every "T" elbow are included 2 joint.

ELEMENTO TERMINALE QUADRO • SWITCHBOARD FEED UNIT				
A	GDR 4		GDR 5	
	DX	SX	DX	SX
	Codice Code		Codice Code	
100	GDR100030M	GDR100032M	GDR200030M	GDR200032M
160	GDR100030M	GDR100032M	GDR200030M	GDR200032M
250	GDR100030M	GDR100032M	GDR200030M	GDR200032M
400	GDR100030	GDR100032	GDR200030	GDR200032
630	GDR100031	GDR100033	GDR200031	GDR200033
800	GDR100031	GDR100033	GDR200031	GDR200033
1250	GDR100051	GDR100053	GDR200051	GDR200053
1600	GDR100051	GDR100053	GDR200051	GDR200053
2000	GDR100061	GDR100063	GDR200061	GDR200063
2500	GDR100061	GDR100063	GDR200061	GDR200063

GDR = GDA

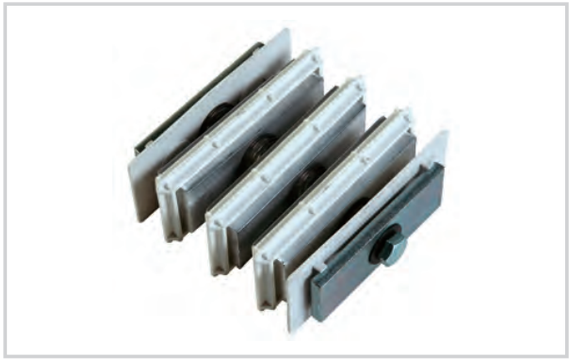
CARATTERISTICHE • FEATURES

- Passamuro tagliafiamma
- Chiusura di testata
- Bloccasbarre per colonne montanti
- Staffa di sostegno linee verticali
- Staffa di sospensione
- Mensole porta staffe
- Cassette di derivazione
- Accessori IP55

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

PER IDENTIFICARE IL CODICE USARE IL CODICE "GDA" SCRIVENDO "GDR"
FOR THE CODES USE "GDA" CODE WRITING "GDR"

GDAxxxx → GDRxxxx
GDA 63/250 A = GDR 100/250 A
GDA 400/800 A = GDR 400/800 A
GDA 500/1000 A = GDR 1250/1600 A
GDA 1250/1600 A = GDR 2000/2500 A



GIUNZIONE MONOBULLONE • ONE-BOLT JOINT		
A	GDR 4	GDR 5
	Codice Code	Codice Code
100/250	GDR7514	GDR5G02
400/800	GDR6014	GDR6135
1250/1600	GDR6015	GDR6136
2000/2500	GDR4G16	GDR5G16

ESC_INTERNO_nov2012.indd 43 17/12/12 15:30

Dichiarazione di conformità
Conformity declaration
GDA

L'elettrocondotto GDA descritto in questa pubblicazione è conforme alle seguenti norme:

GDA busbar described in this publication complies with the following standards:

IEC60439-1
IEC60439-2
IEC60529
CEI EN50102
CEI EN60439-1
CEI EN60439-2
CEI EN60529

Ready for IEC61439

Prove di tipo
Type test

Tenuta al corto circuito	Short-circuit resistance
Grado di protezione degli involucri (codice IP)	Casing degree of protection (IP code)
Resistenza di isolamento	Insulation resistance
Limite di sovratemperatura	Overheating limit
Tenuta alla tensione applicata	Applied voltage resistance
Resistenza ai carichi normali	Resistance to normal loads
Efficienza del circuito di protezione	Protective circuit efficiency
Distanze in aria e superficiali	Air and surface distances
Grado di protezione degli involucri (codice IK)	Casing degree of protection (IK code)

Il prodotto oggetto di questa dichiarazione ha superato le prove sopra specificate e pertanto il materiale è ammesso alla marcatura:
The product object of this declaration exceeds the test types above mentionned and therefore this material is marked:

CE

Rivoli, 07/01/2005
GRAZIADIO & C. S.p.A.

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Per ottenere una copia delle nostre certificazioni:
To receive a copy of our certifications:

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ESC_INTERNO_nov2012.indd 44 17/12/12 15:30

Dichiarazione di conformità
Conformity declaration
GDR

L'elettrocondotto GDR descritto in questa pubblicazione è conforme alle seguenti norme:

GDR busbar described in this publication complies with the following standards:

IEC60439-1
IEC60439-2
IEC60529
CEI EN50102
CEI EN60439-1
CEI EN60439-2
CEI EN60529

Ready for IEC61439

Prove di tipo
Type test

Tenuta al corto circuito	Short-circuit resistance
Grado di protezione degli involucri (codice IP)	Casing degree of protection (IP code)
Resistenza di isolamento	Insulation resistance
Limite di sovratemperatura	Overheating limit
Tenuta alla tensione applicata	Applied voltage resistance
Resistenza ai carichi normali	Resistance to normal loads
Efficienza del circuito di protezione	Protective circuit efficiency
Distanze in aria e superficiali	Air and surface distances
Grado di protezione degli involucri (codice IK)	Casing degree of protection (IK code)

Il prodotto oggetto di questa dichiarazione ha superato le prove sopra specificate e pertanto il materiale è ammesso alla marcatura:
The product object of this declaration exceeds the test types above mentionned and therefore this material is marked:

CE

Rivoli, 07/01/2005
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ESC_INTERNO_nov2012.indd 45 17/12/12 15:30

CARATTERISTICHE TECNICHE GDA
GDA TECHNICAL DATA

Corrente nominale Nominal current	I_n	[A]	63	100	160	250	400	500	630	800	1000	1250	1600
Tensione nominale Nominal voltage	U_e	[V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Tensione d'isolamento Insulation voltage	U_i	[V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Frequenza Frequency	f	[Hz]	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60
Sezione di conduttori di fase Cross section phases	S_f	[mm²]	25	35	56	116	281	380	500	600	700	1000	1178
Sezione del conduttore di neutro Cross section neutral	S_n	[mm²]	25	35	56	116	281	380	500	600	700	1000	1178
Sezione PE (involucro in alluminio) Cross section of protective conductor (housing)	S_{PE}	[mm²]	943	943	943	1083	1083	1232	1232	1232	1232	1780	1780
Sezione PE dedicato Cross section of heart bar (5th bar)	S_{PE}	[mm²]	60	60	60	120	120	210	210	210	210	360	360
Tenuta al Corto circuito di breve durata, trifase per 1_s Rated short circuit time current (1_s)	I_{cw}	[kA]	5	5	5	13	27	29	33	35	40	42	50
Tenuta al Corto circuito, trifase Peake current	I_{pk}	[kA]	10,5	10,5	10,5	26	57	61	70	77	84	92	110
Tenuta al Corto circuito di breve durata, fase neutro per 1_s Rated short circuits time of neutral (1_s)	I_{cw}	[kA]	3	3	3	8,5	17	20	22	22	22	25	33
Tenuta al Corto circuito di picco, fase-neutro Peak current of neutral bar	I_{pk}	[kA]	6,3	6,3	6,3	17	34	40	46	46	46	55	67
Tenuta al Corto circuito di breve durata, fase per 1_s Rated short circuit time of protective circuit (1_s)	I_{cw}	[kA]	3	3	3	8,5	17	20	22	22	22	24	33
Tenuta al corto circuito di picco, fase PE Peak current of protective circuit	I_{pk}	[kA]	6,3	6,3	6,3	17	34	40	46	46	46	50	67
Resistenza di fase (T =20°C) Phase resistance (T=20°C)	R_{20}	[mΩ/m]	1,284	0,917	0,573	0,261	0,112	0,072	0,065	0,052	0,048	0,030	0,026
Reattanza di fase Phase reactance	X	[mΩ/m]	0,093	0,093	0,093	0,135	0,093	0,059	0,063	0,062	0,059	0,0428	0,0428
Impedenza di fase (T =20°C) Phase reactance (T=20°C)	Z_{20}	[mΩ/m]	1,287	0,922	0,581	0,356	0,170	0,110	0,107	0,091	0,084	0,053	0,0578
Resistenza di neutro Neutral resistance	R_N	[mΩ/m]	1,284	0,917	0,573	0,261	0,112	0,072	0,065	0,052	0,048	0,030	0,026
Reattanza di neutro Neutral reactance	X_N	[mΩ/m]	0,093	0,093	0,093	0,135	0,093	0,059	0,063	0,062	0,059	0,0428	0,0428
Impedenza di neutro Neutral impedace	Z_N	[mΩ/m]	1,281	0,922	0,581	0,356	0,170	0,110	0,107	0,091	0,077	0,053	0,0578
Resistenza di PE (involucro) Protective conductor resistance	R_{PE}	[mΩ/m]	0,037	0,037	0,037	0,032	0,032	0,028	0,028	0,028	0,028	0,0169	0,0169
Reattanza di PE (involucro) Protective conductor reactance	X_{PE}	[mΩ/m]	0,115	0,115	0,115	0,102	0,102	0,087	0,087	0,087	0,087	0,006	0,006
Impedenza di PE (involucro) Protective conductor impedance	Z_{PE}	[mΩ/m]	0,121	0,121	0,121	0,107	0,107	0,091	0,091	0,091	0,091	0,018	0,018
Resistenza di guasto fase PE (involucro) Resistance of the fault loop	R_0	[mΩ/m]	1,321	0,954	0,610	0,395	0,203	0,195	0,178	0,176	0,174	0,025	0,0207
Reattanza di guasto fase PE (involucro) Reactance of the fault loop	X_0	[mΩ/m]	0,208	0,208	0,208	0,117	0,116	0,112	0,108	0,103	0,098	0,049	0,049
Impedenza di guasto fase PE (involucro) Impedance of the fault loop	Z_0	[mΩ/m]	1,338	0,976	0,644	0,412	0,234	0,224	0,208	0,204	0,200	0,055	0,0532
Grado di protezione IP Degree of protection IP		IP	50/55	50/55	50/55	50/55	50/55	50/55	50/55	50/55	50/55	50/55	50/55
Perdite per effetto Joule a I_n Losses for the Joule effect at nominal current	P_j	[W/m]	15,3	27,5	44	48,94	53,76	54,00	77,40	99,20	144,0	140,6	199,7
Potere calorico Calorific power		kj/m	2974	2974	2974	2974	2974	3353	3353	3353	3353	3411	3411

CADUTA DI TENSIONE PER CARICO DISTRIBUITO • VOLTAGE DROP WITH DISTRIBUTED LOAD [ΔV]

		[A]	63	100	160	250	400	500	630	800	1000	1250	1600
Cosφ = 0,7		[mV/m]	56,78	65,85	68,95	60,36	50,11	40,02	49,31	55,67	65,33	55,8	71,5
Cosφ = 0,8		[mV/m]	52,39	61,03	64,48	62,67	50,32	40,22	48,94	54,35	63,67	53,8	68,8
Cosφ = 0,9		[mV/m]	47,46	55,61	59,38	63,52	48,91	39,15	46,84	50,88	59,46	49,4	63,3
Cosφ = 1,0		[mV/m]	42,07	49,63	53,68	56,44	38,75	31,14	35,42	35,75	41,41	32,5	41,6

CADUTA DI TENSIONE PER CARICO CONCENTRATO A FONDO LINEA • VOLTAGE DROP WITH CONCENTRATED END LINE LOAD [ΔV]

$$[\Delta V] = \sqrt{3}\, I_n\, (R_{\theta 1} \cos\varphi + x \operatorname{sen}\varphi)\ [mV/m]$$

COEFFICIENTE K DI CORREZIONE TERMICA PER CALCOLARE LA CORRENTE NOMINALE AMMISSIBILE Iz IN FUNZIONE DELLA TEMPERATURA AMBIENTE MEDIA NELLE 24 ORE • SCHEDULE OF RATINGS FOR THE AMBIENT TEMPERATURE IN AVERAGE 24H

	10° C	15° C	20° C	18° C	25° C	30° C	35° C	43° C	50° C	55° C
K	1,20	1,19	1,17	1,18	1,14	1,10	1,06	1	0,90	0,64

ESC_INTERNO_nov2012.indd 46 17/12/12 15:30

CARATTERISTICHE TECNICHE GDR
GDR TECHNICAL DATA

Corrente nominale Nominal current	I_n	[A]	100	160	250	400	630	800	1250	1600	2000	2500
Tensione nominale Nominal voltage	U_e	[V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Tensione d'isolamento Insulation voltage	U_i	[V]	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Frequenza Frequency	f	[Hz]	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60	50-60
Sezione di conduttori di fase Cross section phases	S_f	[mm²]	35	48	100	200	300	400	600	700	1000	1200
Sezione del conduttore di neutro Cross section neutral	S_n	[mm²]	35	48	100	200	300	400	600	700	1000	1200
Sezione PE (involucro in alluminio) Cross section of protective conductor (housing)	S_{PE}	[mm²]	943	943	943	1083	1083	1083	1232	1232	1780	1780
Sezione PE dedicato Cross section of heart bar (5th bar)	S_{PE}	[mm²]	60	60	60	120	120	120	210	210	360	360
Tenuta al Corto circuito di breve durata, trifase per 1_s Rated short circuit time current (1_s)	I_{cw}	[kA]	7	7	15	42	54	54	55	56	58	60
Tenuta al Corto circuito, trifase Peake current	I_{pk}	[kA]	15	15	31,5	56	72	77	80	81	112	126
Tenuta al Corto circuito di breve durata, fase neutro per 1_s Rated short circuits time of neutral (1_s)	I_{cw}	[kA]	4,5	4,5	8,5	17	22	22	22	32	38,6	40
Tenuta al Corto circuito di picco, fase-neutro Peak current of neutral bar	I_{pk}	[kA]	9,5	9,5	17	34	46	46	46	70	77	84
Tenuta al Corto circuito di breve durata, fase per 1_s Rated short circuit time of protective circuit (1_s)	I_{cw}	[kA]	4,5	4,5	8,5	17	22	22	22	40	40	40
Tenuta al corto circuito di picco, fase PE Peak current of protective circuit	I_{pk}	[kA]	9,5	9,5	17	34	46	46	46	84	84	84
Resistenza di fase (T =20°C) Phase resistance (T=20°C)	R_{20}	[mΩ/m]	0,510	0,372	0,179	0,087	0,052	0,043	0,028	0,024	0,0175	0,0145
Reattanza di fase Phase reactance	X	[mΩ/m]	0,098	0,098	0,098	0,064	0,063	0,062	0,059	0,059	0,0428	0,0428
Impedenza di fase (T =20°C) Phase reactance (T=20°C)	Z_{20}	[mΩ/m]	0,519	0,385	0,204	0,108	0,082	0,075	0,065	0,064	0,0462	0,045
Resistenza di neutro Neutral resistance	R_N	[mΩ/m]	0,510	0,372	0,179	0,087	0,052	0,043	0,028	0,024	0,0175	0,0145
Reattanza di neutro Neutral reactance	X_N	[mΩ/m]	0,098	0,098	0,098	0,064	0,063	0,062	0,059	0,059	0,0428	0,0428
Impedenza di neutro Neutral impedace	Z_N	[mΩ/m]	0,519	0,385	0,204	0,108	0,082	0,075	0,065	0,064	0,0462	0,045
Resistenza di PE (involucro) Protective conductor resistance	R_{PE}	[mΩ/m]	0,037	0,037	0,037	0,032	0,032	0,032	0,028	0,028	0,0169	0,0169
Reattanza di PE (involucro) Protective conductor reactance	X_{PE}	[mΩ/m]	0,115	0,115	0,115	0,102	0,102	0,102	0,087	0,087	0,006	0,006
Impedenza di PE (involucro) Protective conductor impedance	Z_{PE}	[mΩ/m]	0,121	0,121	0,121	0,107	0,107	0,107	0,091	0,091	0,018	0,018
Resistenza di guasto fase PE (involucro) Resistance of the fault loop	R_0	[mΩ/m]	0,547	0,409	0,216	0,119	0,084	0,075	0,059	0,056	0,034	0,031
Reattanza di guasto fase PE (involucro) Reactance of the fault loop	X_0	[mΩ/m]	0,213	0,213	0,213	0,166	0,165	0,164	0,152	0,146	0,049	0,049
Impedenza di guasto fase PE (involucro) Impedance of the fault loop	Z_0	[mΩ/m]	0,587	0,461	0,303	0,204	0,185	0,180	0,162	0,156	0,060	0,058
Grado di protezione IP Degree of protection IP		IP	50/55	50/55	50/55	50/55	50/55	50/55	50/55	50/55	50/55	50/55
Perdite per effetto Joule a I_n Losses for the Joule effect at nominal current	P_j	[W/m]	15,3	28,6	33,6	48,3	71,4	96,0	145,3	215,0	243,0	314,6
Potere calorico Calorific power		kj/m	2974	2974	2974	2974	2974	3353	3353	3411	3411	3411

CADUTA DI TENSIONE PER CARICO DISTRIBUITO • VOLTAGE DROP WITH DISTRIBUTED LOAD [ΔV]

		[A]	100	160	250	400	630	800	1250	1600	2000	2500
Cosφ = 0,7		[mV/m]	37,20	48,12	43,26	40,3	47,5	54,8	74,8	85,3	77,5	91,6
Cosφ = 0,8		[mV/m]	36,82	45,60	42,17	41,2	46,9	53,4	70,3	79,8	72,5	84,7
Cosφ = 0,9		[mV/m]	34,06	42,63	40,66	41,1	44,5	49,8	62,2	70,3	63,9	73,1
Cosφ = 1,0		[mV/m]	30,97	39,23	38,75	34,9	32,8	34,5	35,1	38,5	35,1	36,3

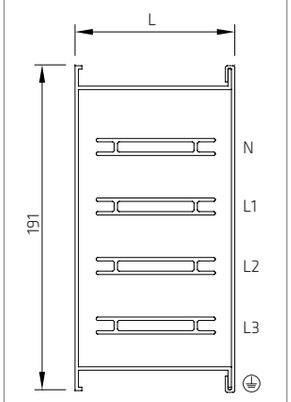
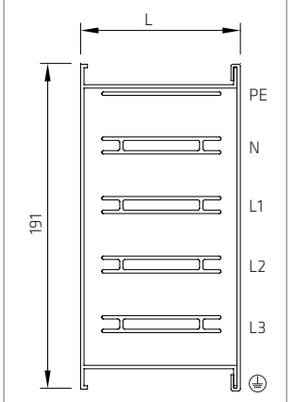
CADUTA DI TENSIONE PER CARICO CONCENTRATO A FONDO LINEA • VOLTAGE DROP WITH CONCENTRATED END LINE LOAD [ΔV]

$[\Delta V] = \sqrt{3}\, I_n\, (R_{\theta_1} \cos\varphi + x \operatorname{sen}\varphi)$ [mV/m]

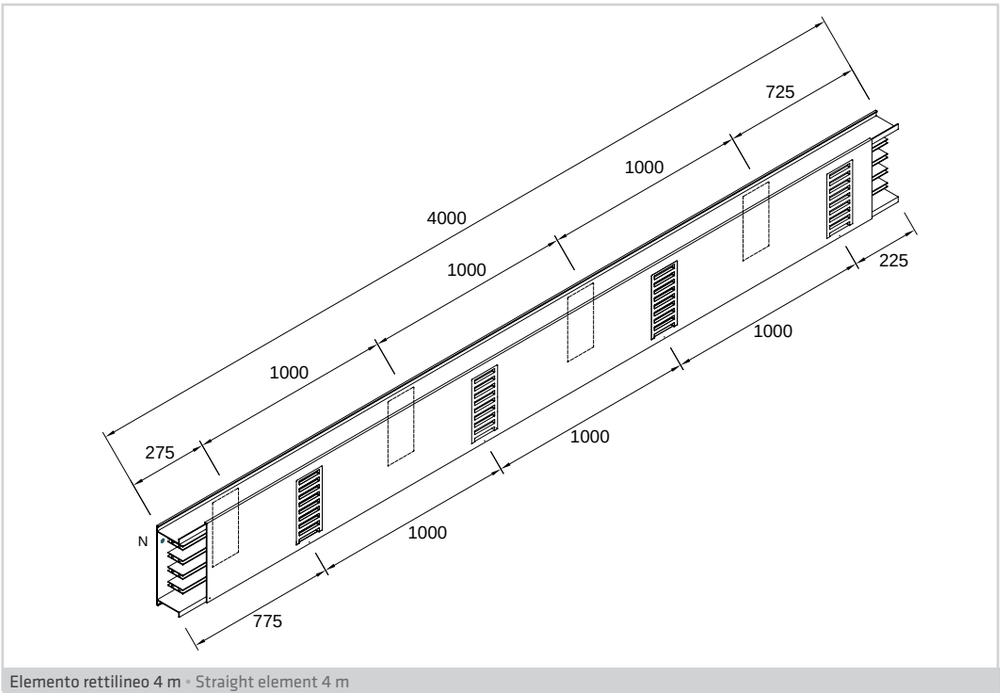
COEFFICIENTE K DI CORREZIONE TERMICA PER CALCOLARE LA CORRENTE NOMINALE AMMISSIBILE Iz IN FUNZIONE DELLA TEMPERATURA AMBIENTE MEDIA NELLE 24 ORE • SCHEDULE OF RATINGS FOR THE AMBIENT TEMPERATURE IN AVERAGE 24H

	10° C	15° C	20° C	18° C	25° C	30° C	35° C	43° C	50° C	55° C
K	1,20	1,19	1,17	1,18	1,14	1,10	1,06	1	0,90	0,64

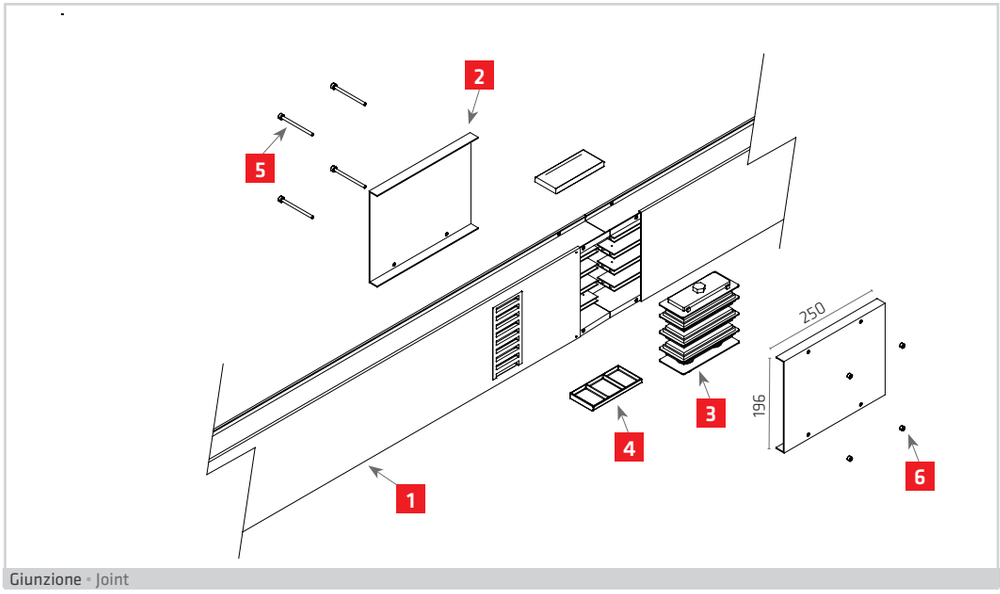
ESC_INTERNO_nov2012.indd 47 17/12/12 15:30

GDA 4 - GDR 4	GDA 5 - GDR 5
	

A	GDA 4/5	GDR 4/5
	L (mm)	L (mm)
63	45	-
100	45	45
160	45	45
250	65	45
400	65	65
500	94	-
630	94	65
800	94	65
1000	94	-
1250	145	94
1600	145	94
2000	275	145
2500	275	145



Elemento rettilineo 4 m • Straight element 4 m



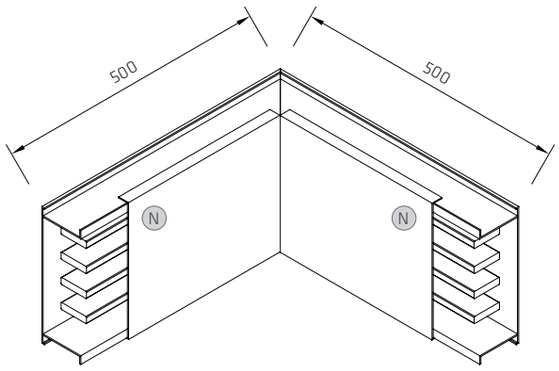
Giunzione • Joint

1	Elemento linea GDA
2	Coprigiunto
3	Giunto monobullone
4	Coprifessura laterale
5	Vite 5MA
6	Dado 5MA
1	GDA line element
2	Joint cover
3	One-bolt joint
4	Lateral cover chasm
5	Screw 5MA
6	Stud nut 5MA

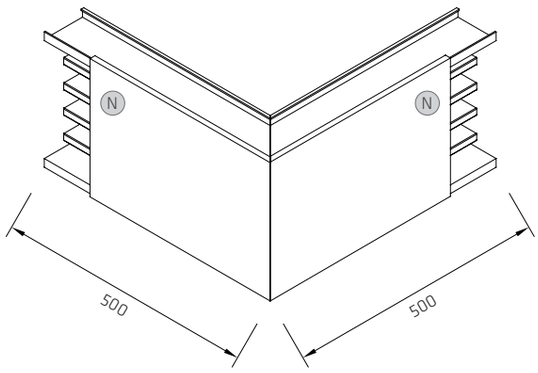
Dati, dimensioni di ingombro, illustrazioni e note contenuti in questo catalogo possono variare senza preavviso in rapporto alle esigenze tecnico commerciali.
Tutte le dimensioni sono in mm.

The data, clearance dimensions, illustrations and notes given in this catalogue can be changed without prior notice in relation to technical or commercial requirements.
All dimensions are in mm.

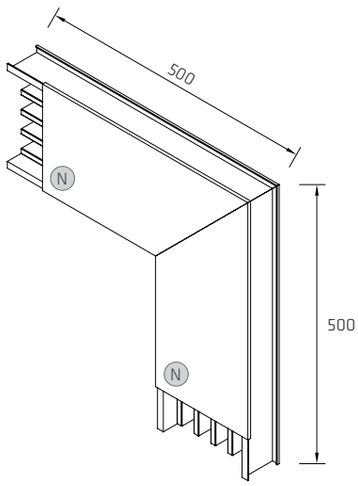
ESC_INTERNO_nov2012.indd 48 17/12/12 15:30



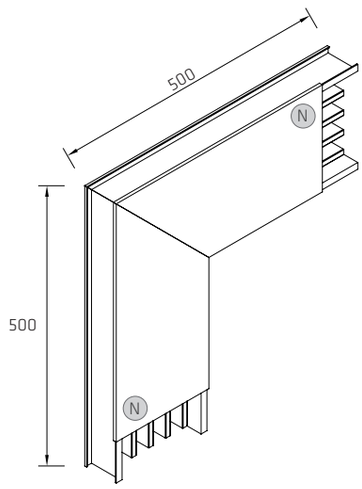
Angoli orizzontali • Horizontal elbows **SX**



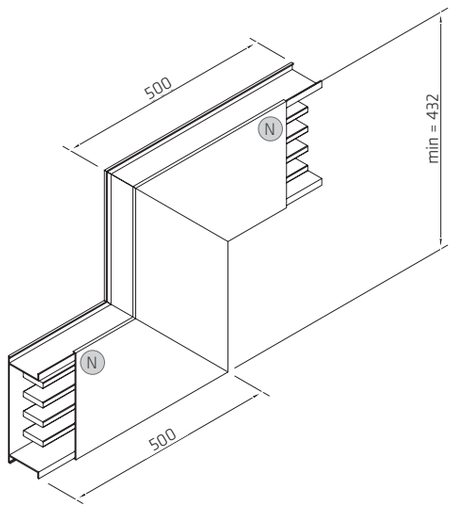
Angoli orizzontali • Horizontal elbows **DX**



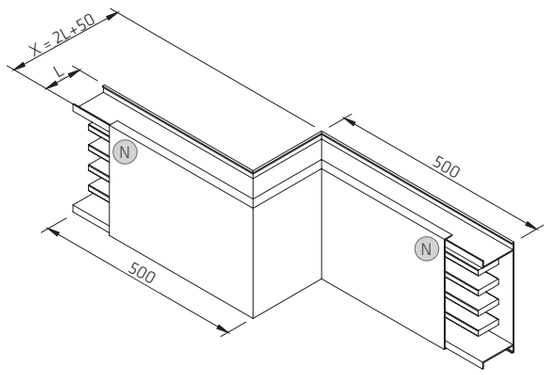
Angoli verticali • Vertical elbows **SX**



Angoli verticali • Vertical elbows **DX**



Doppio angolo verticale • Double vertical elbow



Doppio angolo orizzontale • Double horizontal elbow

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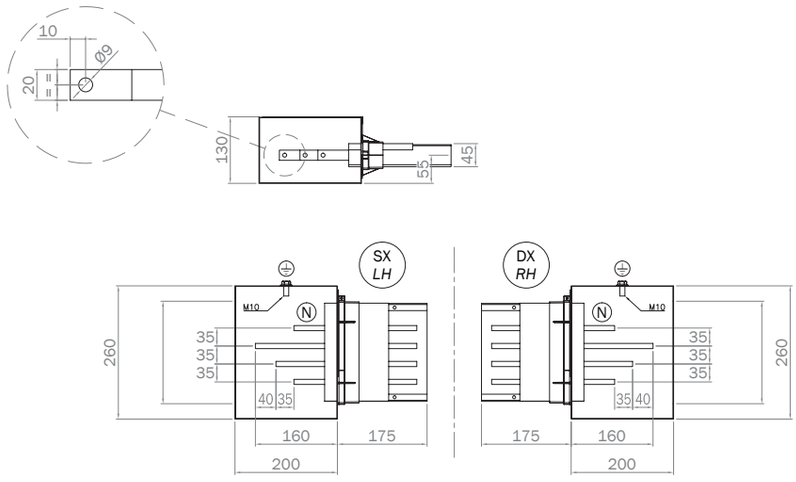
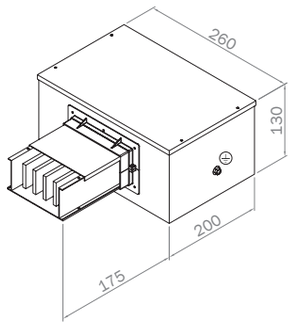
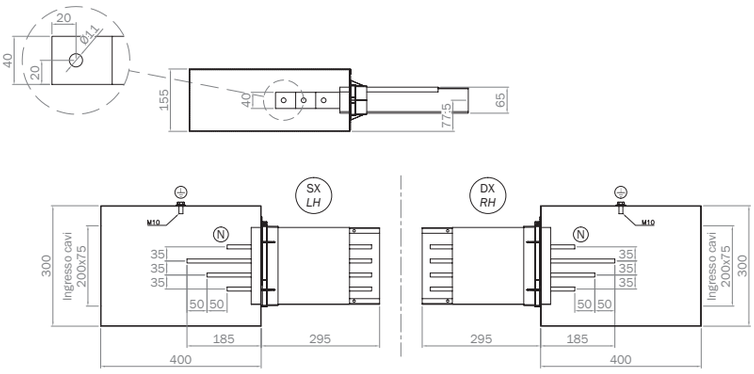
All dimensions are in mm.

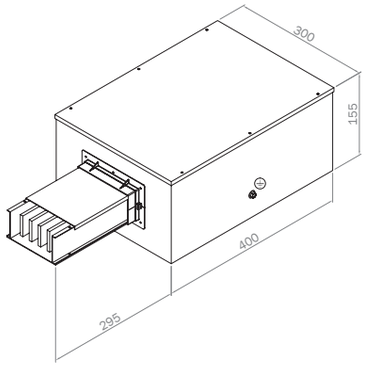
ESC_INTERNO_nov2012.indd 49 17/12/12 15:30



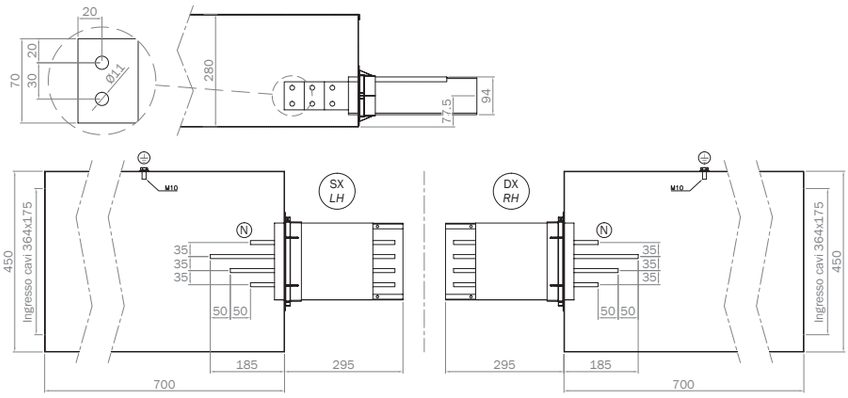


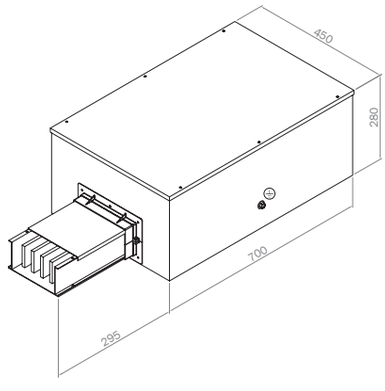
Alimentazione testata GDA - Feed box GDA 63/160 A **AL**





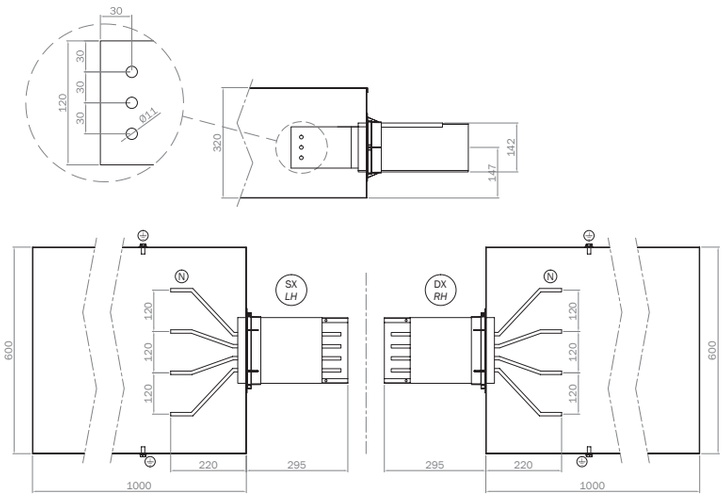
Alimentazione testata GDA - Feed box GDA 250/400 A **AL**



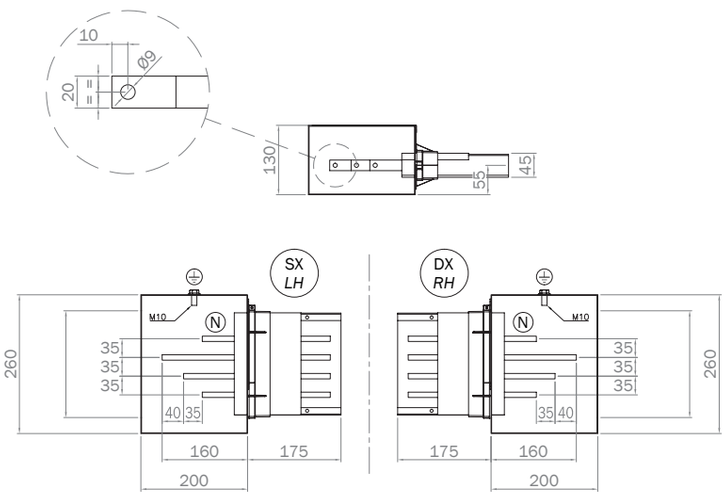


Alimentazione testata GDA - Feed box GDA 500/1000 A **AL**

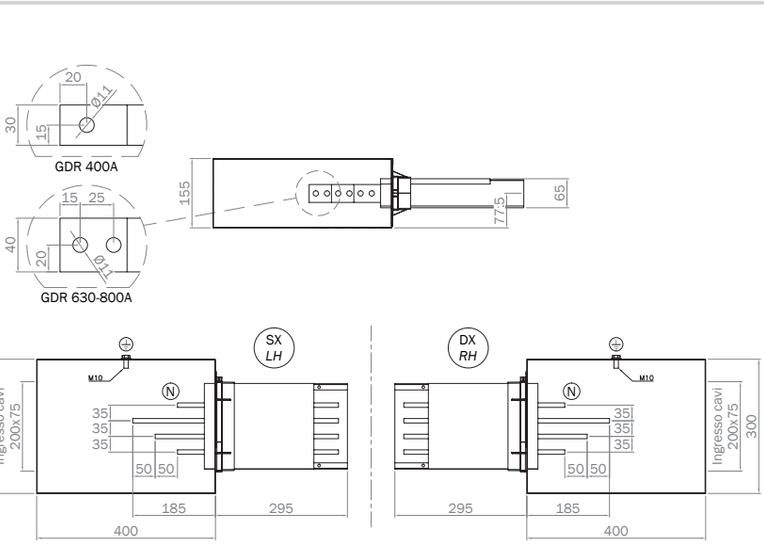
ESC_INTERNO_nov2012.indd 50 17/12/12 15:30



Alimentazione testata GDA - Feed box GDA 1250/1600 A **AL**

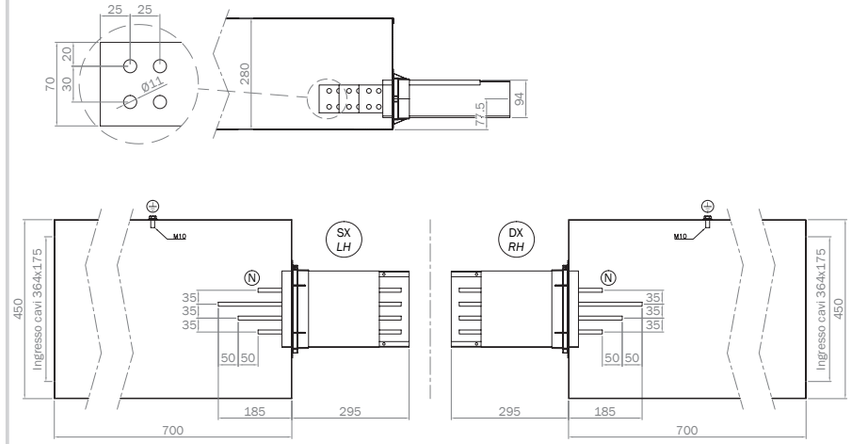


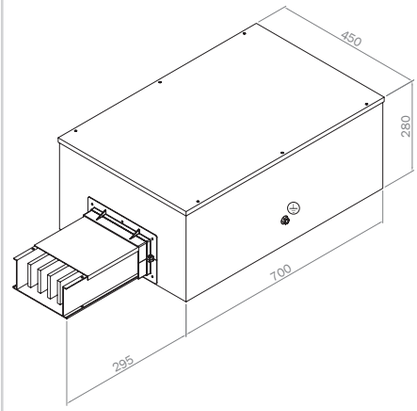
Alimentazione testata GDR - Feed box GDR 100/250 A **CU**



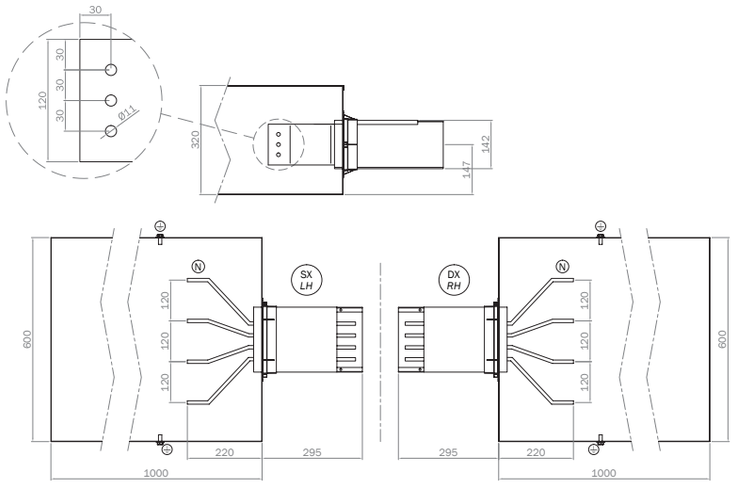
Alimentazione testata GDR - Feed box GDR 400/800 A **CU**

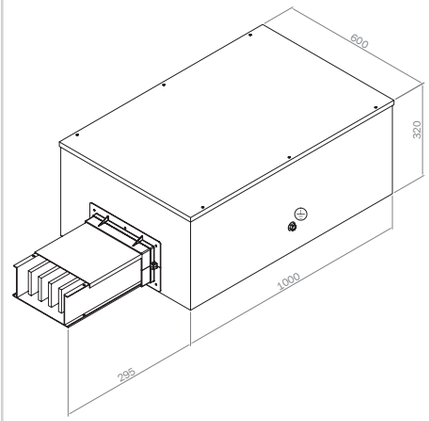
ESC_INTERNO_nov2012.indd 51 17/12/12 15:30



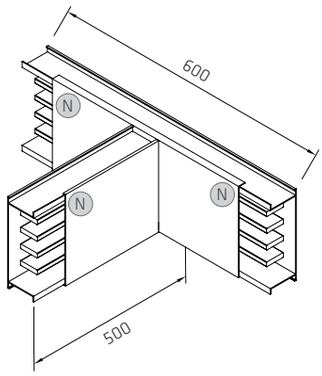


Alimentazione testata GDR - Feed box GDR 1250/1600 A **CU**

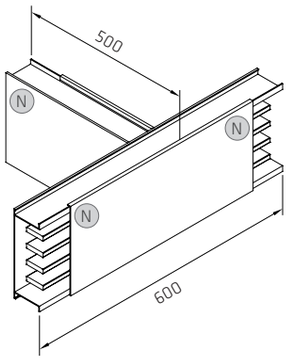




Alimentazione testata GDR - Feed box GDR 2000/2500 A **CU**

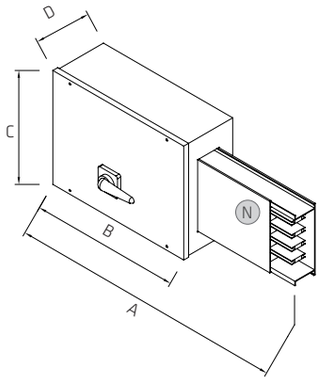


Elementi a "T" • "T" elbows **SX**

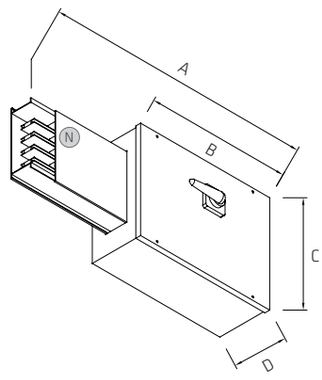


Elementi a "T" • "T" elbows **DX**

ESC_INTERNO_nov2012.indd 52 17/12/12 15:30

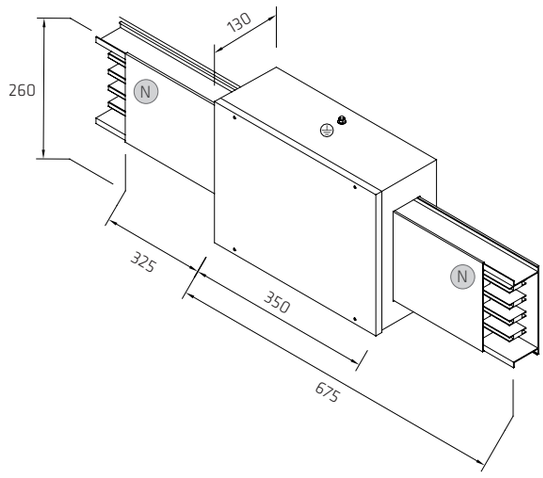


Alimentazione testata con interruttore • Feed box with switch **SX**

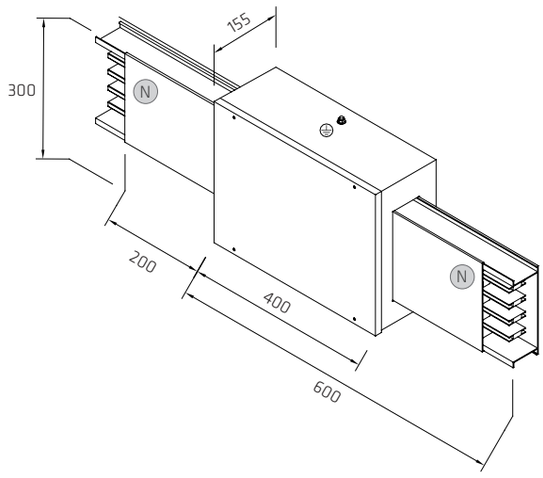


Alimentazione testata con interruttore • Feed box with switch **DX**

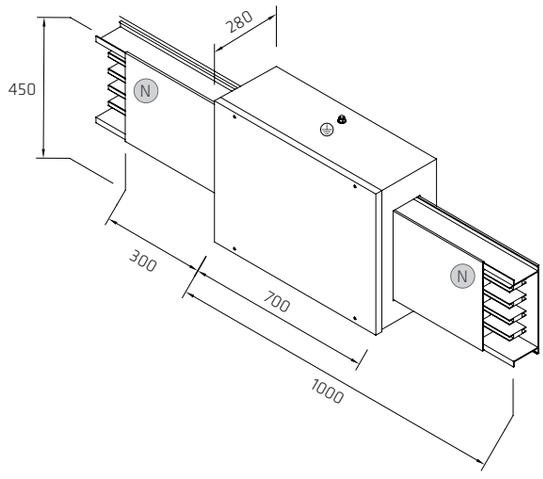
[A]	A	B	C	D
63	650	355	260	130
100/160	650	355	260	130
250/400	800	500	450	250
500/1000	1050	750	500	320
1250/1600	1300	1000	600	450



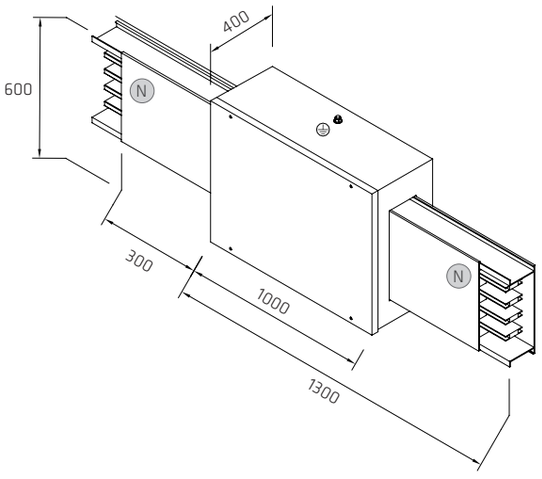
Alimentazione intermedia GDA/GDR 63-160 A
Centre feed unit GDA/GDR 63-160 A



Alimentazione intermedia GDA/GDR 250 A - 400 A
Centre feed unit GDA/GDR 250 A - 400 A

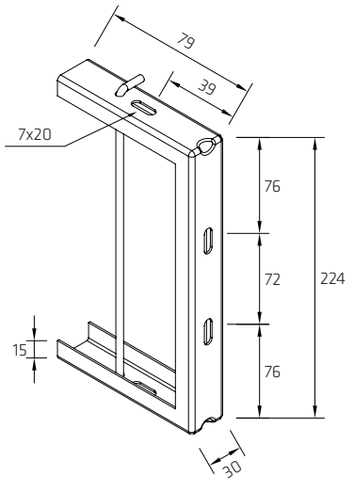


Alimentazione intermedia GDA 500 - 1000 A/GDR 630 - 1600 A
Centre feed unit GDA 500 - 1000 A/GDR 630 - 1600 A

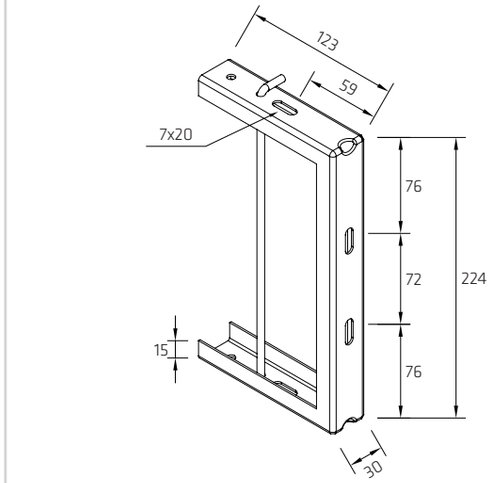


Alimentazione intermedia GDA 1250 - 1600 A/GDR 2000 - 2500 A
Centre feed unit GDA 1250 - 1600 A/GDR 2000 - 2500 A

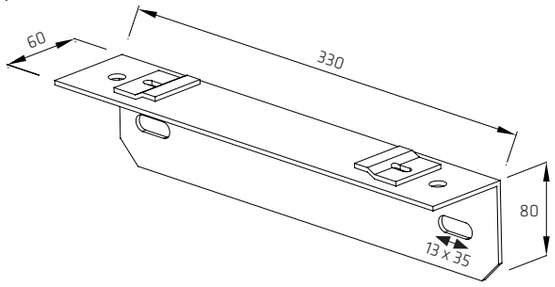
ESC_INTERNO_nov2012.indd 53 17/12/12 15:30



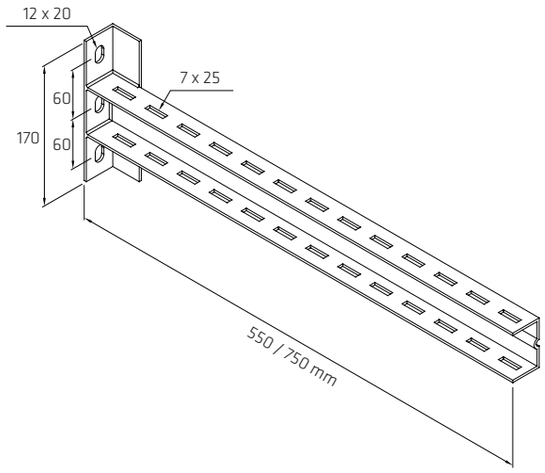
Staffa di sospensione GDA010000 • Fixing hanger GDA010000



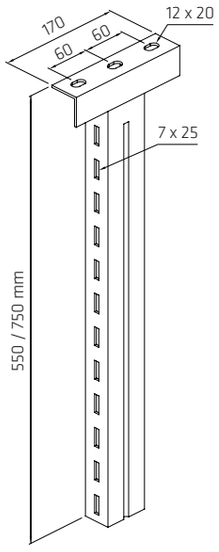
Staffa di sospensione GDA010001 • Fixing hanger GDA010001



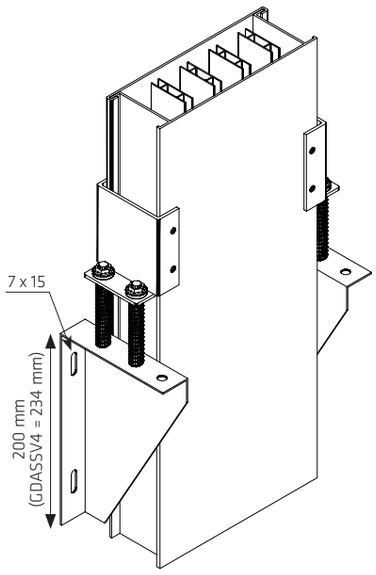
Staffa di sospensione GDASS4 • Fixing hanger GDASS4



Mensola a parete • Wall fixing bracket

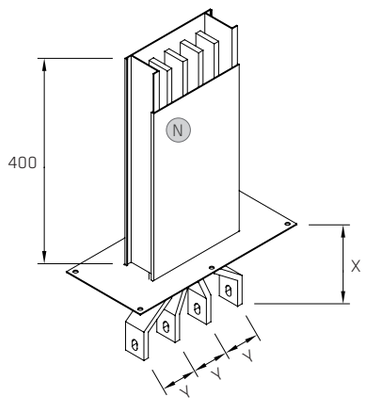


Mensola a soffitto • Ceiling fixing bracket

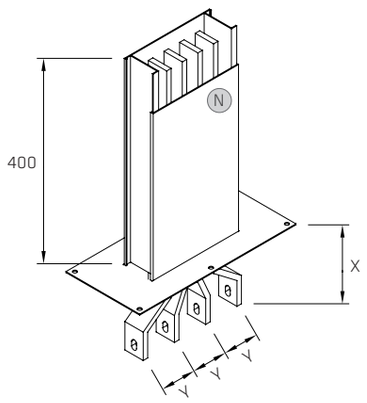


Staffa di sotegno linee verticali • Hanger for vertical risers

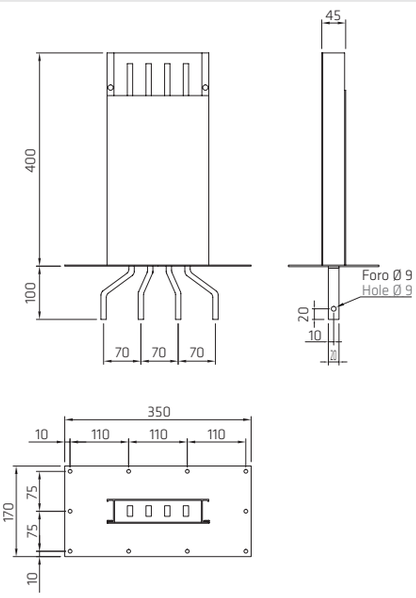
ESC_INTERNO_nov2012.indd 54 17/12/12 15:30



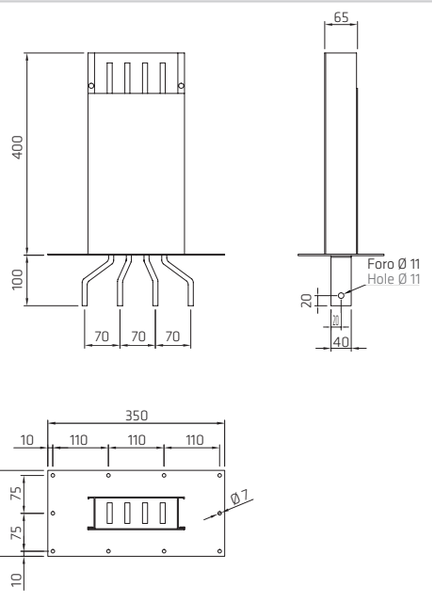
Elemento terminale quadro • Switchboard feed unit **SX**



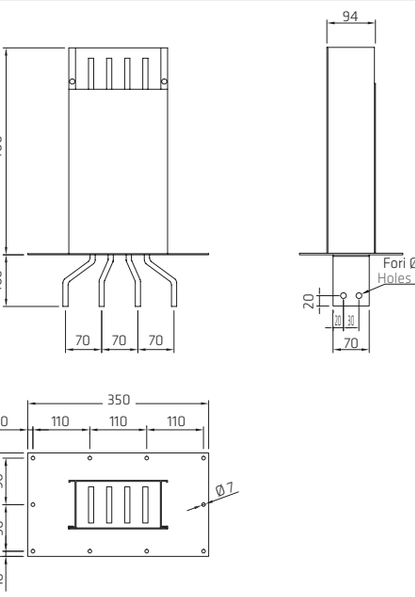
Elemento terminale quadro • Switchboard feed unit **DX**



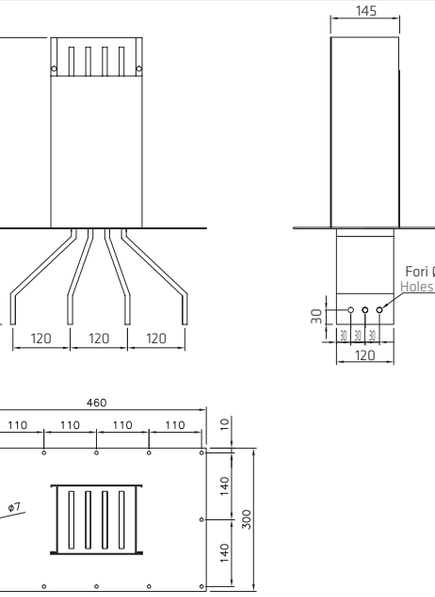
Elemento terminale quadro • Switchboard feed unit GDA 63/250A - GDR 100/250A **AL/CU**



Elemento terminale quadro • Switchboard feed unit GDA 250/400A - GDR 400/800A **AL/CU**

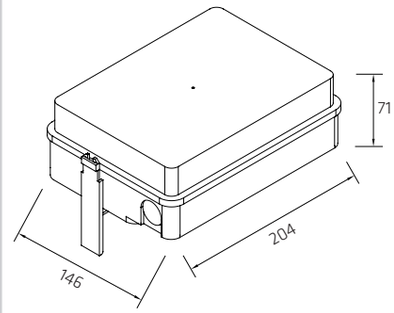


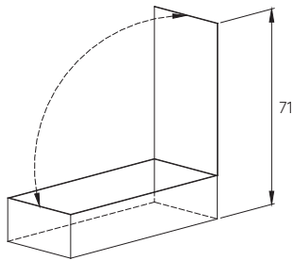
Elemento terminale quadro • Switchboard feed unit GDA 500/1000A - GDR 1250/1600A **AL/CU**

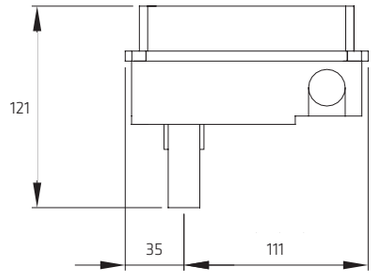


Elemento terminale quadro • Switchboard feed unit GDA 1250/1600A - GDR 2000/2500A **AL/CU**

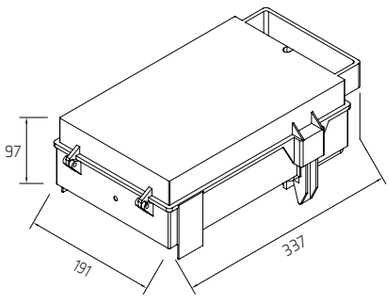
ESC_INTERNO_nov2012.indd 55 17/12/12 15:30

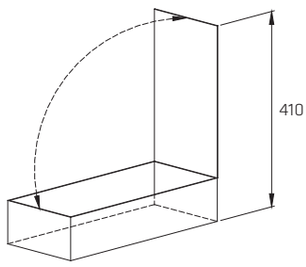


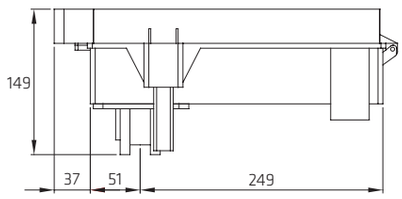




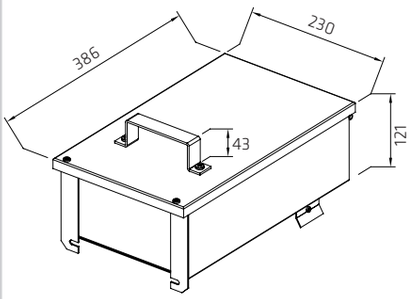
Cassette di derivazione • Tap off boxes | GDA 400250/1/3 | **32 A**

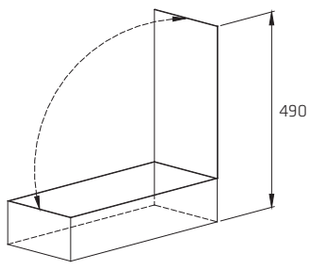


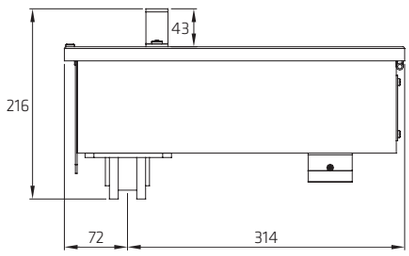




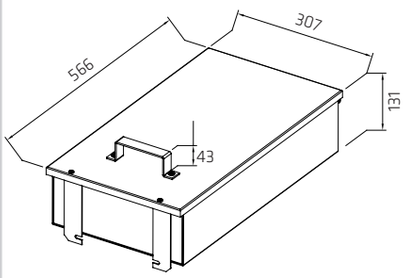
Cassette di derivazione • Tap off boxes | GDA 400630/1/3 • GDA 401250/1/3 | **63-125 A**

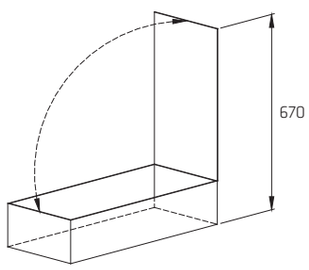


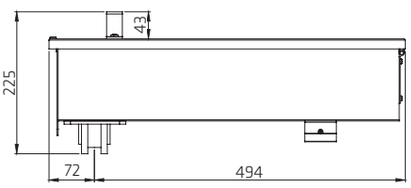




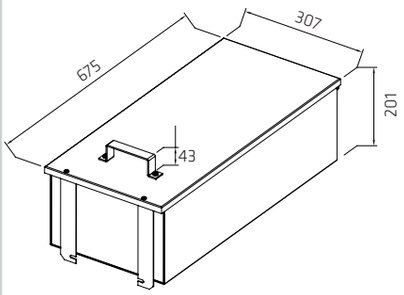
Cassette di derivazione • Tap off boxes | GDA 401600/1/3 | **160 A**

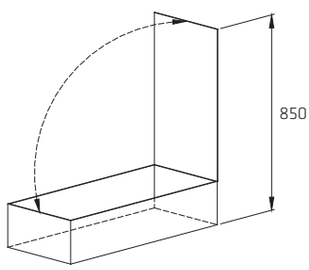


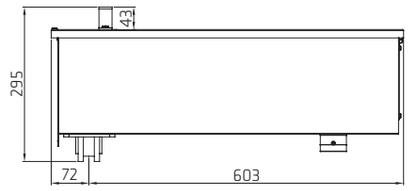




Cassette di derivazione • Tap off boxes | GDA 402500/1/3 | **250 A**

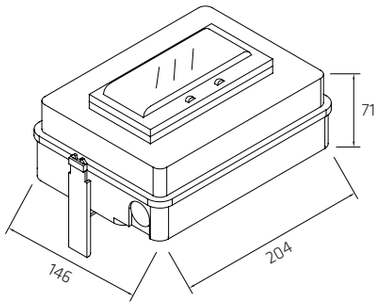


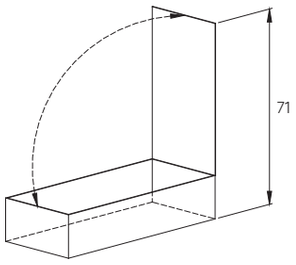


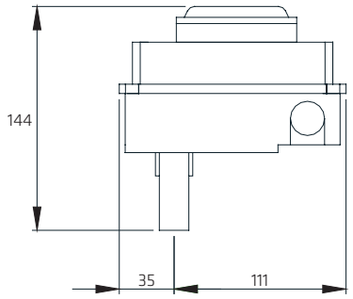


Cassette di derivazione • Tap off boxes | GDA 404000/1/3 | **400 A**

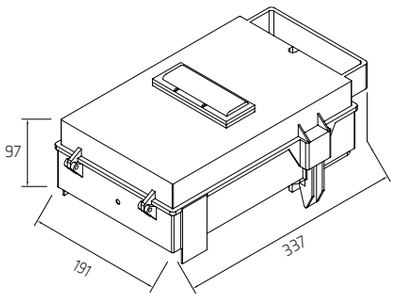
ESC_INTERNO_nov2012.indd 56 17/12/12 15:30

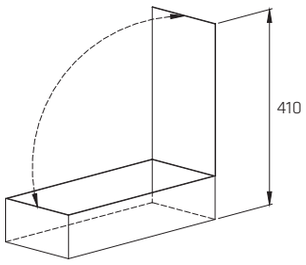


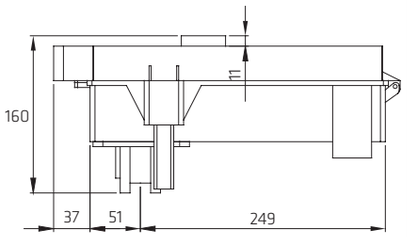




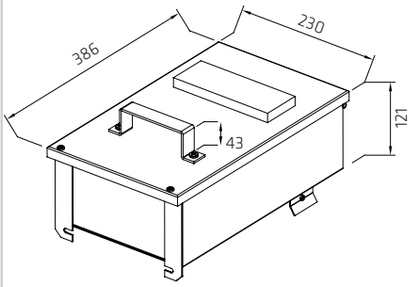
Cassette di derivazione • Tap off boxes GDA 400252 **32 A**

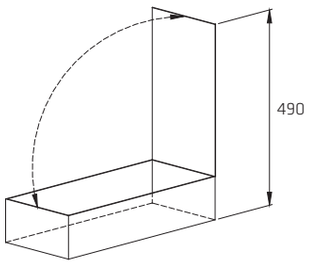


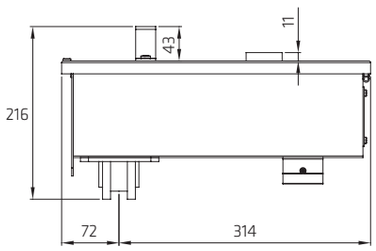




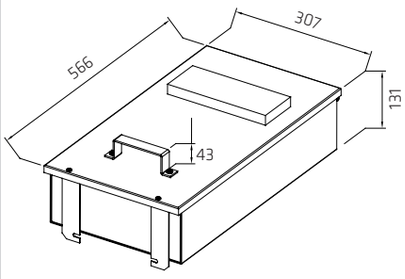
Cassette di derivazione • Tap off boxes GDA 400632/401252 **63-125 A**

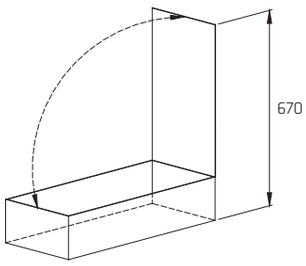


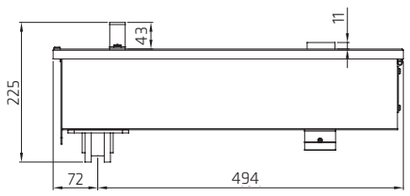




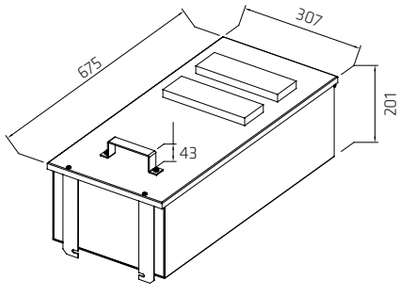
Cassette di derivazione • Tap off boxes GDA 401602 **160 A**

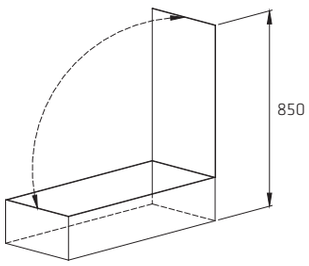


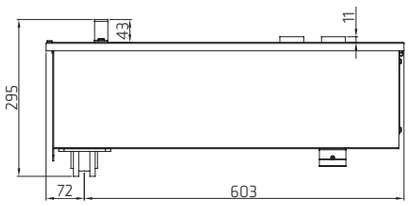




Cassette di derivazione • Tap off boxes GDA 402502 **250 A**



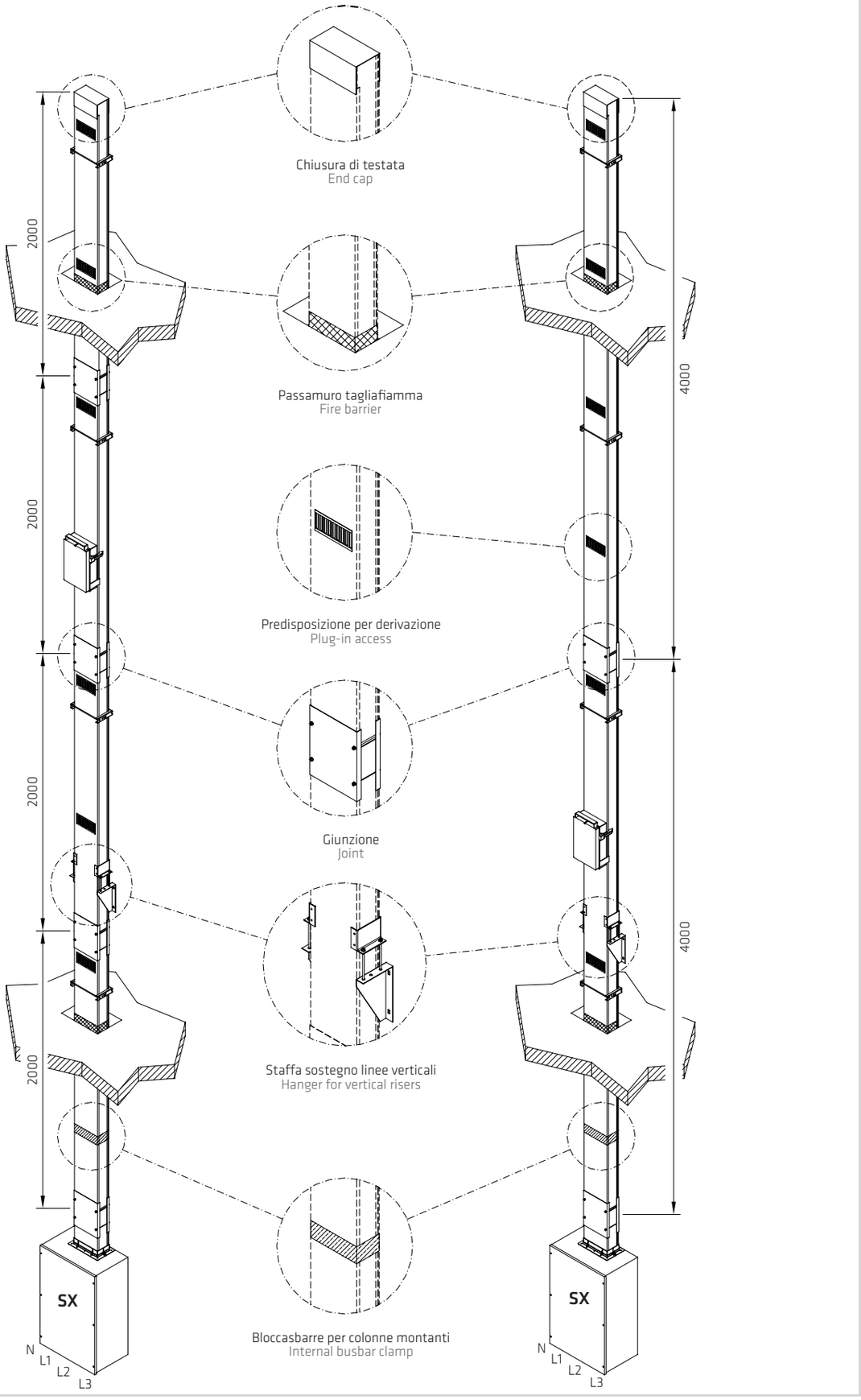




Cassette di derivazione • Tap off boxes GDA 404002 **400 A**

ESC_INTERNO_nov2012.indd 57 17/12/12 15:30

Esempio esecuzione linee verticali
Example of execution of vertical lines



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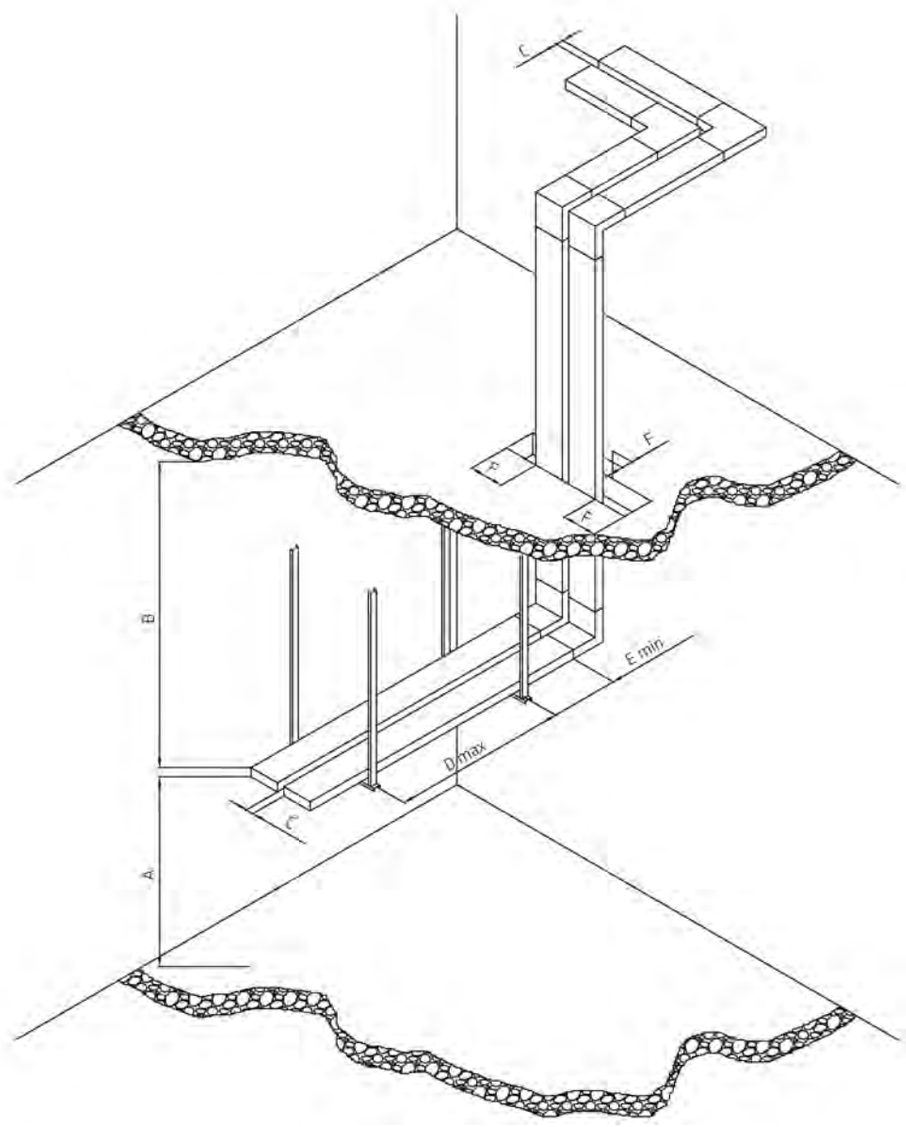
Distanze di montaggio
Mounting distances



A Min - 100 mm
B Min - 100 mm
C Min - 100 mm
D Max - 2000 mm
E Min - 250 mm
F Min - 70 mm

Valido per:
Valid for:

GDA | GDR | ISOLSBARRA | GMT

ESC_INTERNO_nov2012.indd 59 17/12/12 15:30