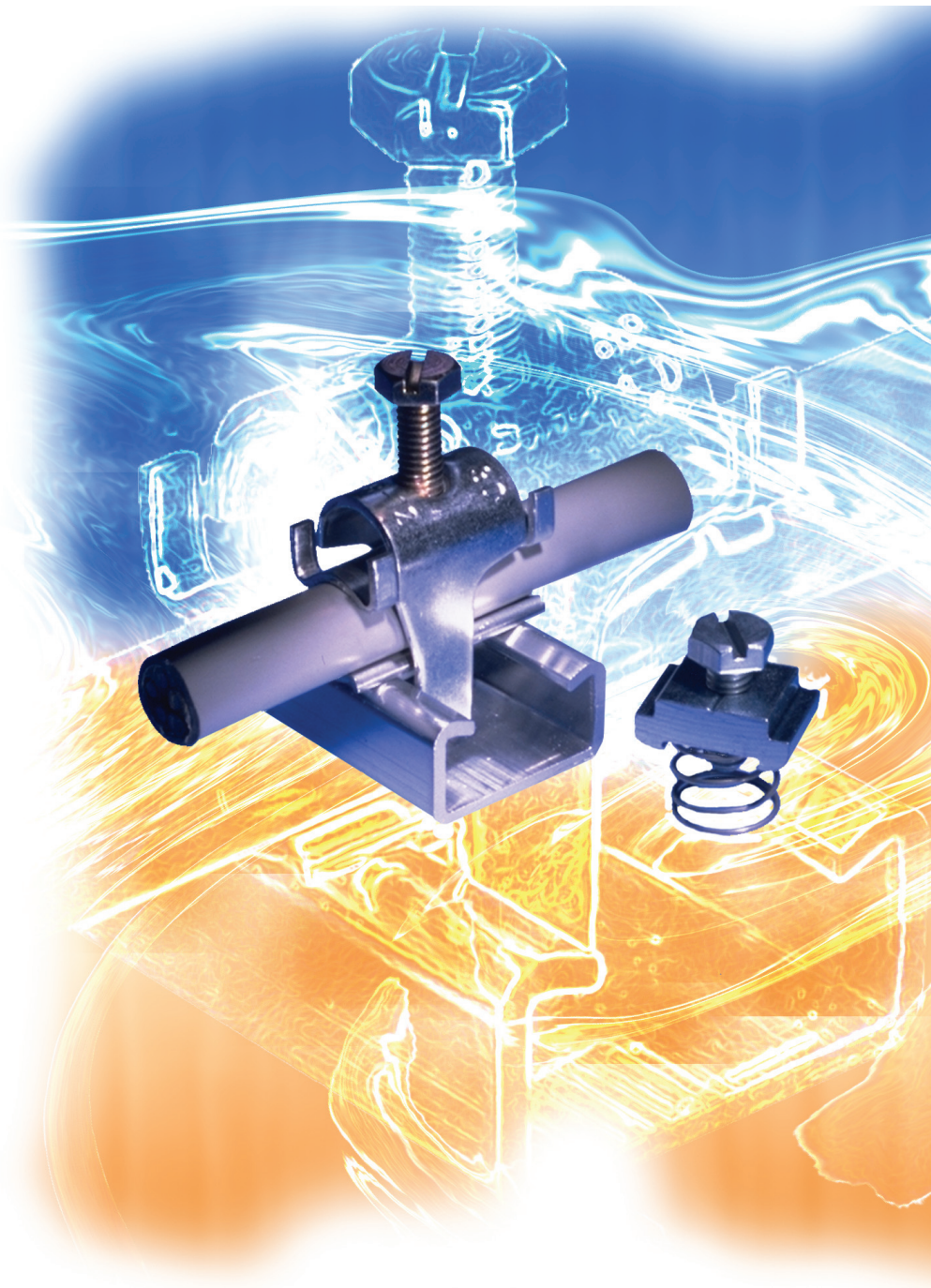


# FIXING TECHNOLOGY

  
**woertz**




Woertz AG  
Hofackerstrasse 47, P.O. Box 948, CH-4132 Muttenz 1, Switzerland  
Phone ++41 (0)61 466 33 33, Fax ++41 (0)61 461 96 06  
[www.woertz.ch](http://www.woertz.ch)


Woertz USA  
151 Discovery Drive, Unit 111  
Colmar, PA 18915  
Phone (215) 997 8855, Fax (800) 522-3868  
[www.woertz-usa.com](http://www.woertz-usa.com), e-mail: [woertz1@erols.com](mailto:woertz1@erols.com)

**2.1**

# Structure of the catalog




general information



suitable rails

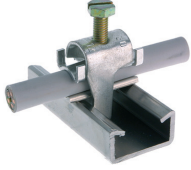
article description

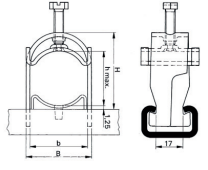
**Cable fixing brackets of hardened aluminium alloy  
to profile bars No. 4382, 4383 and 80291**







 - with slotted hexagonal screw of chromate coated steel (yellow)


- base plates are always required when laying cables

Torque  
see table on page 2.1.27





 <b>Article numbers</b>							
cable fixing brackets without base plate	4350	4351	4352	4353	4354	4355	
 <b>Technical data</b>							
$\varnothing$	mm	8-12	12-16	16-20	20-25	25-32	32-40
B	mm	17	22	26	32	38	48
H	mm	25	30	34	40	47	56
b	mm	14	18	22	27	33	42
h	mm	15	20	24	29	36	42
Packing unit	pcs	100	100	100	100	100	100
 <b>Accessories</b>							
Base plates		4340	4341	4342	4343	4344	4345
Packing unit	pcs	100	100	100	100	100	100
 <b>Article numbers</b>							
cable fixing brackets without base plate		4356	4357	4357/1	4357/2	4358	4359
 <b>Technical data</b>							
$\varnothing$	mm	40-48	48-56	56-64	64-70	70-80	80-90
B	mm	56	64	74	83	94	100
H	mm	64	73	82	87	98	110
b	mm	50	58	66	71	86	92
h	mm	51	59	69	74	84	96
Packing unit	pcs	50	50	50	30	25	25
 <b>Accessories</b>							
Base plates		4346	4347	4347/1	4347/2	4348	4348
Packing unit	pcs	50	50	50	50	25	25


 **suitable accessories**


2.1.1


catalog register 2


section 1


page number

 Profile bar type 4384

 Profile bar type 4382

 Profile bar type 4383

 Combined rail 80291

 Anchoring studs for rectangular profiles produced by other companies

**Introduction** **pages 2.1.4 + 2.1.5**

**Fixing technology** **pages 2.1.6 to 2.1.26**

Rails overview .....page 2.1.6

Profile bar 22 x 12 x 1.5 mm .....page 2.1.7

Cable fixing brackets of aluminium alloy to profile bar 22 x 12 x 1.5 mm .....page 2.1.8

Anchoring studs of galvanized steel to profile bar 22 x 12 x 1.5 mm .....page 2.1.9

Profile bar 29 x 15 x 2 mm .....page 2.1.10

Profile bar 32 x 18 x 3 mm .....page 2.1.11

Combined rail of hardened aluminium alloy .....page 2.1.12

Cable fixing brackets of hardened aluminium alloy .....page 2.1.13

Cable fixing brackets of stainless steel A4 .....page 2.1.14

Triangular cable fixing brackets of hardened aluminium alloy .....page 2.1.15

Multistep cable fixing brackets of hardened aluminium alloy .....page 2.1.16

Anchoring studs and washers of galvanized steel .....page 2.1.17

Anchoring studs and washers of stainless steel A4 .....page 2.1.18

Special anchoring studs and washers of galvanized steel .....page 2.1.19

Components for switchboards and frames .....pages 2.1.20-2.1.21

Hexagon bolt M6 .....page 2.1.22

Cable clamps .....page 2.1.23

Cable bushing .....page 2.1.24

Supports for electric meters of aluminium profile .....page 2.1.25

Rigid marking strips .....page 2.1.26

# Introduction

## Company profile

The Woertz company was founded in 1928; our head office is in Muttenz near Basle, Switzerland.

We are a family business with about 220 employees known as a quality manufacturer of circuitry accessories, installation systems and electronic control systems.

Our goals are:

- security,
- user-friendliness,
- and easy handling of our products.

We are certified according to ISO 9001 and ISO 14001.

Our range of products includes:

- terminals, junction boxes, grounding products, surge protection devices, anchor channels and anchoring studs
- flat cable installation systems
- floor ducts, double floor systems, under-window ducts
- electronic modules and interfaces.

The circuitry accessories and the electronic control systems are produced in our headquarters in Muttenz, the duct and double floor systems in the branch located in Hölstein.

### Muttenz head office

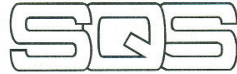


Hofackerstrasse 47, CH-4132 Muttenz, Switzerland  
Tel. ++41 (0)61 / 466 33 33  
Fax ++41 (0)61 / 461 96 06

### Hölstein branch



Bärenmattenstrasse 3, CH - 4434 Hölstein, Switzerland  
Tel. ++ 41 (0)61 / 956 56 56  
Fax ++ 41 (0)61 / 956 56 70



**The Swiss Association  
for Quality and Management Systems**

SQS herewith certifies that the company named below has a management system  
which meets the requirements of the normative bases specified below  
and issues the company

**Woertz AG  
CH-4132 MuttENZ 1**

Certified area

**Whole Company, location MuttENZ and Hölstein**

Field of activity

**Electrical accessories, Installation systems**

on the basis of the audit result the

**SQS Certificate  
ISO 9001:2000 / ISO 14001:1996**

CH-3052 Zollikofen, 25 June 2002

This SQS Certificate is valid up to and including 24 June 2005

Scope numbers 19, 14

Registration number 10501-06

Managing Director SQS

T. Zahner

President SQS

Prof. Dr. H. D. Seghezzi









The SQS certificate ISO 9001 was issued to us 1987 for the first time and renewed regularly. ISO 14001 since 1996.

# Rails overview



## Profile bars

Profile bars for anchoring studs, cable fixing brackets, components for switchboards and constructions of any kind.

Type	Illustration	Kind of material	Material thickness	Standard lengths	Rails and accessories
4384 		bright steel galvanized steel	1.5 mm 1.5 mm	3 m 3 m	pages 2.1.7 to 2.1.9
4382 		aluminium bright steel galvanized steel stainless steel A2	2 mm 2 mm 2 mm 2 mm	3 m and 6 m 3 m and 6 m 3 m and 6 m 3 m and 6 m	page 2.1.10, pages 2.1.13-2.1.18, pages 2.1.22+2.1.23
4383 		aluminium bright steel galvanized steel stainless steel A2	3 mm 3 mm 3 mm 3 mm	3 m and 6 m 3 m and 6 m 3 m and 6 m 3 m and 6 m	page 2.1.11, pages 2.1.13-2.1.18 pages 2.1.20-2.1.23





## Combined rail

Combined rail with external flanks according to EN 60715 TH35.

For clipping on terminals and appliances according to DIN35.

Internal profile for receiving anchoring studs series No. 4420 and cable fixing brackets series No. 4350.

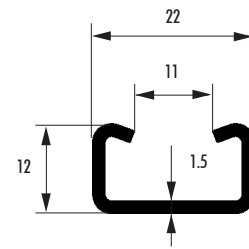
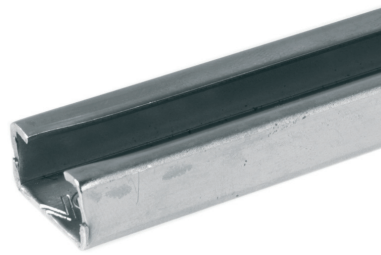
Article number	Illustration	Kind of material	Material thickness	Standard lengths	Rails and accessories
80291 		aluminium	1.8 mm	2m, 3 m or 6 m	page 2.1.12 page 2.1.13 page 2.1.16 page 2.1.17 page 2.1.22

# Profile bar

## 22 x 12 x 1.5 mm



- two versions are available: bright steel and galvanized steel
- length 3 m
- With a price supplement for the cut, the profile bars may be delivered in any desired length.
- With a price supplement, the profile bars can also be delivered with fastening holes or steel straps for embedding in concrete.



### Article numbers

	bright steel	galvanized steel
length 3 m	4384R/3M	4384RZ/3M



### General data

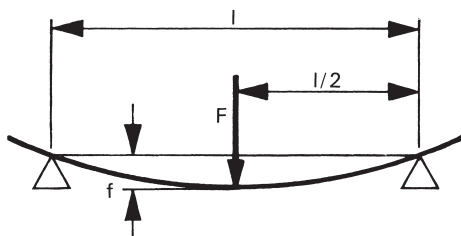
weight	g/m	560	600



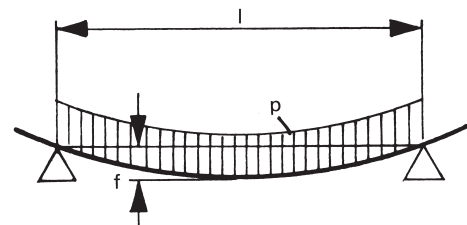
### Features

#### Load capacity of the profile bars

##### Point load



#### Line load



### Static values for profile bars of bright steel or galvanized steel

l in mm	250	500	750	1000	l in mm	250	500	750	1000
F max. in N	390	97	43	30.2	p max. in N/mm	2.48	0.31	0.09	0.05
f in mm	0.5	1.0	1.5	2.5	f in mm	0.5	1.0	1.5	2.5

## Notice

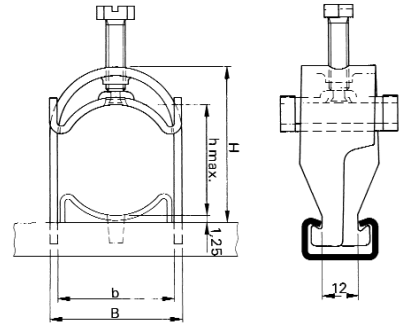
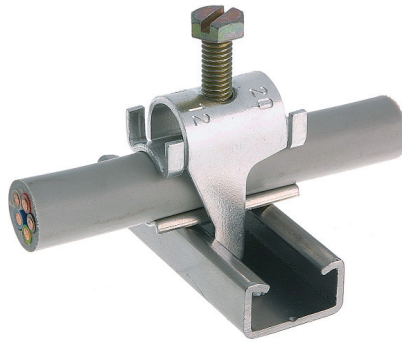
The flexion F of the profile bars may be max. 1/400 of the span l.

# Cable fixing brackets of aluminium alloy

## to profile bar No. 4384



- with slotted hexagonal screw of chromate coated steel (yellow)
- base plates are always required when laying cables



### Article numbers

cable fixing brackets  
without base plate

43695

43641

43627

43692

43675

43636



### Technical data

∅	mm	8-12	12-16	16-20	20-25	25-32	32-40
B	mm	17	22	26	32	38	48
H	mm	25	30	34	40	47	56
b	mm	14	18	22	27	33	42
h	mm	15	20	24	29	36	42
Packing unit	pcs	100	100	100	100	100	100



### Accessories

Base plates



43663

43639

43665

43652

43680

43655

Packing unit

pcs

100

100

100

100

100

100



### Article numbers

cable fixing brackets  
without base plate

43671

43640



### Technical data

∅	mm	40-48	48-56
B	mm	56	64
H	mm	64	73
b	mm	50	58
h	mm	51	59
Packing unit	pcs	50	50



### Accessories

Base plates



43659

43688

Packing unit

pcs

50

50

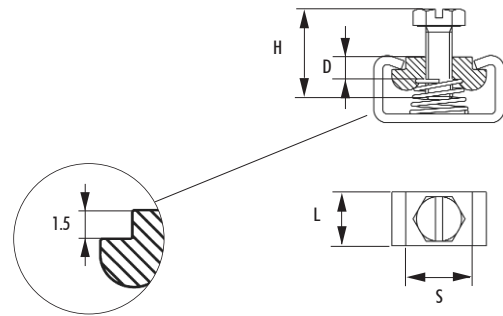


# Anchoring studs of galvanized steel

to profile bar No. 4384



- two versions are available:  
with screw, with spring or  
without screw, with spring



## Article numbers

with screw, with spring

**M4**  
6850/4

**M5**  
6850/5

**M6**  
6850/6

without screw, with spring

6850/40S

6850/50S

6850/60S



## Technical data

		M4	M5	M6
L	mm	13	13	13
D	mm	5	5	5
H	mm	12	12	12
S	mm	10.6	10.6	10.6
Packing unit	pcs	100	100	100



## Accessories

Washers  
(without thread)



**6857M4**

**6857M5**

**6857M6**

∅

mm

20 x 4.5 x 1.5

20 x 5.5 x 1.5

20 x 6.5 x 1.5

Packing unit

pcs

100

100

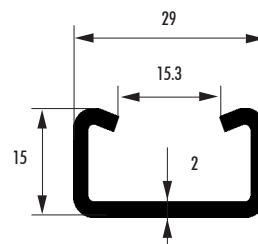
100

# Profile bar

29 x 15 x 2 mm



- four versions are available
- length 3 m or 6 m
- With a price supplement for the cut, the profile bars may be delivered in any desired length.
- With a price supplement, the profile bars can also be delivered with fastening holes or steel straps for embedding in concrete.



## Article numbers

	bright steel	galvanized steel	aluminium alloy	stainless steel (INOX)A2
length 3 m	4382R/3M	4382RZ/3M	4382A/3M	4382IN/3M
length 6 m	4382R/6M	4382RZ/6M	4382A/6M	4382IN/6M

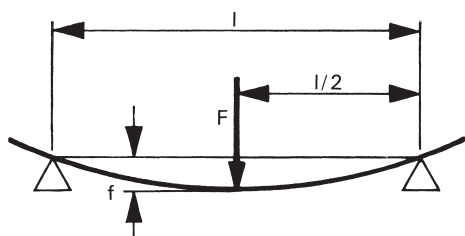
## General data

weight	g/m	950	1000	330	950

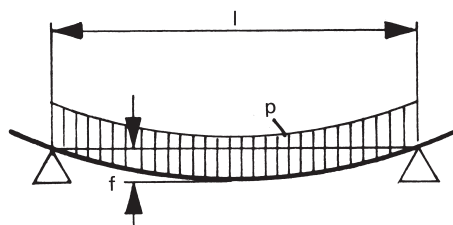
## Features

### Load capacity of the profile bars

#### Point load



#### Line load



### Static values for profile bars of bright steel or galvanized steel

l in mm	250	500	750	1000	l in mm	250	500	750	1000
F max. in N	1030	258	115	80	p max. in N/mm	6.6	0.83	0.24	0.13
f in mm	0.5	1.0	1.5	2.5	f in mm	0.5	1.0	1.5	2.5

### Static values for profile bars of stainless steel

l in mm	250	500	750	1000	l in mm	250	500	750	1000
F max. in N	983	246	109	77	p max. in N/mm	6.3	0.79	0.23	0.12
f in mm	0.5	1.0	1.5	2.5	f in mm	0.5	1.0	1.5	2.5

### Static values for aluminium profile bars

l in mm	250	500	750	1000	l in mm	250	500	750	1000
F max. in N	343	86	38	27	p max. in N/mm	2.2	0.27	0.08	0.04
f in mm	0.5	1.0	1.5	2.5	f in mm	0.5	1.0	1.5	2.5

## Notice

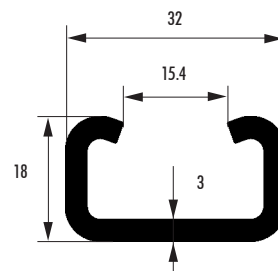
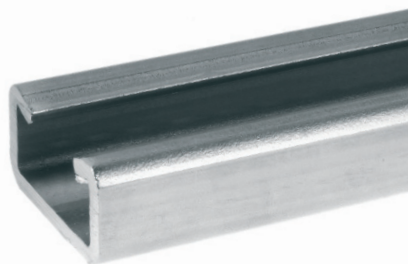
The flexion F of the profile bars may be max. 1/400 of the span l.

# Profile bar

## 32 x 18 x 3 mm



- four versions are available
- length 3 m or 6 m
- With a price supplement for the cut, the profile bars may be delivered in any desired length.
- With a price supplement, the profile bars can also be delivered with fastening holes or steel straps for embedding in concrete.



### Article numbers

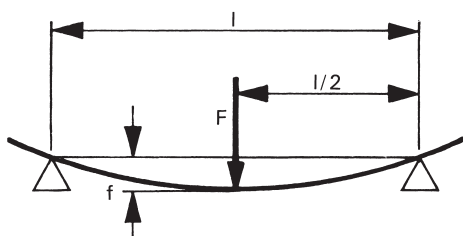
	bright steel	galvanized steel	aluminium alloy	stainless steel (INOX) A2
length 3 m	4383R/3M	4383RZ/3M	4383A/3M	4383IN/3M
length 6 m	4383R/6M	4383RZ/6M	4383A/6M	4383IN/6M

### General data

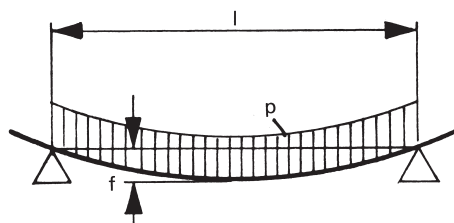
weight	g/m	1600	1650	530	1600

#### Load capacity of the profile bars

##### Point load



##### Line load



#### Static values for profile bars of bright steel or galvanized steel

l in mm	250	500	750	1000	l in mm	250	500	750	1000
F max. in N	2300	576	256	180	p max. in N/mm	14.75	1.84	0.55	0.29
f in mm	0.5	1.0	1.5	2.5	f in mm	0.5	1.0	1.5	2.5

#### Static values for profile bars of stainless steel

l in mm	250	500	750	1000	l in mm	250	500	750	1000
F max. in N	2190	548	244	171	p max. in N/mm	14.0	1.75	0.52	0.27
f in mm	0.5	1.0	1.5	2.5	f in mm	0.5	1.0	1.5	2.5

#### Static values for aluminium profile bars

l in mm	250	500	750	1000	l in mm	250	500	750	1000
F max. in N	766	192	85	60	p max. in N/mm	4.92	0.61	0.18	0.09
f in mm	0.5	1.0	1.5	2.5	f in mm	0.5	1.0	1.5	2.5

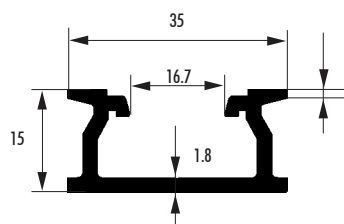
### Notice

The flexion F of the profile bars may be max. 1/400 of the span l.

# Combined rail of hardened aluminium alloy



- external flanks according to EN 60715 TH35
- for clipping on terminals and appliances according to DIN35
- Internal profile for receiving anchoring studs series No. 4420 and cable fixing brackets series No. 4350



## Article numbers

length 2 m

**80291/2M**

length 3 m

**80291/3M**

length 6 m

**80291/6M**



## General data

Corresponds to the thermal resistance to short-circuits of a Cu conductor of:

85 mm<sup>2</sup>

weight

g/m

379

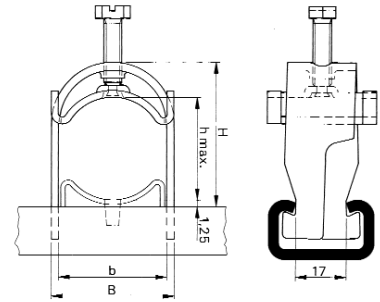
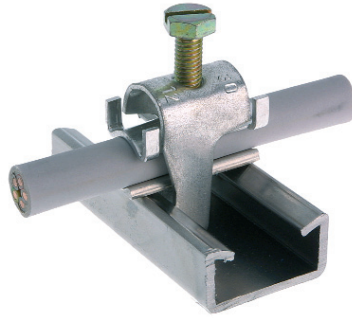
# Cable fixing brackets of hardened aluminium alloy

to profile bars No. 4382, 4383 and 80291



- with slotted hexagonal screw of chromate coated steel (yellow)
- base plates are always required when laying cables

Torque  
see table on page 2.1.27



## Article numbers

cable fixing brackets  
without base plate

4350

4351

4352

4353

4354

4355

## Technical data

∅	mm	8-12	12-16	16-20	20-25	25-32	32-40
B	mm	17	22	26	32	38	48
H	mm	25	30	34	40	47	56
b	mm	14	18	22	27	33	42
h	mm	15	20	24	29	36	42
Packing unit	pcs	100	100	100	100	100	100

## Accessories

Base plates



4340

4341

4342

4343

4344

4345

Packing unit

pcs

100

100

100

100

100

100

## Article numbers

cable fixing brackets  
without base plate

4356

4357

4357/1

4357/2

4358

4359

## Technical data

∅	mm	40-48	48-56	56-64	64-70	70-80	80-90
B	mm	56	64	74	83	94	100
H	mm	64	73	82	87	98	110
b	mm	50	58	66	71	86	92
h	mm	51	59	69	74	84	96
Packing unit	pcs	50	50	50	30	25	25

## Accessories

Base plates



4346

4347

4347/1

4347/2

4348

4348

Packing unit

pcs

50

50

50

50

25

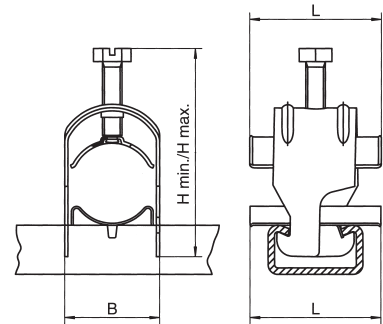
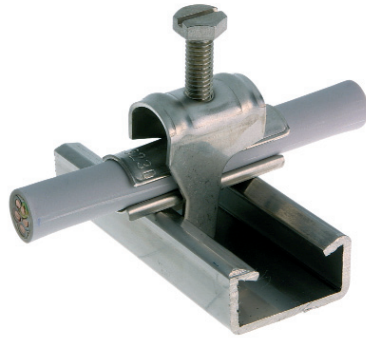
25

# Cable fixing brackets of stainless steel A4

to profile bars No. 4382IN and 4383IN



- with slotted hexagonal screw, stainless
- base plates are always required when laying cables



## **No** Article numbers

cable fixing brackets without base plate

43230

43231

43232

43233

43234

43235

## **xUh** Technical data

Ø	mm	8-12	12-16	16-20	20-25	25-32	32-40
B	mm	15.5	19.5	24	29.5	37	45.5
H <sub>min</sub>	mm	37	41	45	50	57	65
H <sub>max</sub>	mm	56	60	64	69	76	84
L	mm	40	40	40	40	40	40
Packing unit	pcs	100	100	100	100	100	100

## **SMe** Accessories

Base plates



43230U

43231U

43232U

43233U

43234U

43235U

Packing unit

pcs

100

100

100

100

100

100

## **No** Article numbers

cable fixing brackets without base plate

43236

43237

43238

43239

43240

43241

## **xUh** Technical data

Ø	mm	40-48	48-56	56-64	60-70	70-80	80-90
B	mm	56	64	72	78	88	98
H <sub>min</sub>	mm	88	96	104	108	118	128
H <sub>max</sub>	mm	106	114	122	128	138	148
L	mm	60	60	60	60	60	60
Packing unit	pcs	25	100	25	25	25	25

## **SMe** Accessories

Base plates



43236U

43237U

43238U

43239U

43240U

43241U

Packing unit

pcs

100

100

100

100

100

50

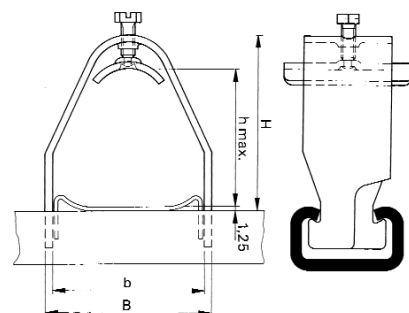
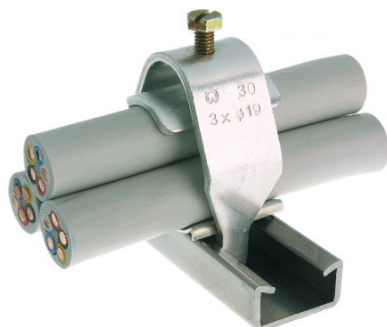
# Triangular cable fixing brackets of hardened aluminium alloy

to profile bars No. 4382 and 4383



- with slotted hexagonal screw of chromate coated steel (yellow)
- base plates are always required when laying cables

Torque  
see table on page 2.1.27



## Article numbers

Cable fixing brackets  
without base plate

4331

4332

4333

4339

4334

4335

## Technical data

	mm <sup>2</sup>	95	120	150	185	240	300
∅	mm	3 x 19	3 x 22	3 x 24	3 x 27	3 x 30	3 x 33
B	mm	46	52	56	62	68	74
H	mm	51	57	61	69	71	77
b	mm	40	46	50	56	62	68
h	mm	39	45	49	57	59	65
Packing unit	pcs	100	100	100	50	50	50

## Accessories

Base plates



4331U

4332U

4333U

4339U

4334U

4335U

Packing unit

pcs

100

100

100

100

100

100

## Article numbers

Cable fixing brackets  
without base plate

4336

4337

4338

## Technical data

	mm <sup>2</sup>	400	500	600
∅	mm	3 x 37	3 x 42	3 x 48
B	mm	84	94	106
H	mm	87	95	109
b	mm	76	86	98
h	mm	72	80	94
Packing unit	pcs	50	50	50

## Accessories

Base plates



4336U

4337U

4338U

Packing unit

pcs

50

50

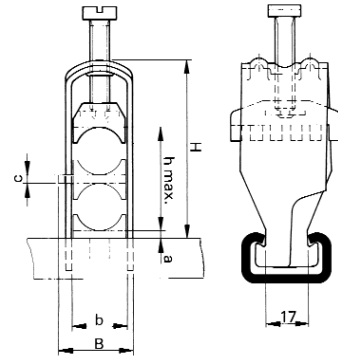
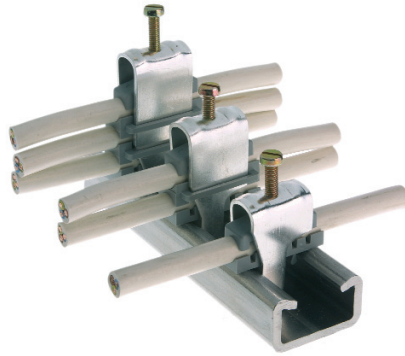
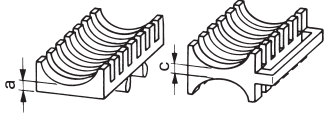
50

# Multistep cable fixing brackets of hardened aluminium alloy

to profile bars No. 4382, 4383 and 80291



- with cylinder screws of chromate coated steel (yellow)
- pressure part, base plates and intermediate pieces of polyamide



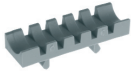

## Article numbers

one-step cable fixing brackets without base plate	7840	7841	7842	7843		
two-step cable fixing brackets without intermediate piece and without base plate					7840/2	7841/2

## Technical data

∅	mm	6-9	9-12	12-16	16-20	6-9	9-12
B	mm	13	17	21	25	15	19
H	mm	24	29	34	36	35	43
b	mm	10	14	18	22	10	14
h	mm	14	17	21	23	24	31
a+c	mm	2	2	2.5	2.5	4	4
Packing unit	pcs	100	100	100	100	100	100

## Accessories

<b>Base plates</b>		7845	7846	7847	7848	7845	7846
Packing unit pcs		100	100	100	100	100	100
<b>Intermediate pieces</b>						7845/1	7846/1
Packing unit pcs						100	100

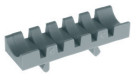

## Article numbers

two-step cable fixing brackets without intermediate piece and without base plate	7842/2	7843/2				
three-step cable fixing brackets without intermediate piece and without base plate			7840/3	7841/3	7842/3	7843/3

## Technical data

∅	mm	12-16	16-20	6-9	9-12	12-16	16-20
B	mm	23	27	15	19	23	27
H	mm	51	60	46	57	71	83
b	mm	18	22	10	14	18	22
h	mm	38	47	35	45	58	70
a+c	mm	5	5	6	6	7.5	7.5
Packing unit	pcs	100	100	100	100	100	100

## Accessories

<b>Base plates</b>		7847	7848	7845	7846	7847	7848
Packing unit pcs		100	100	100	100	100	100
<b>Intermediate pieces</b>		7847/1	7848/1	2 x 7845/1	2 x 7846/1	2 x 7847/1	2 x 7848/1
Packing unit pcs		100	100	2 x 100	2 x 100	2 x 100	2 x 100

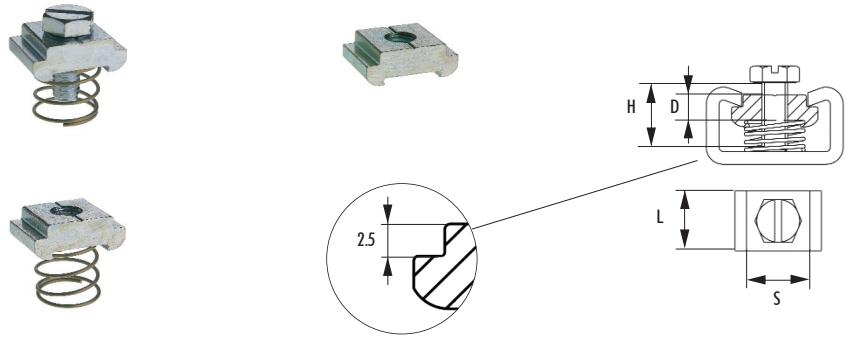



# Anchoring studs and washers of galvanized steel

to profile bars No. 4382, 4383 and 80291



- three versions are available:  
with screw, with spring  
without screw, with spring  
without screw, without spring




 Article No.	M 3	M 4	M 5	M 6	M 8	M 10
with screw, with spring	4420/3	4420/4	4420/5	4420/6	4420/8	4420/10
without screw, with spring	4420/30S	4420/40S	4420/50S	4420/60S	4420/80S	4420/100S
without screw, without spring	4420/30F	4420/40F	4420/50F	4420/60F	4420/80F	4420/100F

## Technical data

L	mm	14	14	14	14	20	25
D	mm	6	6	6	6	6	6
H	mm	16	16	16	16	16	16
S	mm	14.8	14.8	14.8	14.8	14.8	14.8
Packing unit	pcs	100	100	100	100	100	100

## Accessories

<b>Washers of galvanized sheet steel (without thread)</b>		/	4367M4	4367M5	4367M6	4367M8	4367M10
∅	mm		30 x 4.5 x 3	30 x 5.5 x 3	30 x 6.5 x 3	30 x 8.5 x 3	30 x 10.5 x 3
Packing unit	pcs		100	100	100	100	100

# Anchoring studs and washers of stainless steel A4

to profile bars No. 4382IN and 4383IN



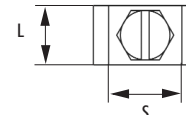
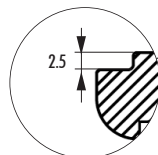
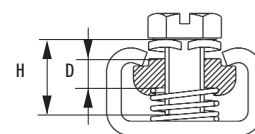
- two versions are available:  
with screw, with spring ring, with spring  
without screw, without spring ring, with spring



with screw, with spring ring, with spring



without screw, without spring ring, with spring



## Article numbers

with screw, with spring ring, with spring

M 4

44320/4

M 6

44320/6

M 8

44320/8

without screw, without spring ring, with spring

44320/40S

44320/60S

44320/80S



## Technical data

	mm	M 4	M 6	M 8
L	mm	14	14	14
D	mm	6	6	6
H	mm	16	16	16
S	mm	14.8	14.8	14.8
Packing unit	pcs	100	100	100



## Accessories

Washers of stainless sheet steel (without thread)



80321/4

80321/6

80321/8

∅ mm

30 x 4.5 x 3

30 x 6.5 x 3

30 x 8.5 x 3

Packing unit pcs

100

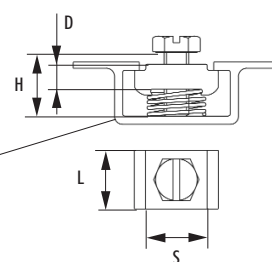
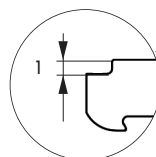
100

100

# Special anchoring studs and washers of galvanized steel for rectangular profiles



- for fastening appliances
- three versions are available:  
with screw, with spring  
without screw, with spring  
without screw, without spring



## Article No.

	M 3	M 4	M 5	M 6	M 8	M 10
with screw, with spring	44420/3	44420/4	44420/5	44420/6	44420/8	44420/10
without screw, with spring	44420/30S	44420/40S	44420/50S	44420/60S	44420/80S	44420/100S
without screw, without spring	44420/30F	44420/40F	44420/50F	44420/60F	44420/80F	44420/100F



## Technical data

	mm	M 3	M 4	M 5	M 6	M 8	M 10
L	mm	14	14	14	14	20	25
D	mm	6	6	6	6	6	6
H	mm	16	16	16	16	16	16
S	mm	14.8	14.8	14.8	14.8	14.8	14.8
Packing unit	pcs	100	100	100	100	100	100



## Accessories

		/	4367M4	4367M5	4367M6	4367M8	4367M10
Washers of galvanized sheet steel (without thread)							
Ø	mm		30 x 4.5 x 3	30 x 5.5 x 3	30 x 6.5 x 3	30 x 8.5 x 3	30 x 10.5 x 3
Packing unit	pcs		100	100	100	100	100

## Note

Switchboard profiles



C30 rails



Slot width 15 mm  
Material thickness over 1 mm

# Components for switchboards and frames

of 3mm galvanized sheet steel  
with slotted hexagonal screws of galvanized steel M6 x 16, spring rings and anchoring studs  
for inserting into profile bar No. 4383



## T-junction piece

Article number	Illustration	Dimension illustration	Technical data
4421			also suitable as knee on switchboards Packing unit: 20 pcs



## Crossing pieces

4422			Packing unit: 20 pcs
4419			Packing unit: 25 pcs



## Knees

4423			Type D Packing unit: 10 pcs
4424			Type E Packing unit: 10 pcs



## Bend

4425			Heavy type, welded, with 4 screws and 2 anchoring plates, length 50 mm Packing unit: 20 pcs
------	--	--	--



Bend

Article number	Illustration	Dimension illustration	Technical data
4426			Lighter type, with 2 screws Packing unit: 25 pcs



Junction piece for mounting rails

53511			with anchoring stud and 2 screws Packing unit: 100 pcs
-------	--	--	---



End cover

53509			for lateral closing of rails No. 4383 of 1mm galvanized sheet steel Packing unit: 1 pcs
-------	--	--	---

--	--	--	--

--	--	--	--

--	--	--	--

--	--	--	--

--	--	--	--

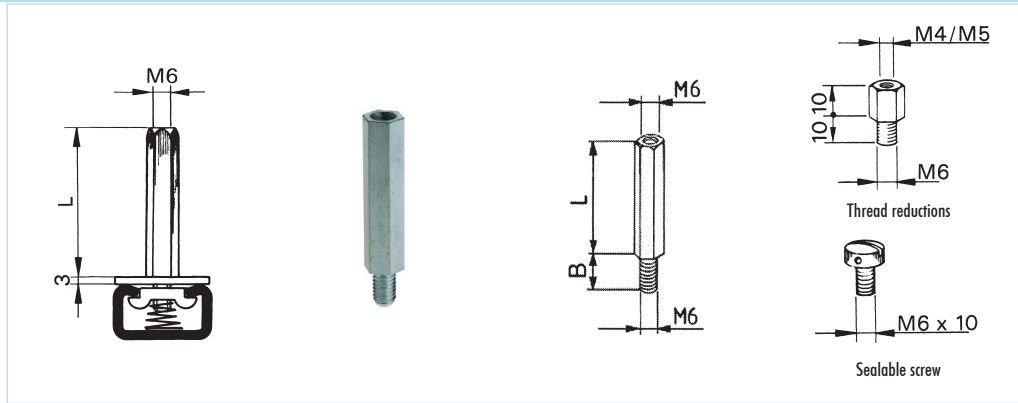
--	--	--	--

# Hexagon bolt M6

## of galvanized steel



- with inside thread M6
- with outside thread M6
- for screwing into anchoring stud No. 4420/60S + washer No. 4367M6 or for screwing on profile bars No. 4382, 4383 and 80291



### Article numbers

Hexagon bolt  
galvanized

4441/10

4441/20

4441/30

4441/40

4441/50

4441/60



### Technical data

inside thread length L

mm

5

8

10

10

10

10

outside thread length B

mm

8

8

10

10

10

10

Packing unit

pcs

100

100

100

100

100

100



### Article numbers

Hexagon bolt  
galvanized

4441/70

4441/80

4441/90



### Technical data

inside thread length L

mm

10

10

10

outside thread length B

mm

10

10

10

Packing unit

pcs

100

100

100



### Accessories

Thread  
reductions



inside M4 / outside M6

inside thread length 8.5 mm

outside thread length 10 mm

Packing unit

pcs

4446

100

inside M5 / outside M6

inside thread length 8.5 mm

outside thread length 10 mm

Packing unit

pcs

4447

100

Sealable  
screw M6x10



of nickel-plated brass

Packing unit

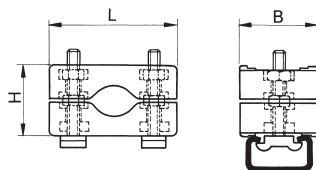
pcs

4445

100



- of shock-proof thermosetting plastic, black
- for inserting into profile bars No. 4382 and 4383
- with threaded bolt of galvanized steel
- with welded anchoring stud



## Article numbers

for 1 cable

4398

4399

4398A

4399A

for 2 cables, superposed



## Technical data

Cable $\varnothing$	mm	22-31	32-49	22-31	32-49
B	mm	38	38	38	38
L	mm	70	90	70	90
H	mm	43	63	86	126
Threaded bolt		M6x50	M8x70	M6x110	M8x130
Packing unit	pcs	25	15	15	25



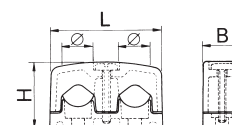
- of shock-proof thermosetting plastic, black
- for screwing on



4283ZA



4372ZA



4372ZA



## Article numbers

for 1 cable

4282ZA

4283ZA

4378ZA

4379ZA

4380ZA

for 2 cables, side by side

4372ZA



## Technical data

Fastening screws for upper part		1	1	1	2	2	2
Cable $\varnothing$	mm	7-10	7-10	9-12	8-16	18-26	24-42
B	mm	12	12	13	16	20	22
L	mm	24	34	26	40	50	66
H	mm	18	20	20	28	40	51
Packing unit	pcs	100	100	100	50	50	25

# Cable bushing



- bushings with cover
- of highly shock-proof plastic
- for connecting cables with plug of tabletop units, such as calculators, letter-opening machines, franking machines, copying machines, fans, desk lamps, etc.



## Article numbers

slate grey RAL 7015

80301

light ivory RAL 1015

80302



## Technical data

Packing unit

pcs

25

25

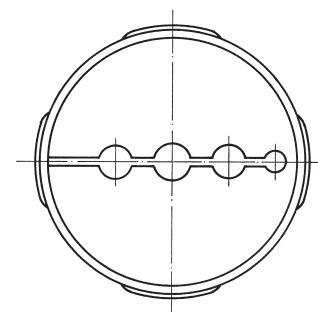
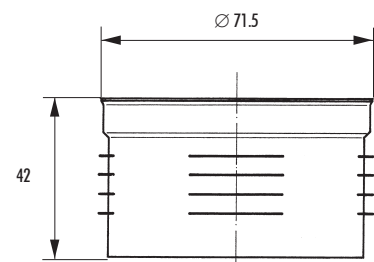


## Accessories

### Procedure

Mill hole with diameter of 70 mm into core board of desk or slab of bank or postal-office counter. Press the self-wedging plastic collar of the bushing into the 70mm hole. Put the connecting cables with the plugs down through the collar.

Snap on the cover, which has three apertures for cables with a diameter of ca. 10 mm.

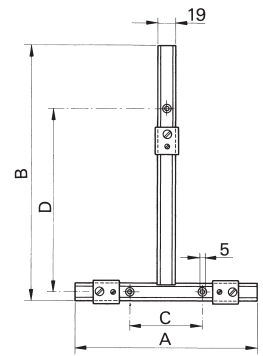
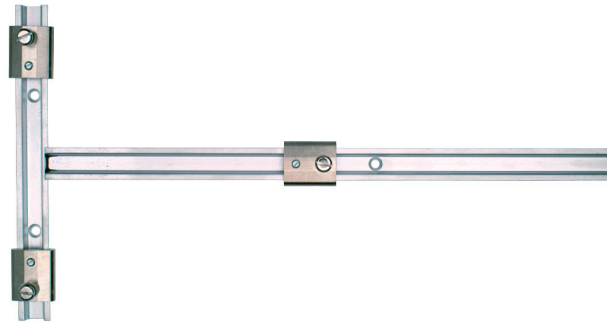




# Supports for electric meters of aluminium profile



- for fastening with countersunk screws M5
- with 1 vertical adjustable sliding clamp, 30mm long, of nickel-plated brass, with 1 stud bolt M5 and 1 rounded head screw M5
- with 2 horizontal adjustable sliding clamps, 30mm long, of nickel-plated brass, with 1 stud bolt M5, 1 rounded head screw M5 and 1 spacer sleeve, 5.5mm long
- for fastening counters, clock timers, etc.



## Article numbers

41760

41761

41764

41765



## Technical data

	mm	41760	41761	41764	41765
A	mm	185	200	225	225
B	mm	350	280	315	375
C	mm	80	80	210	210
D	mm	200	200	280	340
Packing unit	pcs	50	50	25	25



## Accessories

Adjustable sliding clamp vertical, 30 mm long, of nickel-plated brass with 1 stud bolt M5, 1 rounded head screw M5



Packing unit pcs

41763

without spacer sleeve

50

Adjustable sliding clamp horizontal, 30 mm long, of nickel-plated brass with 1 stud bolt M5, 1 rounded head screw M5 and 1 spacer sleeve, 5.5 mm long



Packing unit pcs

41763

50

Aluminium profile  
Art. No. 4050A of which the supports for electric meters are made, see leaflet "Screw terminals", page 1.1.134

# Rigid marking strips



- of aluminium profile
- with threaded, white cardboard and threaded, transparent cellophane strip
- without lateral end pieces



4075/1L



## Article numbers

with fastening holes 3.5mm  $\varnothing$   
each 50mm

4075/1L



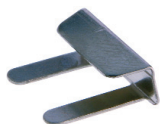
## Technical data

Length	mm	1000
Total width	mm	17
Width of window	mm	12
Packing unit	pcs	25



## Accessories

End piece  
of aluminium



4076

Packing unit      pcs

100

## Torques of cable fixing brackets of aluminium alloy

### Cable fixing brackets SVE C-30 with bases UE C-30

Art. No.	Diameter range mm	TT single conductor cable	Torque Nm
4350	8-12	35 mm <sup>2</sup>	1.4
4351	12-16	70 mm <sup>2</sup>	1.6
4352	16-20	120 mm <sup>2</sup>	1.6
4353	20-25	185 mm <sup>2</sup>	1.8
4354	25-32	300 mm <sup>2</sup>	1.8
4355	32-40	500 mm <sup>2</sup>	2.3
4356	40-48	630 mm <sup>2</sup>	2.5
4357	48-56	Alu-Sekt. Leiter-Kabel	2.8

### Cable fixing brackets SVE C-30 with bases UE C-30

Art. No.	Diameter range mm	TT multi-conductor cable	Torque Nm
4350	8-12	5 x 4 mm <sup>2</sup>	1.4
4351	12-16	5 x 6 mm <sup>2</sup>	1.5
4352	16-20	5 x 10 mm <sup>2</sup>	1.5
4353	20-25	5 x 16 mm <sup>2</sup>	1.5
4354	25-32	5 x 25 mm <sup>2</sup>	1.5
4355	32-40	5 x 50 mm <sup>2</sup>	1.9
4356	40-48	5 x 95 mm <sup>2</sup>	2.1
4357	48-56	5 x 120 mm <sup>2</sup>	2.3
4357/1	56-64	5 x 150 mm <sup>2</sup>	2.3

### Triangular cable fixing brackets SVD C-30 with bases UE C-30

Art. No.	Diameter range mm	TT single conductor cable	Torque Nm
4331	3 x 19	95 mm <sup>2</sup>	2.2
4332	3 x 22	120 mm <sup>2</sup>	2.2
4333	3 x 24	150 mm <sup>2</sup>	2.2
4339	3 x 27	185 mm <sup>2</sup>	2.2
4334	3 x 30	240 mm <sup>2</sup>	2.4
4335	3 x 33	300 mm <sup>2</sup>	2.4
4336	3 x 37	400 mm <sup>2</sup>	2.4
4337	3 x 42	500 mm <sup>2</sup>	2.7
4338	3 x 48	600 mm <sup>2</sup>	2.9

### Cable fixing brackets SVE C-30 without base

Art. No.	Diameter range mm	Duct diameter mm	Torque Nm
4350	8-12	13.5	1.8
4351	12-16	17	2.1
4352	16-20	21.5	2.2
4353	20-25	27	2.4
4354	25-32	34	2.4
4355	32-40	42.5	3
4356	40-48	48.5	3
4357	48-56	-	-
4357/1	56-64	60.5	3
4357/2	64-70	-	-
4358	70-80	76	3
4359	80-90	89	3

