

Interactive PDF

Navigate comfortably and efficiently through our product catalogue!

This is how it works:

You select by one click in our table of contents and you will be guided to it immediately.

To make your journey through our product range as easy as possible, each category window is linked at the edges of the page.

This means that you always have individual access to the different categories at any time.

In addition, the buttons that you can find in the headline give you immediate access to our table of [Content](#) or lead you to your previous page

You are interested in one of our articles would like to order it, need further information, data sheets or installation recommendations?

No problem! You simply click on the picture and you will be immediately redirected to our website and the corresponding article.

URBAN EQUIPMENT

• stop • save • secure **XI**

Web portal

The Schake web portal offers you exclusive information that gives you practical added value. You have everything bundled on our website and can independently retrieve the information you need, such as on product data, stocks and availabilities, current orders or enquiries with us.

Visit our web portal at www.schake.com



Advantages of a customer account

Manage operations

You have the option of ordering the items you need directly via the website or you can use the technical possibilities of the digital connections via EDI. You can also view the status of your orders, so you are always up to date on where your goods are.



Exclusive media data

The Schake web portal gives you the option of calling up and downloading data sheets, assembly instructions and other product information for the products you require. You can use this information to present our products on your marketing channels or use it to answer customer questions.



Current stock levels

The portal allows you to view the current stock levels of the products you need. In this way you can see which products are on stock and thus directly determine the delivery capability.





Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Successful together

Our values determine the standard of our work. The joy of production we owe to our employees and business partners.

Looking back into history, we can see where we have come from and which milestones have been achieved. With an awareness for our environment, we take responsibility. We do all this at Schake together- for over 115 years and in the future.

Corporate Essentials



Passionate and aware of tradition

Many Schake products are installed in Europe's cities and offer citizens safety in road traffic, on footpaths and cycle paths and at construction sites. The terms: stop, save, secure have been lived for decades and are firmly anchored in the further development of the products. In addition Schake produces segments for construction equipment and traffic safety which are of great importance in these industries.



Innovation and flexibility

We deal with new ideas openly and constructively. We learn from and with each other and share our knowledge globally. This enables us to develop new products and services. The Schake brand with „Made in Germany“ also proves its worth for individual solutions for special circumstances.



Quality and sustainability

The product ranges stand for quality. The pursuit of environmentally friendly and socially acceptable solutions is part of the programme. The progressive development of new products is based on reliable employees who share joy in the team and are interested in shaping the company. Concretely defined goals and projects make us a future-oriented company.

Barrier posts



■ Intro

02 - 03

Customer portal
Producer Schake

02
03

Car-park barriers



■ Barrier posts

09 - 56

Barrier posts
Chain posts
Flexible plastic posts
Chains + Accessories

10 - 44
45
46 - 48
49 - 56

Ornamental bollards



■ Car-park barriers

57 - 68

Car-park barriers
Holding device for parking signage
Park and guide barrier
Recycling bollards

58 - 65
66
67
68

Stainless steel



■ Ornamental bollards

69 - 90

Ornamental bollards made of
steel tube Ø 60- 193 mm
Aluminium bollards
Ornamental bollards of square tube

72 - 84
85 - 87
88 - 90

Barrier elements

Barrier gates



■ Stainless steel

91 - 102

Stainless steel barrier posts
Stainless steel bollards
Stainless steel hoops
Corten steel bollards
Lean-on hoops made of corten steel

92 - 95
96 - 97
98 - 100
101
102

Outdoor equipment

Work site protection



i Interactive catalogues:

Quick access to the digital catalogue enables a fast search for the desired items. Simply scan the QR code in the catalogue or visit www.schake.com!

<p>Barrier elements</p> <p>Tubular hoops Access barriers Height restriction barriers Mobile manuel barrier Protective railing City fence / railing</p>	<p>103 - 130</p> <p>104 - 111 112 - 115 116 - 120 121 122 - 127 128 - 130</p>	
<p>Barrier gates</p> <p>Swing barriers Access barriers Manual barriers</p>	<p>131 - 140</p> <p>132 - 135, 140 136 - 137 138 - 139</p>	
<p>Outdoor equipment</p> <p>Scooter racks Bicycle stands / lean-on hoops Bollard luminaires Laundry drying stands Litter bins Planters</p>	<p>141 - 166</p> <p>142 143 - 161 162 163 164 - 165 166</p>	
<p>Work site protection</p> <p>Barrier posts Chain posts / accessories Protective hoops Protective railings Crash guards Warning and protection profiles</p>	<p>167 - 197</p> <p>168 - 179 180 - 181 182 - 188 189 - 192 193 - 196 197</p>	
<p>Outro</p> <p>Point of sale Index Individual design products General terms and conditions</p>	<p>198 - 203</p> <p>198 - 199 200 - 201 202 203</p>	

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

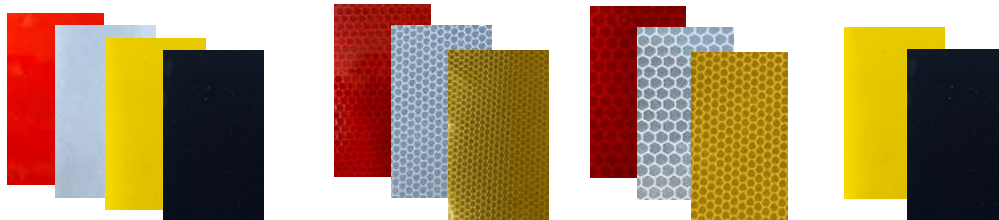
Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts



Car-park barriers

class of reflection				
Type	RA1/A	RA2/B	RA2/C	non reflective

Ornamental bollards

Film 100 mm x 200 mm for tube Ø 60 mm				
red	430.19RRA1	430.19RRA2B	430.19RRA2C	
white	430.19WRA1	430.19WRA2B	430.19WRA2C	
yellow	430.19GRA1	430.19GRA2B	430.19GRA2C	430.19G
black	430.19SRA1			430.19S

Stainless steel

Film 110 mm x 285 mm for tube Ø 89 mm / square tube 70 x 70 mm				
red	430.18RRA1	430.18RRA2B	430.18RRA2C	
white	430.18WRA1	430.18WRA2B	430.18WRA2C	
yellow	430.18GRA1	430.18GRA2B	430.18GRA2C	430.18G
black	430.18SRA1			430.18S

Barrier elements

Film 110 mm x 330 mm for tube Ø 102 mm				
red	430.182RRA1	430.182RRA2B	430.182RRA2C	
white	430.182WRA1	430.182WRA2B	430.182WRA2C	
yellow	430.182GRA1	430.182GRA2B	430.182GRA2C	430.182G
black	430.182SRA1			430.182S

Barrier gates

Film 110 mm x 350 mm for tube Ø 108 mm				
red	430.183RRA1	430.183RRA2B	430.183RRA2C	
white	430.183WRA1	430.183WRA2B	430.183WRA2C	
yellow	430.183GRA1	430.183GRA2B	430.183GRA2C	430.183G
black	430.183SRA1			430.183S

Outdoor equipment

Film 110 mm x 500 mm for tube Ø 152 mm / square tube 100 x 100 mm				
red	430.184RRA1	430.184RRA2B	430.184RRA2C	
white	430.184WRA1	430.184WRA2B	430.184WRA2C	
yellow	430.184GRA1	430.184GRA2B	430.184GRA2C	430.184G
black	430.184SRA1			430.184S

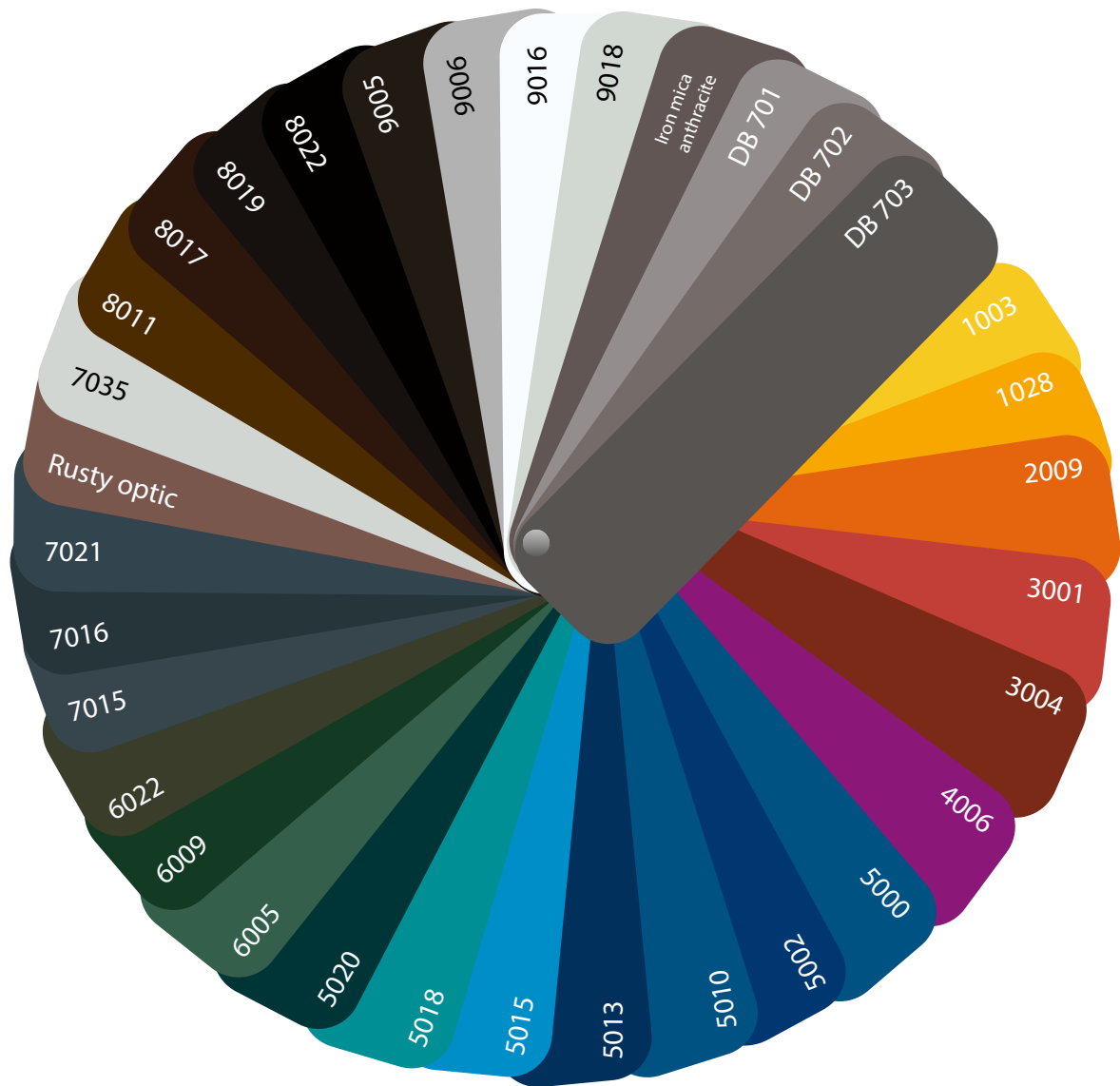
Work site protection


Film 110 mm x 620 mm for tube Ø 193 mm				
red	430.186RRA1	430.186RRA2B	430.186RRA2C	
white	430.186WRA1	430.186WRA2B	430.186WRA2C	
yellow	430.186GRA1	430.186GRA2B	430.186GRA2C	430.186G
black	430.186SRA1			430.186S

Film 110 mm x 890 mm for tube Ø 275 mm				
red	430.187RRA1	430.187RRA2B	430.187RRA2C	
white	430.187WRA1	430.187WRA2B	430.187WRA2C	
yellow	430.187GRA1	430.187GRA2B	430.187GRA2C	430.187G
black	430.187SRA1			430.187S

If not otherwise mentioned, we use following film for our posts:

color: red	RA1/A
white	RA1/A
yellow	non reflective
black	non reflective



 The information is non-binding with regard to color and brilliance. It is for the purpose of giving you an impression of the coatings we supply

Also available in fine texture:
RAL 7016, DB 702, DB 703 (non-stick coating)

Two-colored:
White coated with red reflecting stripes
Yellow coated with black stripes
Other RAL colors and special paint finishes on request.

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Suggestion for mounting

casting in concrete of posts or ground sockets

1.

Excavation for concrete basis

Size: Diameter/profile of post or ground socket + approx. 300 mm

Depth: Length of height below ground of post or ground socket + approx. 100 mm

2.

Gravel fill (drainage)
(for removable posts)

3.

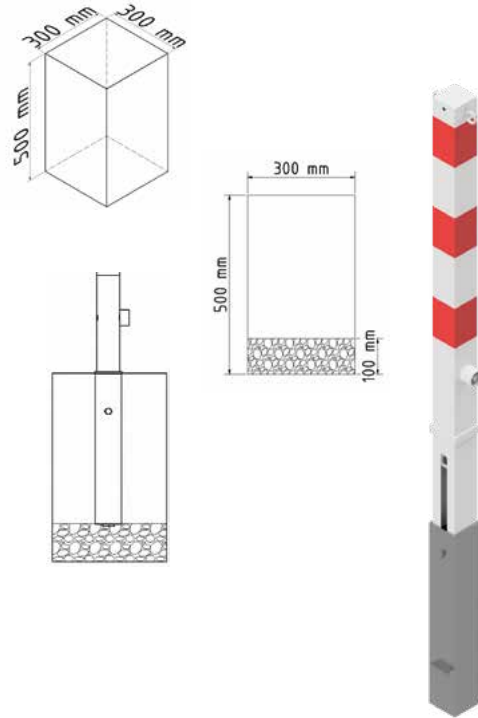
Post and socket are put central in basis hole
top edge ground socket same as top edge ground

4.

Fill with concrete, adjust perpendicular with air level and smooth by trowel.

5.

Hardening and prove locking



Eyelets for chains

Eyelets

inner diameter \varnothing 20 mm, outer diameter \varnothing 35 mm

Position of eyelets

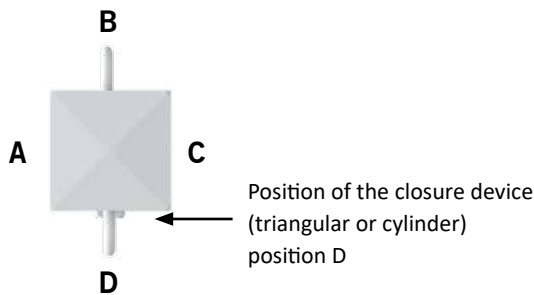
standard positions:

barrier post with 1 eyelet: position D

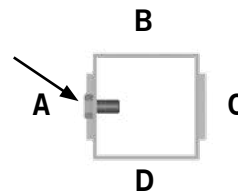
barrier post with 2 eyelets: position D + B



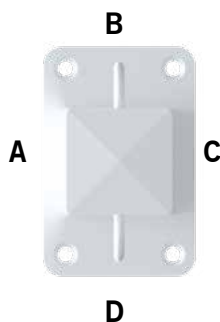
Posts removable



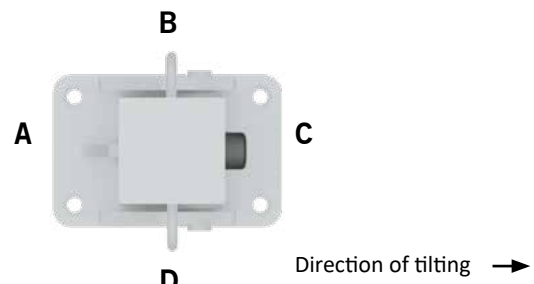
Adjustment of post in ground socket position A



Stationary posts with base plate



Posts foldable



Barrier posts

Barrier posts
Chain posts
Flexible plastic posts
Chains + Accessories



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Symbols

basically, barrier posts are hot-dip galvanized according to EN ISO 1461.
Ornamental bollards are made of quality aluminium or hot-dip galvanized steel.

- B = Coated (white with red reflecting stripes or other color finish)
- D = Top inner triangular lock acc. to DIN 3223
- F = Fire brigade triangular lock acc. to DIN 3223
- H = Ground socket
- P = Ground anchor plate for plugging down
- U = Foldable
- V = Prepared for padlock
- Z = Euro profile cylinder lock
- +1 = 1 eyelet +2 = 2 eyelets

		Diameter in mm										Square in mm		
Standard version		42	60	76	89	102	108	152	193	273	323	70x70	100x100	
Stationary for casting in concrete	catalogue page	11	12	17	21	22	23	24	26	28	29	32	43	
Stationary for plugging down		11	12	17	21	22	23	24	26	28	29	32	43	
Removable with triangular locking mechanism			13	18	21	22	23	25	26	28	29	32	43	
Removable with Euro profile cylinder lock			13	18	21	22	23	25				35	43	
Foldable with triangular locking system			14	19								34		
Foldable with Euro profile cylinder lock			14	19								35		
Special versions														
Stationary to drive in	catalogue page	11												
Stationary tiltable				20					29					
Fire brigade guide post stationary			16											
Removable without locking system			16						25	27				
Removable for padlock			15											
Removable with top inside triangular locking mechanism													36	
Foldable with top inside triangular locking mechanism													36	
Foldable with lifting and tilting mechanism													39	
Foldable 500 mm above ground													42	
Foldable for padlock				15									38	
Foldable and removable													38	
Removable with 8 mm triangular lock													41	
With triangular lock and Euro profile cylinder													37	
Fully retractable													40	

Similar products: see rubric ornamental posts, stainless steel posts, work site protection (yellow/black)

Barrier post of steel tube \varnothing 42 mm

Barrier posts
 steel tube \varnothing 42 x 2.5 mm
 with plastic cap
 900 mm above ground



4042B/2



4042PB/2



4042EB/2

A light-weight version from our range of barrier posts for private users.

Stationary, for casting in concrete
 total length: 1300 mm

		Kg	Part-No.
hot-dip galvanized	without eyelet	2.3 A	4042
	with 1 eyelet	2.3 A	4042/1
	with 2 eyelets	2.3 A	4042/2
hot-dip galvanized and white coated with red reflecting stripe	without eyelet	2.3 A	4042B
	with 1 eyelet	2.3 A	4042B/1
	with 2 eyelets	2.3 A	4042B/2

Stationary, to be fixed by plugs
 with base plate 70 x 120 mm
 and two holes for bolts

hot-dip galvanized	without eyelet	2.8 A	4042P
	with 1 eyelet	2.8 A	4042P/1
	with 2 eyelets	2.8 A	4042P/2
hot-dip galvanized and white coated with red reflecting stripe	without eyelet	2.8 A	4042PB
	with 1 eyelet	2.8 A	4042PB/1
	with 2 eyelets	2.8 A	4042PB/2

Stationary, drive-in
 with drive-in tip
 total length: 1300 mm

hot-dip galvanized	without eyelet	2.2 A	4042E
	with 1 eyelet	2.2 A	4042E/1
	with 2 eyelets	2.2 A	4042E/2
hot-dip galvanized and white coated with red reflecting stripe	without eyelet	2.2 A	4042EB
	with 1 eyelet	2.2 A	4042EB/1
	with 2 eyelets	2.2 A	4042EB/2

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts

This barrier or chain post can be used as a boundary post for pedestrian areas, parking lots, roads, safety zones etc.

Car-park barriers

Barrier posts

steel tube Ø 60 x 2.5 mm with welded steel cap 900 mm above ground



Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



460B/2

Stationary, for casting in concrete
with ground anchor
total length: 1300 mm


hot-dip galvanized

	Kg	Part-No.
without eyelet	4.9 A	460
with 1 eyelet	4.9 A	460/1
with 2 eyelets	4.9 A	460/2


hot-dip galvanized and white coated
with three red reflecting stripes

without eyelet	4.9 A	460B
with 1 eyelet	4.9 A	460B/1
with 2 eyelets	4.9 A	460B/2





Suitable mounting material for this product:
set of mounting bolts type 1
Part-No.
470.71



Further accessories pages 49-56



460PB



Stationary, to be fixed by plugs
with base plate 100 x 150 mm

hot-dip galvanized

without eyelet	4.0 A	460P
with 1 eyelet	4.0 A	460P/1
with 2 eyelets	4.0 A	460P/2


hot-dip galvanized and white coated
with three red reflecting stripes

without eyelet	4.0 A	460PB
with 1 eyelet	4.0 A	460PB/1
with 2 eyelets	4.0 A	460PB/2

Also available in yellow/black, see work site protection pages 168 ff.

Other color finishes possible;
see page 7



Barrier post of steel tube \varnothing 60 mm

The stable locking and the easy handling grant a fast release of the barricade

Barrier posts

steel tube \varnothing 60 x 2.5 mm
with welded steel cap
900 mm above ground



460FB

Removable, with triangular locking mechanism

acc. to DIN 3223, self-engaging lock, with ground socket
part-no. 460.40, approx. 400 mm below ground

		Kg	Part-No.
hot-dip galvanized	without eyelet	6.4 A	460F
	with 1 eyelet	6.4 A	460F/1
	with 2 eyelets	6.4 A	460F/2
hot-dip galvanized and white coated with three red reflecting stripes	without eyelet	6.4 A	460FB
	with 1 eyelet	6.4 A	460FB/1
	with 2 eyelets	6.4 A	460FB/2



460ZB

Removable, with Euro profile cylinder lock

three keys, self-engaging lock, with ground socket
part-no. 460.40, approx. 400 mm below ground

hot-dip galvanized	8.1 A	460Z
hot-dip galvanized and white coated with three red reflecting stripes	8.1 A	460ZB



Posts can be delivered simultaneously locking or in a locking system; see page 49



Accessories see pages 49-56



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts

steel tube Ø 60 x 2.5 mm
with welded steel cap
900 mm above ground



460FUB 470.60

Foldable, with triangular locking mechanism
acc. to DIN 3223, self-engaging lock

To be fixed by plugs
with base plate 100 x 150 mm

hot-dip galvanized Kg Part-No.
5.6 A 460FU

hot-dip galvanized and white coated
with three red reflecting stripes
5.6 A 460FUB

For casting in concrete
with ground socket part-no. 470.60
approx. 400 mm below ground

hot-dip galvanized 7.9 A 460FUH

hot-dip galvanized and white coated
with three red reflecting stripes
7.9 A 460FUHB

Foldable, with Euro profile cylinder lock
three keys, self-engaging lock

To be fixed by plugs
with base plate 100 x 150 mm

hot-dip galvanized 5.8 A 460UZ

hot-dip galvanized and white coated
with three red reflecting stripes
5.8 A 460UZB

For casting in concrete
with ground socket part-no. 470.60
approx. 400 mm below ground

hot-dip galvanized 8.1 A 460UZH

hot-dip galvanized and white coated
with three red reflecting stripes
8.1 A 460UZH B



460UZB 470.60



Barrier posts also available with eyelets - add the following to the part-no.: +1 for one eyelet or +2 for 2 eyelets; accessories see page 56. Posts can be delivered simultaneously locking or in a locking system; see page 49



Barrier posts

steel tube \varnothing 60 x 2.5 mm
with welded steel cap
900 mm above ground



460VB



460UVB

470.60

Removable, for padlock

lockable, with ground socket part-no. 460.60
approx. 400 mm below ground

hot-dip galvanized

without eyelet

Kg

Part-No.

7.0 ^A

460V

with 1 eyelet

7.0 ^A

460V/1

with 2 eyelets

7.0 ^A

460V/2

hot-dip galvanized and white coated
with three red reflecting stripes

without eyelet

7.0 ^A

460VB

with 1 eyelet

7.0 ^A

460VB/1

with 2 eyelets

7.0 ^A

460VB/2

Foldable, for padlock

self-engaging lock

To be fixed by plugs

with base plate 100 x 150 mm

hot-dip galvanized

6.5 ^A

460UV

hot-dip galvanized and white coated
with three red reflecting stripes

6.5 ^A

460UVB

For casting in concrete

with ground socket part-no. 470.60
approx. 400 mm below ground

hot-dip galvanized

8.7 ^A

460UVH

hot-dip galvanized and white coated
with three red reflecting stripes

8.7 ^A

460UVHB



Suitable mounting material for this product:
set of mounting bolts type 1

Part-No.

470.71

Further accessories pages 49-56



Barrier posts

steel tube \varnothing 60 x 2.5 mm
with welded steel cap
900 mm above ground



460HB

Removable, without locking mechanism

with ground socket part-no. 460.10 approx. 400 mm below ground

hot-dip galvanized

without eyelet

Kg

Part-No.

6.8

A

460H

with 1 eyelet

6.8

A

460H/1

with 2 eyelets

6.8

A

460H/2

hot-dip galvanized and white coated
with three red reflecting stripes

without eyelet

6.8

A

460HB

with 1 eyelet

6.8

A

460HB/1

with 2 eyelets

6.8

A

460HB/2

Fire brigade guide posts

steel tube \varnothing 60 x 2.5 mm
500 mm above ground

Stationary, for casting in concrete

with ground anchor

total length: 900 mm

hot-dip galvanized and white coated
with approx. 100 mm black head end

2.8

A

4061B



4061B



Barrier posts
steel tube \varnothing 76 x 2.6 mm
with welded steel cap
900 mm above ground



476B

Stationary, for casting in concrete
with ground anchor
total length: 1400 mm

hot-dip galvanized

	Kg	Part-No.
without eyelet	7.0 A	476
with 1 eyelet	7.0 A	476/1
with 2 eyelets	7.0 A	476/2

hot-dip galvanized and white coated
with three red reflecting stripes

without eyelet	7.0 A	476B
with 1 eyelet	7.0 A	476B/1
with 2 eyelets	7.0 A	476B/2



476PB

Stationary, to be fixed by plugs
with base plate 100 x 150 mm
total length: 900 mm

hot-dip galvanized

without eyelet	5.1 A	476P
with 1 eyelet	5.1 A	476P/1
with 2 eyelets	5.1 A	476P/2

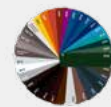
hot-dip galvanized and white coated
with three red reflecting stripes

without eyelet	5.1 A	476PB
with 1 eyelet	5.1 A	476PB/1
with 2 eyelets	5.1 A	476PB/2



Also available in yellow/black, see work site protection page 168

Other color finishes possible;
see page 7



**Barrier posts**

steel tube \varnothing 76 x 2.6 mm
with welded steel cap
900 mm above ground



476FB

Removable, with triangular locking mechanism

acc. to DIN 3223, self-engaging lock, with ground
socket part-no. 476.40, approx. 400 mm below ground

hot-dip galvanized

Kg

Part-No.

12.0 A

476F

hot-dip galvanized and white coated
with three red reflecting stripes

12.0 A

476FB



476ZB

Removable, with Euro profile cylinder lock

three keys, self-engaging lock, with ground
socket part-no. 476.40, approx. 400 mm below ground

hot-dip galvanized

12.0 A

476Z

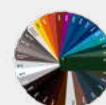
hot-dip galvanized and white coated
with three red reflecting stripes

12.0 A

476ZB



Other color finishes possible;
see page 7



Barrier posts also available with eyelets - add the following to the
part-no.: +1 for one eyelet or +2 for 2 eyelets; accessories see page 56.
Posts can be delivered simultaneously locking or in a locking system;
see page 49



Barrier posts
steel tube \varnothing 76 x 2.6 mm
with welded steel cap
900 mm above ground



476FUB 470.60

Foldable, with triangular locking mechanism
acc. to DIN 3223, self-engaging lock

To be fixed by plugs
with base plate 100 x 150 mm

hot-dip galvanized

Kg Part-No.

6.8 ^A 476FU

hot-dip galvanized and white coated
with three red reflecting stripes

6.8 ^A 476FUB

For casting in concrete
with ground socket part-no. 470.60
approx. 400 mm below ground

hot-dip galvanized

9.2 ^A 476FUH

hot-dip galvanized and white coated
with three red reflecting stripes

9.2 ^A 476FUHB



476UZB 470.60

Foldable, with Euro profile cylinder lock
three keys, self-engaging lock

To be fixed by plugs
with base plate 100 x 150 mm

hot-dip galvanized

8.6 ^A 476UZ

hot-dip galvanized and white coated
with three red reflecting stripes

8.6 ^A 476UZB

For casting in concrete
with ground socket part-no. 470.60
approx. 400 mm below ground

hot-dip galvanized

10.9 ^A 476UZH

hot-dip galvanized and white coated
with three red reflecting stripes

10.9 ^A 476UZHB

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts

steel tube Ø 76 x 2.6 mm
with welded steel cap
900 mm above ground



4076PB

Stationary, can be tilted 30° to all sides
with base plate 100 x 150 mm
for plugging down or
for fixing to ground socket part-no. 470.60

hot-dip galvanized

Kg

Part-No.

5.9 ^A

4076P

hot-dip galvanized and white coated
with three red reflecting stripes

5.9 ^A

4076PB



Suitable mounting material for this product:

set of mounting bolts type 1

Part-No.

470.71



470.60

Ground socket for casting in concrete
(order together with the barrier post if you want
to cast in concrete)

2.3 ^A

470.60



Barrier posts also available with eyelets - add the following to the part-no.: +1 for one eyelet or +2 for 2 eyelets; accessories see page 49-56

Other color finishes possible; see page 7



Barrier posts

steel tube \varnothing 89 x 2.9 mm
with welded steel cap
900 mm above ground



Stationary, for casting in concrete
with ground anchor, total length:
approx. 1300 mm

hot-dip galvanized

Kg

Part-No.

8.8 ^A

489

hot-dip galvanized and white coated
with three red reflecting stripes

8.8 ^A

489B

To be fixed by plugs,
with base plate 100 x 150 mm

hot-dip galvanized

6.7 ^A

489P

hot-dip galvanized and white coated
with three red reflecting stripes

6.7 ^A

489PB

Removable, self-engaging lock, with hot-dip galvanized
ground socket part-no. 470.10, approx. 500 mm below ground

with triangular locking mechanism acc. to DIN 3223

hot-dip galvanized

12.5 ^A

489F

hot-dip galvanized and white coated
with three red reflecting stripes

12.5 ^A

489FB

with profile cylinder lock, three keys incl.

hot-dip galvanized

11.8 ^A

489Z

hot-dip galvanized and white coated
with three red reflecting stripes

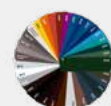
11.8 ^A

489ZB



Also available in yellow/black, see work site protection pages 168 ff.

Other color finishes possible;
see page 7



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts
steel tube Ø 102 x 2.9 mm
with welded steel cap
900 mm above ground



Stationary, for casting in concrete
with ground anchor
total length: approx. 1300 mm

hot-dip galvanized

Kg

Part-No.

9.5 A

491

hot-dip galvanized and white coated
with three red reflecting stripes

9.5 A

491B

Stationary, to be fixed by plugs
with base plate 200 x 200 mm

hot-dip galvanized

9.4 A

491P

hot-dip galvanized and white coated
with three red reflecting stripes

9.4 A

491PB

Removable, self-engaging lock, with hot-dip galvanized
ground socket part-no. 470.10, approx. 500 mm below ground

with triangular locking mechanism acc. to DIN 3223

hot-dip galvanized

14.9 A

491F

hot-dip galvanized and white coated
with three red reflecting stripes

14.9 A

491FB

with profile cylinder lock, three keys incl.

hot-dip galvanized

12.8 A

491Z

hot-dip galvanized and white coated
with three red reflecting stripes

12.8 A

491ZB



Barrier posts also available with eyelets; see page 56

Barrier posts

steel tube \varnothing 108 x 2.9 mm
with welded steel cap
900 mm above ground



Stationary, for casting in concrete
with ground anchor
total length: approx. 1300 mm

hot-dip galvanized

Kg

Part-No.

11.0 ^A

493

hot-dip galvanized and white coated
with three red reflecting stripes

11.0 ^A

493B

Stationary, to be fixed by plugs
with base plate 200 x 200 mm

hot-dip galvanized

11.0 ^A

493P

hot-dip galvanized and white coated
with three red reflecting stripes

11.0 ^A

493PB

Removable, self-engaging lock, with hot-dip galvanized
ground socket part-no. 470.10, approx. 500 mm below ground

with triangular locking mechanism acc. to DIN 3223

hot-dip galvanized

14.0 ^A

493F

hot-dip galvanized and white coated
with three red reflecting stripes

14.0 ^A

493FB

with profile cylinder lock, three keys incl.

hot-dip galvanized

13.2 ^A

493Z

hot-dip galvanized and white coated
with three red reflecting stripes

13.2 ^A

493ZB



Other color finishes possible; see page 7





40151B

Steel tube bollards \varnothing 152 x 3.2 mm with welded steel cap

Stationary, for casting in concrete

	Total length in mm	1200	1500	2000
hot-dip galvanized	Kg	13.3 ^A	16.5 ^B	21.9 ^B
	Part-No.	40150	40151	40152
hot-dip galvanized and white coated with three red reflecting stripes	Part-No.	40150B	40151B	40152B

Removable caps for filling bollards with concrete



Steel cap for bolting
Replaces welded steel cap

Add letter **L** to the Part-No.

Steel cap with concrete anchor
Replaces welded steel cap

Add letter **A** to the Part-No.

40153B

Steel tube bollards \varnothing 152 x 3.2 mm with welded steel cap

For plugging down, with base plate 220 x 220 mm

	Total length in mm	1000
hot-dip galvanized	Kg	13.9 ^A
	Part-No.	40153
hot-dip galvanized and white coated with three red reflecting stripes	Part-No.	40153B



Suitable fastening material for this product:

Set of mounting bolts type 2

Part-No.

470.72

Further accessories see page 49

Steel tube bollards removable
for temporary remove



40151HB

Steel tube bollards \varnothing 152 x 3.2 mm

with welded steel cap,
including ground socket part-no. 40151.10
approx. 500 mm below ground

hot-dip galvanized

hot-dip galvanized and white coated
with three red reflecting stripes

Removable, without locking mechanism

Total length in mm	1500	2000
---------------------------	-------------	-------------

Kg	26.0 ^B	32.0 ^B
Part-No.	40151H	40152H

Part-No.	40151HB	40152HB
-----------------	---------	---------

Steel tube bollards \varnothing 152 x 3.2 mm

with welded steel cap,
height above ground: 1000 mm
including ground socket part-no. 470.10
approx. 500 mm below ground

hot-dip galvanized

hot-dip galvanized and white coated
with three red reflecting stripes

hot-dip galvanized

hot-dip galvanized and white coated
with three red reflecting stripes

Removable, with triangular lock

Kg	20.1 ^B
Part-No.	40151F

Part-No.	40151FB
-----------------	---------

Removable, with Euro profile cylinder lock
three keys

Kg	17.5 ^B
Part-No.	40151Z

Part-No.	40151ZB
-----------------	---------

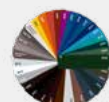


40151FB



Also available in yellow/black, see work site protection pages 172

Other color finishes possible;
see page 7



Barrier posts

These heavy bollards can be used as crash guard, particularly in front of entrances, halls, service stations, etc. They can also protect roof overhangs or serve as guiding bollard in front of ramps, gates, etc.

Car-park barriers



Ornamental bollards



40191B

Stainless steel

Steel tube bollards Ø 193 x 3.6 mm
with welded steel cap

Stationary, for casting in concrete

hot-dip galvanized

Total length in mm	1200	1500	2000
Kg	20.9 ^A	26.0 ^B	34.4 ^B
Part-No.	40190	40191	40192

hot-dip galvanized and white coated
with three red reflecting stripes

Part-No.	40190B	40191B	40192B
-----------------	--------	--------	--------

Barrier elements

Removable caps for filling bollards with concrete



Steel cap for bolting
Replaces welded steel cap

Add letter **L** to the Part-No.



Steel cap with concrete anchor
Replaces welded steel cap

Add letter **A** to the Part-No.

Barrier gates



40193B

Outdoor equipment

Steel tube bollards Ø 193 x 3.6 mm
with welded steel cap

For plugging down, with base plate 360 x 360 mm

hot-dip galvanized

Total length in mm	1000
Kg	23.6 ^A
Part-No.	40193

hot-dip galvanized and white coated
with three red reflecting stripes

Part-No.	40193B
-----------------	--------

Work site protection



Suitable fastening material for this product:

Set of mounting bolts type 2

Part-No.

470.72

Further accessories see page 49

Steel tube bollards removable for temporary remove



40191HB

Steel tube bollard \varnothing 193 x 3.6 mm

with welded steel cap, including ground socket part-no. 40191.10 approx. 500 mm below ground

hot-dip galvanized

hot-dip galvanized and white coated with three red reflecting stripes

Removable, without locking mechanism

Total length in mm	1500	2000
Kg	38.0 ^B	50.0 ^B
Part-No.	40191H	40192H

Part-No.	40191HB	40192HB
-----------------	---------	---------



40191FB

Steel tube bollard \varnothing 193 x 3.6 mm

with welded steel cap, height above ground: 1000 mm including ground socket part-no. 470.10 approx. 500 mm below ground

hot-dip galvanized

hot-dip galvanized and white coated with three red reflecting stripes

Removable, with triangular lock

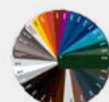
Kg	27.6 ^B
Part-No.	40191F

Part-No.	40191FB
-----------------	---------



Also available in yellow/black, see work site protection page 174

Other color finishes possible; see page 7





40271

Steel tube bollards \varnothing 273 x 5.0 mm with welded steel cap

Stationary, for casting in concrete

hot-dip galvanized

Total length in mm	1500	2000
Kg	51.1 ^B	67.6 ^B
Part-No.	40271	40272
Part-No.	40271B	40272B

hot-dip galvanized and white coated
with three red reflecting stripes

Removable caps for filling bollards with concrete



Steel cap with concrete anchor
Replaces welded steel cap

Add letter **A** to the Part-No.

40273B

Steel tube bollards \varnothing 273 x 5.0 mm with welded steel cap

Stationary, for casting in concrete
with base plate 360 x 360 mm

hot-dip galvanized

Total length in mm	1500
Kg	58.9 ^B
Part-No.	40273
Part-No.	40273B

hot-dip galvanized and white coated
with three red reflecting stripes

Suitable fastening material for this product:
Set of mounting bolts type 2

Part-No.
470.72

Further accessories see page 49

Steel tube bollard \varnothing 323 mm

These heavy bollards can be used as crash guard, particularly in front of entrances, halls, service stations, etc. They can also protect roof overhangs or serve as guiding bollard in front of ramps, gates, etc.



40321B

Steel tube bollards \varnothing 323 x 5.0 mm with welded steel cap

Stationary, for casting in concrete

hot-dip galvanized

Total length in mm	1500	2000	2400
Kg	60.0 ^B	80.5 ^B	96.0 ^B
Part-No.	40321	40322	40324

hot-dip galvanized and white coated with three red reflecting stripes

Part-No.	40321B	40322B	40324B
----------	--------	--------	--------

Removable caps for filling bollards with concrete



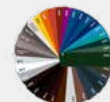
Steel cap with concrete anchor
Replaces welded steel cap

Add letter **A** to the Part-No.



Also available in yellow/black, see work site protection page 177

Other color finishes possible; see page 7



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Steel tube bollard \varnothing 152 x 3.2 mm
with welded steel cap,
tiltable

stationary, for plugging down

Total length in mm **1000** **1500**

Kg 30.0 ^A 35.3 ^B

Part-No. 401530N 401535N

hot-dip galvanized

hot-dip galvanized and white coated
with three red reflecting stripes

Part-No. 401530NB 401535NB



401530NB



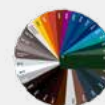
This tiltable steel tube bollard is suitable for high pressure and comes back to start position after pressure release

For protecting buildings and to minimize damages on cars



These posts are available in yellow/black, see section work site protection page 178

Other color finishes possible; see page 7





Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Protective bollard for battery charging station

stationary, for casting in concrete with ground anchor
height above ground: 900 mm



hot-dip galvanized and white coated with three red reflective strips

	Kg	Part-No.
Ø 76 mm	7.0 ^A	476B
Ø 89 mm	8.8 ^A	489B
Ø 102 mm	9.5 ^A	491B

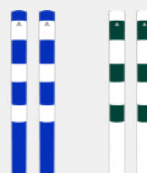


hot-dip galvanized and yellow coated with three black strips

Ø 76 mm	7.0 ^A	476BG
Ø 89 mm	8.8 ^A	489BG
Ø 102 mm	9.5 ^A	491BG



On customer request different colors of foilage possible!



Barrier posts

A very sturdy boundary post, can be used for all applications, ideal also as barrier chain post.

Car-park barriers

Barrier posts

square tube 70 x 70 mm with welded steel cap 900 mm above ground



Ornamental bollards



470B

Stainless steel

Stationary, for casting in concrete
with ground anchor
total length: 1300 mm

hot-dip galvanized

	Kg	Part-No.
without eyelet	7.2 A	470
with 1 eyelet	7.2 A	470/1
with 2 eyelets	7.2 A	470/2

hot-dip galvanized and white coated with three red reflecting stripes

without eyelet	7.2 A	470B
with 1 eyelet	7.2 A	470B/1
with 2 eyelets	7.2 A	470B/2

Barrier elements

Suitable fastening material for this product:
Set of mounting bolts type 1
Part-No.
470.71
Further accessories see page 49

Barrier gates



470PB

Outdoor equipment

Stationary, to be fixed by plugs
with base plate 100 x 150 mm

hot-dip galvanized

without eyelet	5.6 A	470P
with 1 eyelet	5.6 A	470P/1
with 2 eyelets	5.6 A	470P/2

hot-dip galvanized and white coated with three red reflecting stripes

without eyelet	5.6 A	470PB
with 1 eyelet	5.6 A	470PB/1
with 2 eyelets	5.6 A	470PB/2

Work site protection

Also available in yellow/black, see work site protection pages 168 ff

Other color finishes possible; see page 7

Barrier post of steel tube 70 x 70 mm

This post is ideal for barricading places, entrances, street and pedestrian areas, etc. The sturdy, maintenance-free triangular locking mechanism acc. to DIN 3223 makes it easy to handle without much effort even after many years. All posts are hot-dip galvanized for longer life.

Barrier posts

square tube 70 x 70 mm
with welded steel cap
900 mm above ground



470FB

Removable, with triangular locking mechanism
acc. to DIN 3223, self-engaging lock, with
ground socket part-no. 470.10, approx. 500 mm long

hot-dip galvanized

	Kg	Part-No.
without eyelet	11.5 A	470F
with 1 eyelet	11.5 A	470F/1
with 2 eyelets	11.5 A	470F/2

hot-dip galvanized and white coated
with three red reflecting stripes

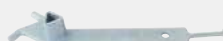
without eyelet	11.5 A	470FB
with 1 eyelet	11.5 A	470FB/1
with 2 eyelets	11.5 A	470FB/2



• stop • save • secure



Accessories see pages 49-56



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

A barrier post for heavy-duty everyday service. Strong corrosion-protected (hot dip galvanized) hinged base plate with strong hinge pin and sturdy, tear-proof mounting bracket. The maintenance-free leaf spring-loaded locking mechanism can be opened by a DIN conforming triangular wrench without effort at any time.



Barrier posts

steel tube 70 x 70 mm with welded steel cap 900 mm above ground



470FUB



470.60

Foldable, with triangular locking mechanism
acc. to DIN 3223, with leaf spring, self-engaging lock

To be fixed by plugs
with base plate 100 x 150 mm

hot-dip galvanized

Kg

Part-No.

7.5 ^A

470FU

hot-dip galvanized and white coated with three red reflecting stripes

7.5 ^A

470FUB

For casting in concrete
with ground socket part-no. 470.60 approx. 400 mm below ground

hot-dip galvanized

10.0 ^A

470FUH

hot-dip galvanized and white coated with three red reflecting stripes

10.0 ^A

470FUHB



Suitable fastening material for this product:

Set of mounting bolts type 1

Part-No.

470.71

Further accessories see page 49

Barrier post of steel tube 70 x 70 mm

A very stable barrier post, not just for private use.

Barrier posts

steel tube 70 x 70 mm with welded steel cap 900 mm above ground



470UZB



470.60



470ZB

Foldable, with Euro profile cylinder lock
three keys, self-engaging lock

To be fixed by plugs
with base plate 100 x 150 mm

hot-dip galvanized

Kg

Part-No.

9.0 ^A

470UZ

hot-dip galvanized and white coated
with three red reflecting stripes

9.0 ^A

470UZB

For casting in concrete
with ground socket part-no. 470.60
approx. 400 mm below ground

hot-dip galvanized

11.3 ^A

470UZH

hot-dip galvanized and white coated
with three red reflecting stripes

11.3 ^A

470UZH B

Removable, with Euro profile cylinder lock
three keys, self-engaging lock, with ground
socket part-no. 470.10 approx. 500 mm below ground

hot-dip galvanized

13.2 ^A

470Z

hot-dip galvanized and white coated
with three red reflecting stripes

13.2 ^A

470ZB



Posts can be delivered simultaneously
locking or in a locking system;
see page 49

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts

With top inside triangular locking mechanism.
Alternative to 470F - 470FB or 470FU - FUB

Car-park barriers

Barrier posts
steel tube 70 x 70 mm
with steel cap
900 mm above ground



Ornamental bollards



470DB

Stainless steel

Removable, with triangular locking mechanism
acc. to DIN 3223, top inside, self-engaging lock,
with ground socket part-no. 470.10,
approx. 500 mm below ground

hot-dip galvanized

Kg Part-No.

13.0 ^A 470D

hot-dip galvanized and white coated
with three red reflecting stripes

13.0 ^A 470DB

Barrier elements

Barrier gates

Foldable, with triangular locking mechanism
acc. to DIN 3223, top inside,
self-engaging lock

To be fixed by plugs
with base plate 100 x 150 mm

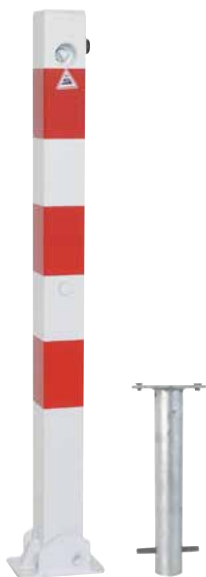
hot-dip galvanized

8.7 ^A 470UD

hot-dip galvanized and white coated
with three red reflecting stripes

8.7 ^A 470UDB

Outdoor equipment



470UDB

470.60

For casting in concrete
with ground socket part-no. 470.60,
approx. 400 mm below ground

hot-dip galvanized

11.0 ^A 470UDH

hot-dip galvanized and white coated
with three red reflecting stripes

11.0 ^A 470UDHB

Work site protection

Barrier post of steel tube 70 x 70 mm

These barrier posts can be opened both with a Euro profile cylinder key and a triangular wrench that conforms with DIN 3223. This ensures that the fire brigade and rescue services have access at any time.

Barrier posts

steel tube 70 x 70 mm
with steel cap
900 mm above ground



470FZB



470FUZH

470.60

Removable, with Euro profile cylinder lock

three keys and **triangular locking mechanism** acc. to DIN 3223, self-engaging lock, with ground socket part-no. 470.10, approx. 500 mm below ground

hot-dip galvanized

Kg

Part-No.

13.3 A

470FZ

hot-dip galvanized and white coated with three red reflecting stripes

13.0 A

470FZB

Foldable, with Euro profile cylinder lock

three keys and **triangular locking mechanism** acc. to DIN 3223, self-engaging lock

To be fixed by plugs

with base plate 100 x 150 mm

hot-dip galvanized

9.2 A

470FUZ

hot-dip galvanized and white coated with three red reflecting stripes

9.2 A

470FUZH

For casting in concrete

with ground socket part-no. 470.60, approx. 400 mm below ground

hot-dip galvanized

11.5 A

470FUZH

hot-dip galvanized and white coated with three red reflecting stripes

11.5 A

470FUZHB

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts

steel tube 70 x 70 mm
with steel cap
900 mm above ground

If the situation requires, foldable barrier posts that can also be removed can be used. The multipurpose wrench part-no. 470.40 is required in any case (order it with the post).



4701FUZHB

Foldable and removable

with ground socket part-no. 470.10, approx. 500 mm below ground

hot-dip galvanized

with triangular locking mechanism

12.5 A 4701FUH

with Euro profile cylinder lock

14.0 A 4701UZH

with triangular and Euro profile cylinder lock

14.2 A 4701FUZH

hot-dip galvanized and white coated with
three red reflecting stripes

with triangular locking mechanism

12.5 A 4701FUHB

with Euro profile cylinder lock

14.0 A 4701UZHB

with triangular and Euro profile cylinder lock

14.2 A 4701FUZHB

Multipurpose wrench



470.40

0.4 A 470.40

Foldable, for padlock

self-engaging lock

To be fixed by plugs

with base plate 100 x 150 mm

hot-dip galvanized

8.9 A 470UV

hot-dip galvanized and white coated
with three red reflecting stripes

8.9 A 470UVB

For casting in concrete

with ground socket part-no. 470.60,
approx. 400 mm below ground

hot-dip galvanized

11.2 A 470UVH

hot-dip galvanized and white coated
with three red reflecting stripes


11.2 A 470UVHB



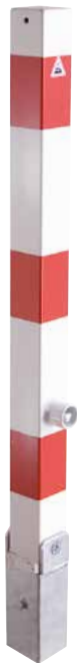
470UVB

470.60



 Extra safety by pushing the foldable post into the ground socket.

Barrier posts
steel tube 70 x 70 mm
with welded steel cap
900 mm above ground



470FUKHB

Foldable, with triangular locking mechanism
acc. to DIN 3223, **with lifting and tilting mechanism,**
with leaf spring, self-engaging
lock including ground socket

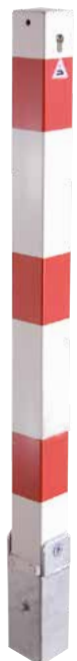
hot-dip galvanized

Kg **Part-No.**

11.0 ^A 470FUKH

hot-dip galvanized and white coated
with three red reflecting stripes

11.0 ^A 470FUKHB



470UZKHB

Foldable, with Euro profile cylinder lock
with three keys, self-engaging lock,
with lifting and tilting mechanism,
with flat spring, self locking with ground socket

hot-dip galvanized

12.3 ^A 470UZKH

hot-dip galvanized and white coated
with three red reflecting stripes

12.3 ^A 470UZKHB

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier post

steel tube 70 x 70 mm
900 mm above ground



470DL

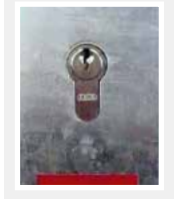


470ZL

Triangular locking mechanism



Euro profile cylinder



Fully retractable with triangular locking system
acc. to DIN 3223, ground socket 80 x 80 x 3 mm,
overall length: approx. 1100 mm

hot-dip galvanized
with white / red reflecting stripes

Kg Part-No.

16.8 ^A 470DL

Fully retractable, with Euro profile cylinder lock
with ground socket part-no. 80 x 80 x 3 mm
total length: approx. 1100 mm

hot-dip galvanized
with white / red reflecting stripes

17.1 ^A 470ZL



Instructions for mounting

Always pay attention to adequate drainage for removable posts (provide gravel fill).
Do not install in standing water.

Barrier post of steel tube 70 x 70 mm

Barrier post with 8 mm triangular locking mechanism as interesting alternative to the Euro profile cylinder lock or the conventional triangular locking mechanism acc. with DIN 3223. The post can be unlocked without effort with a small, handy 8 mm triangular wrench.



Barrier posts

steel tube 70 x 70 mm
900 mm above ground

With 8 mm triangular lock



470NB

Removable, with 8 mm triangular lock

self-engaging lock, including an 8 mm triangular wrench part-no. 4039, with ground socket part-no. 470.10, approx. 500 mm below ground

hot-dip galvanized
hot-dip galvanized and red coated with reflecting stripes

Kg Part-No.

12.8 ^A 470N

12.8 ^A 470NB

Foldable, with 8 mm triangular lock

self-engaging lock, including an 8 mm triangular wrench part-no. 4039

To be fixed by plugs

with base plate 100 x 150 mm

hot-dip galvanized
hot-dip galvanized and red coated with reflecting stripes

7.3 ^A 470UN

7.3 ^A 470UNB

For casting in concrete

with ground socket part-no. 470.60, approx. 400 mm below ground

hot-dip galvanized
hot-dip galvanized and red coated with reflecting stripes

9.6 ^A 470UNH

9.6 ^A 470UNHB



470UNB



470.60



4039

8 mm triangular lock key

key for opening the posts

0.1 ^A 4039

Barrier posts

This 500 mm high post is very suitable for parking situation without enough space

Car-park barriers

Barrier posts

steel tube 70 x 70 mm
500 mm above ground



Ornamental bollards



4715FUB

Foldable, with triangular locking mechanism
acc. to DIN 3223, self-engaging lock

To be fixed by plugs

with base plate 100 x 150 mm or for mounting to ground socket part-no. 470.60

- hot-dip galvanized
- hot-dip galvanized and white coated with two red reflecting stripes

Kg Part-No.

- 5.4 ^A 4715FU
- 5.4 ^A 4715FUB

Stainless steel

Barrier elements



4715UZB

Foldable, with Euro profile cylinder lock
with three keys, self-engaging lock

To be fixed by plugs

with base plate 100 x 150 mm or for mounting to ground socket part-no. 470.60

- hot-dip galvanized
- hot-dip galvanized and white coated with two red reflecting stripes

- 6.0 ^A 4715UZ
- 6.0 ^A 4715UZB

Barrier gates

Outdoor equipment



470.60

Ground socket

for casting in concrete
(order together with the barrier post if you want to cast in concrete)

2.3 ^A 470.60

Work site protection

Barrier post of steel tube 100 x 100 mm

A heavy, sturdy barrier post for special purposes.

Barrier posts
steel tube 100 x 100 x 3 mm
with welded steel cap
950 mm above ground



40100B



40100PB



40100FB

Stationary, for casting in concrete
with ground anchor
total length: 1250 mm

hot-dip galvanized

Kg

Part-No.

11.1 A

40100

hot-dip galvanized and white coated
with red reflecting stripes

11.1 A

40100B

Stationary, to be fixed by plugs
with base plate 200 x 200 mm

hot-dip galvanized

10.8 A

40100P

hot-dip galvanized and white coated
with red reflecting stripes

10.8 A

40100PB

Removable, with triangular locking mechanism
acc. to DIN 3223, with self-engaging lock with
ground socket part-no. 470.10, approx. 500 mm below ground

with triangular locking mechanism acc. to DIN 3223

hot-dip galvanized

16.7 A

40100F

hot-dip galvanized and white coated with
three red reflecting stripes

16.7 A

40100FB

with profile cylinder lock, three keys incl.

hot-dip galvanized

16.7 A

40100Z

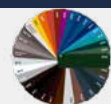
hot-dip galvanized and white coated with
three red reflecting stripes

16.7 A

40100ZB



Other color finishes possible; see page 7



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts



Car-park barriers

4711PB

4711PB+1

470PB/1

Ornamental bollards



Barrier chain posts with profile lock cylinders for hooking up and locking chains (engages automatically, unlocks by key), suitable particularly for securing larger areas for parking or efficiently keeping traffic away from property gates, courtyards, loading and unloading areas, etc. These barrier chain posts are very easy to handle. The barrier post is unlocked by the key, and when the car has been parked the chain is hooked into the locking mechanism of the post. It locks automatically. The mechanism is maintenance-free. For versatile use, e.g., in multi-story car parks or as access barrier. It also prevents the parking of two-wheelers. Can be used as serial system.

Stainless steel



Barrier chain post

square tube 70 x 70 mm
900 mm above ground

Locking mechanism, with Euro profile cylinder lock
with three keys

For plugging down, with base plate 100 x 150 mm
or for mounting to ground socket part-no. 470.60

Barrier elements

		Kg	Part-No.
hot-dip galvanized	Without eyelet	6.1 ^A	4711P
hot-dip galvanized for serial systems (center post)	With 1 eyelet	6.1 ^A	4711P+1
hot-dip galvanized and white coated with three red reflecting stripes	Without eyelet	6.1 ^A	4711PB
hot-dip galvanized and white coated with three red reflecting stripes for serial systems (center post)	With 1 eyelet	6.1 ^A	4711PB+1

Barrier gates



470PB/1

End post without lock

hot-dip galvanized	With 1 eyelet	5.6 ^A	470P/1
hot-dip galvanized and white coated with three red reflecting stripes	With 1 eyelet	5.6 ^A	470PB/1

Outdoor equipment



470.60

Ground socket for casting in concrete
(order together with the barrier post if you want to cast in concrete)

2.3 ^A 470.60

Work site protection



Accessories see pages 50-51





460KB

Movable chain post as temporary barrier, of high stability. For outdoor or indoor installation. Post separates easily from the foot plate for moving to a new site. Simple installation and space-saving storage.

Chain post, heavy design

of \varnothing 60 mm steel tube with welded steel cap and eyelets for fixing the chain, height approx. 900 mm, hot-dip galvanized and white coated with three red reflecting stripes, foot plate of recycled material, 400 x 400 x 100 mm, black, removable

Kg **Part-No.**

15.0 ^A 460KB



4040KB

Plastic chain post

lightweight chain post of plastic material for fast installation of barriers, including triangular plastic foot, side length 300 mm, filled with concrete, plastic tube \varnothing 40 mm, height: 900 mm, with 4 chain holders integrated in the cap

white / red

3.0 ^A 4040KB



4041KB

Plastic chain post

with foot \varnothing 300 mm for filling by customer, plastic tube \varnothing 40 mm, height: 900 mm, with 4 chain holders integrated in the cap

white / red

2.0 ^A 4041KB

Chain post set

version: 6 plastic posts \varnothing 40 mm. With 4 chain holders integrated in the cap, 10 m plastic chain, 10 links



For indoor and outdoor

with concrete-filled triangular plastic feet, side length 300 mm
white / red

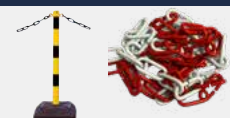
20.0 ^A 4040KBSET

with feet \varnothing 300 mm for filling by customer, white / red

14.0 ^A 4041KBSET



Also available in yellow/black; see work site protection page 181. Barrier chains see page 50-51



Barrier posts

Self-righting barrier post;
Resilient but extremely robust.
Protects persons and mitigates
damage to vehicles.



Car-park barriers



Height 1000 mm
Ø 80 mm, PUR,
4 reflecting stripes,
including 3 bolts and plugs



Height 750 mm
Ø 80 mm, PUR,
3 reflecting stripes,
including 3 bolts and plugs



Height 450 mm
Ø 80 mm, PUR,
2 reflecting stripes,
including 3 bolts and plugs



Height 300 mm
Ø 80 mm, PUR,
1 reflecting stripe,
including 3 bolts and plugs

Ornamental bollards

Stainless steel

Flexipost red
with white reflecting
stripes



Height in mm	1000
Kg	1.5 ^A
Part-No.	412211

Height in mm	750
Kg	1.3 ^A
Part-No.	412212

Height in mm	450
Kg	0.9 ^A
Part-No.	412214

Height in mm	300
Kg	0.7 ^A
Part-No.	412215

Barrier elements

Flexipost white
with red reflecting
stripes



Height in mm	1000
Kg	1.5 ^A
Part-No.	412221

Height in mm	750
Kg	1.3 ^A
Part-No.	412222

Height in mm	450
Kg	0.9 ^A
Part-No.	412224

Height in mm	300
Kg	0.7 ^A
Part-No.	412225

Barrier gates

Flexipost black
with white reflecting
stripes



Height in mm	1000
Kg	1.5 ^A
Part-No.	412221BS

Height in mm	750
Kg	1.3 ^A
Part-No.	412222BS

Height in mm	450
Kg	0.9 ^A
Part-No.	412284BS

Height in mm	300
Kg	0.7 ^A
Part-No.	412282BS

Outdoor equipment



Work site protection

Flexipost yellow

Ø 80 mm, PUR,
black stripes,
including 3 bolts and plugs

Height in mm
Kg
Part-No.



1000
1.5 ^A
412441BG



750
1.3 ^A
412442BG



450
0.9 ^A
412444BG



300
0.7 ^A
412445BG

Flexipost black

Ø 80 mm, PUR,
yellow reflecting stripes,
including 3 bolts and plugs

Height in mm
Kg
Part-No.



1000
1.5 ^A
412221BG



750
1.3 ^A
412222BG



450
0.9 ^A
412284BG



300
0.7 ^A
412282BG

Adapter with eyelet

for putting on flexiposts
for chains

Height in mm
Kg
Part-No.



white
0.1 ^A
41222KW



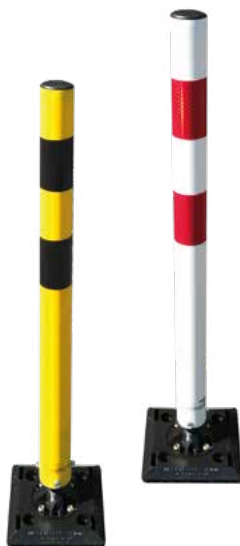
black
0.1 ^A
41222KS

Very robust, flexible bollards safe to nudge and run over, for businesses and municipalities. KICKBACK ©

Even if run over at high speed, hardly anything can be seen on the bollard or the vehicle. These bollards improve safe traffic. It saves businesses and municipalities money for costly repairs.

KICKBACK © bollard Ø 60 mm

Plastic post 900 mm above ground



With ground plate for plugging
white with red reflecting stripes
yellow with black stripes

With ground socket type for casting in concrete
white with red reflecting stripes
yellow with black stripes

With ground plate for plugging Quick Release
for quick removal of the **KICKBACK © bollards**
incl. locking bolt type 470.426
white with red reflecting stripes
yellow with black stripes

Kg	Part-No.
2.5 A	4260B
2.5 A	4260BG

4.5 A	4260HB
4.5 A	4260HBG

2.5 A	4261B
2.5 A	4261BG

If you want to take the post out or drive over it or no barrier is needed, use the quick release plate. The post then can be removed easily and quickly.



Latching pin
for quick release base plate

0.1 A	470.426
-------	---------



Separate ground socket
of steel, hot-dip galvanized, length 400 mm

2.0 A	4S470.60MH
-------	------------

Set of mounting bolts, galvanized

	Part-No.
Set of mounting bolts type 1 4 bolts M10 x 80 with plastic plugs for barrier posts with base plate 100 x 150 mm, crash guard angles, protective railings	470.71
Set of mounting bolts type 1.2 8 bolts M10 x 80 with plastic plugs for hoops with base plate 100 x 150 mm	470.712
Set of mounting bolts type 2 4 bolts with fixing anchor M16 x 150 for posts from Ø102 mm, barrier systems, height restriction barriers	470.72
Set of mounting bolts type 3 8 bolts with fixing anchor M16 x 150 for barrier systems, height restriction barriers	470.73



Set of mounting bolts VA

Set of mounting bolts type 1VA 3 bolts M10 x 100 VA with plastic plugs for stainless steel posts 4062P	470.76
Set of mounting bolts type 1.2VA 6 bolts M10 x 100 VA with plastic plugs for stainless steel hoops series 449	470.762
Set of mounting bolts type 2VA 3 bolts with fixing anchor M12x 110 VA for stainless steel posts from Ø76 mm	470.77
Screw head driver bit T40 for set of mounting bolts type 1	470.75

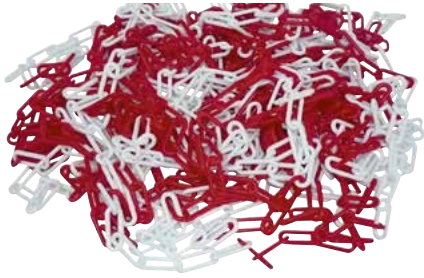


Extra charge for locking systems

Extra price (respectifly the article number)



	Part-No.
Profile cylinder simultaneously locking (without security card)	Art.-Nr. +ZGL
Profile cylinder with security card, different locking initial order (initial order)	Art.-Nr. +ZSI
Profile cylinder with security card, simultaneously locking (initial order)	Art.-Nr. +ZSIGL
Profile cylinder for master key system with security card different locking (initial order)	Art.-Nr. +ZHS
Profile cylinder for master key system with security card simultaneously locking (initial order)	Art.-Nr. +ZHSGL
Additional key for profile cylinder (without security card)	470.55
Additional key for profile cylinder (with security card)	470.55SI
Additional key for profile cylinder for master key system (with security card)	470.55SIHS
Master key	470.56HS

**Barrier chain of steel, welded**

wire thickness 5 mm

galvanized

galvanized and red / white coated

packing unit 10 m

Kg/m

Part-No.

0.5 ^A

430.50

0.5 ^A

430.50B



430.50B



430.66B

Barrier chain of steel, welded

wire thickness 6 mm

galvanized

galvanized and red / white coated

packing unit 10 m

galvanized and coated yellow / black

packing unit 10 m

0.6 ^A

430.66

0.6 ^A

430.66B

0.6 ^A

430.67B



430.10B

Barrier chain of steel, unwelded

wire thickness 7 mm

galvanized

galvanized and red / white coated

packing unit 10 m

galvanized and coated yellow / black

packing unit 10 m

galvanized and coated acc. to RAL color

packing unit 10 m

0.9 ^A

430.10

0.9 ^A

430.10B

0.9 ^A

430.20B

0.9 ^A

430.25B



430.60B

Square steel chain, unwelded

wire thickness 6 mm

galvanized and coated

Please specify RAL color

0.9 ^A

430.60B



430.11

S hook

galvanized

galvanized and red coated

galvanized and white coated

galvanized and yellow coated

galvanized and black coated

430.11

430.11BR

430.11BW

430.11BG

430.11BS



430.09

Connecting link

galvanized

galvanized and red coated

galvanized and white coated

galvanized and yellow coated

galvanized and black coated

430.09

430.09BR

430.09BW

430.09BG

430.09BS



430.12

Shackle

galvanized

galvanized and red coated

galvanized and white coated

galvanized and yellow coated

galvanized and black coated

430.12

430.12BR

430.12BW

430.12BG

430.12BS



430.13

Snap hook

galvanized

galvanized and red coated

galvanized and white coated

galvanized and yellow coated

galvanized and black coated

430.13

430.13BR

430.13BW

430.13BG

430.13BS



430.05



Plastic barrier chain

6 mm thick

red / white, packing unit 25 m
yellow / black, packing unit 25 m

Kg/Unit

2.0 ^A
2.0 ^A

Part-No.

430.05
430.06

Plastic connecting link made

6 mm thick

red
white
yellow
black

430.07R
430.07W
430.07G
430.07S



430.07R



430.08W

Plastic hook link

6 mm thick

red
white
yellow
black

430.08R
430.08W
430.08G
430.08S



430.15

Plastic barrier chain

8 mm thick

red / white, packing unit 25 m
yellow / black, packing unit 25 m

Kg/Unit

2.5 ^A
2.5 ^A

Part-No.

430.15
430.30



430.16R

Plastic connecting link made

8 mm thick

red
white
yellow
black

430.16R
430.16W
430.16G
430.16S



430.17W

Plastic hook link

8 mm thick

red
white
yellow
black

430.17R
430.17W
430.17G
430.17S

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Ground socket for Ø 60 mm tubes

of round tube, hot-dip galvanized, 400 mm long, with ground anchor

Kg Part-No.

- for barrier posts with bottom part Ø 60 mm without locking mechanism

2.1 ^A 460.10

- for removable barrier posts with bottom part Ø 60 mm with our type of locking mechanism

2.1 ^A 460.40

- for series 460V barrier posts

2.1 ^A 460.60

Cover for Ø 60 mm tubes

without locking mechanism, suitable for ground sockets part-no. 460.10, 460.40 and 460.60, hot-dip galvanized

0.4 ^A 460.20

Cover for Ø 60 mm tubes

with spring-loaded locking mechanism, suitable for ground sockets part-no. 460.40, for opening by multipurpose wrench part-no. 470.40, hot-dip galvanized

0.7 ^A 460.21

Ground socket for Ø 76 mm tubes

of round tube, hot-dip galvanized, 400 mm long, with ground anchor

3.2 ^A 476.10

- for barrier posts with bottom part Ø 76 mm without locking mechanism

- for removable barrier posts with bottom part Ø 76 mm with our type of locking mechanism

3.2 ^A 476.40

Cover for Ø 76 mm tubes






without locking mechanism, suitable for ground sockets part-no. 476.10 and 476.40, hot-dip galvanized

0.6 ^A 476.20

Cover for Ø 76 mm tubes

suitable for ground socket part-no. 476.40, with spring-loaded locking mechanism for opening by multipurpose wrench part-no. 470.40, hot-dip galvanized

0.9 ^A 476.21

	Ground socket of square tube 80 x 80 mm, hot-dip galvanized, with ground anchor	Kg	Part-No.
	for barrier post with bottom part 70 x 70 mm without locking mechanism, length 400 mm	2.9 ^A	470.15
	Ground socket of square tube 80 x 80 mm, hot-dip galvanized, with ground anchor for removable barrier post with bottom part 70 x 70 mm with our type of locking mechanism, length 500 mm	3.7 ^A	470.10
	Cover for square tube 70 x 70 mm without locking mechanism, suitable for ground sockets, part-no. 470.10 and 470.15, hot-dip galvanized	0.7 ^A	470.20
	Cover for square tube 70 x 70 mm suitable for ground socket part-no. 470.10, with spring-loaded locking mechanism for opening by multipurpose wrench part-no. 470.40, hot-dip galvanized	0.8 ^A	470.21
	Ground socket with mounting plate 100 x 150 mm, hole pitch 70 x 122 mm, 400 mm long, with ground anchor, for fastening all foldable barrier posts of our type, including bolts, hot-dip galvanized	2.3 ^A	470.60

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Ground socket

of hot-dip galvanized steel tube, 400 mm long with two lateral bolt holes, suitable for

Ø 48 mm tubular post

Kg **Part-No.**

1.6 ^A 443.44

Ø 60 mm tubular post

2.1 ^A 463.44

Ø 76 mm tubular post

2.6 ^A 473.44



Ground socket

of hot-dip galvanized steel tube with arresting mechanism, for Ø 60 mm tubular post

300 mm long

2.3 ^A 463.31

400 mm long

2.7 ^A 463.41

500 mm long

3.2 ^A 463.51



Ground socket

of hot-dip galvanized steel tube with arresting mechanism, for Ø 76 mm tubular post

300 mm long


3.1 ^A 473.31

500 mm long

4.6 ^A 473.51

Example of use



 **Steel tube sign posts**
 see catalogue
 „Construction equipment -
 Traffic safety“ page 53



Ground socket for Ø 48 mm tubular post
of grey-cast iron, with threaded and tightening ring

300 mm long

Kg	Part-No.
3.5 ^A	443.61



Steel wrench

hot-dip galvanized for Ø 48 mm

1.8 ^A	443.68
------------------	--------



Ground socket for Ø 60 mm tubular post
of grey-cast iron, with threaded and tightening ring

300 mm long
500 mm long

5.0 ^A	463.61
7.0 ^A	463.62



Ground socket for Ø 76 mm tubular post
of grey-cast iron, with threaded and tightening ring

300 mm long
500 mm long

7.0 ^A	473.61
9.5 ^A	473.62



Multipurpose wrench

of grey-cast iron, suitable for grey-cast iron
ground sockets Ø 60 mm and Ø 76 mm,
including square for blind plug

5.2 ^A	463.68
------------------	--------

Accessories:



	Kg	Ø 48 mm	Ø 60 mm	Ø 76 mm
Tightening ring	0.1 ^A	443.65	463.65	473.65
Threaded ring	0.8 ^A	443.66	463.66	473.66
Blank plug	0.8 ^A	443.67	463.67	473.67

Barrier posts



Grey-cast multipurpose wrench, galvanized

acc. to DIN 3223, for all barrier posts with triangular locking mechanism and for opening the covers

Kg **Part-No.**
0.4 ^A 470.40

Car-park barriers



Triangular standard wrench, galvanized

acc. to DIN 3223, hand wrench for opening all barrier posts with triangular lock

0.2 ^A 470.50

Ornamental bollards



Triangular socket wrench, galvanized

acc. to DIN 3223

0.2 ^A 470.30

Stainless steel



Square socket wrench, 6 mm

for litter bin part-no. 4027

0.2 ^A 4037



Triangular socket wrench, 8 mm

for litter bin, galvanized

0.2 ^A 4038



Triangular wrench, 8 mm

handy wrench for opening the litter bins

0.1 ^A 4039

Barrier elements



Eyelets, galvanized

one eyelet screw-fastened

Part-No. +1

two eyelets screw-fastened

Part-No. +2

one eyelet for screw fastening by M8 threaded pin (specify tube diameter)

470.01

two eyelets for screw fastening by M8 threaded pin (specify tube diameter)

470.02

Barrier gates



Ground rosette for post

∅ 76 mm, for screw-fastening, galvanized and coated

1.3 ^A 476RB

∅ 82 mm, for screw-fastening, galvanized and coated

1.3 ^A 485RB

Outdoor equipment



∅ 76 mm, for screw-fastening, galvanized and coated

1.3 ^A 478RB

∅ 89 mm, for screw-fastening, galvanized and coated

1.3 ^A 4084RB

Work site protection

Car-park barriers

Car-park barriers
Holding device for parking signage
Park and guide barrier
Recycling bollards



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

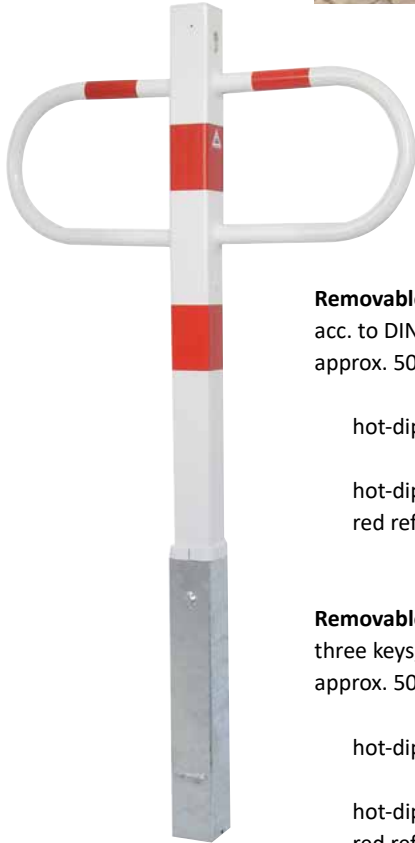
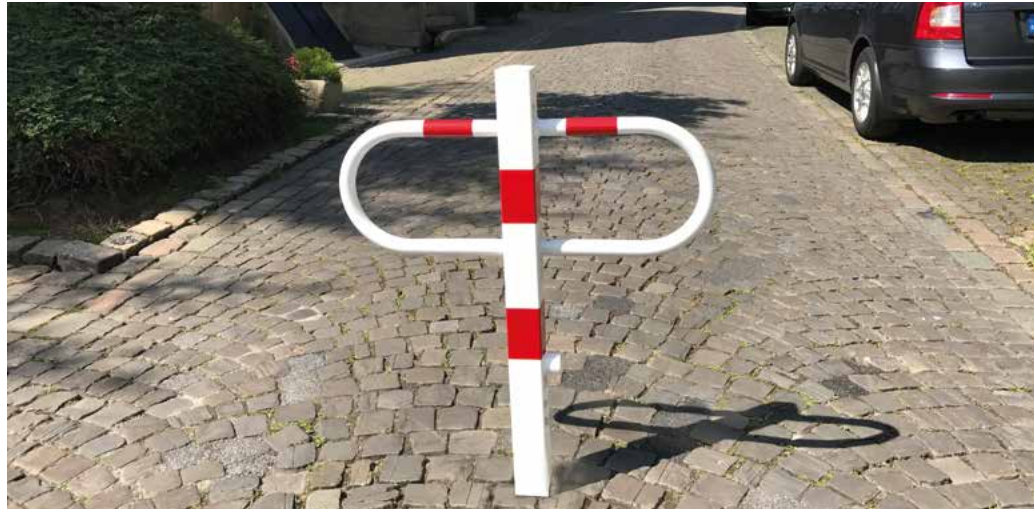
Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Passage and car-park barriers
 square tube 70 x 70 mm
 with lateral round tube hoops
 total width: approx. 800 mm
 above ground: 900 mm



471ZB



470.10

Removable, with triangular locking mechanism
 acc. to DIN 3223, to ground socket part-no. 470.10,
 approx. 500 mm below ground

hot-dip galvanized, with red reflecting stripes

Kg Part-No.

14.5 ^B 471F

hot-dip galvanized and white coated with
 red reflecting stripes

14.5 ^B 471FB

Removable, with Euro profile cylinder lock
 three keys, with ground socket part-no. 470.10,
 approx. 500 mm below ground

hot-dip galvanized, with red reflecting stripes

16.3 ^B 471Z

hot-dip galvanized and white coated with
 red reflecting stripes

16.3 ^B 471ZB



Assembly instructions
 Always pay attention to adequate drainage for
 removable posts (provide gravel fill).
 Do not install in standing water.

Separate ground socket
 for casting in concrete

3.7 ^A 470.10



It is recommended to install a second ground socket (away from blocked terrain).
 The post locks itself without key operation, and can not be stolen.

Passage and car-park barriers

square tube 70 x 70 mm
with lateral round tube hoops
total width: approx. 800 mm
above ground: 900 mm



471UZ

Foldable, with triangular locking mechanism
acc. to DIN 3223, self-engaging lock

To be fixed by plugs

with base plate or for mounting to ground socket part-no. 470.60

hot-dip galvanized, with red reflecting stripes

Kg Part-No.

10.6 ^B 471FU

hot-dip galvanized and white coated with red reflecting stripes

10.6 ^B 471FUB

Foldable, with Euro profile cylinder lock

three keys, self-engaging lock

To be fixed by plugs

with base plate or for mounting to ground socket part-no. 470.60

hot-dip galvanized, with red reflecting stripes

12.1 ^B 471UZ

hot-dip galvanized and white coated with red reflecting stripes

12.1 ^B 471UZB



470.60

Ground socket

for casting in concrete
(order together if you want to cast the barrier in concrete)

2.3 ^A 470.60



Car-park barriers prevent parking between lots and provide protection from theft and illegal parking.

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

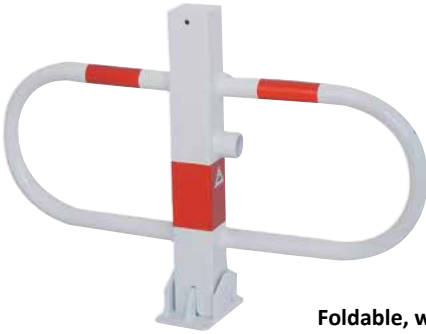
Barrier gates

Outdoor equipment

Work site protection



Car-park barrier
square tube 70 x 70 mm
with lateral round tube hoops
total width: approx. 800 mm
above ground: 500 mm



4709FUB

Foldable, with triangular locking mechanism
acc. to DIN 3223, self-engaging lock

To be fixed by plugs
with base plate 100 x 150 mm or for
mounting to ground socket part-no. 470.60

hot-dip galvanized with red reflecting stripes

Kg **Part-No.**

8.6 ^A 4709FU

hot-dip galvanized and white coated with
reflecting stripes

8.6 ^A 4709FUB



4709UZB

Foldable, with Euro profile cylinder lock
three keys, self-engaging lock

To be fixed by plugs
with base plate 100 x 150 mm
or for mounting to ground socket part-no. 470.60

hot-dip galvanized with red reflecting stripes

9.1 ^A 4709UZ

hot-dip galvanized and white coated with
reflecting stripes

9.1 ^A 4709UZB



470.60

Ground socket

for casting in concrete
(order together if you want to cast the barrier in concrete)

2.3 ^A 470.60



Barrier posts

Car-park barriers

Ornamental bollards

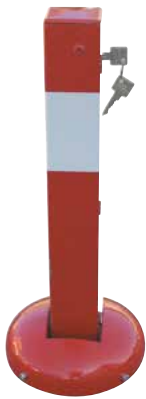
Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



40215UZH

Crash-proof barrier post

flexible to impact and thrust
square tube 70 x 70 mm
above ground: 500 mm
pass-over height: approx. 95 mm

Foldable, with Euro profile cylinder lock

three keys, self-engaging lock

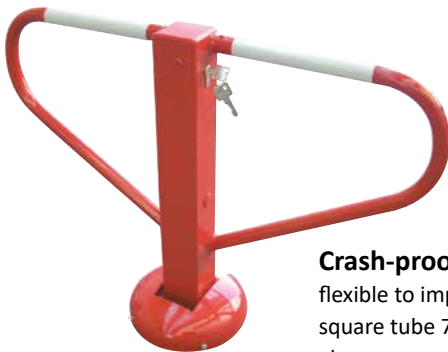
To be fixed by plugs

with base plate Ø 200 mm or for
mounting to ground socket part-no. 470.60

hot-dip galvanized and red coated with white
reflecting stripes

Kg Part-No.

8.0 A 40215UZH



40220UZH

Crash-proof car-park barrier

flexible to impact and thrust
square tube 70 x 70 mm
above ground: 500 mm
pass-over height: approx. 95 mm
with lateral round tube hoops
total width: approx. 800 mm

Foldable, with Euro profile cylinder lock

three keys, self-engaging lock

To be fixed by plugs

with base plate Ø 200 mm or for
mounting to ground socket part-no. 470.60

hot-dip galvanized and red coated with white
reflecting stripes



10.8 A 40220UZH



470.60

Ground socket

for casting in concrete
(order together if you want to cast the barrier in concrete)

2.3 A 470.60

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

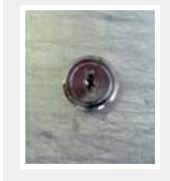
Work site protection

Car-park barrier, foldable

square tube 70 x 70 mm
with lateral round tube hoops
total width: approx. 800 mm
above ground: 500 mm
self-engaging lock



Round cylinder



Foldable, with round cylinder
three keys

40770

To be fixed by plugs
with base plate 100 x 150 mm



hot-dip galvanized with red reflecting stripes

hot-dip galvanized and white coated with red reflecting stripes

Kg Part-No.

7.5 ^A 40770

7.5 ^A 40770B



40771B

For casting in concrete
with welded ground anchor
approx. 300 mm below ground

hot-dip galvanized with red reflecting stripes

hot-dip galvanized and white coated with red reflecting stripes

8.8 ^A 40771

8.8 ^A 40771B

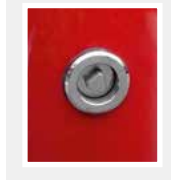
Car-park barrier, foldable

square tube 70 x 70 mm
with lateral round tube hoops
total width: approx. 800 mm
above ground: 500 mm
self-engaging lock



40772B

triangular lock



Foldable, with 8 mm triangular lock

To be fixed by plugs
with base plate 100 x 150 mm

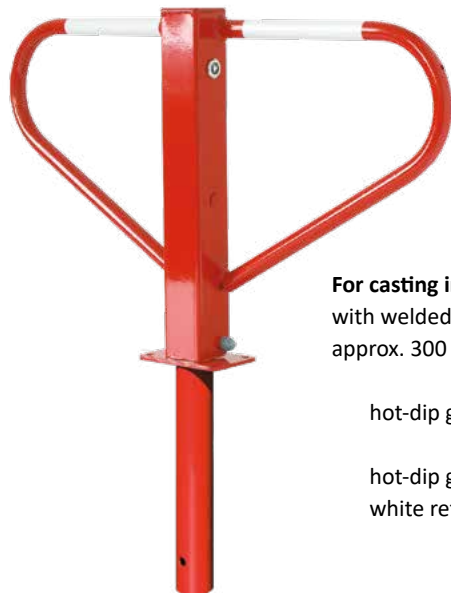
hot-dip galvanized with red reflecting stripes

Kg Part-No.

7.5 ^A 40772

hot-dip galvanized and red coated with
white reflecting stripes

7.5 ^A 40772B



40773B

For casting in concrete
with welded ground anchor
approx. 300 mm below ground

hot-dip galvanized with red reflecting stripes

8.8 ^A 40773

hot-dip galvanized and red coated with
white reflecting stripes

8.8 ^A 40773B



4039

Handy triangular wrench 8 mm
for barrier post, car-park barriers, galvanized

0.1 ^A 4039

- Barrier posts
- Car-park barriers
- Ornamental bollards
- Stainless steel
- Barrier elements
- Barrier gates
- Outdoor equipment
- Work site protection



Car-park barrier, foldable

round tube Ø 60 mm
 with lateral round tube hoops
 and a one-piece base plate
 total width: approx. 800 mm
 total height: approx. 500 mm



40660

Foldable, with Euro profile cylinder lock
 three keys, self-engaging lock

hot-dip galvanized with red reflecting stripes
 including fastening material

Kg Part-No.

8.3 ^A 40660



Car-park barriers prevent parking between lots and provide protection from theft and illegal parking



Car-park barrier

made of thick-walled round steel tube \varnothing 33.7 x 2.5 mm
 height: approx. 450 mm, width: approx. 850 mm,
 extremely flat when folded down, approx. 45 mm high



472V

Foldable, with padlock
 three keys

hot-dip galvanized with red reflecting stripes
 including fastening material

Kg Part-No.

5.5 ^A 472V



472Z

Foldable, with Euro profile cylinder lock
 three keys, self-engaging lock,
 locking and unlocking outside the dirt zone

hot-dip galvanized with red reflecting stripes,
 including fastening material

5.6 ^A 472Z



472A

1 set (3 pieces) anchors for casting in concrete

0.1 ^A 472A



472ZP

Foldable, with Euro profile cylinder lock
 three keys and continuous base plate,
 self-engaging lock, locking and unlocking
 outside the dirt zone

hot-dip galvanized with red reflecting stripes
 including fastening material

7.8 ^A 472ZP

Holding device for parking signage 2 support posts

steel tube 40 mm x 40 mm x 2.0 mm, galvanized, with screwed parking signage (inclusive)

height above: ground 350 mm
total width: approx. 520 mmm



	Kg	Part-No.
For casting in concrete Total height 500 mm	3.1 ^A	4045
To be fixed by plugs Total height 350 mm	4.0 ^A	4045P

Round hoops for parking sign

stainless steel Ø 48.3 mm x 2.5 mm with welded license plate holder
height above ground: 800 mm
total width: approx. 650 mm



	kg	Part-No.
For casting in concrete	10.9 ^B	449.66SE
To be fixed by plugs	9.9 ^B	449.66PSE

Park and guide barrier made of recycled material
with reflectors
1170 mm x 150 mm x 50 mm
with 3 bolts and plugs



	Kg	Part-No.
white	2.3 A	412202SW
yellow	2.3 A	412202SO

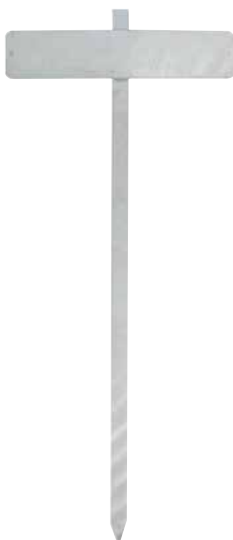
Drive-in rod

of 40 mm T-section, with drive-in tip
total length: 1200 mm

hot-dip galvanized

3.4 A 4043

4043



Drive-in rod

of 40 mm T-section, with drive-in tip
total length: 1200 mm
for sign posting car parks with
sign board 110 x 520 mm

hot-dip galvanized

4.0 B 4044

4044

Barrier posts

Bollards made of recycled plastic material for digging in or casting in concrete



Car-park barriers

Recycling-material post
Square post 140 x 140 mm
 total length: 1400 mm

Ornamental bollards



bollards without milled groove and reflectors
 color: black

Kg **Part-No.**

17.0 ^A 4014140

bollards with 2 milled grooves 15 mm wide
 and 2 reflecting bands,
 red on top, white at bottom

17.0 ^A 4014141

Stainless steel

Recycling-material post
Hemispherical head Ø 150 mm
 (hollow section)
 total length: 1500 mm

Barrier elements



bollard without milled grooves and reflecting bands
 color: brown

Kg **Part-No.**

14.0 ^B 4014150

bollards with 2 milled grooves 15 mm wide
 and 2 reflecting bands,
 red on top, white at bottom

14.0 ^B 4014151

Barrier gates

Outdoor equipment



Work site protection

Ornamental bollards

Ornamental bollards made of steel tube \varnothing 60 - 193 mm
Aluminium bollards
Ornamental bollards of square tube



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Ø 60 mm
Series 465
Page 72



Ø 60 mm
Series 466
Page 72



Ø 76 mm
Series 475
Page 74



Ø 82 mm
Series 484
Page 78



Ø 82 mm
Series 485
Page 78



Ø 89 mm
Series 488
Page 79

Ø 76 mm
Series 474
Page 74

Ø 76 mm
Series 478
Page 75

Ø 102 mm
Series 492
Page 81



Ø 60 mm
Series 468
Page 73



Ø 60 mm / Ø 82 mm
Ø 102 mm
Series 464 / 482 / 4092
Page 73 / 78 / 81



Ø 82 mm
Series 480
Page 77



Ø 82 mm
Series 481
Page 77



Ø 76 mm
Series 477
Page 76



Ø 76 mm
Series 4074
Page 76

Ø 89 mm
Series 487
Page 80

Ø 152 mm / Ø 193 mm
Series 40155 / 40195
Page 84

Ø 102 mm
Series 496
Page 81

Ø 89 mm
Series 4084
Page 79

Ø 102 mm
Series 494
Page 80

Ø 100 mm
Series 40101
Page 85

Ø 102 mm
Series 4091
Page 80

Ø 120 mm
Series 40120 / 40121
Page 85

Ø 152 mm / Ø 193 mm
Series 40156 / 40196
Page 84



Ø 60 / 110 mm
Series 490
Page 87



Ø 72 / 160 mm
Series 495
Page 86 / 87



Ø 76 / 100 mm
Series 479
Page 75



Ø 76 / 102 mm
Series 40102
Page 82



Ø 96 / 168 mm
Series 40168
Page 82



Ø 108 mm
Series 497
Page 83



Ø 140 mm
Series 40140
Page 83



70 x 70 mm
Series 473
Page 90



70 x 70 mm
Series 4073
Page 88



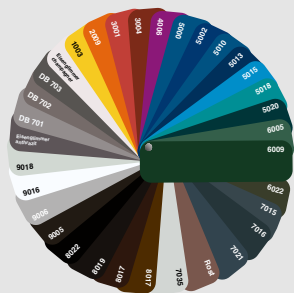
70 x 70 mm
Series 40731
Page 88



70 x 70 mm
Series 4071
Page 89

80 x 80 mm
Series 4081
Page 89

100 x 100 mm
Series 4075
Page 89



Color finishes of our barrier products
Other RAL colors and special paint finished on request; see page 7



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Ornamental bollard
of steel tube Ø 60 mm
approx. 950 mm above ground,
hot-dip galvanized and coated

Color:		Kg	Part-No.	Part-No.
Series 465B: RAL 7016	Stationary, for casting in concrete with ground anchor, total length: approx. 1300 mm	5.0 ^A	465B	466B
Series 466B: RAL 7016	Stationary, to be fixed by plugs with base plate 100 x 150 mm	4.0 ^A	465PB	466PB
	Removable, self-engaging lock, incl. ground rosette, with hot-dip galvanized ground socket part-no. 460.40, approx. 400 mm below ground			
	with triangular locking mechanism, acc. to DIN 3223	7.0 ^A	465FB	466FB
	with profile cylinder lock, three keys incl.	8.0 ^A	465ZB	
	Foldable to be fixed by plugs, self-engaging lock, with base plate 100 x 150 mm			
	with triangular locking mechanism, acc. to DIN 3223	6.0 ^A	465FUB	466FUB
	with profile cylinder lock, three keys incl.	7.0 ^A	465UZB	
	Foldable for casting in concrete, self-engaging lock, with hot-dip galvanized ground socket part-no. 470.60, approx. 400 mm below ground			
	with triangular locking mechanism, acc. to DIN 3223	8.0 ^A	465FUHB	466FUHB
	with profile cylinder lock, three keys incl.	9.0 ^A	465UZHB	



Ornamental bollard of steel tube Ø 60 mm

approx. 950 mm above
ground, hot-dip galvanized
and coated

Color:
Series 464B: DB 703

Series 468B: RAL 7016

Stationary,

for casting in concrete
with ground anchor,
total length: approx. 1300 mm

Kg **Part-No.** **Part-No.**

5.0 ^A 464B 468B

Stationary, to be fixed by plugs
with base plate 100 x 150 mm

4.0 ^A 464PB 468PB

Removable,

self-engaging lock, incl. ground rosette,
with hot-dip galvanized ground socket
part-no. 460.40, approx. 400 mm below ground

with triangular locking mechanism,
acc. to DIN 3223

7.0 ^A 464FB 468FB

with profile cylinder lock, three keys incl.

8.0 ^A 464ZB

Foldable to be fixed by plugs,

self-engaging lock,
with base plate 100 x 150 mm

with triangular locking mechanism,
acc. to DIN 3223

6.0 ^A 464FUB 468FUB

with profile cylinder lock, three keys incl.

7.0 ^A 464UZB

Foldable for casting in concrete,

self-engaging lock,
with hot-dip galvanized ground socket
part-no. 470.60, approx. 400 mm below ground

with triangular locking mechanism,
acc. to DIN 3223

8.0 ^A 464FUHB 468FUHB

with profile cylinder lock, three keys incl.

9.0 ^A 464UZHB



Other color finishes possible; see page 7



**Ornamental bollard**

of steel tube Ø 76 mm

approx. 950 mm above ground,
hot-dip galvanized and coated

Color:

Series 474: RAL 7016

Series 475: RAL 7016

Stationary,for casting in concrete
with ground anchor,
total length: approx. 1300 mm**Stationary, to be fixed by plugs**

with base plate 100 x 150 mm

Removable,self-engaging lock, incl. ground rosette,
with hot-dip galvanized ground socket
part-no. 476.40, approx. 400 mm below ground**with triangular locking mechanism,**

acc. to DIN 3223

with profile cylinder lock, three keys incl.**Foldable to be fixed by plugs,**self-engaging lock,
with base plate 100 x 150 mm**with triangular locking mechanism,**

acc. to DIN 3223

with profile cylinder lock, three keys incl.**Foldable for casting in concrete,**self-engaging lock,
with hot-dip galvanized ground socket
part-no. 470.60, approx. 400 mm below ground**with triangular locking mechanism,**

acc. to DIN 3223

with profile cylinder lock, three keys incl.

Kg

Part-No.

Part-No.

6.5 ^A

474B

475B

5.5 ^A

474PB

475PB

11.5 ^A

474FB

475FB

11.5 ^A

474ZB

7.0 ^A

474FUB

475FUB

9.0 ^A

474UZB

9.5 ^A

474FUHB

475FUHB

11.5 ^A

474UZHB



Ornamental bollard

of steel tube Ø 76 mm

approx. 950 mm above ground,
hot-dip galvanized and coated

Color:

Series 478: RAL 7016

Series 479: RAL 7016

Stationary,

for casting in concrete
with ground anchor,
total length: approx. 1300 mm

Stationary, to be fixed by plugs

with base plate 100 x 150 mm

Removable,

self-engaging lock, incl. ground rosette,
with hot-dip galvanized ground socket
part-no. 476.40, approx. 400 mm below ground

with triangular locking mechanism,

acc. to DIN 3223

Foldable to be fixed by plugs,

self-engaging lock,
with base plate 100 x 150 mm

with triangular locking mechanism,

acc. to DIN 3223

Foldable for casting in concrete,

self-engaging lock,
with hot-dip galvanized ground socket
part-no. 470.60, approx. 400 mm below ground

with triangular locking mechanism,

Kg	Part-No.	Part-No.
7.5 ^A	478B	479B
6.5 ^A	478PB	479PB
12.0 ^A	478FB	479FB
8.0 ^A	478FUB	479FUB
10.5 ^A	478FUHB	479FUHB

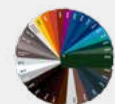


Available as border railing,
see page 130



Barrier posts also available with eyelets - add the following to the part-no.: +1 for one or +2 for 2 eyelets, accessories see page 56

Other color finishes possible;
see page 7





Rusty optic !

Ornamental bollard

of steel tube Ø 76 mm
approx. 950 mm above ground,
hot-dip galvanized and coated

Color:

Series 477: RAL 7016

Series 4074: DB 703

Stationary,

for casting in concrete
with ground anchor, total length
approx. 1300 mm

Stationary, to be fixed by plugs

with base plate 100 x 150 mm

Removable,

self-engaging lock, incl. ground rosette,
with hot-dip galvanized ground socket
part-no. 476.40, approx. 400 mm below ground

with triangular locking mechanism,

acc. to DIN 3223

with profile cylinder lock, three keys incl.

Foldable to be fixed by plugs,

self-engaging lock,
with base plate 100 x 150 mm

with triangular locking mechanism,

acc. to DIN 3223

with profile cylinder lock, three keys incl.

Foldable for casting in concrete,

self-engaging lock,
with hot-dip galvanized ground socket
part-no. 470.60, approx. 400 mm below ground

with triangular locking mechanism,

acc. to DIN 3223

with profile cylinder lock, three keys incl.

Kg

Part-No.

Part-No.

6.5 ^A 477B

4074B

5.5 ^A 477PB

4074PB

11.5 ^A 477FB

4074FB

11.5 ^A 477ZB

7.0 ^A 477FUB

9.0 ^A 477UZB

9.5 ^A 477FUHB

11.5 ^A 477UZHB





Ornamental bollard

of steel tube Ø 82 mm

approx. 800 mm above ground,
hot-dip galvanized and coated

Color:

Series 480: RAL 7016

Series 481: RAL 7016

Stationary,

for casting in concrete
with ground anchor,
total length: approx. 1300 mm

Stationary, to be fixed by plugs

with base plate 100 x 150 mm

Removable,

self-engaging lock, incl. ground rosette,
with hot-dip galvanized ground socket
part-no. 470.10, approx. 500 mm below ground

with triangular locking mechanism,

acc. to DIN 3223

with profile cylinder lock, three keys incl.

Foldable to be fixed by plugs,

self-engaging lock,
with base plate 100 x 150 mm

with triangular locking mechanism,

acc. to DIN 3223

with profile cylinder lock, three keys incl.

Foldable for casting in concrete,

self-engaging lock,
with hot-dip galvanized ground socket
part-no. 470.60, approx. 400 mm below ground

with triangular locking mechanism,

acc. to DIN 3223

with profile cylinder lock, three keys incl.



Kg	Part-No.	Part-No.
9.5 A	480B	481B
8.5 A	480PB	481PB
12.5 A	480FB	481FB
13.0 A	480ZB	
9.0 A	480FUB	481FUB
10.0 A	480UZH	
11.0 A	480FUHB	481FUHB
12.5 A	480UZHB	



Barrier posts also available with eyelets - add the following to the
part-no.: +1 for one eyelet or +2 for 2 eyelets;
accessories see page 56



Other color finishes possible;
see page 7

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Ornamental bollard
of round steel tube Ø 82 mm
approx. 900 mm above ground,
hot-dip galvanized and coated

Color:
Series 482: DB 703
Series 484: RAL 9005 (jet black)
Series 485: RAL 9005 (jet black)



482B



484B



485B

	Kg	Part-No.	Part-No.	Part-No.
Stationary, for casting in concrete with ground anchor, total length: approx. 1300 mm	9.5 ^A	482B	484B	485B
to be fixed by plugs with base plate 100 x 150 mm	8.5 ^A	482PB	484PB	485PB
Removable, self-engaging lock, incl. ground rosette, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground				
with triangular locking mechanism, acc. to DIN 3223	13.0 ^A	482FB	484FB	485FB
with profile cylinder lock, three keys incl.	13.0 ^A	482ZB	484ZB	485ZB
Foldable to be fixed by plugs, self-engaging lock, with base plate 100 x 150 mm				
with triangular locking mechanism, acc. to DIN 3223	9.0 ^A	482FUB	484FUB	485FUB
with profile cylinder lock, three keys incl.	10.0 ^A	482UZB	484UZB	485UZB
Foldable for casting in concrete, self-engaging lock, with hot-dip galvanized ground socket part-no. 470.60, approx. 400 mm below ground				
with triangular locking mechanism, acc. to DIN 3223	11.0 ^A	482FUHB	484FUHB	485FUHB
with profile cylinder lock, three keys incl.	12.5 ^A	482UZHB	484UZHB	485UZHB

Ornamental bollard
of round steel tube \varnothing 89 mm
approx. 950 mm above ground,
hot-dip galvanized and coated



487B



488B



4084B

With hemisphere head

color: RAL 7016

Stationary, for casting in concrete

with ground anchor,
total length: approx. 1300 mm

Kg

Part-No.

8.2 ^A

487B

Removable, with triangular locking mechanism

acc. to DIN 3223, self-engaging lock,
with hot-dip galvanized ground socket
part-no. 470.10

11.9 ^A

487FB

With globe head

color: RAL 7016

Stationary, for casting in concrete

with ground anchor,
total length: approx. 1300 mm

8.0 ^A

488B

Removable, with triangular locking mechanism

acc. to DIN 3223, self-engaging lock,
with hot-dip galvanized ground socket
part-no. 470.10

11.6 ^A

488FB

With flat head

color: DB 703

Stationary, for casting in concrete

with ground anchor,
total length: approx. 1300 mm

8.6 ^A

4084B

Removable, with triangular locking mechanism

acc. to DIN 3223, self-engaging lock,
with hot-dip galvanized ground socket
part-no. 470.10

12.5 ^A

4084FB

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Ornamental bollard of steel tube Ø 102 mm
approx. 950 mm above ground,
hot-dip galvanized and coated



494B



492B



4091B

With hemisphere head

color: RAL 7016

Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

Kg

Part-No.

9.5 ^A

494B

Removable, with triangular locking mechanism

acc. to DIN 3223, self-engaging lock,
with hot-dip galvanized ground socket
part-no. 470.10

13.8 ^A

494FB

With globe head

color: RAL 7016

Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

9.5 ^A

492B

Removable, with triangular locking mechanism

acc. to DIN 3223, self-engaging lock,
with hot-dip galvanized ground socket
part-no. 470.10

13.8 ^A

492FB

With flat head

color: DB 703

Stationary, for casting in concrete

with ground anchor, total length: approx. 1300 mm

9.5 ^A

4091B

Removable, with triangular locking mechanism

acc. to DIN 3223, self-engaging lock,
with hot-dip galvanized ground socket
part-no. 470.10

13.8 ^A

4091FB

Ornamental bollard

of steel tube Ø 102 mm

approx. 950 mm above ground,
hot-dip galvanized and coated



4092B



496B

With aluminium head and decorative ring

color: RAL 7016

Stationary, for casting in concrete

with ground anchor, total length: approx. 1300 mm

Kg

Part-No.

9.5 ^A

4092B

Removable,

self-engaging lock, incl. ground rosette,

with hot-dip galvanized ground socket

part-no. 470.10, approx. 500 mm below ground

with triangular locking mechanism,

acc. to DIN 3223

13.8 ^A

4092FB

with profile cylinder lock, three keys incl.

12.8 ^A

4092ZB

With hemispherical head

color: RAL 7016

Stationary, for casting in concrete

with ground anchor, total length: approx. 1300 mm

9.5 ^A

496B

Removable, with triangular locking mechanism

incl. ground rosette, self-engaging lock,

with hot-dip galvanized ground socket

part-no. 470.10, approx. 500 mm below ground

with triangular locking mechanism,

acc. to DIN 3223

13.8 ^A

496FB

with profile cylinder lock, three keys incl.

12.8 ^A

496ZB



Barrier posts also available with eyelets - add the following to the part-no.: +1 for one or +2 for 2 eyelets, accessories see page 56



Other color finishes possible;
see page 7



Posts can be delivered simultaneously locking or in a locking system; see page 49

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Ornamental bollard of steel tube
conical Ø 102 / 76 mm,
with ornamental cap, approx.
900 mm above ground,
hot-dip galvanized and
coated anthracite grey
(RAL 7016)



The beauty of this bollards is simple classic shape, which is attractive both in historical city centers and in modern environments

	Kg	Part-No.
Stationary, for casting in concrete with ground anchor, total length: approx. 1300 mm	8.0 ^A	40102B
Stationary, to be fixed by plugs with base plate Ø 180 mm	7.5 ^A	40102PB
Removable, with triangular locking mechanism acc. to DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground	13.0 ^A	40102FB

40102B

Ornamental bollard of steel tube
conical Ø168 / 96 mm
with ornamental cap, approx.
750 mm above ground,
hot-dip galvanized and coated
(RAL 8019)



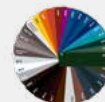
	Kg	Part-No.
Stationary, for casting in concrete with ground anchor, total length: approx. 1050 mm	11.0 ^A	40168B
Stationary, to be fixed by plugs with base plate 220 x 220 mm	10.0 ^A	40168PB
Removable, with triangular locking mechanism acc. to DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground	14.8 ^A	40168FB

82 40168B



Barrier posts also available with eyelets - add the following to the part-no.: +1 for one or +2 for 2 eyelets, accessories see page 56

Other color finishes possible;
see page 7



Ornamental bollard
 steel tube \varnothing 108 mm,
 with ornamental rings hot-dip
 galvanized and coated (RAL 7016)



497B



Height above ground: 750 mm
 Overall height: 1100 mm

Height above ground: 950 mm
 Overall height: 1300 mm

Stationary, for casting in concrete
 with ground anchor

Kg	Part-No.
11.0 A	4971B

Kg	Part-No.
12.0 A	497B

Stationary, to be fixed by plugs
 with base plate \varnothing 180 mm

9.0 A	4971PB
-------	--------

10.0 A	497PB
--------	-------

Removable, with triangular locking mechanism
 acc. to DIN 3223, self-engaging lock,
 with hot-dip galvanized ground socket
 part-no. 470.10, approx. 500 mm
 below ground

16.0 A	4971FB
--------	--------

17.0 A	497FB
--------	-------

Ornamental bollard of steel tube

\varnothing 140 mm, with aluminium globe and chain eyelets
 approx. 950 mm above ground, hot-dip
 galvanized and coated DB703



40140B/2

Stationary, for casting in concrete
 with ground anchor
 total length: 1400 mm

Kg	Part-No.
15.0 A	40140B/2

Removable, with triangular locking mechanism
 acc. to DIN 3223, self-engaging lock,
 with hot-dip galvanized ground socket

23.0 A	40140FB/2
--------	-----------

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Ornamental bollard of steel tube \varnothing 152 mm

with flat head,
approx. 950 mm above ground,
hot-dip galvanized and coated DB 703



40155B

40156B

Stationary, for casting in concrete

Removable,
self-engaging lock, incl. ground rosette,
with hot-dip galvanized ground socket
part-no. 470.10, approx. 500 mm below ground

with triangular locking mechanism,
acc. to DIN 3223

with profile cylinder lock, three keys incl.

	with aluminium head and decorative ring	with flat head
Kg	Part-No.	Part-No.
14.5 ^A	40155B	40156B

Ornamental bollard of steel tube \varnothing 193 mm

approx. 950 mm above ground,
hot-dip galvanized and coated DB 703



40195B

40196B

Stationary, for casting in concrete
with ground anchor

Removable,
self-engaging lock, incl. ground rosette,
with hot-dip galvanized ground socket
part-no. 470.10, approx. 500 mm below ground

with triangular locking mechanism,
acc. to DIN 3223

with profile cylinder lock, three keys incl.

Kg	Part-No.	Part-No.
24.0 ^A	40195B	40196B
30.5 ^A	40195FB	40196FB
29.0 ^A	40195ZB	

Bollard of thick-walled aluminium Ø 100 mm

8 mm wall thickness, with decorative groove, approx. 950 mm above ground, bottom part of hot-dip galvanized steel tube, coated RAL 7016



40101B

	Kg	Part-No.
Stationary, for casting in concrete with ground anchor	9.0 ^A	40101B
Stationary, to be fixed by plugs with base plate Ø 180 mm	8.0 ^A	40101PB
Removable, with triangular locking mechanism acc. to DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground	13.0 ^A	40101FB

Bollard of thick-walled aluminium Ø 120 mm

8 mm wall thickness, with decorative groove, anthracite grey RAL 7016 coated, bottom part of hot-dip galvanized steel tube



40121FB

	Height above ground: 750 mm Overall height: 1050 mm		Height above ground: 900 mm Overall height: 1200 mm	
	Kg	Part-No.	Kg	Part-No.
Stationary, for casting in concrete with ground anchor	9.0 ^A	40120B	10.5 ^A	40121B
Stationary, to be fixed by plugs with base plate Ø 180 mm	8.0 ^A	40120PB	9.5 ^A	40121PB
Removable, with triangular locking mechanism acc. to DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground	14.5 ^A	40120FB	16.0 ^A	40121FB



Other color finishes possible; see page 7



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Aluminium ornamental bollard

coated anthracite grey (metallic-grey), approx. 900 mm above ground, cast aluminium with steel rod core



495FB

Stationary, for casting in concrete
with ground anchor, total length: approx. 1300 mm

- without eyelet
- with 1 eyelet
- with 2 eyelets

Kg

Part-No.

- 9.5 ^A 495B
- 9.5 ^A 495B+1
- 9.5 ^A 495B+2

Removable, with triangular locking mechanism
acc. to DIN 3223, self-engaging lock,
with hot-dip galvanized ground socket part-no. 470.10,
approx. 500 mm below ground

- without eyelet
- with 1 eyelet
- with 2 eyelets

- 12.0 ^A
- 12.0 ^A
- 12.0 ^A

- 495FB
- 495FB+1
- 495FB+2

Aluminium miniature bollards

coated anthracite grey (metallic grey), approx. 460 mm above ground, cast aluminium with steel rod core



495MB

Stationary, for casting in concrete
with ground anchor, total length: approx. 800 mm

- without eyelet
- with 2 eyelets

Kg

Part-No.

- 3.5 ^A 495MB
- 3.5 ^A 495MB+2



Other color finishes possible; see page 7



Aluminium ornamental post

cast aluminium with steel rod core,
approx. 900 mm above ground,
coated matt black



490FB

Stationary, for casting in concrete

with ground anchor, total length: approx. 1300 mm

- without eyelet
- with 1 eyelet
- with 2 eyelets

Kg **Part-No.**

- 6.5 ^A 490B
- 6.5 ^A 490B+1
- 6.5 ^A 490B+2

Removable, with triangular locking mechanism

acc. to DIN 3223, self-engaging lock,
with hot-dip galvanized ground socket part-no. 460.40,
approx. 400 mm below ground

- without eyelet
- with 1 eyelet
- with 2 eyelets

- 9.5 ^A 490FB
- 9.5 ^A 490FB+1
- 9.5 ^A 490FB+2

Ornamental protective railing

assembled from prefabricated parts
on site. The hinge joints make these
railings very flexible to set up. The
hinge joints can be set up vertically or
horizontally up to 90°.

Powder-coated in common RAL colors,
see page color finishes.



495.11B



495.12B

Aluminium ornamental bollard

coated anthracite grey (metallic grey),
approx. 900 mm above ground,
cast aluminium with steel rod core

- end post for top bar
- middle post for top bar
- corner post for top bar 90°

- 10.0 ^A 495.01B
- 10.0 ^A 495.02B
- 10.0 ^A 495.03B

- end post for top and knee bar
- middle post for top and knee bar
- corner post for top and knee bar 90°

- 12.5 ^A 495.11B
- 12.5 ^A 495.12B
- 12.5 ^A 495.13B

Cross bar

steel tube \varnothing 33.7 mm, length: 2000 mm, hot-dip galvanized
and coated anthracite grey (metallic grey) cross bar, including
aluminium connection sockets for straight horizontal position

- 3.0 ^B 495.20B

Joint element

aluminium joint element for use up to 90°,
for different slopes and angle positions

- 0.5 ^A 495.24B



495.24B

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Ornamental bollard of square steel tube 70 x 70 mm

with flat bar steel top, approx. 950 mm above ground, hot-dip galvanized and DB 703 coated



Stationary, for casting in concrete

with ground anchor, total length: approx. 1300 mm

Kg

Part-No.

8.5 ^A

4073B

Stationary, to be fixed by plugs

with base plate 100 x 150 mm

7.0 ^A

4073PB

Removable, with triangular locking mechanism

acc. to DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground

13.0 ^A

4073FB

Ornamental bollard of square steel tube 70 x 70 mm

with flat bar steel top, approx. 950 mm above ground, hot-dip galvanized and DB 703 coated



Rusty optic !



Stationary, for casting in concrete

with ground anchor, total length: approx. 1300 mm

8.5 ^A

40731B

Stationary, to be fixed by plugs

with base plate 100 x 150 mm

7.0 ^A

40731PB

Removable, with triangular locking mechanism

acc. to DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground

13.0 ^A

40731FB

Ornamental bollard of square steel tube 70 x 70 mm

with flat bar steel top, approx. 900 mm above ground, hot-dip galvanized and DB703 coated



	Kg	Part-No.
Stationary, for casting in concrete with ground anchor, total length: approx. 1300 mm	7.0 ^A	4071B
Stationary, to be fixed by plugs with base plate 100 x 150 mm	7.0 ^A	4071PB
Removable, with triangular locking mechanism acc. to DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground	11.5 ^A	4071FB
Stationary, for casting in concrete with ground anchor, total length: approx. 1200 mm	9.0 ^A	4081B
Stationary, to be fixed by plugs with base plate 200 x 200 mm	8.5 ^A	4081PB
Removable, with triangular locking mechanism acc. to DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground	14.5 ^A	4081FB
Stationary, for casting in concrete with ground anchor, total length: approx. 1200 mm	11.0 ^A	4075B
Stationary, to be fixed by plugs with base plate 200 x 200 mm	10.0 ^A	4075PB
Removable, with triangular locking mechanism acc. to DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground	16.5 ^A	4075FB

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Ornamental bollard of steel tube 70 x 70 mm

with ornamental cap, approx. 950 mm
above ground, hot-dip galvanized and
coated RAL 7016

Stationary

for casting in concrete

with ground anchor,
total length: approx. 1300 mm

to be fixed by plugs

with base plate 100 x 150 mm

Removable,

self-engaging lock, incl. ground rosette,
with hot-dip galvanized ground socket
part-no. 470.10, approx. 500 mm below ground

with triangular locking mechanism,

acc. to DIN 3223

with profile cylinder lock, three keys incl.

Foldable to be fixed by plugs,

self-engaging lock, with base plate 100 x 150 mm

with triangular locking mechanism,

acc. to DIN 3223

with profile cylinder lock, three keys incl.

Foldable for casting in concrete,

self-engaging lock, with hot-dip galvanized
ground socket part-no. 470.60,
approx. 400 mm below ground

with triangular locking mechanism,

acc. to DIN 3223

with profile cylinder lock, three keys incl.

Kg	with decorative ring Part-No.	without decorative ring Part-No.
8.5 ^A	473B	4730B
8.5 ^A	473PB	4730PB
13.0 ^A	473FB	4730FB
14.5 ^A	473ZB	4730ZB
9.0 ^A	473FUB	4730FUB
10.5 ^A	473UZB	4730UZB
11.5 ^A	473FUHB	4730FUHB
13.5 ^A	473UZHB	4730UZHB



473FB

4730B



Other color finishes possible; see page 7
Barrier posts also available with eyelets; see page 56



Stainless steel

- Stainless steel barrier posts
- Stainless steel bollards
- Stainless steel hoops
- Corten steel bollards
- Lean-on hoops made of corten steel



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



**Stainless steel post
70 x 70 mm**

glass-bead blasted,
above ground: approx.
900 mm, with flat head



4070FU

	Kg	Part-No.
Stationary		
for casting in concrete		
with ground anchor	5.4 ^A	4070
total length: 1200 mm		
to be fixed by plugs		
with base plate 100 x 150 mm	4.9 ^A	4070P
Removable		
self-engaging lock, incl. ground rosette, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground		
with triangular locking mechanism acc. to DIN 3223	10.3 ^A	4070F
with profile cylinder lock , three keys incl.	13.1 ^A	4070Z
Foldable to be fixed by plugs,		
self-engaging lock, with base plate 100 x 150 mm		
with triangular locking mechanism acc. to DIN 3223	6.7 ^A	4070FU
with profile cylinder lock , three keys incl.	7.8 ^A	4070UZ
Foldable for casting in concrete,		
self-engaging lock, with hot-dip galvanized ground socket part-no. 470.60, approx. 400 mm below ground		
with triangular locking mechanism acc. to DIN 3223	9.2 ^A	4070FUH
with profile cylinder lock , three keys incl.	10.0 ^A	4070UZH



Posts can be delivered simultaneously locking or in a locking system; see page 49



Stainless steel post Ø 60 mm
grinded, above ground: approx. 900 mm,
convex head

	Kg	Part-No.
Stationary, for casting in concrete total length: 1200 mm	3.7 ^A	4062
Stationary, to be fixed by plugs with base plate Ø 120 x 5 mm	3.3 ^A	4062P



Suitable mounting material for this product:
set of mounting bolts type 1VA
Part-No.
470.76
Further accessories page 49

Removable, with triangular locking mechanism acc. to DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 460.40, approx. 400 mm below ground	7.0 ^A	4062F
Removable, with Euro profile cylinder lock three keys, self-engaging lock, with hot-dip galvanized ground socket part-no. 460.40	7.4 ^A	4062Z

Accessories

Chain eyelets: Please add +1 / +2 to the part-no.

Extra charge per eyelet

Barrier chain of stainless steel Ø 5 mm	0.5 ^A	430.55
Connecting links	0.1 ^A	430.56
Chain bolting mechanism	0.1 ^A	430.57

Stainless steel care spray, content: 400 ml

cleaning and care spray

for long-lasting protective film

	0.5 ^A	430.58
--	------------------	--------

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



**Stainless steel post
Ø 76 mm**

grinded, convex head
above ground approx. 900 mm



4072



4272

	Kg	Without decorative groove Part-No.	With decorative groove Part-No.
Stationary			
for casting in concrete			
with ground anchor, total length: 1300 mm	5.0 A	4072	4272
to be fixed by plugs			
with base plate 100 x 150 mm	5.0 A	4072P	4272P
Removable			
self-engaging lock, incl. ground rosette, with hot-dip galvanized ground socket part-no. 476.40, approx. 400 mm below ground			
with triangular locking mechanism, acc. to DIN 3223	9.0 A	4072F	4272F
with profile cylinder lock, three keys incl.	10.5 A	4072Z	4272Z
Foldable to be fixed by plugs,			
self-engaging lock, with base plate 100 x 150 mm			
with triangular locking mechanism, acc. to DIN 3223	6.5 A	4072FU	4272FU
with profile cylinder lock, three keys incl.	7.0 A	4072UZ	4272UZ
Foldable for casting in concrete,			
self-engaging lock, with hot-dip galvanized ground socket part-no. 470.60, approx. 400 mm below ground			
with triangular locking mechanism, acc. to DIN 3223	8.0 A	4072FUH	4272FUH
with profile cylinder lock, three keys incl.	9.0 A	4072UZH	4272UZH



Posts can be delivered simultaneously locking or in a locking system; see page 49



Stainless steel post

grinded, convex head
above ground: approx. 900 mm



4089



40103P

Stationary, for casting in concrete

total length: 1200 mm

Stationary, to be fixed by plugs

with base plate \varnothing 150 x 6 mm

Removable, with triangular locking mechanism

acc. to DIN 3223, self-engaging lock,
with hot-dip galvanized ground socket part-no. 470.10

Removable, with Euro profile cylinder lock

three keys, self-engaging lock,
with hot-dip galvanized ground socket part-no. 470.10

\varnothing 89 mm
Kg Part-No.

5.4 ^A 4089

5.1 ^A 4089P

10.3 ^A 4089F

12.0 ^A 4089Z

\varnothing 102 mm
Kg Part-No.

6.2 ^A 40103

5.7 ^A 40103P

12.0 ^A 40103F

12.0 ^A 40103Z



Suitable mounting material for this product:

set of mounting bolts type 2VA

Part-No.

470.77

Further accessories page 49

Barrier posts

Stainless steel post maintain high value and their attraction is timeless.

Car-park barriers

**Stainless steel post
Ø 154 mm**
grinded, with flat head,
stationary



Ornamental bollards



	Total length in mm	Kg	Part-No.
Stationary for casting in concrete with ground anchor	Approx. 900	7.0 ^A	40154
	Approx. 1200	9.5 ^A	40155
For plugging down with base plate Ø 250 mm	Approx. 600	7.5 ^A	40154P
	Approx. 900	10.0 ^A	40155P
Removable self-engaging lock, with hot-dip galvanized ground socket part-no. 470.10, above ground approx. 900 mm			
Removable, with triangular locking mechanism acc. to DIN 3223		14.0 ^A	40154F
Removable, with Euro profile cylinder lock, three keys		14.0	40154Z

Stainless steel

Barrier elements

**Stainless steel post
Ø 204 mm**
grinded, with flat head,
stationary



	Total length in mm	Kg	Part-No.
Stationary for casting in concrete with ground anchor	Approx. 900	10.0 ^A	40204
	Approx. 1200	13.0 ^A	40205
For plugging down with base plate Ø 250 mm	Approx. 600	10.0 ^A	40204P
	Approx. 900	13.0 ^A	40205P
Removable self-engaging lock, with hot-dip galvanized ground socket part-no. 470.10, above ground approx. 900 mm			
Removable, with triangular locking mechanism acc. to DIN 3223		15.5 ^A	40204F
Removable, with Euro profile cylinder lock, three keys		15.5 ^A	40204Z

Barrier gates

Outdoor equipment

Work site protection



Suitable mounting material for this product:

set of mounting bolts type 2VA

Part-No.

470.77

Further accessories page 49



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Fully retractable stainless steel post Ø 154 mm
ground, with flat head



with gas spring
with triangular lock

Kg
20.0 ^A

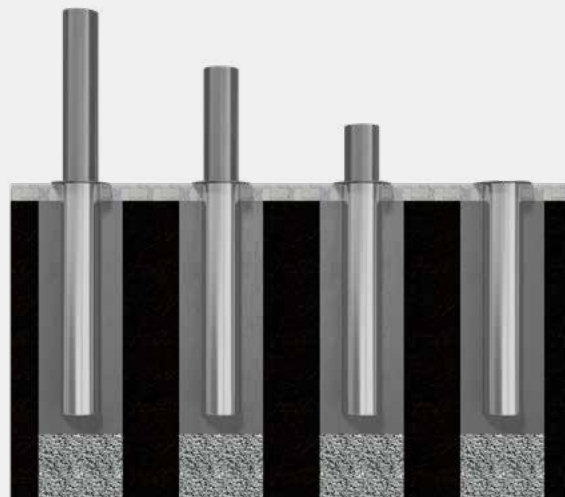
Part-No.
40154VER

height above ground approx. 750 mm

with hot-dip galvanized
ground sleeve Ø 168.3 mm



- stainless steel
- semi-automatic moves up by gas pressure
- to be unlocked by triangular lock
- easy handling



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Stainless steel hoop
 \varnothing 48 mm
grinded surface



Without cross bar, for casting in concrete

Total width	Total height	Kg	Part-No.
800 mm	1200 mm	9.0 ^B	449.09
1000 mm	1200 mm	9.5 ^B	449.12
1200 mm	1200 mm	10.0 ^B	449.13



With cross bar, for casting in concrete

Total width	Total height	Kg	Part-No.
800 mm	1200 mm	11.0 ^B	449.21
1000 mm	1200 mm	12.5 ^B	449.22
1200 mm	1200 mm	13.5 ^B	449.23



Universal hoop, for casting in concrete

Total width	Total height	Kg	Part-No.
300 mm	1200 mm	9.0 ^A	449.30



Round hoop, for casting in concrete

Total width	Total height	Kg	Part-No.
460 mm	1200 mm	7.5 ^A	449.46
650 mm	1200 mm	8.0 ^B	449.65



Round hoop with cross bar, for casting in concrete

Total width	Total height	Kg	Part-No.
650 mm	1200 mm	10.0 ^B	449.66



**Stainless steel hoop
 \varnothing 48 mm**

grinded surface, for plugging down,
with base plate \varnothing 120 x 5 mm



Without cross bar, for plugging down

Total width	Total height	Kg	Part-No.
800 mm	800 mm	7.5 ^B	449.09P
1000 mm	800 mm	8.0 ^B	449.12P
1200 mm	800 mm	9.0 ^B	449.13P



With cross bar, for plugging down

Total width	Total height	Kg	Part-No.
800 mm	800 mm	10.0 ^B	449.21P
1000 mm	800 mm	11.0 ^B	449.22P
1200 mm	800 mm	12.0 ^B	449.23P



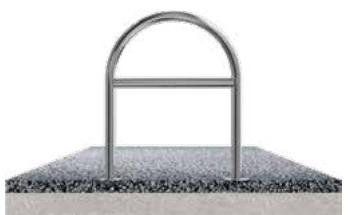
Universal hoop, for plugging down

Total width	Total height	Kg	Part-No.
300 mm	800 mm	6.0 ^A	449.30P



Round hoop, for plugging down

Total width	Total height	Kg	Part-No.
460 mm	800 mm	6.0 ^A	449.46P
650 mm	800 mm	7.0 ^B	449.65P



Round hoop with cross bar, for plugging down

Total width	Total height	Kg	Part-No.
650 mm	800 mm	8.0 ^B	449.66P



Suitable mounting material for this product: set of mounting bolts type 1.2VA

Part-No.
470.762

Further accessories pages 49-56

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Stainless steel bicycle lean-on hoop \varnothing 48 mm

very attractive and functional design, ground surface

total width: approx. 1400 mm
height above ground: approx. 850 mm

For casting in concrete

For plugging down
with base plate \varnothing 120 mm
pitch circle \varnothing 94 mm,
3 holes \varnothing 14 mm

Kg Part-No.

9.0 ^B 449.50

8.0 ^B 449.50P

Stainless steel bicycle lean-on hoop \varnothing 48 mm

miter-welded, for casting in concrete
Ground surface



Total width	Total height	Kg	Part-No.
500 mm	1200 mm	8.5 ^A	449.85
700 mm	1200 mm	9.0 ^B	449.86
1000 mm	1200 mm	9.5 ^B	449.87
1200 mm	1200 mm	10.5 ^B	449.88



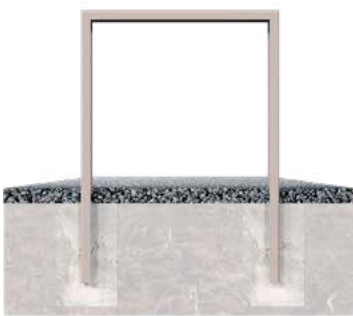
Ornamental bollard made of corten steel tube 80 x 80 mm

with flat head, approx. 900 mm above ground, surface raw, optical pre-rusted

	Kg	Part-No.
Stationary, for casting in concrete with ground anchor, total length: approx. 1200 mm	9.0 ^A	4481
Stationary, to be fixed by plugs with base plate 200 x 200 mm	8.5 ^A	4481P
Removable, with triangular locking mechanism acc. to DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground	14.5 ^A	4481F

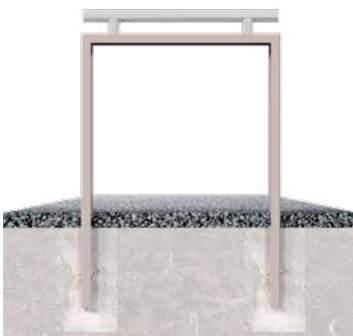
Lean-on hoop made of corten steel

for casting in concrete, total height: approx. 1100 mm, for casting in concrete, surface raw, optical pre-rusted



U-profile 80 x 40 mm

Total width	Kg	Part-No.
750 mm	20.0 ^B	4450.075



U-profile 80 x 40 mm

with upper part made of stainless steel \varnothing 48 mm

Total width	Kg	Part-No.
750 mm	21.5 ^B	4450.175



Lean on hoops are manufactured to order. Orders cannot be cancelled, these products cannot be returned.

Barrier elements

- Tubular hoops
- Access barriers
- Height restriction barriers
- Mobile manual barrier
- Protective railing
- City fence / railing



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

- Hoops for protection
- To secure sidewalks, separate roadways, block green areas from cars or protect trees and plants
- Suitable for production areas and stocks
- As lean-on hoop for bicycles



Steel tube Ø 48 x 2.5 mm



Without cross bar, for casting in concrete

hot-dip galvanized

galvanized and white coated with red reflecting stripes

Total width	Total height	Kg	Part-No.	Part-No.
1000 mm	1000 mm	8.0 ^B	448.06	448.06B
1500 mm	1000 mm	9.5 ^B	448.07	448.07B
2000 mm	1000 mm	10.5 ^B	448.08	448.08B
700 mm	1200 mm	8.0 ^B	448.11	448.11B
1000 mm	1200 mm	9.0 ^B	448.12	448.12B
1200 mm	1200 mm	9.4 ^B	448.13	448.13B
500 mm	1400 mm	9.0 ^A	448.09	448.09B
1000 mm	1400 mm	10.0 ^B	448.10	448.10B
1500 mm	1400 mm	11.0 ^B	448.15	448.15B
2000 mm	1400 mm	13.0 ^B	448.20	448.20B
2500 mm	1400 mm	14.5 ^C	448.25	448.25B

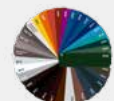


Without cross bar, for plugging down

1000 mm	1000 mm	9.0 ^B	448.52	448.52B
1500 mm	1000 mm	10.5 ^B	448.53	448.53B
2000 mm	1000 mm	12.0 ^B	448.54	448.54B



Other color finishes possible; see page 7
 Other dimensions available on request. Powder-coats are made to order.
 Orders cannot be cancelled or deliveries returned.





Steel tube \varnothing 48 x 2.5 mm



With cross bar, for casting in concrete

hot-dip galvanized

galvanized and white coated with red reflecting stripes

Total width	Total height	Kg	Part-No.	Part-No.
700 mm	1200 mm	10.0 ^B	448.21	448.21B
1000 mm	1200 mm	11.5 ^B	448.22	448.22B
1200 mm	1200 mm	12.5 ^B	448.23	448.23B
500 mm	1400 mm	10.0 ^A	448.31	448.31B
1000 mm	1400 mm	12.5 ^B	448.32	448.32B
1500 mm	1400 mm	15.5 ^B	448.33	448.33B
2000 mm	1400 mm	18.5 ^B	448.34	448.34B
2500 mm	1400 mm	21.0 ^C	448.35	448.35B



With cross bar, for plugging down

1000 mm	1000 mm	12.0 ^B	448.62	448.62B
1500 mm	1000 mm	14.5 ^B	448.63	448.63B
2000 mm	1000 mm	17.5 ^B	448.64	448.64B



Steel tube Ø 60 x 2.5 mm



Without cross bar, for casting in concrete

hot-dip galvanized

galvanized and white coated with red reflecting stripes

Total width	Total height	Kg	Part-No.	Part-No.
1000 mm	1000 mm	9.5 B	465.06	465.06B
1500 mm	1000 mm	11.5 B	465.07	465.07B
2000 mm	1000 mm	13.0 B	465.08	465.08B
700 mm	1200 mm	10.0 B	465.11	465.11B
1000 mm	1200 mm	11.0 B	465.12	465.12B
1200 mm	1200 mm	12.0 B	465.13	465.13B
500 mm	1400 mm	11.0 B	465.09	465.09B
1000 mm	1400 mm	12.5 B	465.10	465.10B
1500 mm	1400 mm	14.5 B	465.15	465.15B
2000 mm	1400 mm	16.0 B	465.20	465.20B
2500 mm	1400 mm	18.0 C	465.25	465.25B



Without cross bar, for plugging down

1000 mm	1000 mm	11.0 B	465.52	465.52B
1500 mm	1000 mm	13.0 B	465.53	465.53B
2000 mm	1000 mm	14.5 B	465.54	465.54B



Steel tube Ø 60 x 2.5 mm



hot-dip galvanized



galvanized and white coated with red reflecting stripes

With cross bar, for casting in concrete

Total width	Total height	Kg	Part-No.	Part-No.
700 mm	1200 mm	12.0 ^B	465.21	465.21B
1000 mm	1200 mm	14.5 ^B	465.22	465.22B
1200 mm	1200 mm	15.5 ^B	465.23	465.23B
500 mm	1400 mm	12.0 ^A	465.31	465.31B
1000 mm	1400 mm	15.5 ^B	465.32	465.32B
1500 mm	1400 mm	19.5 ^B	465.33	465.33B
2000 mm	1400 mm	23.0 ^B	465.34	465.34B
2500 mm	1400 mm	26.5 ^C	465.35	465.35B



With cross bar, for plugging down

1000 mm	1000 mm	14,0 ^B	465.62	465.62B
1500 mm	1000 mm	17,5 ^B	465.63	465.63B
2000 mm	1000 mm	21,0 ^B	465.64	465.64B



Other dimensions, quantities available on request. Powder-coats are made to order. Orders cannot be cancelled or deliveries returned

Barrier posts

Round hoops of steel tube Ø 48 X 2.5 mm



Car-park barriers

Ornamental bollards

Stainless steel



For casting in concrete,
steel tube Ø 48 mm, total height: approx. 1200 mm

Without cross bar
total width: approx. 460 mm

hot-dip galvanized

Kg Part-No.

7.0 ^A 448.046

hot-dip galvanized and coated
color: green (RAL 6005)

7.0 ^A 448.046B

Barrier elements



Without cross bar
total width: approx. 650 mm

hot-dip galvanized

7.5 ^B 448.065

hot-dip galvanized and coated
color: green (RAL 6005)

7.5 ^B 448.065B

Barrier gates



With cross bar
total width: approx. 650 mm

hot-dip galvanized

9.0 ^B 448.066

hot-dip galvanized and coated
color: green (RAL 6005)

9.0 ^B 448.066B

Outdoor equipment

Work site protection

Optionally available with:

Base plate 100 x 150 mm
(The total height changes to 900 mm)

add letter **P** to the part-no.

Tree guard hoops

our tree guard hoops give an effective contribution to environmental protection. They help preserve valuable stocks of trees from impact by parking cars. They are also ideal for protecting lamps, etc.



Tree guard hoops



For casting in concrete

Steel tube Ø 48 x 2.5 mm

total width: approx. 750 mm
total height: approx. 1400 mm

Steel tube Ø 60 x 2.5 mm

total width: approx. 800 mm
total height: approx. 1450 mm

	Kg	Part-No.	Kg	Part-No.
hot-dip galvanized	8.5 ^B	443.00	11.0 ^B	463.00
hot-dip galvanized and coated color: green (RAL 6005)	8.5 ^B	443.00B	11.0 ^B	463.00B



Universal hoop



For casting in concrete

Steel tube Ø 48 mm

total width: approx. 300 mm
total height: approx. 1400 mm

Steel tube Ø 60 mm

total width: approx. 400 mm
total height: approx. 1400 mm

	Kg	Part-No.	Kg	Part-No.
hot-dip galvanized	8.0 ^A	448.70	10.5 ^A	465.70
hot-dip galvanized and coated color: green (RAL 6005)	8.0 ^A	448.70B	10.5 ^A	465.70B

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Anti-nudge hoop for trees and posts

steel tube construction with 2 hoops Ø 60 mm with welded-on-cross-bars Ø 48 mm for nesting



For casting in concrete

hot-dip galvanized

galvanized and white coated with red reflecting stripes

Total width	Total depth	Height above ground	Kg	Part-No.	Part-No.
600 mm	600 mm	650 mm	21.5 ^B	465.066	465.066B
800 mm	800 mm	800 mm	25.5 ^B	465.068	465.068B



For plugging down

hot-dip galvanized

galvanized and white coated with red reflecting stripes

Total width	Total depth	Height above ground	Kg	Part-No.	Part-No.
600 mm	600 mm	650 mm	19.0 ^B	465.066P	465.066PB
800 mm	800 mm	800 mm	24.0 ^B	465.068P	465.068PB



Also available in yellow/black, see page 182



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Guard hoops

steel tube \varnothing 76 x 2.6 mm
without cross bar

For casting in concrete



	Total width	Total height	Kg	Part-No.	Part-No.
	1000 mm	1500 mm	17.5 ^B	475.10	475.10B
	1500 mm	1500 mm	19.5 ^B	475.15	475.15B
	2000 mm	1500 mm	22.5 ^B	475.20	475.20B
	2500 mm	1500 mm	24.5 ^C	475.25	475.25B
	750 mm	1000 mm	13.0 ^B	477.05	477.05B
	1000 mm	1000 mm	14.0 ^B	477.06	477.06B
	750 mm	1500 mm	16.0 ^B	477.08	477.08B

hot-dip galvanized

galvanized and white coated
with red reflecting stripes



For plugging down

750 mm	650 mm	9.5 ^B	477.05P	477.05PB
1000 mm	650 mm	11.0 ^B	477.06P	477.06PB
750 mm	1150 mm	14.5 ^B	477.08P	477.08PB
1000 mm	1150 mm	15.5 ^B	477.09P	477.09PB



For casting in concrete

400 mm	1000 mm	11.0 ^B	477.04	477.04B
400 mm	1500 mm	14.5 ^B	477.07	477.07B



For plugging down

400 mm	650 mm	9.5 ^B	477.04P	477.04PB
400 mm	1150 mm	12.5 ^B	477.07P	477.07PB

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

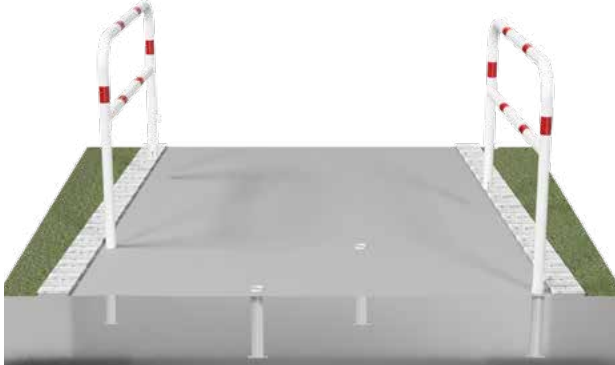
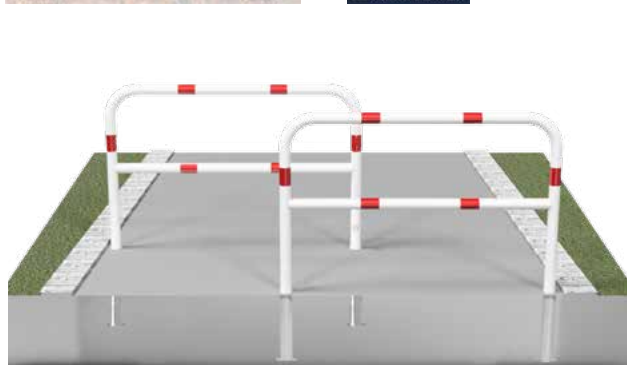
Barrier gates

Outdoor equipment

Work site protection

Access barriers

removable, revolving, round steel tube \varnothing 60 mm, with triangular locking mechanism acc. to DIN 3223, including hot-dip galvanized ground sockets part no. 460.10 and item no. 460.40
total height: approx. 1400 mm
above ground: approx. 1000 mm



Total width in mm 1000 1500 2000 2500

hot-dip galvanized

Part-No.	465.10F	465.15F	465.20F	465.25F
Kg	16.5 ^B	18.5 ^B	20.0 ^B	22.0 ^C

hot-dip galvanized and white coated with red reflecting stripes

Part-No.	465.10FB	465.15FB	465.20FB	465.25FB
Kg	16.5 ^B	18.5 ^B	20.0 ^B	22.0 ^C

hot-dip galvanized

Part-No.	465.32F	465.33F	465.34F	465.35F
Kg	20.0 ^B	23.0 ^B	27.0 ^B	30.5 ^C

hot-dip galvanized and white coated with red reflecting stripes

Part-No.	465.32FB	465.33FB	465.34FB	465.35FB
Kg	20.0 ^B	21.0 ^B	27.0 ^B	30.5 ^C



Access barriers, revolving 70 x 70 mm

Access barriers

with triangular lock,
acc. to DIN 3223, swing-back, consists of:

1 stationary post, revolving

square tube 70 x 70 mm, above ground 900 mm

1 removable post, with triangular locking mechanism

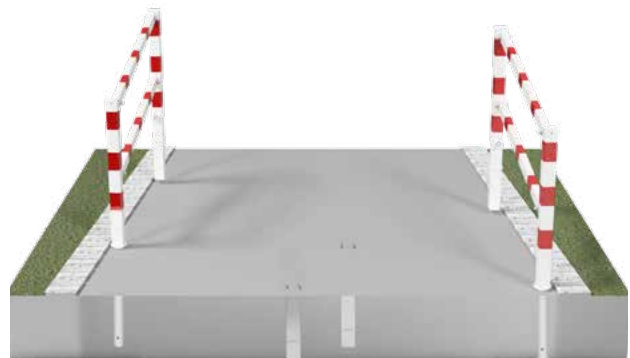
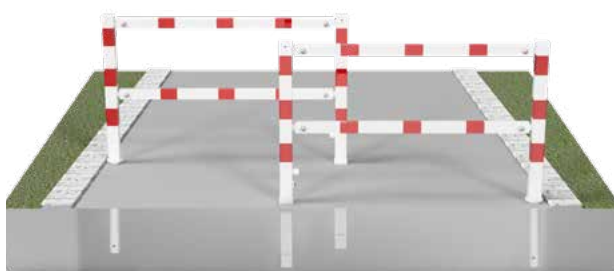
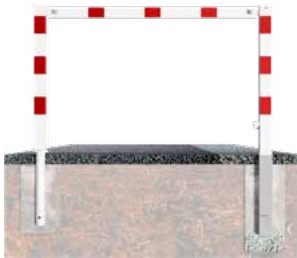
DIN 3223, square tube 70 x 70 mm

1 ground socket, part.-No. 470.10

square tube 80 x 80 mm, 500 mm long

1 top bar

Square tube 60 x 40 mm



Total width in mm	1500	2000	2500	3000
hot-dip galvanized				
Part-No.	410.15	410.20	410.25	410.30
Kg	25.5 ^B	27.5 ^B	29.5 ^C	31.0 ^C

hot-dip galvanized and white coated with red reflecting stripes				
Part-No.	410.15B	410.20B	410.25B	410.30B
Kg	25.5 ^B	27.5 ^B	29.5 ^C	31.0 ^C

hot-dip galvanized				
Part-No.	412.15	412.20	412.25	412.30
Kg	31.0 ^B	34.5 ^B	38.5 ^C	42.0 ^C

hot-dip galvanized and white coated with red reflecting stripes				
Part-No.	412.15B	412.20B	412.25B	412.30B
Kg	31.0 ^B	34.5 ^B	38.5 ^C	42.0 ^C



Note for your order: additional ground sockets (type 470.10) for settling the barrier ordered directly (extra charge)

Access barriers with Euro profile cylinder lock on request. A version that can also be taken out on both sides is also available.

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



With top bar

Total width in mm	1500	2000	2500	3000
hot-dip galvanized				
Part-No.	414.15	414.20	414.25	414.30
Kg	19.5 ^B	21.5 ^B	23.5 ^C	25.0 ^C

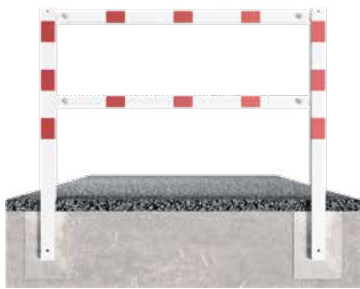


hot-dip galvanized and white coated with red reflecting stripes				
Part-No.	414.15B	414.20B	414.25B	414.30B
Kg	19.5 ^B	21.5 ^B	23.5 ^C	25.0 ^C



With top and quarter-bent bar

hot-dip galvanized				
Part-No.	416.15	416.20	416.25	416.30
Kg	25.0 ^B	29.0 ^B	32.5 ^C	36.0 ^C



hot-dip galvanized and white coated with red reflecting stripes				
Part-No.	416.15B	416.20B	416.25B	416.30B
Kg	25.0 ^B	29.0 ^B	32.5 ^C	36.0 ^C

Stationary access barriers

for bolting on site, including bolts, consists of:

2 stationary posts

square tube 70 x 70 mm, above ground 900 mm
total height: 1300 mm

1 cross bar

square tube 60 x 40 mm



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



With top bar

Total width in mm	1500	2000	2500
hot-dip galvanized			
Part-No.	4014.15	4014.20	4014.25
Kg	19.0 ^B	21.0 ^B	23.0 ^C



hot-dip galvanized and white coated with red reflecting stripes			
Part-No.	4014.15B	4014.20B	4014.25B
Kg	19.0 ^B	21.0 ^B	23.0 ^C



With top and quarter-bent bar

hot-dip galvanized			
Part-No.	4016.15	4016.20	4016.25
Kg	24.0 ^B	28.0 ^B	32.0 ^C



hot-dip galvanized and white coated with red reflecting stripes			
Part-No.	4016.15B	4016.20B	4016.25B
Kg	24.0 ^B	28.0 ^B	32.0 ^C



Access barriers as welded frame are manufactured to order. Other widths on request. Subject to change. Orders cannot be cancelled, access barriers cannot be returned.

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Height restriction barriers

stationary, with cable pull

Vertical clearance variably turnable

1800 - 2800 mm

Height above ground

approx. 3000 mm

2 square posts

steel tube Ø 102 mm
hot-dip galvanized and white coated

Cross bar

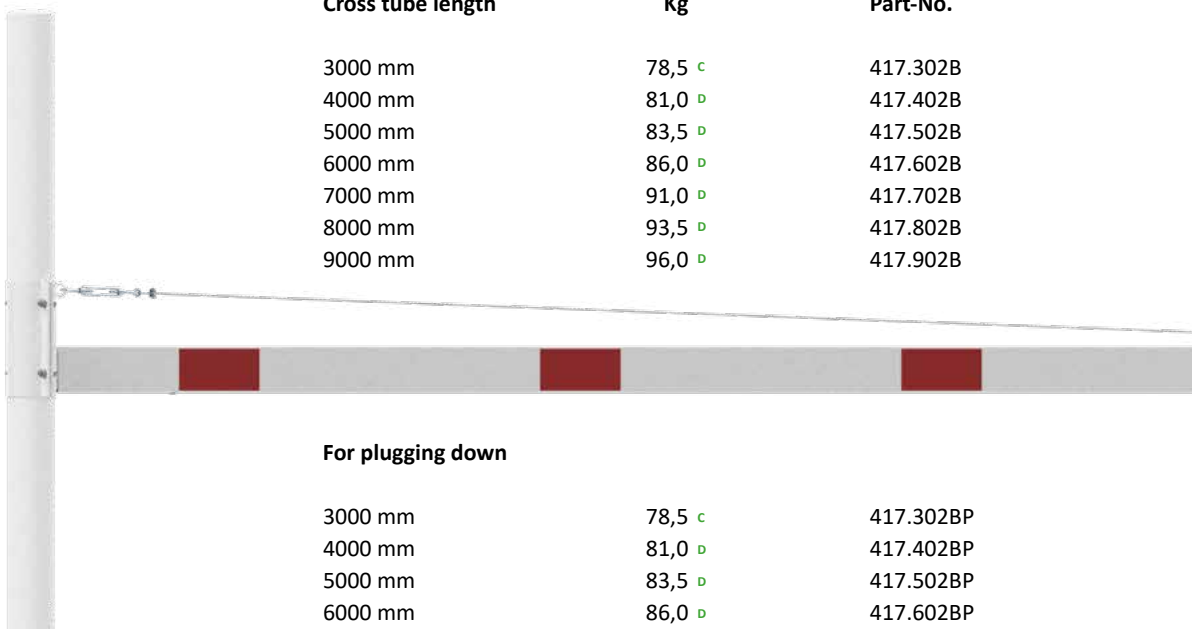
aluminium 100 x 50 mm
white coated with red reflecting stripes



Height adjustable

For casting in concrete

1800 - 2800 mm



Cross tube length	Kg	Part-No.
3000 mm	78,5 c	417.302B
4000 mm	81,0 ▫	417.402B
5000 mm	83,5 ▫	417.502B
6000 mm	86,0 ▫	417.602B
7000 mm	91,0 ▫	417.702B
8000 mm	93,5 ▫	417.802B
9000 mm	96,0 ▫	417.902B

For plugging down

3000 mm	78,5 c	417.302BP
4000 mm	81,0 ▫	417.402BP
5000 mm	83,5 ▫	417.502BP
6000 mm	86,0 ▫	417.602BP
7000 mm	91,0 ▫	417.702BP
8000 mm	93,5 ▫	417.802BP
9000 mm	96,0 ▫	417.902BP



Height restriction barriers

pivotable horizontally with cable pull, lock opened or closed by pin, white coated with red reflecting stripes

Vertical clearance variably turnable

1800 - 2800 mm

Height above ground

approx. 3000 mm

1 piece

Revolving post

steel tube \varnothing 102 mm

hot-dip galvanized and white coated

Cross bar

aluminium 100 x 50 mm

white coated with red reflecting stripes



For casting in concrete

Cross tube length	Kg	For padlock Part-No.	Triangular lock Part-No.	Profile cylinder lock Part-No.
2000 mm	57,5 c	417.201VB	417.201FB	417.201ZB
2500 mm	58,5 c	417.251VB	417.251FB	417.251ZB
3000 mm	60,0 c	417.301VB	417.301FB	417.301ZB
3500 mm	61,0 c	417.351VB	417.351FB	417.351ZB
4000 mm	62,0 d	417.401VB	417.401FB	417.401ZB
4500 mm	63,5 d	417.451VB	417.451FB	417.451ZB

For plugging down

2000 mm	57,5 c	417.201VBP	417.201FBP	417.201ZBP
2500 mm	58,5 c	417.251VBP	417.251FBP	417.251ZBP
3000 mm	60,0 c	417.301VBP	417.301FBP	417.301ZBP
3500 mm	61,0 c	417.351VBP	417.351FBP	417.351ZBP
4000 mm	62,0 d	417.401VBP	417.401FBP	417.401ZBP
4500 mm	63,5 d	417.451VBP	417.451FBP	417.451ZBP



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Height restriction barriers

hot-dip galvanized and white coated with red reflecting stripes



Stationary, 100 x 100 mm for casting in concrete

2 square posts of steel tube 100 x 100 mm,
total height: approx. 3000 mm
1 cross bar made of aluminium tube, 100 x 50 mm,
clear height: approx. 2300 mm

Total width	Kg	Part-No.
3000 mm	66.2 c	417.32B
4000 mm	68.5 d	417.42B
5000 mm	71.0 d	417.52B
6000 mm	73.5 d	417.62B

Stationary, 70 x 70 mm for casting in concrete

2 posts of steel tube 70 x 70 mm,
total height: approx. 2500 mm
1 cross bar 60 x 40 mm, steel tube,
clear height: approx. 2000 mm

3000 mm	38.5 c	417.30B
4000 mm	44.0 d	417.40B

Stationary, 100 x 100 mm for plugging down

2 posts of steel tube 100 x 100 mm,
total height: approx. 3000 mm
1 crossbar, aluminium tube, 100 x 50 mm,
clear height approx. 2300 mm

Total width	Kg	Part-No.
3000 mm	66.2 c	417.32BP
4000 mm	68.5 d	417.42BP
5000 mm	71.0 d	417.52BP
6000 mm	73.5 d	417.62BP

Stationary, 70 x 70 mm for for plugging down

2 posts of steel tube 70 x 70 mm,
total height: approx. 2500 mm
1 crossbar 60 x 40 mm, steel tube
Clear height approx. 2000 mm

3000 mm	38.5 c	417.30BP
4000 mm	44.0 d	417.40BP



Pivotable, 70 x 70 mm for casting in concrete

1 post

made of steel tube 70 x 70 mm
stationary, for casting in concrete,
total height: approx. 2500 mm

1 post

made of steel tube 70 x 70 mm
incl. ground socket type 470.10
approx. 500 mm below ground level

1 crossbar

made of tubular steel 60 x 40 mm
Clear height approx. 2000 mm

Total width

3000 mm
4000 mm

Kg

42.5 ^B
45.0 ^C

Art.-Nr.

417.31B
417.41B



Available as accessory:

For all height limiters with crossbar 100 x 50 mm.

Barrier made of aluminium tube

Ø 40 mm, white coated with red reflecting
with universal fastening incl. chain for attachment to the
to the crossbar of the height limiter



Attention: The (maximum) clear height of the height limiter is reduced by approx. 200 mm due to the barrier.



Length	Kg	Part-No.
Length 2000 mm	2.1 ^B	417.B02
Length 3000 mm	3.2 ^C	417.B03
Length 4000 mm	4.3 ^C	417.B04
Length 6000 mm	6.4 ^D	417.B06

Bracket for information sign

for fastening to the crossbar of the height limiter,
suitable for sign size Ø 420 mm
hot-dip galvanised, white coated



417.98



417.97

Universal holder with fixing bracket for
height limiter with cross tube 100 x 50 mm

Holder for screwing on from the side

Kg

0.8 ^A

Part-No.

417.98

0.7 ^A

417.97

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Protects gateways, halls with limited height, subways, etc.



Barrier

aluminium profile
height: 100 mm, with protecting caps on the sides white coated with red reflecting stripes
incl. 2 x 1 m steel chain galvanized



	Length	Kg	Part-No.
Reflecting one-sided	2000 mm	3.5 ^B	4117.20B
	3000 mm	5.0 ^C	4117.30B
	4000 mm	6.0 ^D	4117.40B
	5000 mm	7.0 ^D	4117.50B
	6000 mm	8.5 ^D	4117.60B
Reflecting both-sided	2000 mm	3.5 ^B	4217.20B
	3000 mm	5.0 ^C	4217.30B
	4000 mm	6.0 ^D	4217.40B
	5000 mm	7.0 ^D	4217.50B
	6000 mm	8.5 ^D	4217.60B

Clearly visible crash guard for posts, pillars, poles etc.

Crash guard angle

made of aluminium plate with 4 bores
Ø 8 mm for plugging down
height 1000 mm
angular dimension 120 mm
white/red reflecting



kg 1.3 ^A
Part-No. 4317RB



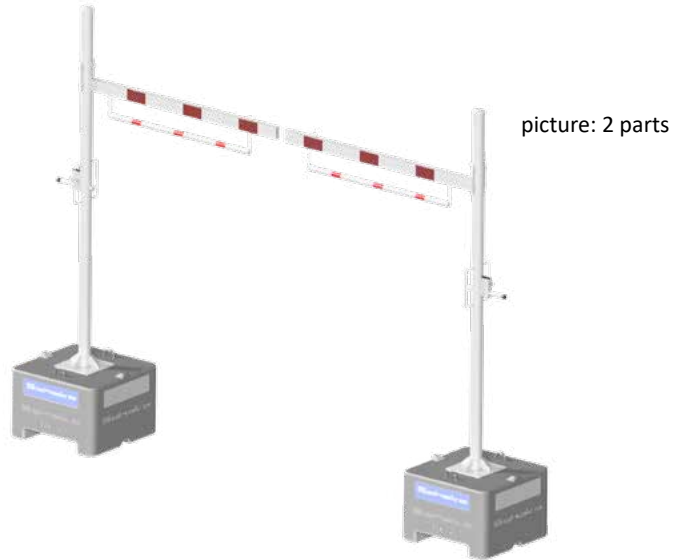
kg 1.3 ^A
Part-No. 4317LB



These products are also available in yellow/black; see work site protection page 194

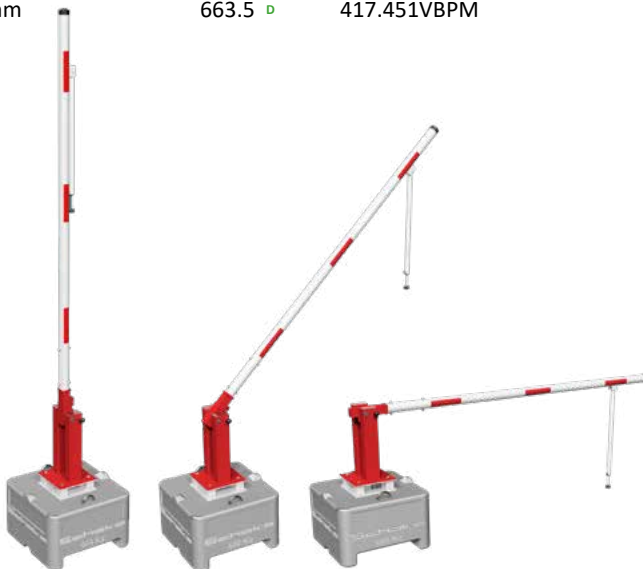
Mobile height limiter

to be mounted on a concrete support (600 kg, part-no. 3F120) by means of an adapter plate welded to the bottom of the post, can be positioned by forklift or crane, optional with part-no. 70670N for levelling uneven floors, unevenness of the floor.



picture: 2 parts

Cross tube length	Kg	For padlock Part-No.	Triangular lock Part-No.	Profile cylinder lock Part-No.
2000 mm	657.5 ◻	417.201VBPM	417.201FBPM	417.201ZBPM
2500 mm	658.5 ◻	417.251VBPM	417.251FBPM	417.251ZBPM
3000 mm	660.0 ◻	417.301VBPM	417.301FBPM	417.301ZBPM
3500 mm	661.0 ◻	417.351VBPM	417.351FBPM	417.351ZBPM
4000 mm	662.0 ◻	417.401VBPM	417.401FBPM	417.401ZBPM
4500 mm	663.5 ◻	417.451VBPM	417.451FBPM	417.451ZBPM



Mobile manual barrier

The mobile hand barrier is intended for use at construction site access points, conversions or other temporary access restrictions. By eliminating the need for foundation work, the barrier can be erected quickly and safely. Our concrete erection device with a weight of 600 kg ensures stability.

barrier arm length	Kg	For padlock Part-No.	Triangular lock Part-No.
3000 mm	645.5 ◻	415.31VPBM	415.31FPBM
4000 mm	648.0 ◻	415.41VPBM	415.41FPBM
5000 mm	651.0 ◻	415.51VPBM	415.51FPBM
6000 mm	652.0 ◻	415.61VPBM	415.61FPBM
7000 mm	655.0 ◻	415.71VPBM	415.71FPBM

barrier arm length	Kg	Part-No.	Part-No.
3000 mm	646.5 ◻	415.31ZPBM	415.31FZPBM
4000 mm	649.5 ◻	415.41ZPBM	415.41FZPBM
5000 mm	651.5 ◻	415.51ZPBM	415.51FZPBM
6000 mm	654.5 ◻	415.61ZPBM	415.61FZPBM
7000 mm	656.5 ◻	415.71ZPBM	415.71FZPBM

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

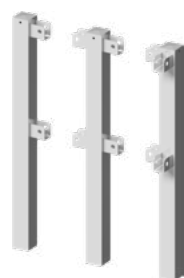
Work site protection

Protective railing as safety railing in special hazard areas. The railing system is made for casting in concrete or for plugging down and available with base plate.

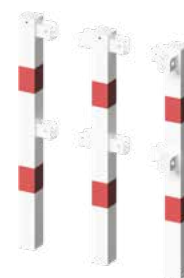


Protective railing

Steel tube 70 x 70 mm
with top and quarter-bent bar
steel tube 60 x 40 mm,
height above ground: approx.
1000 mm for assembling bolts



hot-dip galvanized



hot-dip galvanized and white coated with red reflecting stripes
Part-No.

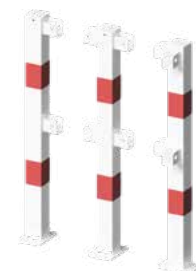
Fixed post for casting in concrete

- End post**
for top and quarter-bent bar
- Middle post**
for top and quarter-bent bar
- Corner post**
for top and quarter-bent bar 90°

Kg	Part-No.	Part-No.
8.0 A	4270	4270B
8.5 A	4271	4271B
8.5 A	4273	4273B

Fixed post for plugging down

with base plate 100 x 150 mm

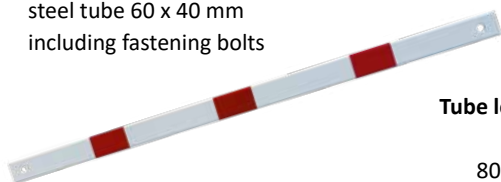


- End post**
for top and quarter-bent bar
- Middle post**
for top and quarter-bent bar
- Corner post**
for top and quarter-bent bar 90°

6.5 A	4270P	4270PB
7.0 A	4271P	4271PB
7.0 A	4273P	4273PB

Cross bar

steel tube 60 x 40 mm
including fastening bolts



Tube length	Kg	Part-No.	Part-No.
800 mm	3.0 A	4208	4208B
1300 mm	5.0 A	4213	4213B
1800 mm	7.0 B	4218	4218B
2300 mm	8.5 B	4223	4223B



The cross bars are simply placed in the brackets of the stationary post and bolted in place. (Suitable as temporary guard without bolts). Also available in yellow / black design; see work site protection

Protective railing

Separating traffic lanes, sidewalks, etc.
Installation is very simple: assemble,
cast in concrete or plug down – that's it.



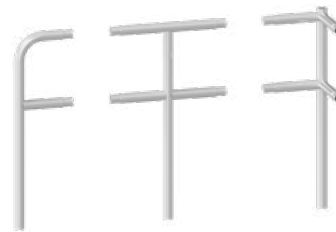
Protective railing

Steel tube \varnothing 48 mm

variable plugging,

height above ground: approx. 1000 mm

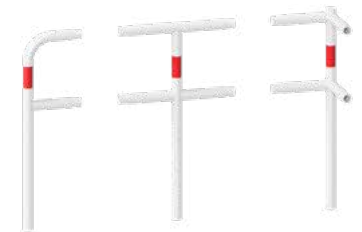
For casting in concrete



hot-dip galvanized

Kg Part-No.

End post	5.5 ^A	448.80
Middle post	7.5 ^A	448.81
Corner Post	9.5 ^A	448.815

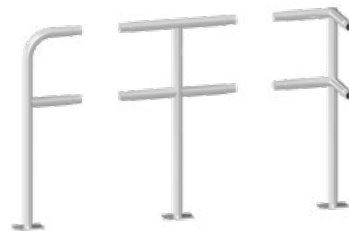


hot-dip galvanized and white coated with red reflecting stripes
Part-No.

448.80B
448.81B
448.815B

For plugging down

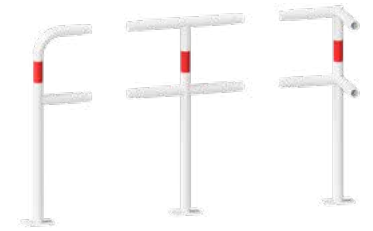
with base plate 100 x 150 mm



hot-dip galvanized

Kg Part-No.

End post	5.0 ^A	448.80P
Middle post	7.0 ^A	448.81P
Corner Post	9.0 ^A	448.815P



hot-dip galvanized and white coated with red reflecting stripes
Part-No.

448.80PB
448.81PB
448.815PB

Cross bar

steel tube \varnothing 48 mm



Tube length	Grid site	Kg	Part-No.	hot-dip galvanized	hot-dip galvanized and white coated with red reflecting stripes
500 mm	1000 mm	1.5 ^A	448.42	448.42B	
1000 mm	1500 mm	3.0 ^A	448.43	448.43B	
1500 mm	2000 mm	4.5 ^B	448.44	448.44B	



For the suitable mounting material see page 49
Also available in yellow / black design; see page 183

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Safety fencing
for exposed areas of danger

Example of use:



The fence panels are fixed to the vertical posts so as to allow setting at different degrees or angles. One edge of the panel fence cross bars always points upwards to avoid misuse.

Fence panel

40 x 40 mm square tube with Ø 20 mm steel tube, welded rods, spacing between the vertical rods: 100 mm, height: 950 mm, total height assembled 1050 mm



418.15BR

hot-dip galvanized

Center spacing	Kg	Part-No.
750 mm	16.5 ^B	418.07
1500 mm	23.0 ^B	418.15
2000 mm	31.0 ^B	418.20

hot-dip galvanized and coated white

750 mm	16.5 ^B	418.07BW
1500 mm	23.0 ^B	418.15BW
2000 mm	31.0 ^B	418.20BW

hot-dip galvanized and coated red

750 mm	16.5 ^A	418.07BR
1500 mm	23.5 ^B	418.15BR
2000 mm	31.0 ^B	418.20BR



418.00

418.02

Fixed post

of square tube 60 x 60 mm, with steel cap, for casting in concrete
total height: 1500 mm

Middle post with 4 connecting clips

hot-dip galvanized	6.0 ^B	418.00
hot-dip galvanized and white coated	6.0 ^B	418.00B

End post with 2 connecting clips

hot-dip galvanized	6.0 ^B	418.02
hot-dip galvanized and white coated	6.0 ^B	418.02B



Other color finishes possible; see page 7



Safety railings

are assembled from prefabricated parts on site. Hinge joints make the railings very flexible. The hinge joints can be positioned vertically and horizontally, up to 90°.



Fixed post for top bar For casting in concrete

steel tube Ø 60 mm, with aluminium ball head, total length: approx. 1500 mm

	Kg	hot-dip galvanized Part-No.	hot-dip galvanized and coated (RAL 7016) Part-No.
end post for top bar	5.4 B	467.01	467.01B
middle post for top bar	5.4 B	467.02	467.02B
corner post for top bar	5.4 B	467.03	467.03B

Fixed post for top and quarter-bent bar For casting in concrete

end post for top and quarter-bent bar	5.4 B	467.11	467.11B
middle post for top and quarter-bent bar	5.4 B	467.12	467.12B
corner post for top and quarter-bent bar	5.4 B	467.13	467.13B

Fixed post for border railings

For casting in concrete

steel tube Ø 60 mm, with aluminium ball head
total length: approx. 800 mm

end post	2.9 B	467.04	467.04B
middle post	2.9 B	467.05	467.05B
corner post	2.9 B	467.06	467.06B

Cross bar for safety railing or border railing

steel tube Ø 33.7 mm, length: 2000 mm, including aluminium connecting sockets for straight horizontal position

	5.5 B	467.20	467.20B
--	-------	--------	---------

Aluminium joint

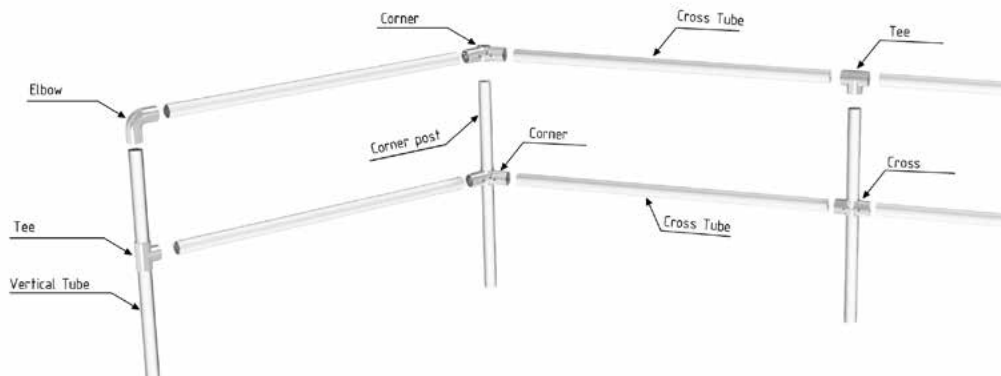
can be used up to 90°, for different slopes and angle positions

	0.5 B	467.24	467.24B
--	-------	--------	---------



Barrier posts

Security fencing at sport fields or other fencing where events are taking place.



Car-park barriers

Barrier
steel tube \varnothing 60 mm
hot-dip galvanized

Ornamental bollards



	Length	Kg	Part-No.
Vertical tube	1500 mm	4.3 B	419.10
Corner post	1500 mm	4.3 B	419.105
Cross tube	1500 mm	4.3 B	419.11
	2000 mm	5.8 B	419.12
	2500 mm	7.2 C	419.13
	3000 mm	8.6 C	419.14

Stainless steel



Aluminium-Elbow	0.3 A	419.18
Aluminium-Tee	0.3 A	419.19
Aluminium-Cross	0.2 A	419.09
2 half shells with 2 bolts and nuts		
Aluminium-Corner	0.4 A	419.08
2 half shells with 2 bolts and nuts		

Barrier elements

Safety fence

for safety in areas of danger, embankments, river courses, enclosures, etc.



418.35

Fence panel element

steel tube \varnothing 33.7 mm with \varnothing 16 mm rods and welded connecting clips
center spacing: 1500 mm, can be used approx. to 90°
height: 900 mm

	Kg	Part-No.
hot-dip galvanized	11.8 B	418.35
hot-dip galvanized and white coated	11.8 B	418.35B

Barrier gates

Outdoor equipment



418.42



418.44

Fixed post

steel tube \varnothing 60 mm
total length: approx. 1500 mm

End post with 2 connecting clips		
hot-dip galvanized	5.5 B	418.42
hot-dip galvanized and white coated	5.5 B	418.42B
Middle post with 4 connecting clips		
hot-dip galvanized	5.5 B	418.44
hot-dip galvanized and white coated	5.5 B	418.44B

Work site protection

Traffic safety fencing systems

for higher safety on public roads, separate traffic lanes, for personal safety and guidance system, etc. Easy assembly on site with prefabricated elements that can be exchanged without problem. Can be installed at all angles on slopes and inclines. Powder-coated in common RAL colors (see page 7).



With cover

With ball head

Fixed post

steel tube Ø 60 mm, fixed post for casting in concrete with ground anchor

hot-dip galvanized

hot-dip galvanized and white coated

	Length	Kg	Part-No.	Part-No.
with cover	1500 mm	4.5 B	419.600	419.600B
with ball head	1500 mm	4.5 B	419.602	419.602B

Fixed post

steel tube Ø 60 mm, for plugging down with base plate 100 x 150 mm

with cover	1000 mm	4.5 A	419.601	419.601B
with ball head	1000 mm	4.5 A	419.603	419.603B

Cross bar

steel tube Ø 60 mm, including connection elements

grid sizes: 1130 mm	1000 mm	4.5 A	419.610	419.610B
grid sizes: 1630 mm	1500 mm	5.5 B	419.615	419.615B
grid sizes: 2130 mm	2000 mm	6.5 B	419.620	419.620B
grid sizes: 2630 mm	2500 mm	8.0 C	419.625	419.625B

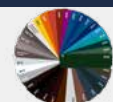
Connection element

(loose) for traffic protection system (clip, splay, plastic plates, bolts and nuts)

	0.3 A	419.699	419.699B
--	-------	---------	----------



Other color finishes possible; see page 7



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

City fence

city fences for safety, perfect layout also for curved areas hinged clips.



Fixed post

70 x 70 mm square tube with steel cap hot-dip galvanized and coated DB 703 height above ground: 1000 mm for casting in concrete

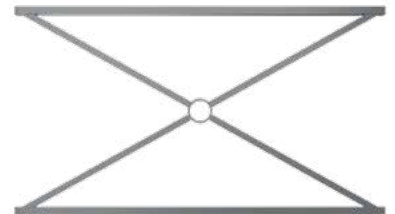
	Kg	With flat head Part-No.	With ornamental head Part-No.
Middle post	7.9 ^A	418.7804B	418.7814B
End post	7.9 ^A	418.7802B	418.7812B

Fence element

horizontal steel tubes 30 x 30 mm
diagonal steel tubes 25 x 25 mm

Center spacing

1000 mm	7.2 ^B	418.710B
1500 mm	10.4 ^B	418.715B



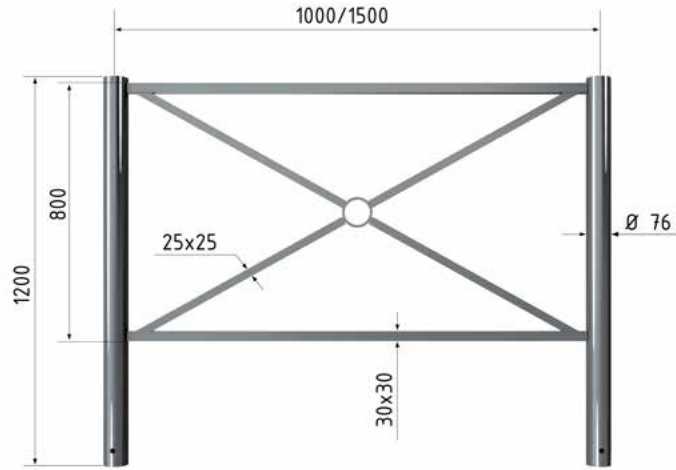
The fence panels are fastened to the vertical post; the design of the fastening permits different degree and angle positions.

Special color RAL 3004



City fence
for safety in town, perfect layout, unobtrusive

City fence element
vertical steel tubes \varnothing 76 mm
horizontal steel tubes 30 x 30 mm
diagonal steel tubes 25 x 25 mm
total height: 1200 mm
hot-dip galvanized and powder-coated DB703



	Length	Kg	Part-No.
with flat head	1000 mm	18.0 B	418.7040B
with flat head	1500 mm	21.0 B	418.7045B
with ball head	1000 mm	18.0 B	418.7440B
with ball head	1500 mm	21.0 B	418.7445B



Special color RAL 3004



Other color finishes possible; see page 7



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts

Safety barriers

a stable, attractive barrier to go with our post item no. 478B



Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Fixed post

steel tube Ø 76 mm, with ball head, hot-dip galvanized and coated RAL 7016, total length: approx. 1300 mm

Kg Part-No.

end post with 2 connecting clips	7.0 A	478.02B
middle post with 4 connecting clips	7.0 A	478.04B
ground rosette bolts	1.3 A	478RB



Frame element

steel tube Ø 33.7 mm, with welded-on connecting clips, center distance: 2000 mm (post center to post center), for use up to 90°

hot-dip galvanized and coated RAL 7016	8.0 B	478.20B
--	-------	---------

Border railing with cross bar made of flat bar steel

approx. 500 mm above ground, hot-dip galvanized and coated green (RAL 6005). Easy assembly and setup.



Fixed post

steel tube Ø 60 mm, with ball head and socket, total length: approx. 800 mm

Kg Part-No.

end post	3.0 A	40673B
middle post	3.0 A	40674B
corner post	3.0 A	40675B



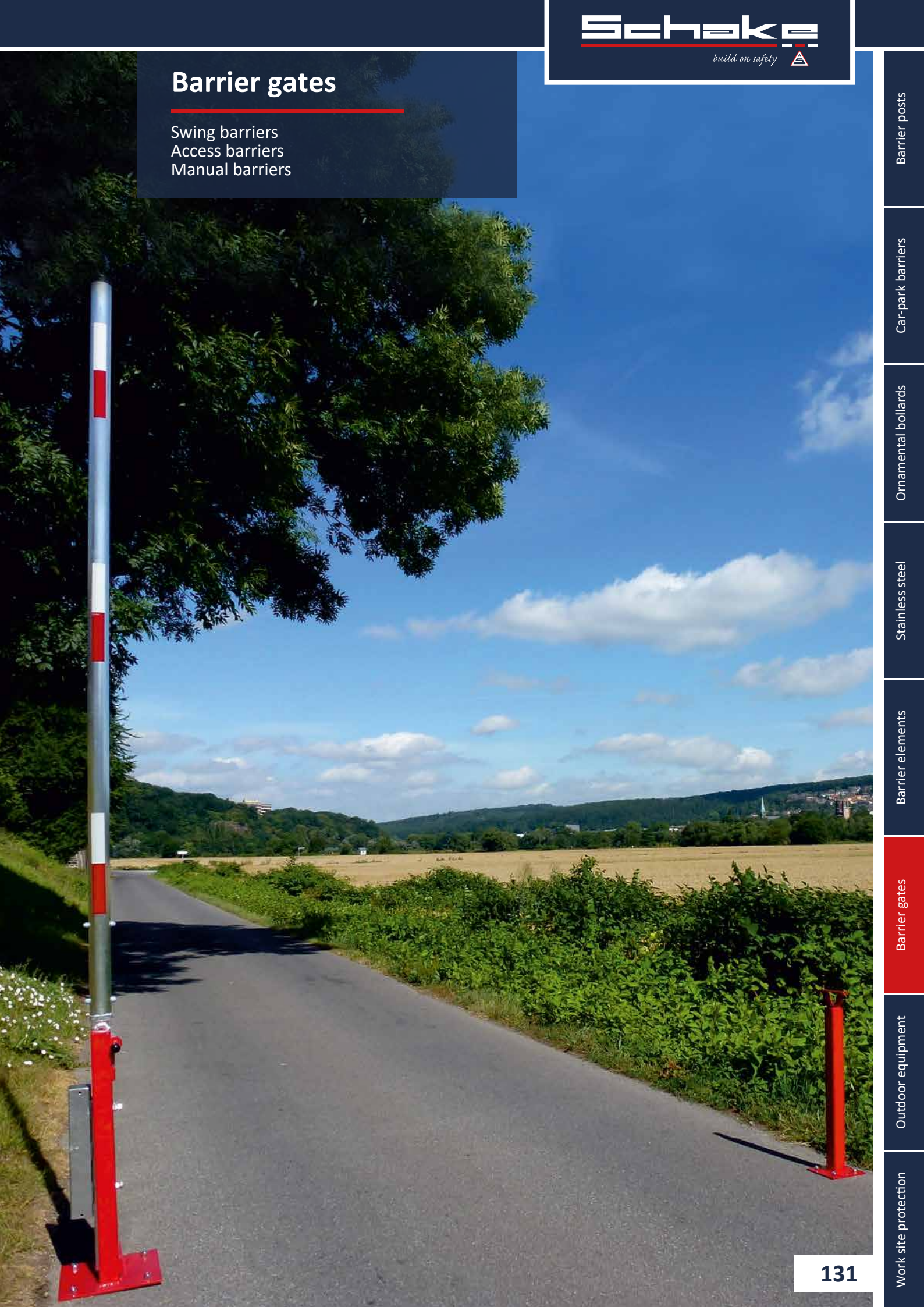
Flat bar steel 45 x 15 mm

hot-dip galvanized and coated

total length 1000 mm	5.5 A	40676B
total length 1500 mm	8.0 B	40677B
total length 2000 mm	10.5 B	40678B

Barrier gates

Swing barriers
Access barriers
Manual barriers



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Swiveling gates

can be swiveled horizontally, no supporting post. Locking mechanism can be closed or opened using a locking pin, fitted for a padlock or triangular locking mechanism acc. to DIN 3223 or Euro profile cylinder lock.

Swiveling post: steel tube \varnothing 102 mm

Barrier arm: steel tube \varnothing 60 mm

Height: approx. 950 mm above ground

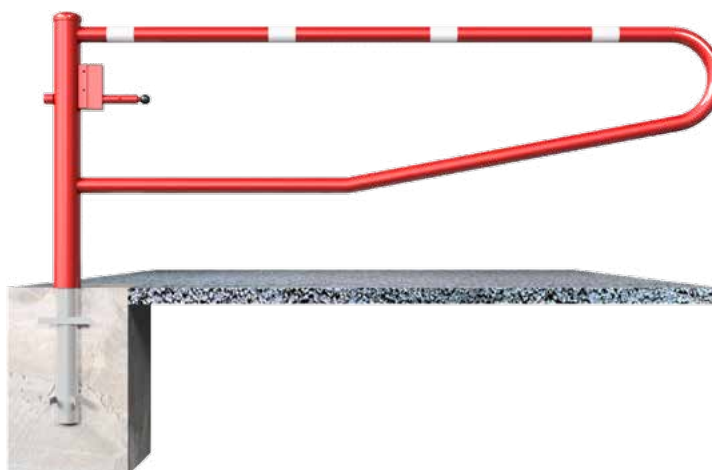


approx. 950 mm above ground

Total width	Kg	For padlock	With triangular lock	With Euro profile cylinder lock
		Part-No.	Part-No.	Part-No.
1500 mm	33.0 ^B	413.151V	413.151F	413.151Z
2000 mm	36.5 ^B	413.201V	413.201F	413.201Z
2500 mm	40.0 ^C	413.251V	413.251F	413.251Z
3000 mm	43.5 ^C	413.301V	413.301F	413.301Z
3500 mm	47.0 ^C	413.351V	413.351F	413.351Z

For casting in concrete, hot-dip galvanized and red coated with white reflecting rings

Total width	Kg	For padlock	With triangular lock	With Euro profile cylinder lock
		Part-No.	Part-No.	Part-No.
1500 mm	33.0 ^B	413.151VB	413.151FB	413.151ZB
2000 mm	36.5 ^B	413.201VB	413.201FB	413.201ZB
2500 mm	40.0 ^C	413.251VB	413.251FB	413.251ZB
3000 mm	43.5 ^C	413.301VB	413.301FB	413.301ZB
3500 mm	47.0 ^C	413.351VB	413.351FB	413.351ZB





Recommended foundation dimensions:
width: 550 x 550 mm
depth: 900 mm

Optionally available with:

Base plate for plugging down

360 x 360 x 8 mm including 4 holes \varnothing 21 mm
hole pitch 260 x 260 mm

add letter **P** to the part-no.

Swing barrier with self-engaging lock

Swing barrier

barrier swings horizontally with no supporting post. Locking mechanism can be closed or opened using a pin latching automatically in four positions (every 90°), fitted for a padlock or with triangular locking mechanism acc. to DIN 3223 or Euro profile cylinder lock.

Swiveling post: steel tube \varnothing 102 mm
Barrier arm: steel tube 60 x 40 mm
Height: approx. 950 mm above ground



For casting in concrete, hot-dip galvanized

Total width	Kg	For padlock Part-No.	With triangular lock Part-No.	With Euro profile cylinder lock Part-No.
1500 mm	33.0 ^B	4013.15V	4013.15F	4013.15Z
2000 mm	37.0 ^B	4013.20V	4013.20F	4013.20Z
2500 mm	41.0 ^C	4013.25V	4013.25F	4013.25Z
3000 mm	44.5 ^C	4013.30V	4013.30F	4013.30Z
3500 mm	48.0 ^C	4013.35V	4013.35F	4013.35Z

For casting in concrete, hot-dip galvanized and white coated with red reflecting rings

Total width	Kg	For padlock Part-No.	With triangular lock Part-No.	With Euro profile cylinder lock Part-No.
1500 mm	33.0 ^B	4013.15VB	4013.15FB	4013.15ZB
2000 mm	37.0 ^B	4013.20VB	4013.20FB	4013.20ZB
2500 mm	41.0 ^C	4013.25VB	4013.25FB	4013.25ZB
3000 mm	44.5 ^C	4013.30VB	4013.30FB	4013.30ZB
3500 mm	48.0 ^C	4013.35VB	4013.35FB	4013.35ZB



Recommended foundation dimensions:
width: 550 x 550 mm
depth: 900 mm

Optionally available with:

Base plate for plugging down

360 x 360 x 8 mm including 4 holes \varnothing 21 mm
hole pitch 260 x 260 mm

add letter **P** to the part-no.

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Swing barrier

barrier can be swiveled horizontally, with pull rope reinforcement. Locking mechanism closed or opened by pin locking in four positions (every 90°), fitted for a padlock or with triangular locking mechanism acc. to DIN 3223 or Euro profile cylinder lock.

Swiveling post: steel tube \varnothing 102 mm, hot-dip galvanized and coated red

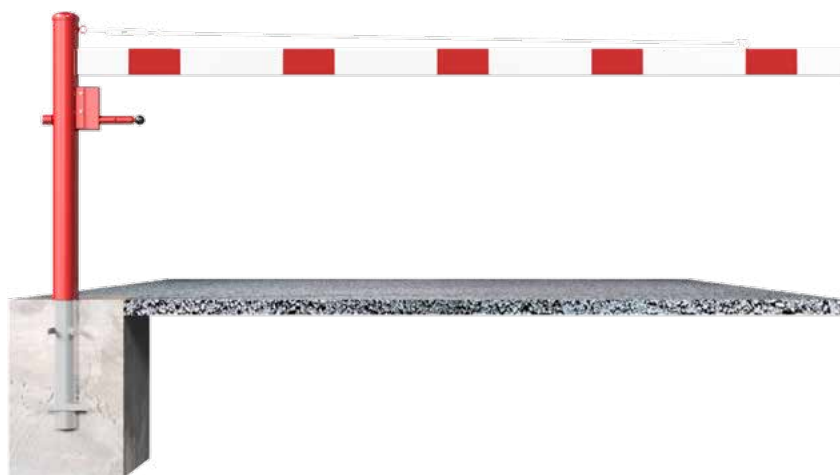
Barrier arm: aluminium tube 100 x 50 mm, coated white with red reflecting stripes

Height: approx. 950 mm above ground



For casting in concrete

Barrier arm length	Kg	For padlock	With triangular lock	With Euro profile cylinder lock
		Part-No.	Part-No.	Part-No.
1500 mm	32.0 ^B	4113.15VB	4113.15FB	4113.15ZB
2000 mm	33.0 ^B	4113.20VB	4113.20FB	4113.20ZB
2500 mm	34.0 ^C	4113.25VB	4113.25FB	4113.25ZB
3000 mm	35.0 ^C	4113.30VB	4113.30FB	4113.30ZB
3500 mm	36.0 ^C	4113.35VB	4113.35FB	4113.35ZB



Recommended foundation dimensions:

width: 550 x 550 mm
depth: 900 mm



Optionally available with:

Base plate for plugging down

360 x 360 x 8 mm including 4 holes \varnothing 21 mm
hole pitch 260 x 260 mm

add letter **P** to the part-no.

Swing barrier with support post

Swing barrier

barrier can be swiveled horizontally, with bracing tube and pull rope reinforcement. Locking mechanism at the swiveling post closed or opened by pin locking in 4 positions (every 90°), fitted for a padlock or with triangular locking mechanism acc. to DIN 3223 or Euro profile cylinder lock, including two supporting posts.

Swiveling post: steel tube \varnothing 102 mm, hot-dip galvanized and red coated

Barrier arm: aluminium tube 100 x 50 mm, coated white with red reflecting stripes

Supporting post: steel tube 70 x 70 mm, hot-dip galvanized and white coated (2 pieces)

Height: approx. 950 mm above ground



For casting in concrete

Barrier arm length

Kg

For padlock

Part-No.

With triangular lock

Part-No.

With Euro profile cylinder lock

Part-No.

3000 mm

58.0 c

4213.30VB

4213.30FB

4213.30ZB

3500 mm

60.0 c

4213.35VB

4213.35FB

4213.35ZB

4000 mm

62.0 p

4213.40VB

4213.40FB

4213.40ZB

4500 mm

64.0 p

4213.45VB

4213.45FB

4213.45ZB

5000 mm

66.0 p

4213.50VB

4213.50FB

4213.50ZB

5500 mm

68.0 p

4213.55VB

4213.55FB

4213.55ZB

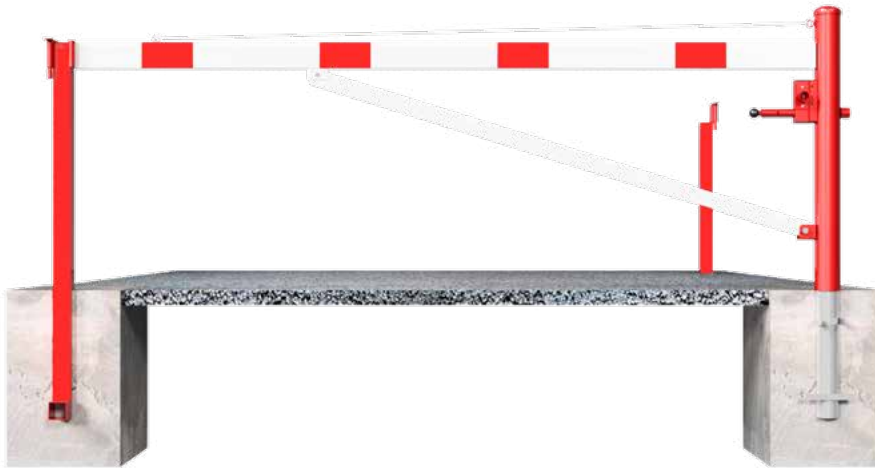
6000 mm

70.0 p

4213.60VB

4213.60FB

4213.60ZB



Recommended foundation dimensions:

Swiveling post

width: 550 x 550 mm

depth: 900 mm

Supporting post

width: 400 x 400 mm

depth: 900 mm

Optionally available with:

Base plate for plugging down

1 x swiveling post base plate 360 x 360 x 8 mm
incl. 4 holes \varnothing 21 mm, hole pitch 260 x 260 mm.

2 x base plates for supporting post 220 x 220 x 8 mm
incl. 4 holes \varnothing 21 mm, hole pitch 140 x 140 mm.

add letter **P** to part-no.



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Access barrier

Main support: steel construction 70 x 70 mm square tube with ground plate 360 x 360 x 8 mm for plugging down, including 4 holes Ø 20 mm for anchors, hot-dip galvanized and powder-coated red

Supporting post: steel tube 70 x 70 mm with ground plate 220 x 220 x 8 mm including 4 holes Ø 20 mm for anchors

Barrier arm: thick-walled Ø 80 mm aluminium tube with counterweight, uncoated with white/red reflecting stripes

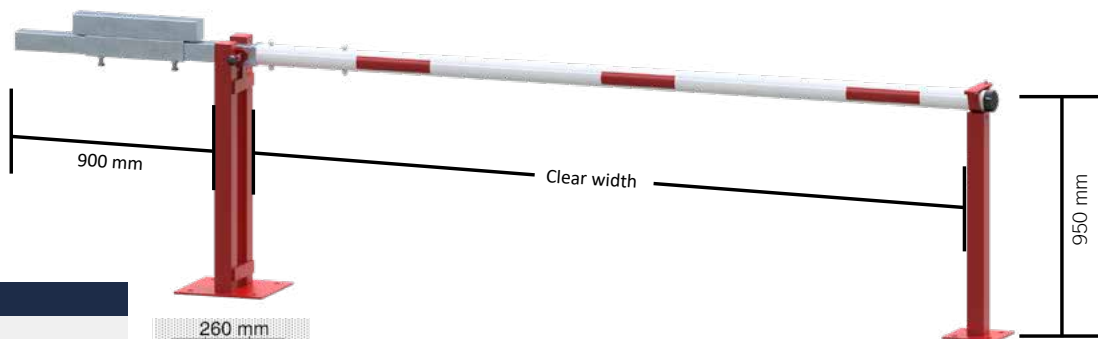
Locking mechanism: at the supporting post, can be fixed by the main support pin when the arm is open


Total width: clear width + approx. 900 mm
Height: approx. 950 mm above ground



Clear width	Kg	For padlock	With triangular lock	With Euro profile cylinder lock
		Part-No.	Part-No.	Part-No.
3000 mm	74.0 c	411.30VPB	411.30FPB	411.30ZPB
4000 mm	76.0 d	411.40VPB	411.40FPB	411.40ZPB
5000 mm	100.5 d	411.50VPB	411.50FPB	411.50ZPB
6000 mm	124.5 d	411.60VPB	411.60FPB	411.60ZPB
7000 mm	125.5 d	411.70VPB	411.70FPB	411.70ZPB

	Kg	Part-No.
Set of mounting bolts type 3 to be fixed by plugs	0.4 A	470.73
Set of ground sockets with ground anchor plate for main and supporting posts, for casting in concrete, hot-dip galvanized, including bolts M16	17.5 A	411.92
Pull rope reinforcement	0.5 A	411.95

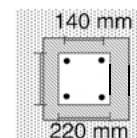
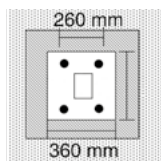




Recommended foundation dimensions:

Main support
width 550 x 550 mm, depth 900 mm

Supporting post
width 400 x 400 mm, depth 900 mm



Access barrier

Main support: steel construction

70 x 70 mm square tube with ground plate
360 x 360 x 8 mm for plugging down,
including 4 holes \varnothing 20 mm for anchor,
hot-dip galvanized and powder-coated red

Barrier arm: thick-walled \varnothing 80 mm
aluminium tube with counterweight,
uncoated with white/red reflecting stripes

Swing post: at the main support
with a locking pin, for fixing the arm in open
or closed position

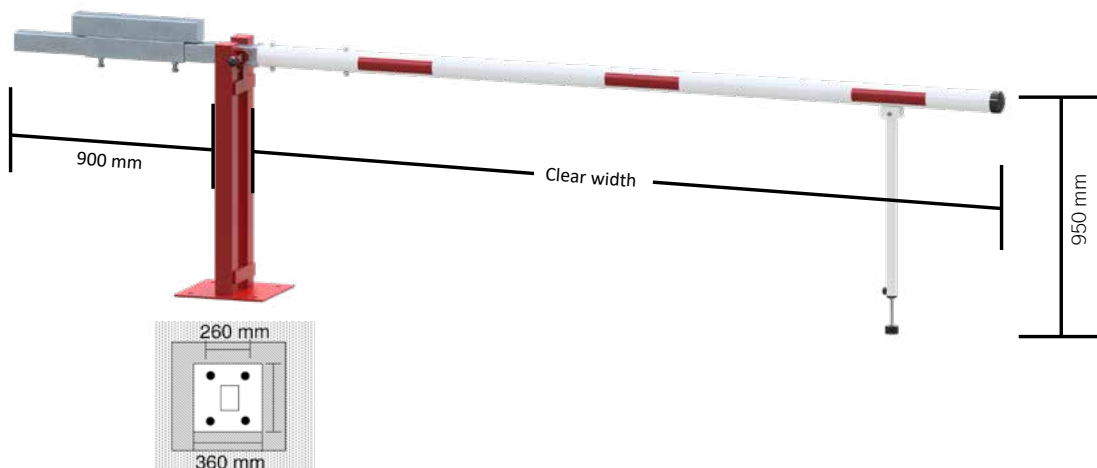
Total width: clear width + approx. 900 mm

Height: approx. 950 mm above ground



Clear width	Kg	For padlock	With triangular lock	With Euro profile cylinder lock
		Part-No.	Part-No.	Part-No.
3000 mm	66.0 ^c	411.31VPB	411.31FPB	411.31ZPB
4000 mm	90.0 ^d	411.41VPB	411.41FPB	411.41ZPB
5000 mm	114.0 ^d	411.51VPB	411.51FPB	411.51ZPB
6000 mm	117.0 ^d	411.61VPB	411.61FPB	411.61ZPB
7000 mm	140.0 ^d	411.71VPB	411.71FPB	411.71ZPB

	Kg	Part-No.
Set of mounting bolts type to be fixed by plugs	0.2 ^A	470.72
Ground socket with ground anchor plate for main support, for casting in concrete , hot-dip galvanized, including bolts M16	12.5 ^A	411.91
Pull rope reinforcement	0.5 ^A	411.95



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Manual barrier with pneumatic spring and fixed pole support

Main support: steel construction 120 x 80 mm square tube with base plate 360 x 360 x 8 mm for plugging down, including 4 holes Ø 20 mm for anchor, hot-dip galvanized and powder-coated red, barrier arm can be fixed in open and closed position

Supporting post: steel tube 70 x 70 mm with base plate 220 x 220 x 8 mm, including 4 holes Ø 20 mm for anchor

Barrier arm: thick-walled Ø 80 mm aluminium tube, powder-coated with red reflecting stripes

Locking mechanism at the post support

Total width: clear width + approx. 180 mm

Height: approx. 950 mm above ground



Clear width	Kg	For padlock Part-No.	With triangular lock Part-No.	profile cylinder lock Part-No.
3000 mm	48.5 ^c	415.30VPB	415.30FPB	415.30ZPB
4000 mm	51.5 ^d	415.40VPB	415.40FPB	415.40ZPB
5000 mm	54.0 ^d	415.50VPB	415.50FPB	415.50ZPB
6000 mm	57.0 ^d	415.60VPB	415.60FPB	415.60ZPB
7000 mm	60.0 ^d	415.70VPB	415.70FPB	415.70ZPB

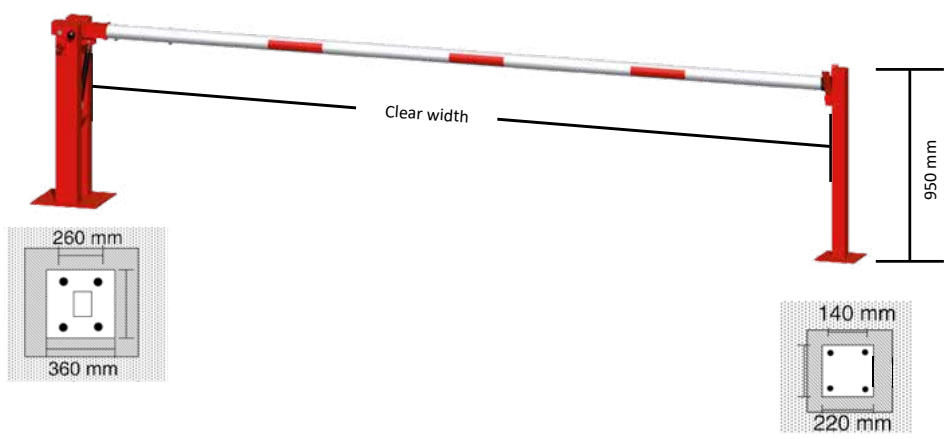
Clear width	Kg	Triangular locking mechanism and Euro profile cylinder lock at the main support Part-No.	Double profile cylinder lock on the main support Part-No.
3000 mm	54.0 ^c	415.30FZPB	415.30ZZPB
4000 mm	57.0 ^d	415.40FZPB	415.40ZZPB
5000 mm	60.0 ^d	415.50FZPB	415.50ZZPB
6000 mm	62.5 ^d	415.60FZPB	415.60ZZPB
7000 mm	64.0 ^d	415.70FZPB	415.70ZZPB

	Kg	Part-No.
Set of mounting bolts type 3 to be fixed by plugs	0.4 ^a	470.73
Set of ground sockets with ground anchor plate for main and supporting posts, for casting in concrete , hot-dip galvanized, including bolts M16	17.5 ^a	415.92
Pull rope reinforcement	0.5 ^a	415.95



Recommended foundation dimensions:
Main support
width 550 x 550 mm, depth 900 mm

Supporting post
width 400 x 400 mm, depth 900 mm



Manual barrier

with pneumatic spring and hinged pole support

Main support: steel construction
120 x 80 mm square tube with base plate
360 x 360 x 8 mm for plugging down,
including 4 holes \varnothing 20 mm for anchor,
hot-dip galvanized and powder-coated red,
barrier arm can be fixed in open and closed position

Barrier arm: thick-walled \varnothing 80 mm
aluminium tube, powder-coated with red
reflecting stripes

Locking mechanism: at the main support

Total width: clear width + approx.180 mm



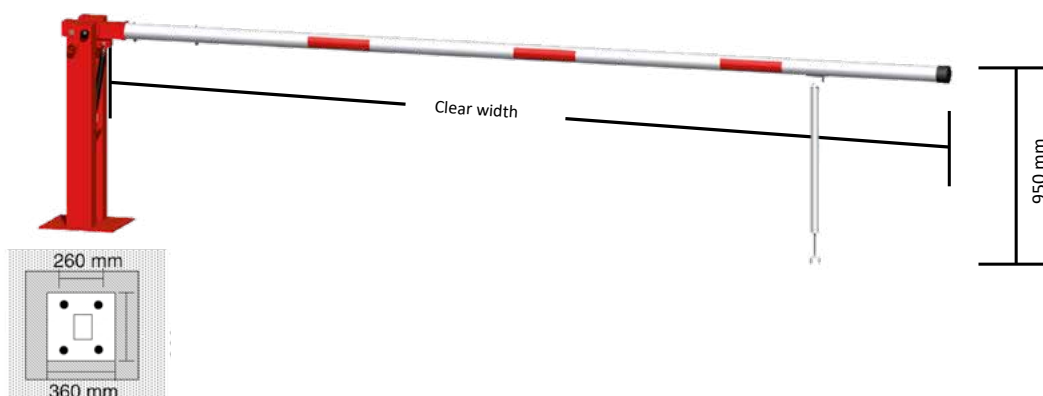
Clear width	Kg	For padlock Part-No.	With triangular lock Part-No.	profile cylinder lock Part-No.
3000 mm	45.5 c	415.31VPB	415.31FPB	415.31ZPB
4000 mm	48.0 d	415.41VPB	415.41FPB	415.41ZPB
5000 mm	51.0 d	415.51VPB	415.51FPB	415.51ZPB
6000 mm	52.0 d	415.61VPB	415.61FPB	415.61ZPB
7000 mm	55.0 d	415.71VPB	415.71FPB	415.71ZPB

Clear width	Kg	Triangular locking mechanism and Euro profile cylinder lock at the main support Part-No.	Double profile cylinder lock on the main support Part-No.
3000 mm	46.5 c	415.31FZPB	415.31ZZPB
4000 mm	49.5 d	415.41FZPB	415.41ZZPB
5000 mm	51.5 d	415.51FZPB	415.51ZZPB
6000 mm	54.5 d	415.61FZPB	415.61ZZPB
7000 mm	56.5 d	415.71FZPB	415.71ZZPB

Set of mounting bolts type 2 to be fixed by plugs	Kg	Part-No.
	0.2 A	470.72

Ground socket with ground anchor plate for main support, for casting in concrete, hot-dip galvanized, including bolts M16	Kg	Part-No.
	12.5 A	415.91

Euro profile cylinder lock with forced closing Pull rope reinforcement	Kg	Part-No.
	0.5 A	415.96
	2.5 A	415.95



Swing barrier

barrier can be swiveled horizontally, with two supporting posts. Locking mechanism at the opened or closed barrier at the respective supporting post, fitted for a padlock, triangular locking mechanism acc. to DIN 3223 or Euro profile cylinder lock.

Swiveling post: steel tube \varnothing 102 mm

Barrier arm: steel tube 60 x 40 mm

Supporting post: steel tube 70 x 70 mm

Height: approx. 950 mm above ground

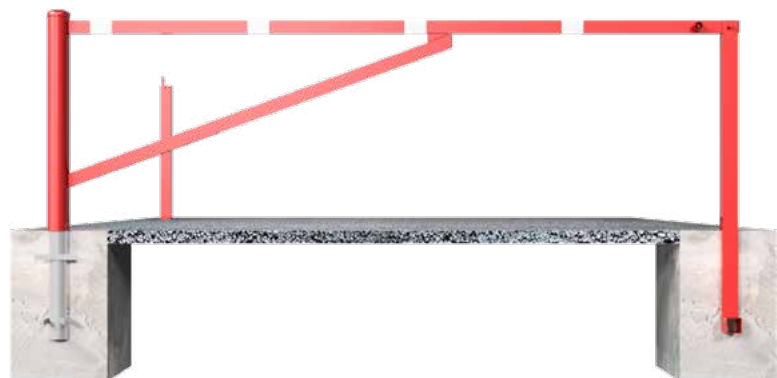
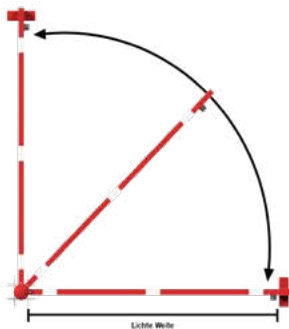


For casting in concrete, hot-dip galvanized

Clear width	Kg	For padlock	With triangular lock	With Euro profile cylinder lock
		Part-No.	Part-No.	Part-No.
2500 mm	53.0 c	413.250V	413.250F	413.250Z
3000 mm	56.0 c	413.300V	413.300F	413.300Z
3500 mm	59.5 D	413.350V	413.350F	413.350Z
4000 mm	62.5 D	413.400V	413.400F	413.400Z
4500 mm	65.0 D	413.450V	413.450F	413.450Z

For casting in concrete, hot-dip galvanized and coated red with white reflecting stripes

Clear width	Kg	For padlock	With triangular lock	With Euro profile cylinder lock
		Part-No.	Part-No.	Part-No.
2500 mm	53.0 c	413.250VB	413.250FB	413.250ZB
3000 mm	56.0 c	413.300VB	413.300FB	413.300ZB
3500 mm	59.5 D	413.350VB	413.350FB	413.350ZB
4000 mm	62.5 D	413.400VB	413.400FB	413.400ZB
4500 mm	65.0 D	413.450VB	413.450FB	413.450ZB



Base plate for plugging down

1x Base plate swiveling post 360 x 360 x 8 mm
incl. 4 holes \varnothing 21 mm, hole pitch 260 x 260 mm.
2x Base plate supporting posts 220 x 220 x 8 mm
incl. 4 holes \varnothing 21 mm, hole pitch 140 x 140 mm

Add letter **P** to part no.

Outdoor equipment

- Scooter racks
- Bicycle stands / lean-on hoops
- Bollard luminaires
- Laundry drying stands
- Litter bins
- Planters



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Scooter - serial parking

with lockable rings for padlock, square tube
cross bar 40 x 40 mm, total width: 1500 mm
for 5 places, stand tube to be fixed by screws
height: approx. 500 mm above ground
hot-dip galvanized



	For casting in concrete	To be fixed by plugs	For wall mounting
Kg	13.0 ^A	13.0 ^A	11.0 ^A
Part-No.	421.92	421.94	421.96

Scooter - serial parking hoop

with lockable rings for padlock,
height: approx. 500 mm above ground,
hoop made of steel tube Ø 48 mm,
total width: 1500 mm for 5 places
total height: approx. 1000 mm above ground
hot-dip galvanized



	For casting in concrete	To be fixed by plugs
Kg	15.0 ^B	15.0 ^B
Part-No.	421.98	421.99



Individual stands

stand of \varnothing 12 mm round steel welded to vertical tube 40 x 40 mm height: approx. 500 mm above ground hot-dip galvanized



Individual stand for casting in concrete

one-side parking
two-side parking

Kg **Part-No.**

2.5 ^A 421.51
4.0 ^A 421.52



Individual stand for plugging down

plugging plate 100 x 150 mm, 4 holes \varnothing 10 mm

one-side parking
two-side parking

2.5 ^A 421.53
4.0 ^A 421.54



Individual stand for wall mounting

straight positioning 90°
angled positioning 45°

1.5 ^A 421.55
2.5 ^A 421.56

Individual stand

stable, easy bicycle rack

Individual stand for casting in concrete

stand of \varnothing 20 mm round steel, hot-dip galvanized

height approx. 530 mm above ground



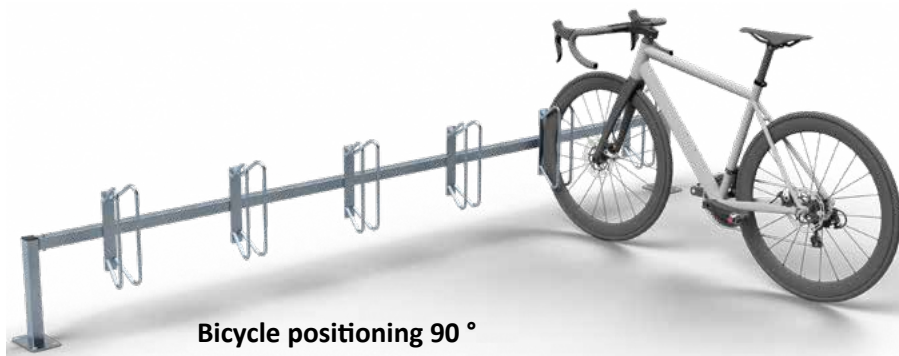
Kg **Part-No.**
4.0 ^A 421.60

Bicycle rack – serial parking

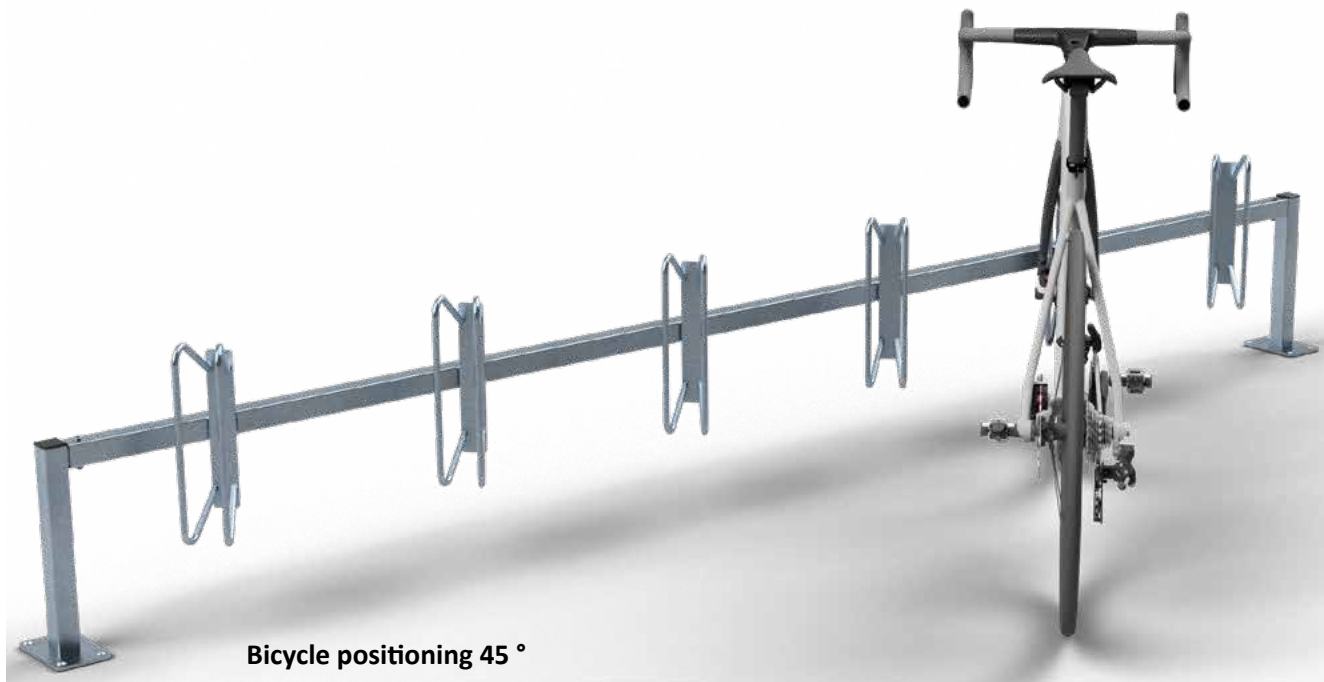
Sturdy and weatherproof

parking rack made of \varnothing 12 mm round steel with welded square tube strut 40 x 40 mm. Vertical tube can be fixed by bolts.

Height: approx. 500 mm above ground for bicycle wheel width up to 55 mm hot-dip galvanized



Bicycle positioning 90 °



Bicycle positioning 45 °

Model	Stand-alone construction for casting in concrete		Stand-alone construction for plugging down		Wall brackets for plugging down	
	Straight 90°	Left or right 45°	Straight 90°	Left or right 45°	Straight 90°	Left or right 45°
Element length	3000		3000		3000	
Total length with vertical tube approx. mm	3100 One-side		3100 One-side		3100 One-side	
Bicycle positioning	Straight 90°	Left or right 45°	Straight 90°	Left or right 45°	Straight 90°	Left or right 45°
Number of spaces	6	6	6	6	6	6
Spacing mm	500	500	500	500	500	500
Depth of stand approx. mm	2000	1600	2000	1600	2000	1600
Kg	21.0 c	21.0 c	20.0 c	20.0 c	18.0 c	18.0 c
Part-No.	421.02	421.03	421.04	421.05	421.16	421.17

A visually appealing bicycle stand, easy to set up:

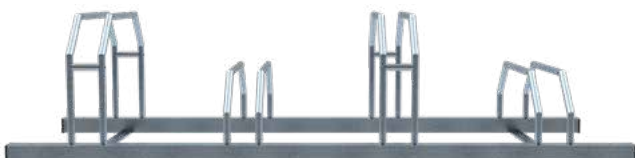
- simple installation
- double-sided use possible
- durable due to hot-dip galvanizing and optional coating



Bicycle stand for row installation:

- frame made of square tube
- hoop 19 mm round tube
- height: approx. 330 mm, alternating high / low position
- Bicycle tire width up to 55 mm

		galvanized	hot-dip galvanised, coated RAL 9005
	Kg	Part-No.	Part-No.
2 parking spaces	7,0 ^B	421.20	421.20B
3 parking spaces	9.5 ^B	421.30	421.30B
4 parking spaces	12.0 ^B	421.40	421.40B



Sturdy and space-saving due to alternating high and low racks. Racks can be bolted to form a serial system, with boreholes for anchoring or plugging.

Bicycle parking rack

- frame of angular section
- hoop 19 mm round tube
- height: approx. 510 mm
- alternating high and low racks
- bicycle wheel width up to 55 mm
- low rack one side: approx. 500 mm
- two-side depth: approx. 600 mm



One-sided rack, hot-dip galvanized

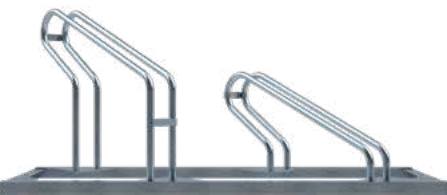
space between bicycles 350 mm

	Length	Kg	Part-No.
2 Bicycles	700 mm	9.5 B	420.20
3 Bicycles	1050 mm	10.5 B	420.30
4 Bicycles	1400 mm	14.5 B	420.40
5 Bicycles	1750 mm	16.5 B	420.50
6 Bicycles	2100 mm	20.0 B	420.60



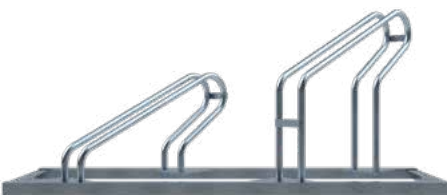
Two-sided rack, hot-dip galvanized

2 x 3 Bicycles	1050 mm	16.0 B	420.32
2 x 5 Bicycles	1750 mm	26.0 B	420.52
2 x 6 Bicycles	2100 mm	32.0 B	420.62



One-sided rack 45° left, hot-dip galvanized

	Length	Kg	Part-No.
2 Bicycles	1130 mm	10.0 B	420.20-45L
3 Bicycles	1695 mm	14.5 B	420.30-45L
4 Bicycles	2260 mm	19.5 B	420.40-45L



One-sided rack 45° right, hot-dip galvanized

	Length	Kg	Part-No.
2 Bicycles	1130 mm	10.0 B	420.20-45R
3 Bicycles	1695 mm	14.5 B	420.30-45R
4 Bicycles	2260 mm	19.5 B	420.40-45R

Bicycle stand with lean-on hoop

frame of angular section
 hoop \varnothing 19 mm round tube, high and low rack bicycle wheel width up to 55 mm
 Lean-on hoop \varnothing 26.9 mm round tube with reinforced side and eyelet, hoop with plastic coating
 height: approx. 850 mm
 depth: approx. 950 mm

One-sided rack, hot-dip galvanized

with lean-on hoop, space between bicycles 350 mm

	Length	Kg	Part-No.
2 Bicycles	700 mm	15.0 ^B	420.20H
4 Bicycles	1400 mm	30.0 ^B	420.40H
6 Bicycles	2100 mm	45.0 ^B	420.60H

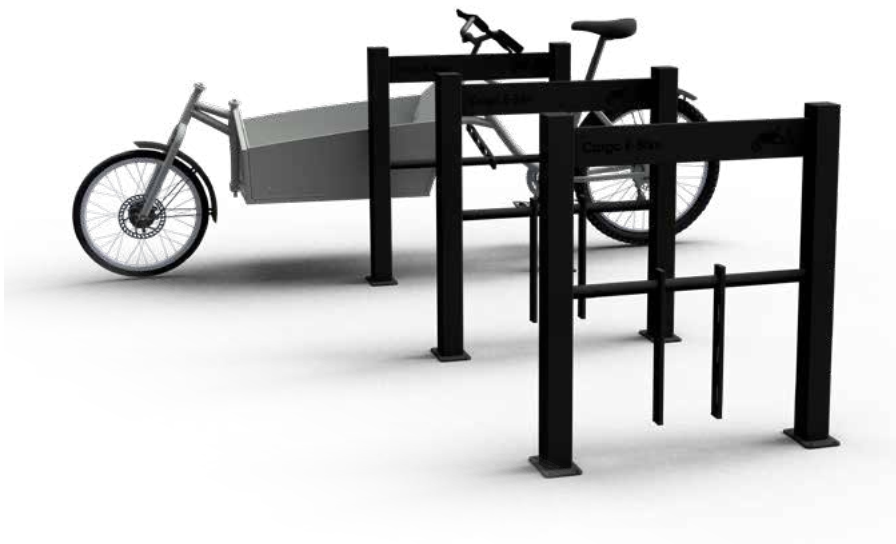


Figure: 2 racks 420.20H

Cargo-Bike lean-on hoop

for dowelling with swivelling holding devices to secure the bicycles (cargo bikes)
 secure the bicycles (cargo bikes) with lasered logo,
 hot-dip galvanized, coated RAL 9005

Length	Kg	Part-No.
800 mm	16.0 ^B	4021.20B



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Lean-on hoop for bicycles

rack made of square tube 80 x 80 mm with hoops to be screwed on, made of square tube 60 x 40 mm, with base plates, for plugging down hot-dip galvanized

total height: approx. 950 mm
hoop spacing: approx. 700 mm



depth (bicycle positioning 90°): approx. 1500 mm



Angle of mounting these hoops at your choice. If mounted lean-on hoop in an angle of 45° to the rack, the depth reduces to approx. 1100 mm

	2 Bicycles	3 Bicycles	4 Bicycles
Total length:	1400 mm	2100 mm	2800 mm
Part-No.	4022.20	4022.30	4022.40
Kg	41.0 ^B	53.5 ^B	66.0 ^C

Lean-on hoop for bicycles

consisting of 3 lean-on hoops, made of steel tube Ø 48 mm, welded on flat steel 100 x 8 mm, length: 1800 mm, with bores for plugging down

total width: approx. 700 mm
hoop spacing: approx. 600 mm
height: approx. 700 mm

	Kg	Part-No.
hot-dip galvanized	38.5 ^B	422.30



Bicycle parking rack with guide rails for screwing on hoops

height: 800 mm
hoop spacing: 700 mm
hot-dip galvanized



Total length:	2 Bicycles 1400 mm	3 Bicycles 2100 mm	4 Bicycles 2800 mm
----------------------	-------------------------------	-------------------------------	-------------------------------



**Hoop of steel tube Ø 48 mm
width: 800 mm**

Part-No.	423.20	423.30	423.40
Kg	22.5 ^B	34.0 ^B	45.0 ^C



**Hoop of steel tube 60 x 60 mm
width: 800 mm**

Part-No.	424.20	424.30	424.40
Kg	26.5 ^B	40.0 ^B	53.5 ^C



**Hoop of flat steel 50 x 12 mm
width: 800 mm**

Part-No.	425.20	425.30	425.40
Kg	32.5 ^B	49.0 ^B	65.0 ^C



**Round hoop of steel tube Ø 48 mm
width: 460 mm**

Part-No.	426.20	426.30	426.40
Kg	20.5 ^B	30.5 ^B	40.5 ^C

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

With this lean-on hoop you will create an exceptional added value for your customers. You offer a practical securing of the bike and the E-bikes can be charged during your stay with their own charger.



E-bike lean-on hoop

Lean-on hoop made of hot-dip galvanized and powder-coated steel square tube including IP 67 output socket 230V with protective cover.

3 row system

- bicycle stand as row system
- with rail system for steel tube lean-on hoops (60 x 60 mm) to be screwed on,
- height: 800 mm
- width: 800 mm
- space between bicycles: 700 mm
- hot-dip galvanized and black coated



	Kg	Part-No.
without lockable loading boxes	40.0 ^B	424.30BE
with 3 lockable loading boxes	40.0 ^B	424.30BEL



Optional highlight:

with practical lockable charging box for all common E-Bike chargers simply lockable by chain lock, spiral cable lock, etc.; blue coated

E-bike lean-on hoop

Lean-on hoop made of hot-dip galvanized and powder-coated steel square tube including IP 54 output socket 230V with protective cover.



Single hoop

E-bike lean-on hoop with charging station including IP 54 output socket 230V, with protective cover, with lockable charging box, as single hoop made of square tube 100x100mm / 60x60mm width: 800mm total height: 800mm, with base plates for plugging down, hot-dip galvanized and black coated



	Kg	Part-No.
without lockable loading box	15.5 ^B	454.080PBE
with lockable loading box	15.5 ^B	454.080PBEL



Matching accessories for this product:

Plug lock

Part-No.
454S

- Protection against energy theft
- With two keys
- Easy mounting



Available in many color variants

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Advertising medium and customer service combined! Customize your exclusive bicycle rack with your advertisement stickers on the free advertising space or order an individual advertising sign



Mobile bicycle rack with advertising panel

Optionally with charging station for electric bikes
Including fixing devices to ensure the stability of the bikes, with transport wheels.
Tire widths 6 x up to 55 mm, 3 x up to 45 mm, galvanised, coated in RAL 9005



Kg	Part-No.
32.0 ^B	420.80B
40.0 ^B	420.80BE
2.0 ^A	4W.80

Basic model without plugs
Model E with 3 x IP54 sockets, 2x scooter charger holder
Advertising sign 1230 x 254 mm printed individually according to your printable file

Mobile scooter rack with display panel

optionally with scooter charging station
6 galvanised parking spaces
coated in RAL 9005



Kg	Part-No.
32.0 ^B	420.90B
40.0 ^B	420.90BE
2.0 ^A	4W.80

Basic model without plugs
Model E with 3 x IP54 sockets, 2x scooter charger holder
Advertising sign 1230 x 254 mm printed individually according to your printable file

Bicycle racks

Stylish, universally applicable
This bicycle rack can be used as a
lean-on or as a bicycle parker

Bicycle racks

made of square tube 80 x 20 x 2 mm
height: 800 mm
width: 95 mm



Single parking space, to be fixed by plugs
with base plate 150 x 150 mm

hot-dip galvanised
coated with DB 703

Kg	Part-No.
7.0 ^A	458.95P
7.0 ^A	458.95PB

Bicycle racks

square tube 80 x 80 mm
height: 800 mm

Single parking space, to be fixed by plugs
with base plate 150 x 150 mm
with side arches made of round tube Ø 60 mm

hot-dip galvanised
hot-dip galvanised and matt black
coated

Kg	Part-No.
11.5 ^A	40880
11.5 ^A	40880B

Single parking space, to be fixed by plugs
with base plate 150 x 150 mm
with side brackets in square tube 60 x 60 mm

hot-dip galvanised
hot-dip galvanised and matt black
coated

Kg	Part-No.
11.5 ^A	40881
11.5 ^A	40881B



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Lean-on hoop
easy and safe bicycle rack



Lean-on hoop stand for casting in concrete,
steel tube Ø 42 mm, hot-dip galvanized

stand opening approx. 170 mm
total width approx. 250 mm
total length approx. 1600 mm
total height approx. 800 mm

Kg	Part-No.
9.0 B	422.01

Bicycle lean-on hoop
steel tube Ø 48 mm
total width: approx. 1400 mm
height above ground: approx. 850 mm



For casting in concrete
hot-dip galvanized
hot-dip galvanized and coated DB 703

Kg	Part-No.
9.0 B	422.50
9.0 B	422.50B

For plugging down, with base plate
Ø 150 mm and three Ø 14 mm holes
Lean-on hoops removable
hot-dip galvanized
hot-dip galvanized and coated DB 703

8.0 B	422.51
8.0 B	422.51B

Bicycle lean-on hoops

Easy parking of bicycles, theft proof locking, simple installation, high stability

Bicycle lean-on hoop

steel tube \varnothing 60 x 2.5 mm
with cross tubes \varnothing 42 x 2.5 mm
total width: 800 mm
total height: 1300 mm



With flat head, for casting in concrete

hot-dip galvanized
hot-dip galvanized and coated DB 703

Kg **Part-No.**

12.8 ^B 422.60
12.8 ^B 422.60B

With ball head, for casting in concrete

hot-dip galvanized
hot-dip galvanized and coated DB 703

13.2 ^B 422.61
13.2 ^B 422.61B

Lean-on hoop, for casting in concrete

can be used on both sides
vertical steel tubes \varnothing 60 mm
tubular frame \varnothing 48 mm
total length: approx. 1425 mm
height above ground: approx. 900 mm
completely welded

hot-dip galvanized 19.1 ^B 422.10

Also available with:

Base plate 100 x 150 mm
(The total height changes to 800 mm)

Add the letter **P** to the part-no.

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Lean-on hoop made of steel tube
 for casting in concrete,
 hot-dip galvanized and optionally
 powder-coated in DB 703
 total height: approx. 1200 mm



Square tube 80 x 20 mm

Without cross bar



Total width

- 450 mm
- 750 mm
- 1000 mm

Kg

- 8.5 ^A
- 9.5 ^B
- 10.0 ^B

hot-dip galvanized

Part-No.

- 458.045
- 458.075
- 458.100

hot-dip galvanized

and coated DB 703

Part-No.

- 458.045B
- 458.075B
- 458.100B

With cross bar



- 450 mm
- 750 mm
- 1000 mm

- 10.0 ^A
- 11.5 ^B
- 13.0 ^B

- 459.045
- 459.075
- 459.100

- 459.045B
- 459.075B
- 459.100B

With cross bar (small distance)



- 450 mm
- 750 mm
- 1000 mm

- 10.0 ^A
- 11.5 ^B
- 13.0 ^B

- 459.145
- 459.175
- 459.110

- 459.145B
- 459.175B
- 459.110B

Lean-on hoop made of steel tube

for casting in concrete,
hot-dip galvanized and
optionally powder-coated in
DB 703
total height: approx. 1200 mm



Square tube 60 x 60 mm

Without cross bar

Total width

450 mm
750 mm
1000 mm

Kg

10.0 ^A
11.0 ^B
11.5 ^B

hot-dip galvanized

Part-No.

454.045
454.075
454.100

hot-dip galvanized
and coated DB 703
Part-No.

454.045B
454.075B
454.100B



With cross bar

450 mm
750 mm
1000 mm

11.0 ^A
13.0 ^B
15.0 ^B

455.045
455.075
455.100

455.045B
455.075B
455.100B



Square tube 60 x 40 mm

Without cross bar

450 mm
750 mm
1000 mm

10.0 ^A
11.5 ^B
12.5 ^B

456.045
456.075
456.100

456.045B
456.075B
456.100B



With cross bar

450 mm
750 mm
1000 mm

12.0 ^A
14.0 ^B
16.0 ^B

457.045
457.075
457.100

457.045B
457.075B
457.100B

Also available with:

Base plate 100 x 150 mm
(The total height changes to 800 mm)

Add the letter **P** to the part-no.

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Lean-on hoop of flat bar steel

for casting in concrete, hot-dip galvanized and optionally powder-coated in DB 703 total height: approx. 1200 mm



Flat bar steel 50 x 12 mm

Without cross bar

Total width	Kg	hot-dip galvanized Part-No.	hot-dip galvanized and coated DB 703 Part-No.
450 mm	13.0 ^A	450.045	450.045B
750 mm	14.5 ^B	450.075	450.075B
1000 mm	16.0 ^B	450.100	450.100B



With cross bar

450 mm	15.0 ^A	451.045	451.045B
750 mm	18.0 ^B	451.075	451.075B
1000 mm	20.5 ^B	451.100	451.100B



Flat bar steel 80 x 12 mm

Without cross bar

450 mm	21.0 ^A	452.045	452.045B
750 mm	23.5 ^B	452.075	452.075B
1000 mm	25.5 ^B	452.100	452.100B



With cross bar

450 mm	24.5 ^A	453.045	453.045B
750 mm	29.0 ^B	453.075	453.075B
1000 mm	33.0 ^B	453.100	453.100B

Lean-on hoop of flat bar steel curved layout

for casting in concrete hot-dip galvanized and optionally powder-coated in DB 703 over all height: approx. 1200 mm



Flat bar steel 50 x 12 mm

Without cross bar

Total width

Kg

hot-dip galvanized

hot-dip galvanized and coated DB 703

Part-No.

750 mm
1000 mm

14.5 B
16.0 B

4050.075
4050.100

4050.075B
4050.100B



With cross bar

750 mm
1000 mm

18.0 B
20.5 B

4051.075
4051.100

4051.075B
4051.100B



Flat bar steel 80 x 12 mm

Without cross bar

750 mm
1000 mm

23.0 B
25.0 B

4052.075
4052.100

4052.075B
4052.100B



With cross bar

750 mm
1000 mm

29.0 B
33.0 B

4053.075
4053.100

4053.075B
4053.100B

Also available with:

Base plate 100 x 150 mm
(The total height changes to 800 mm)

Add the letter **P** to the part-no.

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Lean-on hoop made of steel tube

for casting in concrete,
hot-dip galvanized and
optionally powder-coated in
DB 703
total height: approx. 1200 mm

with joist made of
Flat steel 30 x 5 mm



Flat steel 80 x 12 mm
Without cross bar, for casting in concrete



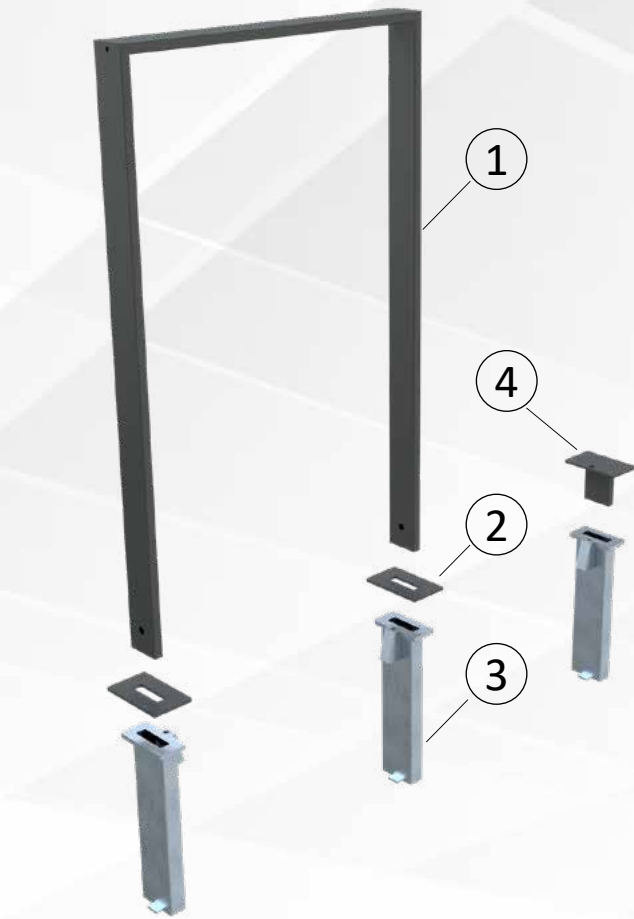
Total width	Kg	hot-dip galvanized Part-No.	hot-dip galvanized and coated DB 703 Part-No.
450 mm	21.0 ^A	4152.045	4152.045B
750 mm	23.5 ^B	4152.075	4152.075B
1000 mm	25.5 ^B	4152.100	4152.100B



Without cross bar, for casting in concrete		hot-dip galvanized	hot-dip galvanized and coated DB 703
Total width	Kg	Part-No.	Part-No.
500 mm	8.0 ^A	447.09	447.09B
700 mm	8.5 ^B	447.11	447.11B
1000 mm	9.5 ^B	447.12	447.12B
1200 mm	10.0 ^B	447.13	447.13B



With cross bar, for casting in concrete		hot-dip galvanized	hot-dip galvanized and coated DB 703
Total width	Kg	Part-No.	Part-No.
500 mm	9.0 ^A	447.19	447.19B
700 mm	10.0 ^B	447.21	447.21B
1000 mm	13.0 ^B	447.22	447.22B
1200 mm	14.0 ^B	447.23	447.23B



Lean-on hoops removable

1. lean-on hoops for bicycles Series 450/452/458
2. ground rosette
3. ground socket with clamp
4. cover



Ground socket with locking mechanism for square tubes

for lean-on hoops of flat bar steel and square tube
total length: approx. 400 mm, hot-dip galvanized



Rosettes



Cover



for 50x12 mm / 50x10 mm square tube
for 80x12 mm / 80x10 mm square tube
for 80x20 mm square tube

Kg

Part-No.

3.4	^A	450.41
3.4	^A	452.41
3.4	^A	458.41

hot-dip galvanized

Part-No.

0.7	^A	450R
0.7	^A	452R
0.7	^A	458R

hot-dip galvanized and coated DB 703
Part-No.

450RB
452RB
458RB

Kg

Part-No.

Part-No.

1.2	^A	450.20	450.20B
1.2	^A	452.20	452.20B
1.2	^A	458.20	458.20B

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Bollard luminaires

Bollard luminaires allow squares and paths to be clearly defined. Matching our large range of bollards, this robust bollard luminaire made of tubular steel is the perfect complement, to set highlights in the surroundings.

Bollard light

Tubular steel Ø 152mm, total height 1000 mm, hot-dip galvanised, powder-coated

Fixing: for dowelling

Voltage: 230V AC 50Hz, power: 12W,

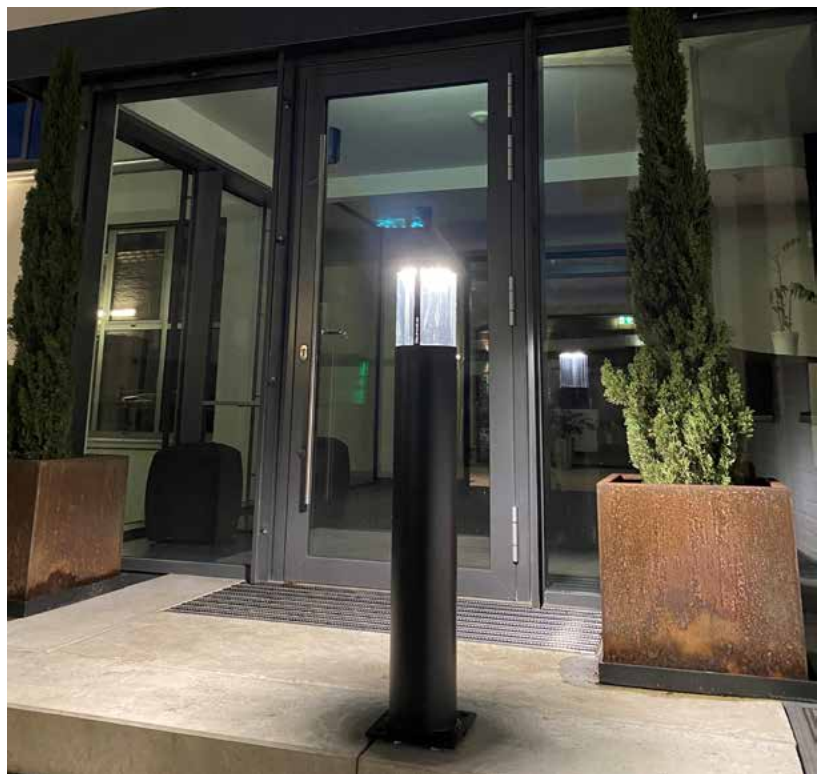
light output: 1050 lm, colour temperature: 4,000 K

Light colour: white

Beam angle: 180

Protection class: IP 54

Weight: approx. 16.0 kg



40156EBKS



40156EBMR



40156EBKD

Color:

Part-No.

Kg

Part-No.

Kg

clear

satin

- black structured
- rusty optic
- anthracite DB703

- 40156EBKS
- 40156EBKR
- 40156EBKD

- 16.0 ^A
- 16.0 ^A
- 16.0 ^A

- 40156EBMS
- 40156EBMR
- 40156EBMD

- 16.0
- 16.0
- 16.0

On request:

Bollard light incl. socket insert

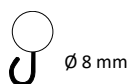


Laundry drying stands in different shapes.



Laundry drying stand consisting of:

2 fixed posts with ground anchor, total height: 2500 mm, cross tube with welded, bent hooks, hot-dip galvanized, spacing approx. 500 mm, 2 T-connectors, 2-part with bolt M10, 2 plastic cap



Laundry drying stand Y-shape, made of steel tube ∅ 60 mm

cross tube with 8 round pins ∅ 10 x 40 mm
total width: 1500 mm
total height: 2500 mm
with ground anchor, hot-dip galvanized

Kg Part-No.

18.5 c 419.400

Laundry drying stand T-shape, steel tube ∅ 60 mm

cross tube with 8 round pins ∅ 10 x 40 mm
total width: 1500 mm
t-connector, 2-part with bolt M10
total height: 2500 mm
with ground anchor, hot-dip galvanized

Kg Part-No.

14.0 c 419.450

	Kg	Steel tube ∅ 48 mm Part-No.	Steel tube ∅ 60 mm Part-No.
cross tube 2500 mm			
5 hooks, one-sided	23.5 c	419.4425	419.4625
without hooks	22.0 c	419.4525	419.4725
cross tube 3000 mm			
6 hooks, one-sided	26.0 c	419.4430	419.4630
without hooks	23.5 c	419.4530	419.4730
cross tube 3500 mm			
7 hooks, one-sided	27.5 c	419.4435	419.4635
without hooks	25.0 c	419.4535	419.4735
cross tube 4000 mm			
8 hooks, one-sided	29.0 d	419.4440	419.4640
without hooks	26.5 d	419.4540	419.4740

Extra charge for additional hooks

Part-No.

each bent hook, pc.

419.460 A

Litter bins for fixing on walls or posts



Litter bin, kidney shape

wire, height approx. 430 mm, content approx. 27 l, Ø approx. 210 x 400 mm, complete with rail bracket and square wrench part-no. 4037

hot-dip galvanized
fixed to post Ø 60 x 1300 mm

Kg	Part-No.
3.2 A	4027
8.2 A	4127



Litter bin, oval

content approx. 45 l, complete with bracket and wrench height approx. 600 mm, depth 260 mm, width 410 mm, lockable bottom flap for emptying, optional „nice guy“ sticker

hot-dip galvanized
fixed to post Ø 60 x 1300 mm

8.5 A	4029
13.5 A	4129

hot-dip galvanized and coated RAL 6005
fixed to post Ø 60 x 1300 mm

8.5 A	4029B
13.5 A	4129B



Litter bin approx. 35 l

with bracket and wrench, height 450 mm, Ø 320 mm

hot-dip galvanized
fixed to post Ø 60 x 1300 mm

6.0 A	4030
9.5 A	4130

hot-dip galvanized and coated DB 703
fixed to post Ø 60 x 1300 mm

6.0 A	4030B
9.5 A	4130B



Litter bin approx. 40 l, with ashtray

including bracket and wrench, height approx. 530 mm, width 340 mm, depth 380 mm, two side openings, lockable bottom flap for emptying

hot-dip galvanized
fixed to post Ø 60 x 1300 mm

9.0 A	4024
15.0 A	4124

hot-dip galvanized and coated DB 703
fixed to post Ø 60 x 1300 mm

9.0 A	4024B
15.0 A	4124B



Free-standing litter bin, approx. 50 l

with lid, Ø 360 mm, height 500 mm, with mounting post 60 x 60 x 1500 mm and triangular wrench (without inside container)

hot-dip galvanized, without insert container
hot-dip galvanized, with insert container

18.0 B	4034
21.2 B	4234

hot-dip galvanized and coated DB 703, without insert container
hot-dip galvanized and coated DB 703, with insert container

18,0 B	4034B
21.2 B	4234B

Inside container

for part-no. 4034, Ø 330 mm, height 440 mm

hot-dip galvanized

3.2 A	4034E
-------	-------

Litter bins for fixing on walls or posts



Square litter bin with cover

no perforation, content approx. 40 l, complete with brackets and wrench container size: 440 x 310 x 310 mm

hot-dip galvanized
fixed to post Ø 60 x 1300 mm

Kg	Part-No.
15.0 A	4036
18.0 A	4136

hot-dip galvanized and coated RAL 6005
fixed to post Ø 60 x 1300 mm

15.0 A	4036B
18.0 A	4136B



Square litter bin with cover

no perforation, content approx.40 l, including ashtray, complete with bracket and wrench, container size: 440 x 310 x 310 mm

hot-dip galvanized
fixed to post Ø 60 x 1300 mm

13.5 A	4035
18.0 A	4135

hot-dip galvanized and coated RAL 6005
fixed to post Ø 60 x 1300 mm

13.5 A	4035B
18.5 A	4135B



Round ashtray for fixing on walls or posts

with bracket, wrench and sticker, content approx. 4 l, Ø 200 mm, height 135 mm

hot-dip galvanized with perforated bottom for water drainage
fixed to post Ø 60 x 1300 mm

3.0 A	4066
8.0 A	4166

hot-dip galvanized and coated DB 703
fixed to post Ø 60 x 1300 mm

3.0 A	4066B
8.0 A	4166B



Round ashtray with cover for fixing on walls or posts

with bracket, wrench and sticker, content approx. 4 l Ø 200 mm, height 290 mm

hot-dip galvanized with perforated bottom for water drainage
fixed to post Ø 60 x 1300 mm

4.5 A	4067
9.5 A	4167

hot-dip galvanized and coated DB 703
fixed to post Ø 60 x 1300 mm

4.5 A	4067B
9.5 A	4167B



Square wrench 6 mm

for litter bin part-no. 4027

0.2 A	4037
-------	------



Triangular socket wrench 8 mm

0.2 A	4038
-------	------



Triangular wrench 8 mm

0.1 A	4039
-------	------

„Nice guy“ sticker, black

translucent / black

A	4021
---	------

„Nice guy“ sticker, white

translucent / white

A	4022
---	------



Universal fastening tape (1 unit = 2 pieces)

each bin requires 2 tapes, galvanized

A	4023
---	------

Planters

for more attractive downtown areas, in front of buildings, on parking lots or sidewalks.

Planters

vertical round tubes \varnothing 60 mm
horizontal steel tube 30 x 30 mm
with side sheet steel and bottom plate
hot-dip galvanized and coated DB 703

outside dimension: 640 x 640 mm
inside dimension: 520 x 520 mm
depth: 500 mm (container)
height: with ball head 680 mm
with flat head 600 mm



	Kg	Part-No.
with ball head	55.0 ^B	4025.10B
with flat head	55.0 ^B	4025.20B

Planters

vertical round tubes \varnothing 76 mm
with side sheet steel and bottom plate
hot-dip galvanized and coated DB 703

outside dimension: 880 x 880 mm
inside dimension: 700 x 700 mm
depth: 500 mm (container)
height: with ball head 680 mm



Kg	Part-No.
67.0 ^B	4025.70PB



Work site protection

- Barrier posts
- Chain posts / accessories
- Protective hoops
- Protective railings
- Crash guards
- Warning and protection profiles



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts

steel tube \varnothing 60, \varnothing 76 mm
with welded steel cap, approx. 900 mm
above ground, hot-dip galvanized and
yellow coated with black stripes

Stationary, for casting in concrete

with ground anchor

hot-dip galvanized and coated yellow
with three black stripes

Diameter in mm

Kg

Part-No.



\varnothing 60

4.9 ^A

460BG



\varnothing 76

7.0 ^A

476BG



Stationary, to be fixed by plugs

with base plate 100 x 150 mm
total length: 900 mm

hot-dip galvanized and coated yellow
with three black stripes

Diameter in mm

Kg

Part-No.



\varnothing 60

4.0 ^A

460PBG



\varnothing 76

5.1 ^A

476PBG

Set of mounting bolts type 1

Part-No.

470.71



Barrier posts

steel tube \varnothing 89, 70 x 70 mm
with welded steel cap, approx. 900 mm
above ground, hot-dip galvanized and
yellow coated with black stripes

Stationary, for casting in concrete

with ground anchor

hot-dip galvanized and coated yellow
with three black stripes

Diameter in mm

Kg

Part-No.



\varnothing 89

8.8 ^A

489BG



70 x 70

7.2 ^A

470BG



Stationary, to be fixed by plugs

with base plate 100 x 150 mm
total length: 900 mm

hot-dip galvanized and coated yellow
with three black stripes

Diameter in mm

Kg

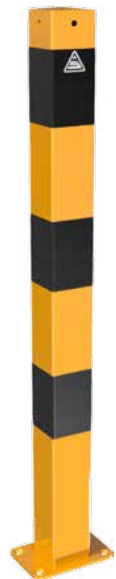
Part-No.



\varnothing 89

6.7 ^A

489PBG



70 x 70

5.6 ^A

470PBG

Set of mounting bolts type 1

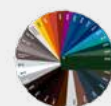
Part-No.

470.71



Also available in white / red
see Barrier Posts pages 12 ff.

Other color finishes possible;
see page 7



Barrier posts

Barrier posts

steel tube \varnothing 76, \varnothing 89, 70 x 70 mm with welded steel cap, approx. 1000 mm above ground hot-dip galvanized and coated yellow, with black stripes

Car-park barriers



Ornamental bollards

Crash-proof – tiltable!

Stainless steel



Barrier elements



Barrier gates

Stationary, sides tiltable
with base plate 220 x 220 mm for plugging down, without cover

Diameter in mm \varnothing 76 \varnothing 89 70 x 70 mm

Kg 8.9 ^A 10.2 ^A 9.5 ^A

hot-dip galvanized and coated yellow with three black stripes

Part-No. 476NPBG 489NPBG 470NPBG

Cover \varnothing 200 mm
for barrier post, tiltable



Part-No. 477.10BG

Set of mounting bolts type 2

Part-No. 470.72



Work site protection

Barrier posts

steel tube \varnothing 76, \varnothing 89, 70 x 70 mm
with welded steel cap, approx. 1000 mm
above ground hot-dip galvanized and
coated yellow, with black stripes



Removable!



476APBG



470APBG

Detachable, removable, fixed by plugs

with base plate 150 x 180 mm
locked by hexagon socket screw

hot-dip galvanized and coated yellow
with three black stripes

Set of mounting bolts type 1



Diameter in mm

\varnothing 76

\varnothing 89

70 x 70 mm

Kg

6.8 ^A

8.0 ^A

7.2 ^A

Part-No.

476APBG

489APBG

470APBG

Part-No.

470.71





40151BG

Steel tube bollards \varnothing 152 x 3.2 mm
with welded steel cap

Stationary, for casting in concrete

	Total length in mm	1200	1500	2000
hot-dip galvanized	Kg	13.3 ^A	16.5 ^B	21.9 ^B
	Part-No.	40150	40151	40152
hot-dip galvanized and coated yellow with three black stripes	Part-No.	40150BG	40151BG	40152BG

Removable caps for filling bollards with concrete

	Steel cap, bolted Replaces welded steel cap	Add letter L to the Part-No.
	Steel cap with concrete anchor Replaces welded steel cap	Add letter A to the Part-No.





40153BG

Steel tube bollards \varnothing 152 x 3.2 mm
with welded steel cap

For plugging down, with base plate 220 x 220 mm

	Total length in mm	1000
hot-dip galvanized	Kg	13.9 ^A
	Part-No.	40153
hot-dip galvanized and coated yellow with three black stripes	Part-No.	40153BG

 Also available in white/red, see barrier posts pages 24 ff

Other color finishes possible; see page 7 



40151HBG

Steel tube bollards Ø 152 x 3.2 mm

with welded steel cap, including ground socket part-no. 40151.10 approx. 500 mm above ground

hot-dip galvanized

hot-dip galvanized and coated yellow with three black stripes

Removable without locking mechanism

Total length in mm	1500	2000
Kg	26.0 ^B	32.0 ^B
Part-No.	40151H	40152H
Part-No.	40151HBG	40152HBG



40151FBG

Steel tube bollards Ø 152 x 3.2 mm

with welded steel cap, height above ground 1000 mm incl. ground socket part-no. 470.10 approx. 500 mm above ground

hot-dip galvanized

hot-dip galvanized and coated yellow with three black stripes

Removable, with triangular locking mechanism

Kg	20.1 ^B
Part-No.	40151F
Part-No.	40151FBG



40153NPBG

Flexible, tiltable Steel tube bollards Ø 152 x 3.2 mm

with welded steel cap

hot-dip galvanized

hot-dip galvanized and coated yellow with three black stripes

For plugging down, with base plate 360 x 360 mm

Total length in mm	1000
Kg	23.0 ^A
Part-No.	40153NP
Part-No.	40153NPBG



Suitable mounting material for this product: set of mounting bolts type 2

Part-No.
470.72

Further accessories pages 49

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

These heavy bollards can be used as crash guard, particularly in front of entrances, halls, gas stations, etc. They can also protect roof overhangs or serve as guiding bollards in front of ramps, gates, etc.



40191BG



40193BG

Steel tube bollards \varnothing 193 x 3.6 mm
with welded steel cap



Stationary, for casting in concrete

hot-dip galvanized

hot-dip galvanized and coated yellow
with three black stripes

Total length in mm	1200	1500	2000
Kg	20.9 ^A	26.0 ^B	34.4 ^B
Part-No.	40190	40191	40192
Part-No.	40190BG	40191BG	40192BG

Removable caps for filling bollards with concrete

	Steel cap, bolted Replaces welded steel cap	Add letter L to the Part-No.
	Steel cap with concrete anchor Replaces welded steel cap	Add letter A to the Part-No.


Steel tube bollards \varnothing 193 x 3.6 mm
with welded steel cap

For plugging down, with base plate 360 x 360 mm

hot-dip galvanized

hot-dip galvanized and coated yellow
with three black stripes


Total length in mm	1000
Kg	23.6 ^A
Part-No.	40193
Part-No.	40193BG



Suitable mounting material for this product:
set of mounting bolts type 2

Part-No.
470.72

Further accessories see page 49



Steel tube bollards removable
for temporary detach



40191HBG

Steel tube bollards Ø 193 x 3.6 mm

with welded steel cap,
incl. ground socket part-no. 40191.10
approx. 500 mm above ground

hot-dip galvanized

hot-dip galvanized and coated yellow
with three black stripes

Removable without locking mechanism

Total length in mm **1500** **2000**

Kg 38.0 ^B 50.0 ^B

Part-No. 40191H 40192H

Part-No. 40191HBG 40192HBG



40191FBG

Steel tube bollards Ø 193 x 3.6 mm

with welded steel cap.
height above ground: 1000 mm
incl. ground socket part-no. 470.10
approx. 500 mm above ground

hot-dip galvanized

hot-dip galvanized and coated yellow
with three black stripes

Removable, with triangular locking mechanism

Kg 27.6 ^B

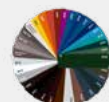
Part-No. 40191F

Part-No. 40191FBG



Also available in white/red, see barrier posts page 26

Other color finishes possible;
see page 7





40271



40273BG

Steel tube bollards \varnothing 273 x 5.0 mm
with welded steel cap

Stationary, for casting in concrete

	Total length in mm	1500	2000
hot-dip galvanized	Kg	51.1 ^B	67.6 ^B
	Part-No.	40271	40272
hot-dip galvanized and coated yellow with three black stripes	Part-No	40271BG	40272BG

Removable caps for filling bollards with concrete



Steel cap with concrete anchor
Replaces welded steel cap

Add letter **A** to the Part-No.

Steel tube bollards \varnothing 273 x 5.0 mm
with welded steel cap

For plugging down, with base plate 360 x 360 mm

	Total length in mm	1500
hot-dip galvanized	Kg	58.9 ^B
	Part-No.	40273
hot-dip galvanized and coated yellow with three black stripes	Part-No.	40273BG



Suitable mounting material for this product:
set of mounting bolts type 2

Part-No.
470.72

Further accessories see page 49

Steel tube bollards Ø 323 mm

These heavy bollards can be used as crash guard, particularly in front of entrances, halls, gas stations, etc. They can also protect roof overhangs or serve as guiding bollards in front of ramps, gates, etc.



40321BG

Steel tube bollards Ø 323 x 5.0 mm with welded steel cap

Stationary, for casting in concrete

hot-dip galvanized

hot-dip galvanized and coated yellow with three black stripes

Total length in mm	1500	2000	2400
Kg	60.0 ^B	80.5 ^B	96.0 ^B
Part-No.	40321	40322	40324
Part-No.	40321BG	40322BG	40324BG

Removable caps for filling bollards with concrete



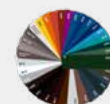
Steel cap with concrete anchor
Replaces welded steel cap

Add letter **A** to the Part-No.



Also available in white/red, see barrier posts page 26

Other color finishes possible; see page 7



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Steel tube bollards Ø 152 x 3.2 mm
with welded steel cap,
tiltable

Stationary, for plugging down

Total length in mm **1000** **1500**

Kg 30.0 ^A 35.3 ^B

Part-No. 401530N 401535N

hot-dip galvanized

hot-dip galvanized and coated yellow
with three black stripes

Part-No. 401530NBG 401535NBG



401530NBG

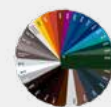


For protecting buildings and to
minimize damages on cars



Also available in white/red, see barrier posts page 30

Other color finishes possible;
see page 7





Truck entry aid, angled

made of Ø 152.4 mm round tube,
total length: approx. 3000 mm,
for plugging down

hot-dip galvanized

left side
right side

Kg	Part-No.
49.0 c	40157L
49.0 c	40157R

**hot-dip galvanized and white coated
with red reflecting stripes**

left side
right side

49.0 c	40157LB
49.0 c	40157RB

**hot-dip galvanized and yellow coated
with black stripes**

left side
right side

49.0 c	40157LBG
49.0 c	40157RBG

Truck entry aid, straight

can also be used as extension element
made of Ø 152.4 mm round tube,
total length: approx. 3600 mm,
for plugging down

hot-dip galvanized

54.0 c	40157G
--------	--------

**hot-dip galvanized and white coated
with red reflecting stripes**

54.0 c	40157GB
--------	---------

**hot-dip galvanized and yellow coated
with black stripes**

54.0 c	40157GBG
--------	----------



**Barrier chain of steel, unwelded**

wire thickness 6 mm, packing unit 10 m

hot-dip galvanized
galvanized and yellow / black coated

Kg/m	Part-No.
0.6 ^A	430.66
0.6 ^A	430.67B

**Barrier chain of steel, unwelded**

wire thickness 7 mm, packing unit 10 m

hot-dip galvanized
galvanized and yellow / black coated

Kg/m	Part-No.
0.9 ^A	430.10
0.9 ^A	430.20B

**S hook**

galvanized
galvanized and yellow coated
galvanized and black coated

Part-No.
430.11
430.11BG
430.11BS

**Connection link**

galvanized
galvanized and yellow coated
galvanized and black coated

Part-No.
430.09
430.09BG
430.09BS

**Shackle**

galvanized
galvanized and yellow coated
galvanized and black coated

Part-No.
430.12
430.12BG
430.12BS

**Plastic barrier chain**

packing unit 25 m

6 mm, yellow / black
8 mm, yellow / black

Kg/m	Part-No.
2.0 ^A	430.06
2.5 ^A	430.30

**Plastic connection link**

yellow, 6 mm
black, 6 mm

yellow, 8 mm
black, 8 mm

Part-No.
430.07G
430.07S
430.16G
430.16S

**Plastic hook link**

yellow, 6 mm
black, 6 mm

yellow, 8 mm
black, 8 mm

Part-No.
430.08G
430.08S
430.17G
430.17S



For further chains and accessories see pages 50-51

Movable chain post as temporary barrier, with high stability for quick setup, can be used outdoors or indoors. Post easy to separate from foot. Simple installation and space-saving storage.



460KBS

Chain post, heavy

of 60 mm round tube with welded steel cap and eyelets for attaching the chain, height 900 mm, hot-dip galvanized and yellow coated with three black stripes, with foot plate of recycled material 400 x 400 x 100 mm, removable

Kg	Part-No.
15.0 ^A	460KBS



4040KBS

Plastic chain post

light-weight chain post of plastic material for quick barrier installation, including triangular plastic foot, side length 300 mm, filled with concrete. Plastic tube \varnothing 40 mm, height 900 mm, with 4 chain holders integrated in the cap

yellow / black

3.0 ^A	4040KBS
------------------	---------



4041KBS

Plastic chain post

with foot \varnothing 300 mm filled by customer. Plastic tube \varnothing 40 mm, height 900 mm, with 4 chain holders integrated in the cap

yellow / black

2.0 ^A	4041KBS
------------------	---------



Chain post set

version: 6 plastic posts \varnothing 40 mm, with 4 chain holders integrated in the cap, 10 m plastic chain, 10 connecting links

with concrete-filled triangular plastic feet, side length: 300 mm
yellow / black

20.0 ^A	4040KBSSET
-------------------	------------

with feet \varnothing 300 mm for filling by customer
yellow / black

14.0 ^A	4041KBSSET
-------------------	------------



Also available in red/white and in white/red; see barrier posts / barrier chains page 45

Barrier posts

Safety and protection for danger areas (entrances, ramps, separations, etc.) hot-dip galvanized, powder coated yellow with black warning stripes



Car-park barriers

Ornamental bollards

Protective hoop with cross bar
Round steel tube \varnothing 48 x 2.5 mm



Stainless steel

Total width	Height above ground	Kg	For casting in concrete Part-No.	For plugging down Part-No.
1000 mm	1000 mm	12.5	448.32BG ^B	448.62BG ^B
1500 mm	1000 mm	15.5	448.33BG ^B	448.63BG ^B
2000 mm	1000 mm	18.5	448.34BG ^B	448.64BG ^B

Barrier elements

Protective hoop with cross bar
Round steel tube \varnothing 60 x 2.5 mm



Barrier gates

1000 mm	1000 mm	15.5	465.32BG ^B	465.62BG ^B
1500 mm	1000 mm	19.5	465.33BG ^B	465.63BG ^B
2000 mm	1000 mm	23.0	465.34BG ^B	465.64BG ^B

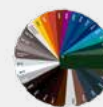
Outdoor equipment

Work site protection



Also available in hot-dip galvanized !
See barrier elements pages 104

Other color finishes possible;
see page 7



Barrier hoop

Safety protection especially for ramps



Protective hoop with cross bar

Round steel tube $\varnothing 48 \times 2.5$ mm
for wall-mounting, incl. 2 tube sockets
type 443.15W for plugging down, removable,
without locking mechanism



hot-dip galvanized

Total width	Height above ground	Kg	Part-No.
700 mm	1000 mm	12.0	448.21W ^A
1000 mm	1000 mm	13.8	448.22W ^A
1200 mm	1000 mm	14.9	448.23W ^A



hot-dip galvanized and coated yellow with black stripes

Total width	Height above ground	Kg	Part-No.
700 mm	1000 mm	12.0	448.21WBG ^A
1000 mm	1000 mm	13.8	448.22WBG ^A
1200 mm	1000 mm	14.9	448.23WBG ^A

Protective hoop with cross bar

Round steel tube $\varnothing 60 \times 2.5$ mm
for wall-mounting, incl. 2 tube sockets
Type 460.15W for plugging down, removable,
without locking mechanism



hot-dip galvanized

Total width	Height above ground	Kg	Part-No.
700 mm	1000 mm	14.9	465.21W ^B
1000 mm	1000 mm	17.1	465.22W ^B
1200 mm	1000 mm	18.5	465.23W ^B



hot-dip galvanized and coated yellow with black stripes

Total width	Height above ground	Kg	Part-No.
700 mm	1000 mm	14.9	465.21WBG ^B
1000 mm	1000 mm	17.1	465.22WBG ^B
1200 mm	1000 mm	18.5	465.23WBG ^B

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts

Effective protection for indoor and outdoor areas, warehouses and production halls. To secure work areas and traffic lanes, protect machines, columns and racks.

Car-park barriers

**Anti-nudge hoop
Steel tube Ø 76 mm**

hot-dip galvanized, powder-coated yellow, with black warning stripes



Ornamental bollards

For casting in concrete



Total width	Height above ground	Kg	Part-No.
400 mm	250 mm	6.5 B	477.01BG
750 mm	250 mm	8.0 B	477.02BG
1000 mm	250 mm	9.5 B	477.03BG
400 mm	650 mm	11.0 B	477.04BG
750 mm	650 mm	13.0 B	477.05BG
1000 mm	650 mm	14.0 B	477.06BG
400 mm	1150 mm	14.5 A	477.07BG
750 mm	1150 mm	16.0 B	477.08BG
1000 mm	1150 mm	17.5 B	477.09BG

Stainless steel

Barrier elements



Barrier gates

For plugging down



400 mm	250 mm	4.0 A	477.01PBG
750 mm	250 mm	6.0 A	477.02PBG
1000 mm	250 mm	7.0 B	477.03PBG
400 mm	650 mm	8.0 B	477.04PBG
750 mm	650 mm	10.0 B	477.05PBG
1000 mm	650 mm	11.0 B	477.06PBG
400 mm	1150 mm	12.5 A	477.07PBG
750 mm	1150 mm	14.5 B	477.08PBG
1000 mm	1150 mm	15.5 B	477.09PBG

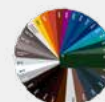
Outdoor equipment

Work site protection



Also available in hot-dip galvanized !
See barrier elements pages 111

Other color finishes possible;
see page 7



Anti-nudge hoops \varnothing 76 mm

For protecting warehouse floor
(when crashed, fixation will not pull out)

Anti-nudge hoop flexible, tiltable Steel tube \varnothing 76 mm

hoop with base plate 220 x 220 mm,
hot-dip galvanized, powder-coated yellow,
with black warning stripes



For plugging down

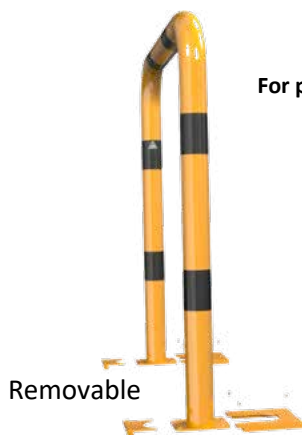
Total width	Height above ground	Kg	Part-No.
400 mm	650 mm	12.0 ^B	477.04NPBG
750 mm	650 mm	15.0 ^B	477.05NPBG
1000 mm	650 mm	17.0 ^B	477.06NPBG
400 mm	1150 mm	12.0 ^A	477.07NPBG
750 mm	1150 mm	15.0 ^B	477.08NPBG
1000 mm	1150 mm	17.0 ^B	477.09NPBG

For temporary opening/closing of entrances.
Locked with hexagon socket screws, the hoop can be detached from the plates and inserted as needed.



Anti-nudge hoop flexible, tiltable Steel tube \varnothing 76 mm

hot-dip galvanized, powder-coated yellow,
with black warning stripes



For plugging down

400 mm	650 mm	12.0 ^B	477.04APBG
750 mm	650 mm	15.0 ^B	477.05APBG
1000 mm	650 mm	17.0 ^B	477.06APBG
400 mm	1150 mm	12.0 ^A	477.07APBG
750 mm	1150 mm	15.0 ^B	477.08APBG
1000 mm	1150 mm	17.0 ^B	477.09APBG

Removable



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts

Anti-nudge hoop 90° equal-sided
Steel tube \varnothing 76 mm
 hot-dip galvanized and coated yellow with black stripes



Car-park barriers

Ornamental bollards

Stationary, for casting in concrete



Total width	Height above ground	Kg	Part-No.
350 mm	650 mm	19.0 ^B	477.30BG
350 mm	1150 mm	25.0 ^A	477.31BG
600 mm	650 mm	22.0 ^B	477.60BG
600 mm	1150 mm	27.5 ^B	477.61BG

Stainless steel

For plugging down

350 mm	650 mm	13.5 ^A	477.30PBG
350 mm	1150 mm	21.0 ^A	477.31PBG
600 mm	650 mm	16.0 ^B	477.60PBG
600 mm	1150 mm	24.0 ^B	477.61PBG

Barrier elements

Anti-nudge hoop Double hoop
Steel tube \varnothing 76 mm
 hot-dip galvanized and coated yellow with black stripes

Stationary, for casting in concrete



Total width	Total depth	Height above ground	Kg	Part-No.
750 mm	450 mm	650 mm	28.5 ^B	477.68BG
750 mm	450 mm	1150 mm	36.0 ^B	477.69BG
1000 mm	450 mm	650 mm	30.0 ^B	477.70BG
1000 mm	450 mm	1150 mm	37.5 ^B	477.71BG

Barrier gates

Outdoor equipment

For plugging down



750 mm	450 mm	650 mm	21.0 ^B	477.68PBG
750 mm	450 mm	1150 mm	31.5 ^B	477.69PBG
1000 mm	450 mm	650 mm	22.0 ^B	477.70PBG
1000 mm	450 mm	1150 mm	32.5 ^B	477.71PBG

Work site protection

Anti-nudge hoop 90°

One sided, deep version

Steel tube \varnothing 76 mm

hot-dip galvanized, powder-coated yellow, with black warning stripes



Total width	Total depth	Height above ground	Kg	Part-No.
Stationary, for casting in concrete				
One side, right				
600 mm	350 mm	650 mm	13.5 ^B	477.76BG
600 mm	350 mm	1150 mm	17.0 ^B	477.77BG
For plugging down				
One side, right				
600 mm	350 mm	650 mm	10.0 ^B	477.76PBG
600 mm	350 mm	1150 mm	15.0 ^B	477.77PBG



Total width	Total depth	Height above ground	Kg	Part-No.
Stationary, for casting in concrete				
One side, left				
600 mm	350 mm	650 mm	13.5 ^B	477.78BG
600 mm	350 mm	1150 mm	17.0 ^B	477.79BG
For plugging down				
One side, left				
600 mm	350 mm	650 mm	10.0 ^B	477.78PBG
600 mm	350 mm	1150 mm	15.0 ^B	477.79PBG

Anti-nudge hoop

double-sided, deep version

Steel tube \varnothing 76 mm

hot-dip galvanized and coated yellow with black stripes



Total width	Total depth	Height above ground	Kg	Part-No.
Stationary, for casting in concrete				
750 mm	450 mm	650 mm	17.0 ^B	477.72BG
1000 mm	450 mm	650 mm	18.0 ^B	477.73BG
750 mm	450 mm	1150 mm	20.0 ^B	477.74BG
1000 mm	450 mm	1150 mm	21.0 ^B	477.75BG



Total width	Total depth	Height above ground	Kg	Part-No.
For plugging down				
750 mm	450 mm	650 mm	13.0 ^B	477.72PBG
1000 mm	450 mm	650 mm	14.0 ^B	477.73PBG
750 mm	450 mm	1150 mm	18.0 ^B	477.74PBG
1000 mm	450 mm	1150 mm	19.0 ^B	477.75PBG

Safety protection for posts, pillars, poles, etc.




Anti-nudge hoop for posts

steel tube construction with 2 hoops \varnothing 60 mm with welded-on cross-bars for nesting for plugging down, with base plates 100 x 150 mm, hot-dip galvanized, powdercoated yellow, with black warning stripes




For plugging down


Total width	Total depth	Height above ground	Kg	Part-No.
600 mm	600 mm	650 mm	19.0 ^B	465.066PBG
800 mm	800 mm	800 mm	24.0 ^B	465.068PBG



Also available in hot-dip galvanized and white / red !
See barrier elements pages 110



Other color finishes possible;
see page 7



Crash guard with underrun guard

prevents underrunning of platform floor trucks and protects from fork trucks



Protection hoops, Steel tube \varnothing 76 mm

for plugging down, with base plates 100 x 150 mm, hot-dip galvanized, powder-coated yellow, with black warning stripes

For plugging down

Total width	Height above ground	Kg	Part-No.
750 mm	650 mm	17.0 ^B	477.32BG
1000 mm	650 mm	21.0 ^B	477.33BG

Protective railing

Railing system for universal use, e.g. as internal protective railing to separate traffic aisles or protect terminal boxes, distribution panels, machines, etc. Assembly is easy as that: Put the parts together, plug down, that's it!

Protective railing

Steel tube Ø 48 mm

variable connection, for plugging down, base plate 100 x 150 mm, height: 1000 mm, hot-dip galvanized, powder-coated yellow, with black warning stripes



end post
middle post
corner post

Kg	Part-No.
5.0 ^A	448.80PBG
7.0 ^A	448.81PBG
7.0 ^A	448.815PBG

Cross bar

Steel tube Ø 48 mm

hot-dip galvanized, powder-coated yellow, with black warning stripes

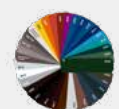


Tube length	Grid site	Kg	Part-No.
500 mm	1000 mm	1.5 ^A	448.42BG
1000 mm	1500 mm	3.0 ^A	448.43BG
1500 mm	2000 mm	4.5 ^B	448.44BG



Also available in hot-dip galvanized and white / red !
See Barrier elements page 123

Other color finishes possible;
see page 7



Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts

Anti-nudge railing as safety railing for work ways in front of machines, robots, racks, etc. The railing system is available for plugging down with base plate, removable and tiltable up to 30°.



Car-park barriers

Protective railing for plugging down

steel tube 70 x 70 mm with top and knee bars of steel tube 60 x 40 mm, height approx. 1000 mm, bolted

Ornamental bollards



Stainless steel

Fixed post for plugging down

Steel tube 70 x 70 mm with base plate 100 x 150 mm

hot-dip galvanized and coated yellow with black stripes
Part-No.

	Kg	Part-No.
end post for top and knee bar	6.5 ^A	4270PBG
middle post for top and knee bar	7.0 ^A	4271PBG
corner post for top and knee bar 90°	7.0 ^A	4273PBG

Barrier elements

Cross bar

steel tube 60 x 40 mm, hot-dip galvanized, coated yellow with black warning stripes, incl. fastening bolts



Tube length	Kg	Part-No.
800 mm	3.0 ^A	4208BG
1300 mm	5.0 ^A	4213BG
1800 mm	7.0 ^B	4218BG
2300 mm	8.5 ^B	4223BG

Barrier gates

Gate element

for laying in fixed post made of steel tube 60 x 40 mm incl. fastening material

Element size	Kg	Part-No.
1300 mm	16.0 ^A	4225BG

Outdoor equipment



The crossbars or the gate elements are simply placed in the brackets of the stationary post and bolted in place. (Suitable as temporary guard without bolts) also available in white / red; see page 122

Work site protection

Protective railing

Protective railing, tiltable, elastic compensates impacts without being torn out of the floor

Protective railing for plugging down

flexible, tiltable, with top and knee bars

Fixed post

steel tube 70 x 70 mm, with base plate 220 x 220 mm, hot-dip galvanized and coated yellow with black stripes, height above ground 1000 mm



4270NPBG

4271NPBG

end post for top and knee bar
middle post for top and knee bar

Kg	Part-No.
9.5 A	4270NPBG
10.0 A	4271NPBG

Protective railing for plugging down removable for temporary opening of access routes

Fixed post

steel tube 70 x 70 mm, base plate for temporary opening 150 x 180 mm, hot-dip galvanized and coated yellow with black stripes height above ground 1000 mm



4270APBG

4271APBG

4273APBG

end post for top and knee bar
middle post for top and knee bar
corner post for top and knee bar 90°

Kg	Part-No.
9.5 A	4270APBG
10.0 A	4271APBG
10.0 A	4273APBG



Cross bar

steel tube 60 x 40 mm, incl. fastening bolts
see page 190

Barrier posts

Car-park barriers

Ornamental bollards

Stainless steel

Barrier elements

Barrier gates

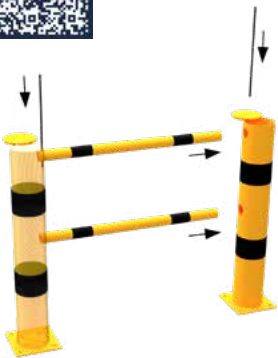
Outdoor equipment

Work site protection



Plug-in railing system to be fixed by plugs

steel tube Ø 152.4 mm with top and knee bars of steel tube Ø 48 mm, height approx. 1000 mm.



hot-dip galvanized and coated yellow with black stripes

end post for top and knee bar
middle post for top and knee bar 180°
corner post for top and knee bar 90°
t-post 3 x 90°

Kg	Part-No.
13.0 A	40158-0BG
13.0 A	40158-180BG
13.0 A	40158-90BG
13.0 A	40158-3X90BG

corner post for top and knee bar 60°

13.0 A	40158-60BG
--------	------------



Cross bar

steel tube Ø 48 mm, hot-dip galvanized, coated yellow with black warning stripes, incl. fastening bolts



Tube length	Kg	Part-No.
400 mm	3.0 A	448.45BG
900 mm	5.0 A	448.46BG
1400 mm	7.0 A	448.47BG

To protect shelves and storage racks. The new crash guard can be tilted 15°. This compensates impacts from fork trucks or other vehicles without damage or being torn out of the floor (up to 400Nm pressure).



Crash guard angle

acc. to BGR234
for individual use
(warehouse equipment,
rack or shelf supports, etc.)



Compensates impacts from fork lift trucks.
Bolts will not tear out of the floor.



Crash guard, flexible

steel plate 5 mm thick, yellow powder-coated with black stripes, for plugging down, height 400 mm leg length 160 mm tilting angle 15°

Kg	Part-No.
6.0 ^A	477.89BG



Crash guard angle

steel plate 5 mm thick, powder-coated yellow with black stripes (loose supply), for plugging down, leg length: 160 mm



height 200 mm
height 400 mm
height 800 mm
height 1200 mm

Kg	Part-No.
3.0 ^A	477.84B
5.5 ^A	477.85B
10.5 ^A	477.86B
15.5 ^A	477.87B



Crash guard angle

With reinforced edges of steel plate 6 mm thick, powder-coated yellow with attached black stripes, for plugging down, leg length 160 mm



height 400 mm
height 800 mm
height 1200 mm

Kg	Part-No.
7.0 ^A	477.90B
14.0 ^A	477.96B
20.5 ^A	477.97B



Crash guard U-shape

with reinforced edges of steel plate 6 mm thick, powder-coated yellow with attached black stripes for plugging down u-section 160 x 160 mm

Kg	Part-No.
10.0 ^A	477.91B



Suitable fastening material for this product:
Set of mounting bolts type 1

Part-No.
470.71

Barrier posts

Secures driveways, halls with a restricted height, underpasses etc.

Car-park barriers

Barrier

of aluminium tube
height: 100 mm, with protective caps,
yellow coated with black stripes,
incl. 2 x 1.00 m steel chain



Ornamental bollards



Stainless steel

	Length	Kg	Part-No.
Marking film one-sided	2000 mm	3.5 ^B	4117.20BG
	3000 mm	5.0 ^C	4117.30BG
	4000 mm	6.0 ^D	4117.40BG
	5000 mm	7.0 ^D	4117.50BG
	6000 mm	8.5 ^D	4117.60BG

Barrier elements

Marking film both-sided	2000 mm	3.5 ^B	4217.20BG
	3000 mm	5.0 ^C	4217.30BG
	4000 mm	6.0 ^D	4217.40BG
	5000 mm	7.0 ^D	4217.50BG
	6000 mm	8.5 ^D	4217.60BG

Barrier gates

Clearly visible crash guard for posts, pillars, poles etc.

Crash guard angle

made of aluminium plate with 4 bores \varnothing 10 mm
for plugging down
height: 1000 mm
angular dimension: 120 mm
yellow/black



Kg
Part-No.

1.3 ^A
4317RBG

1.3 ^A
4317LBG

Outdoor equipment

Work site protection



These products are also available in white/red;
see barrier elements page 120

Safety kerb

Steel angle 100 x 150 x 10 mm,
for plugging down
with 45° miter, yellow powder-
coated, crash guard for fork trucks,
platform floor trucks, etc.



Total width	Height	Kg	Part-No.
400 mm	150 mm	7.0 ^A	477.44BG
800 mm	150 mm	14.0 ^A	477.45BG
1000mm	150 mm	18.0 ^A	477.46BG
1200 mm	150 mm	22.0 ^A	477.47BG
1500 mm	150 mm	28.0 ^B	477.48BG

Safety handles

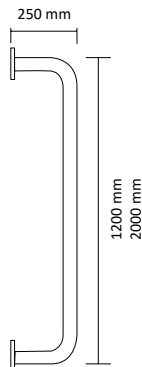
Steel tube Ø 48 mm,
for openings in walls and staircase
areas

U-shape hoop

with fixing plates 100 x 150 mm,
hot-dip galvanized, powder-coated yellow with black warning stripes



Height	Depth	Kg	Part-No.
1200 mm	250 mm	5.5 ^A	477.801BG
2000 mm	250 mm	8.0 ^B	477.802BG



Articles are manufactured by order.

Barrier posts

Secures transportation routes.
Stops and protects.

Car-park barriers

Anti-nudge bar
Round steel tube Ø 76 mm,
for plugging down
with chamfered ends,
base plates 200 x 50 x 10 mm,
powder-coated yellow with black
stripes, stops and protects



Ornamental bollards

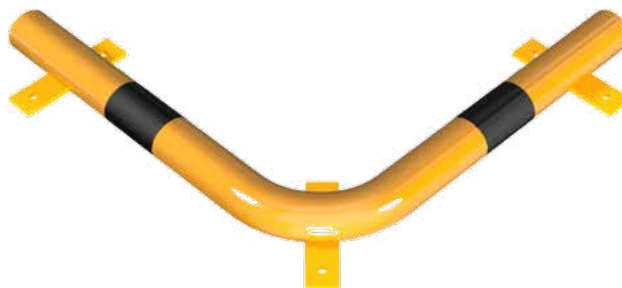


Stainless steel

Total width	Height above ground	Kg	Part-No.
400 mm	86 mm	3.5 ^A	477.40BG
800 mm	86 mm	5.0 ^B	477.41BG
1000 mm	86 mm	6.0 ^B	477.42BG
1200 mm	86 mm	7.0 ^B	477.43BG

Barrier elements

Corner - anti- nudge bar
Round steel tube Ø 76 mm,
for plugging down
base plates 200 x 50 x 10 mm,
powder-coated yellow with
black stripes



Total width	Height above ground	Kg	Part-No.
700 x 700 mm	86 mm	8.5 ^A	477.50BG

Barrier gates

Outdoor equipment

Anti-nudge hoop
Round steel tube Ø 60 mm,
for plugging down
base plates 100 x 150 mm,
powder-coated yellow with black
stripes



Total width	Height above ground	Kg	Part-No.
400 mm	115 mm	3.0 ^A	477.34BG
1000 mm	115 mm	5.0 ^B	477.35BG
1500 mm	115 mm	7.0 ^B	477.36BG
2000 mm	115 mm	9.0 ^B	477.37BG

Work site protection



Warning and protection profiles

Profile body: recycling-grade polyurethane foam, without CFC
 Surface: firmly foamed, PU film dyed by counter pressure, no external paint application
 Adhesive: acrylate adhesive, adhesive force: 21 N/25 mm
 Temperature resistance: from -40°C to +100°C for indoor and outdoor use
 Fire test: DIN 4102 B2

All profiles delivered with strong adhesive tape (except type B).

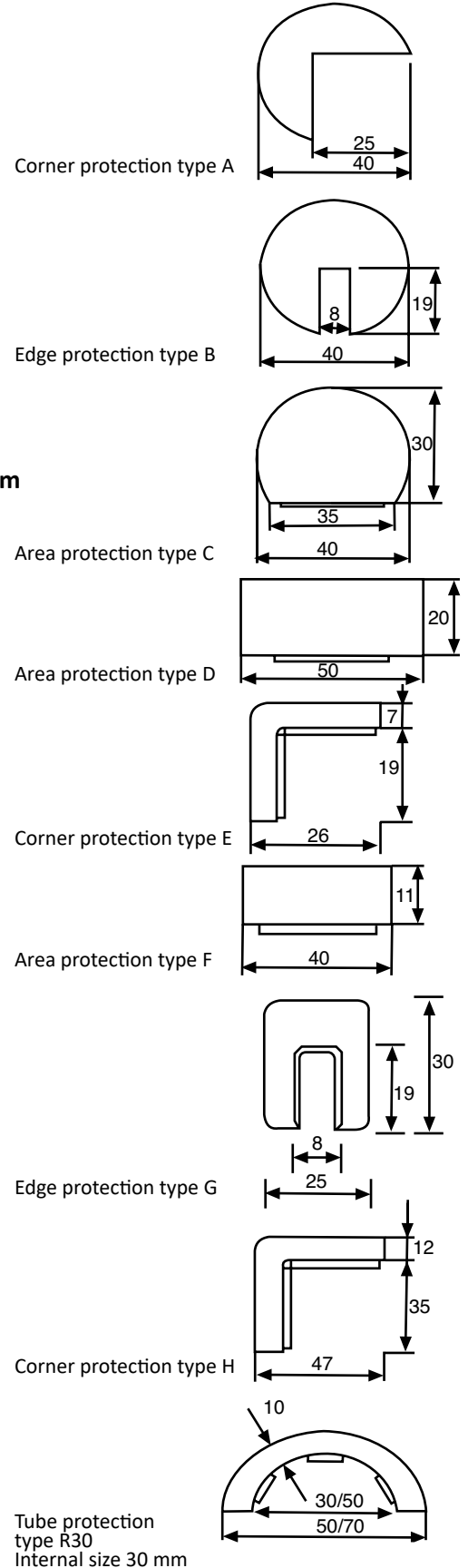
The flexible warning and protection profiles have a yellow / black warning pattern to warn of dangers at edges, projections and obstacles. At the same time they absorb impacts and thereby avoid injury and prevent damage due to run-up.

Warning and protection profiles yellow / black – 1000 mm / 5000 mm

Article	Part-No. 1000 mm	Part-No. 5000 mm
Typ A	4110 ^A	4510 ^A
Typ B	4111 ^A	4511 ^A
Typ C	4112 ^A	4512 ^A
Typ D	4113 ^A	4513 ^A
Typ E	4115 ^A	4515 ^A
Typ F	4116 ^A	4516 ^A
Typ G	4119 ^A	4519 ^A
Typ H	4120 ^A	4520 ^A
Typ R30	4117 ^A	
Typ R50	4114 ^A	

Corner protections for black warning and protection profiles

Article	Part-No.
Type A 2-dimensional	410810 ^A
Type A 3-dimensional	410811 ^A
Type E 2-dimensional	410812 ^A
Type E 3-dimensional	410813 ^A



To achieve maximum success in marketing, a good presentation of the product is crucial. In addition to our capabilities in data preparation and provision for your online or catalog presentation, we are happy to support you in using your sales areas in the best possible way for the presentation of our products.

In addition to a selection of sample posts and presentation sets, which we can use to showcase our products, we are happy to exchange ideas for the individual design of your sales areas and to support you. Please feel free to challenge us with your creative requirements!



Sample post type 4706

consisting of:

1. **barrier post of steel tube \varnothing 76 mm**
type 476PBG, stationary for plugging down
2. **barrier post of steel tube 70 x 70 mm**
type 470UZB, foldable, with Euro profile cylinder
3. **barrier post of steel tube 70 x 70 mm**
type 470FUB, foldable, with triangular lock
4. **Ornamental bollard with hemispherical head**
type 482PB, stationary, for plugging down
5. **Ornamental bollard with flat head \varnothing 76 mm**
type 4071PB, stationary, for plugging down
6. **Car-park barrier**
type 4709UZB, foldable, with Euro profile cylinder lock to be fixed by plugs

Selling box 4707

consisting of:

- 3x **barrier posts of steel tube 70 x 70 mm**
type 470FB, removable, with triangular lock
- 1x **barrier post of steel tube 70 x 70 mm**
type 470FUHB, foldable, with triangular lock
- 1x **barrier post of steel tube 70 x 70 mm**
type 470UZHB, foldable, with Euro profile cylinder
- 1 x **barrier post of steel tube 70x 70 mm**
type 470B, stationary, for casting in concrete
- 3 x **barrier posts of steel tube \varnothing 60 mm**
type 460B, stationary, for casting in concrete
- 3x **barrier posts of steel tube \varnothing 60 mm**
type 460B/2, stationary, for casting in concrete, 2 eyelets
- 1 x **car-park barrier**
type 40771, foldable, with round cylinder





First aid kit

consisting of:

- 15 x traffic cones, height 320 mm
- 20 x traffic cones, height 500mm
- 4 x traffic cone adapter for all Schake traffic cones
- 4 x signallight for traffic panels PowerNox, light exists on one side, yellow
- 4 x barrier strap with traffic cone adapter for all traffic cone types
- 24 x block battery 6V / 7AH 4R25
- 20 x barrier tape holder
- 50 x twin pole, diameter 16 mm, length: 1000 mm
- 4 x barrier tape, panted on both sides, in red / white bocks, 500 m reel in special carton
- 4 x euro pallets
- 1 x Schake „EHK“ pallets cover



Formwork-/ Trench shoring kit

consisting of:

- 2 x heads for formwork props, with corner angles
- 1 x head for formwork props, reinforced version, tube \varnothing 39 mm
- 1 x head for formwork props, with tube \varnothing 26,9 mm
- 1 x formwork beam of wood Schake type H20
- 1 x formwork prop hot-dip galvanized, with outer thread 1,70 m - 3,00 m
- 1 x formwork prop, painted, with inner thread 1,87 m - 3,00 m
- 1 x formwork prop hot-dip galvanized with outer thread 1,70 m - 3,00 m
- 1 x formwork prop painted, with outer thread
- 1 x tripod stand galvanized with square tube
- 1 x aluminium trench bridge, length: 1,70 m, width: 1,00 m
- 1 x trench shoring perfect 32 mm size 4
- 1 x trench shoring perfect 60 mm size 2
- 1 x trench shoring perfect 48 mm size 3
- 8 x wing nut, 3 arms
- 2 x threaded rod \varnothing 15 mm, outside dimension \varnothing 17 mm
core domension 15 mm x 1900 mm

At the point of sale you have the possibility to adress to your customer in a very comprehensive way, take this opportunity with a good product presentation, always keeping the following POS benefits in mind:

- **Feel, not only inform**

Your customers can touch the product and get a real impression of quality, size ratios and material properties. An impression that no digital presentation can provide in equal way

- **Experience and remember**

Through direct, tangible contact with the product, the customer associates a real experience with the product and also stores it emotionally. You remain in your customer's memory for a long time.

- **Stand out and be seen**

By showing the product physically, you make it stand out from the crowd and draw the customer's attention to it. The customer's attention is drawn exactly to what you want to show

- **Feel good and come back**

Good product presentations with real products create a special atmosphere in your sales area. Make sure that your customer feels comfortable, enjoys the time he spend looking at your products and gladly comes back.

Aluminium barrier	134	Crash barrier	67
Aluminium bollard	85, 126	Crash protection bar corten steel	102
Aluminium corner/knee/cross piece	126	Crash protection bars rectangular tube	156-157
Aluminium style post	86-87	Crash protection bollard 70 x 70 mm / 100 x 100 mm	32-43
Ashtray	165	Crash protection steel Ø 48- 76 mm	104-113, 182-188
Barrier	132-139	Crossbar	122-123, 189-192
Barrier chain post	45, 181	Dowel set	49, 136-139, 169-171
Barrier chains	50-51, 180	Drive-through barrier	116-120, 132-139
Barrier corten steel	102	Dry frame	163
Barrier flat steel	158-160	E-bike leaning bracket	150-151
Barrier gate	111-115, 124-130, 133-136, 139-140, 184-187, 196	Edge protection	193, 194, 120, 195, 197
Barrier post Ø 42-89 mm	11-21, 169-171	Elastic tubular steel bollard	173
Barrier posts 70 x 70 mm / 100 x 100 mm	32-43	Eyelet for barrier post	47
Barrier posts made of plastic	45-47, 181	Fastening material	49, 136-138, 168-171
Barrier posts made of steel tube 70 x 70 mm	32-42	Fastening set	136-139, 168-171
Barrier posts made of steel tube Ø 102- 108 mm	22-23	Fence	124-129
Barrier posts made of steel tube Ø 42- 89 mm	11-21, 169-171	Fire brigade delineator posts	16
Barrier posts made of tubular steel 100 x 100 mm	43	Fire brigade posts	32-42
Barrier posts Ø 102-323 mm	22-23, 172-177	Fixed road barrier	114-115
Barrier protection	87, 126-129	Fixing material	49, 136-139, 168-169, 170-171
Barrier railings	189-192	Flat steel bracket	158-160
Barrier stainless steel	98-100	Flat steel impact protection bar	158-160
Barrier steel Ø 48- 76 mm	104-113, 182-188	Flat steel lean-to	158-160
Barrier steel Ø 48- 76 mm	104-113, 182-188	Flexipost	46-48
Barrier with support	136	Flower box	166
Bicycle / scooter stands	152	Foil for barrier posts	6
Bicycle lean-to- row systems	144-149	Fully retractable post	97
Bicycle lean-to bars- single parking	143	Galvanised sleeve	20, 44, 55, 136, 138
Bicycle lean-to, steel tube Ø 48 mm	154	Gate barrier	132
Bicycle lean-to, steel tube Ø 60 x 2.5 mm	155	Grey key	38, 55-56
Blind plug	55	Grille	124, 126-129,
Bollard 70 x 70 / 100 x 100 mm	32-43	Ground socket for posts	20, 44, 52, 55, 136, 138, 161
Bollard chain	50-51, 180	Hand barrier	114, 132, 138-140
Bollard luminaires	162	Hand barrier with gas pressure spring and pendulum support	114, 139
Bollard made of recycled plastic	68	Hand barrier with gas pressure spring and support	138
Bollard Ø 102- 323 mm	22-23, 172-177	Handrail	87, 122-123, 130, 189-192
Bollard Ø 102- 323 mm	22-23, 172-177	Height limiter	116-121, 194
Bollard Ø 42- 89 mm	11-21, 169-171	Hinge for style guardrail	87
Bollard Ø 42- 89 mm	11-21, 169-171	Impact protection	120, 194, 197
Bollard with drive-over protection	48	Insertable container	164
Bollards Ø 102- 323 mm	22-23, 172-177	Key	55
Bracket for information sign	119	KICKBACK Bollard	48
Bracket for parking sign	66	Knee bollard	87
Car park marking	66-67	Laundry drying rack	163
Chain links	50-51, 180	Leaning and barrier bars	148-151, 160
Chain stand	45, 181	Litter bin	164-165
Cigarette cup	165	Locking bar made of flat steel	158-160
City fence	127-129	Locking bar stainless steel	98-100
Cleaning and maintenance spray	93	Marker post	46-47
Clothes drying rack	163	Mobile hand barrier	121
Column protection	193	Parking and guide threshold	67
Connecting elements	50-51, 180	Parking post	61
Cord reinforcement	136-139	Parking sign posts	66-67
Corner protection profile	120, 193-197	Parking signage	66-67
Corten steel bicycle racks	102	Parking space bar	58-63
Corten steel bollard	101	Parking space barrier	56-63, 65-67
Corten steel bracket	102	Parking space marking	66-67
Corten steel guide rail	102	Parking threshold	67
Corten steel lean-to bracket	102	Passage and parking barrier	58-59
Corten steel locking bar	102	Path barrier	112-115
Cover cap	43, 52-53, 161, 170	Path barrier with counterweight and swing support	137

Pedestal ashtrays	165	Speed bump	67, 179
Pedestal post	124-127, 190	Square post	56, 165
Pipe bracket rectangular pipe	156-157	Square post 100 x 100 mm	43
Pipe clamp square tube	156-157	Square post 70 x 70 mm	32-42
Pivoting road barrier	113	Square tube bracket	157
Planter	166	Stainless steel bicycle leaning bar	100
Plastic bollard	46-47	Stainless steel bollard	98-100
Plastic bollard set	45, 181	Stainless steel bollard Ø 154 mm / Ø 204 mm	96
Plastic chain	50-51, 180	Stainless steel bracket	98-100
Plastic chain post	45, 181	Stainless steel care spray	93
Plastic hook link	51, 180	Stainless steel guardrail	98-100
Plastic post	45-48, 181	Stainless steel impact protection	98-100
Plug-in triangular key	56, 165	Stainless steel lean-to	98-100
Post chain	50-51, 180	Stainless steel post 70 x 70 mm	92
Post Ø 102- 323 mm	22-23, 172-177	Stainless steel posts Ø 60- 102 mm	93-95
Post Ø 42- 89 mm	11-21, 169-171	Stainless steel rail	98-100
Post support	20, 40, 52, 55, 136, 138	Stainless steel tube bollard Ø 48 mm	100
Posts 70 x 70 / 100 x 100 mm	32-43	Standard triangular key	56
Profile cylinder lock	136-139	Steel bollard 70 x 70 mm / 100 x 100 mm	32-43
Protection guard rectangular tube	156-157	Steel bollard Ø 102- 323 mm	22-23, 172-177
Protection guard steel Ø 48- 76 mm	104-113, 182-188	Steel bollard Ø 42- 89 mm	11-21, 169-171
Protective bollard 70 x 70 mm / 100 x 100 mm	32-43	Steel bracket Ø 48-76 mm	104-113, 182-188
Protective bollards Ø 42- 89 mm	11-21, 169-171	Steel bumpers Ø 48- 76 mm	104-113, 108-110, 182-188
Protective corners	197	Steel chain	50, 180
Protective fence lattice	124-126	Steel flat shackle	158-159
Protective hoop corten steel	102	Steel hoops made of flat steel	158-160
Protective hoop made of flat steel	158-160	Steel hoops Ø 48- 76 mm	104-113, 182-188
Protective profiles	120, 194, 197	Steel lean-to bracket Ø 48- 76 mm	104-113, 108-110, 182-188
Push-in railing system	192	Steel shackle rectangular tube	156-157
Railing	130	Sticker	147, 165
Rectangular tube bollard	156-157	Sticker „Clean man“	147,165
Rectangular tube bracket	156-157	Style bollard 70 x 70- 100 x 100 mm made of tubular steel	89
Rectangular tube stirrup	156-157	Style bollard made of corten steel tube	101
Rectangular tubular steel	156-157	Style bollard made of steel tube Ø 82- 193 mm	77-84
Rectangular waste bin	165	Tension reinforcement	136-139
Recycling post	68	Threshold	193, 195
Road barrier with counterweight and support post	136	Traffic guidance system	132
Rope reinforcement	136-139	Traffic protection system	127-129
Rotating gate barrier	132	Tree and pillar protection	109-110, 188
Round ashtray	165	Tree protection bracket	109-110, 188
Round steel bracket Ø 48- 76 mm	104-113, 182-188	Triangular key	38, 55, 41, 56, 63, 165
Round steel pipe hangers Ø 48 X 2.5 mm	66, 108	Tubular steel bracket Ø 48- 76 mm	104-113, 182-188
Row parking bollards	144-148	Turnable roadblock	112, 125, 133, 140
Row system	144-148	Universal bollard	109-111
Rubbish bin	164-165	Universal spanner	41, 55-56, 63, 165
Safety handles	195	Warning and protection profiles	120, 194, 197
Safety tension spanner	41, 56, 63, 165	Waste bin	164-165
Scooter parker	142	Wheel stand	148-151, 160
Scraping board	195	Wheel stop	67
Screw set	49, 136-139, 168-171	Wire tension reinforcement	136-139
Self-righting post	46-47		
Shackle	50, 180		
S-hook	50, 180		
Shut-off bar rectangular tube	156-157		
Shut-off barrier	132-140		
Signage for parking spaces	66		
Signpost impact bar	66-67		
Single parking bollard	143		
Sleeve	20, 44, 52, 55, 136, 138		
Snap hook	50		
Socket spanner	38, 55-56, 165		

Product liability:

Liability in accordance with the Product Liability Act does not apply if non-use of original parts. All products are supplied without decoration. Slight color deviations in printing due to the material properties of the single product are possible.

The products shown are reference samples.



Your requirements in daily business

You got a new idea and need some help?

You already have a final conception and you are looking for support?



We design the optimal product solution for you



We manufacture for you in our high-duty machine park



An overview of product solutions which we manufacture individually for you

Bicycle leaning post

as advertising medium according to your specifications individually designed and produced



Bollard

with predetermined breaking point



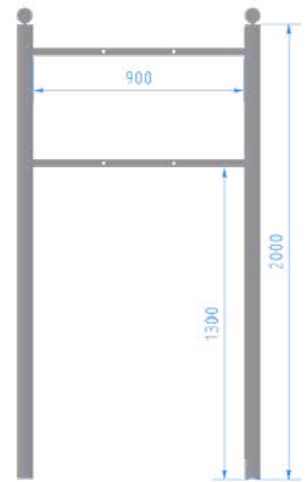
Ornamental bollards

in your own design



Sign frame

for industry or communs tailored to your requirements



We will support you from the first idea to the finished product



General terms of delivery of Schake GmbH

1. Scope of validity

- (1) These terms of delivery apply exclusively to contractors, legal entities under public law or separate estates under public law (hereinafter: contractual partner).
- (2) Contractor is an individual or legal entity or a partnership with legal capacity which is acting in its commercial or self-employed professional capacity at the time of concluding a legal transaction.
- (3) The inclusion of business or purchasing terms of the contractual partner is herewith declared void. Their inclusion always requires an express agreement.

2. Applicable law

Contractual relationships in which these terms of delivery have been incorporated are based exclusively on German law, including international and European law that has been ratified in Germany or is directly applicable, however with the exclusion of the UN Sales Convention (CISG).

3. Offer and conclusion of contract

- (1) Drawings, illustrations, dimensions, weights, or other performance data sent to us by the contractual partner are only binding if this has been expressly agreed.
- (2) In case of doubt, the contract shall be deemed concluded with the content of our order confirmation.
- (3) All contents of the contract require an express agreement. Our silence in response to a commercial letter of confirmation from the contractual partner neither concludes in a contract, nor does a contract that has been concluded be hereby modified.

4. Notice of defects

Notices of defects within the meaning of Section 377 of the German Commercial Code (HGB) are only considerable if they are made in text form and the defects are described in such concrete terms that their relevance can be assessed.

5. Self-supply reservation

Our delivery obligations are subject to the correct and timely self-supply, unless we are responsible for the incorrect or delayed self-supply.

6. Prices, payment, set-off, right of retention

- (1) Our prices are ex works plus freight and the applicable sales tax.
- (2) Our invoices are due for payment within eight days of receipt and without deduction.
- (3) The contractual partner can only set-off against our claims with claims that are undisputed or have been legally established or are ready for judgement in a legal dispute. The contractual partner is entitled to exercise a right of retention only if his counter-claim stems from the same contractual relationship.

7. Transfer of risk upon dispatch

If the goods are dispatched to the contractual partner or to a third party at the request of the contractual partner, the risk of accidental loss or accidental deterioration of the goods is transferred to the contractual partner once the goods leave the factory/warehouse. This applies regardless of who bears the freight costs.

8. Reservation of property rights

- (1) The delivered goods remain our property until the final payment of all claims arising based on the business relationship. In the case of several claims or a running account, the reservation of property rights serves as a security for the balance claim.
- (2) The contractual partner is entitled to process and sell the reserved goods in the ordinary course of business if he is not in default. The contractual partner hereby assigns to us by way of security the claims arising from the resale or any other legal reason (insurance, tort) regarding the reserved goods up to the amount of a balance existing in our favour. We revocably authorise the contractual partner to debit the claims assigned to us to his account in his own name. The direct debit authorisation expires if the contractual partner does not properly comply with his payment obligations or if insolvency proceedings are opened against his assets or if the opening of insolvency proceedings is rejected due to insufficient assets.

9. Limitation of claims for defects

The limitation period for claims for defects is one year from the transfer of risk. This does not apply insofar as the law stipulates a mandatory indispensability or if a shortening of the limitation periods cannot effectively take place as per the jurisdiction in the general terms and conditions. In particular, this does not apply so far longer deadlines are regulated for claims according to Section 438 Paragraph 1 No. 2 (constructions and things for constructions), 478, 479 (supplier recourse) and 634 a Paragraph 1 No. 2 of German Civil Code (BGB) (construction defects) as well as in cases of loss of life, bodily injury or damage to health, in the event of an intentional or grossly negligent breach of duty by us and in the case of fraudulent concealment of a defect as well as claims under the Product Liability Act.

10. Liability

For an injury to life or health, intentional and grossly negligent actions as well as claims under the Product Liability Act, we are always fully liable in accordance with the statutory provisions. If an essential contractual obligation is breached by slight negligence, our liability for financial damages that is not based on injury to life or health is limited to the foreseeable damages typical for the contract. Contractual obligations are regarded to be of fundamental importance, the fulfilment of which makes the proper execution of the contract possible in the first place and on the compliance of which the contractual partner has relied and was entitled to rely.

11. Place of jurisdiction

- (1) If the contractual partner is a businessman within the meaning of the German Commercial Code (HGB), a legal entity under public law or separate estate under public law, Hagen in North Rhine-Westphalia is the place of jurisdiction for all disputes arising from the contractual relationship in which these terms of delivery were included; additionally existing legal places of jurisdiction are not affected by this.
- (2) The provision of Paragraph 1 does not apply to claims that are assigned to the district courts regardless of the amount in dispute; it also does not apply if the law establishes another exclusive place of jurisdiction.