

Urban Equipment

• stop • save • secure

Version X

Schacke

URBAN EQUIPMENT • BUILDING EQUIPMENT



The company Schake

The company, founded in 1908 as a blacksmith's and wagonmaker's shop, was built up by Johann Schake in the early years. The focus was placed on technical advancement in the craft and flexibility in the execution. A short time later, his son Alfred followed in his father's footsteps as an apprentice at the age of 15. Alfred Schake died at the age of 54, so that his three sons, Karl Alfred, Hans Dieter and Jürgen Schake, took over the management of the company. In the spirit of tradition and progress, the handicraft business was restructured to a manufacturing company. Since 2007 the 4th generation is leading the company in the sense of progressive and modern development.

Today, the company stands for quality and customer orientation. The brand - Schake - has integrated itself in Europe and continues to stand for growth with - Made in Germany. With modern production facilities, the core competence is further expanded so that the qualities and capacities can be determined to a large extent by the company itself. The product management enables us in cooperation with our customers a contemporary and fast result. We as a producer live our workpieces and also focus on individual products. Not only the technology alone makes the finished assortments, but the employees with their competences in the respective areas are available to our partners with responsibility and commitment.

The professional know-how of our staff enables us to develop and produce products for municipal demand and temporary applications on sites. Our products aim to assure safety for road users and adapt to the continuously increasing requirements of the market.

Long-time cooperations which originate from a personal level are the main reason for SCHAKE to keep putting our customers in the first place. This is notably shown by the customer satisfaction often connected to the company for decades.

For the future we will maintain our innovative cooperation with our partners as a reliable and essential supplier.

We hope you are having success with selecting from our products!



Gerald Schake



Ralf Schake



Patrick Schake



Marc Schake



Barrier posts



Stainless steel



Barrier elements



Barrier gates



Outdoor equipment



Work site protection



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Product liability:

We are under no product liability according to the Product Liability Act unless original parts are used. All articles will be shipped without decoration. Minor color deviations from those shown in the catalogue are possible due to the properties of materials. All articles illustrated are reference articles of the manufacturer

General terms and conditions
see www.schake.com



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Barrier posts

Stainless steel

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Barrier elements

Barrier gates

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Barrier gates

Outdoor equipment

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Work site protection



Barrier posts



Stainless steel



Barrier elements

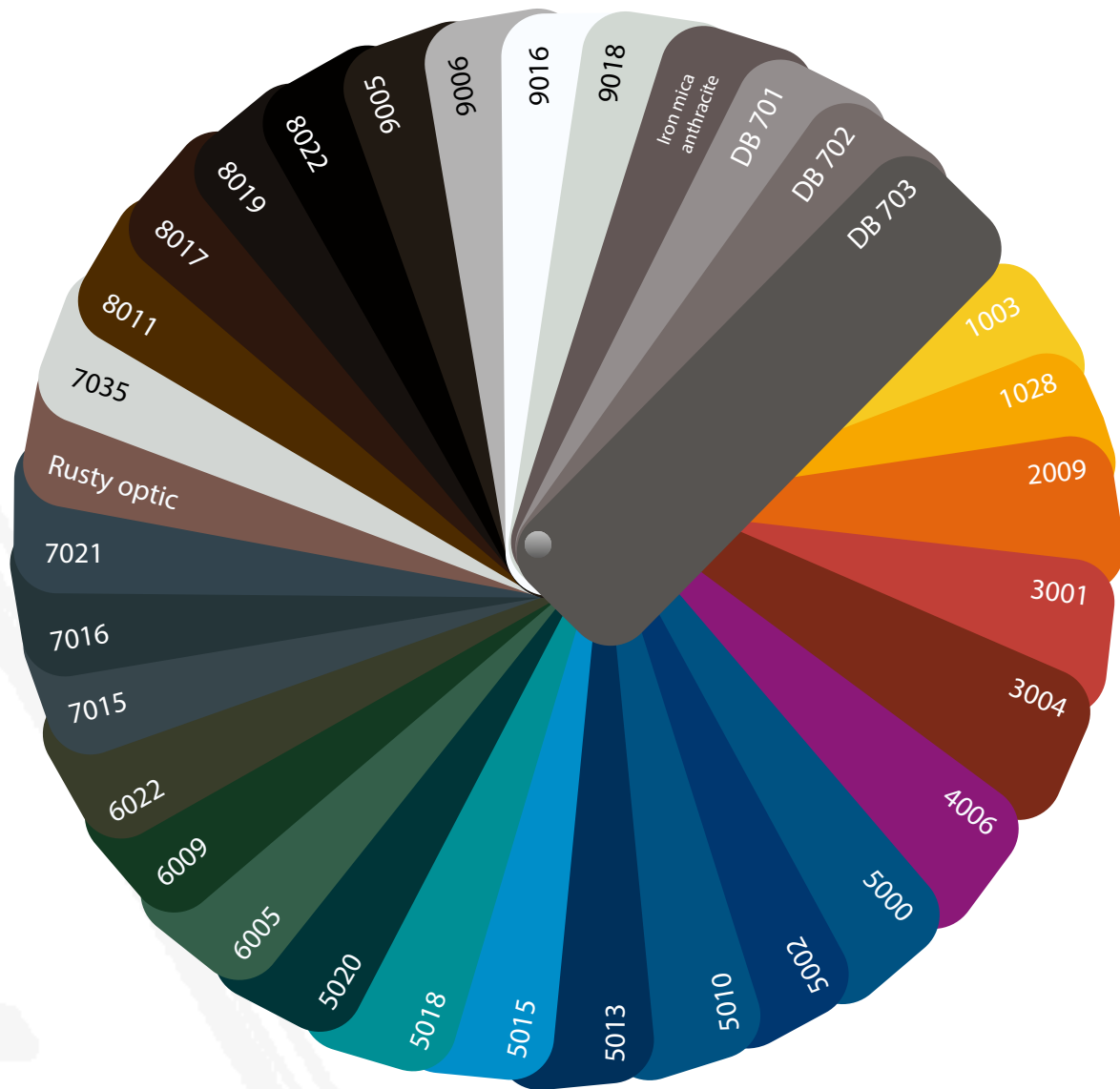
Plastic films for posts, hoops, etc.

Barrier gates

Outdoor equipment

Work site protection

	Part-No.
Till tube Ø 60 mm	
plastic film, reflecting red 100 x 200 mm	430.19
plastic film, black 100 x 200 mm	430.191
plastic film, yellow 100 x 200 mm	430.191G
plastic film, reflecting white 100 x 200 mm	430.191W
Till tube Ø 89 mm / square tube 70 x 70 mm	
plastic film, reflecting red 110 x 285 mm	430.18
plastic film, black 110 x 285 mm	430.181
plastic film, yellow 110 x 285 mm	430.181G
plastic film, reflecting white 110 x 285 mm	430.181W
Till tube Ø 102 mm	
plastic film, reflecting red 110 x 330 mm	430.182R
plastic film, black 110 x 330 mm	430.182S
Till tube Ø 108 mm	
plastic film, reflecting red 110 x 350 mm	430.183R
plastic film, black 110 x 350 mm	430.183S
Till tube Ø 152 mm / square tube 100 x 100 mm	
plastic film, reflecting red 110 x 500 mm	430.184R
plastic film, black 110 x 500 mm	430.184S
Till tube Ø 193 mm	
plastic film, reflecting red 110 x 620 mm	430.186R
plastic film, black 110 x 620 mm	430.186S
plastic film, yellow 110 x 620 mm	430.186G
Till tube Ø 275 mm	
plastic film, reflecting red 110 x 890 mm	430.187R
plastic film, black 110 x 890 mm	430.187S



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.



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.

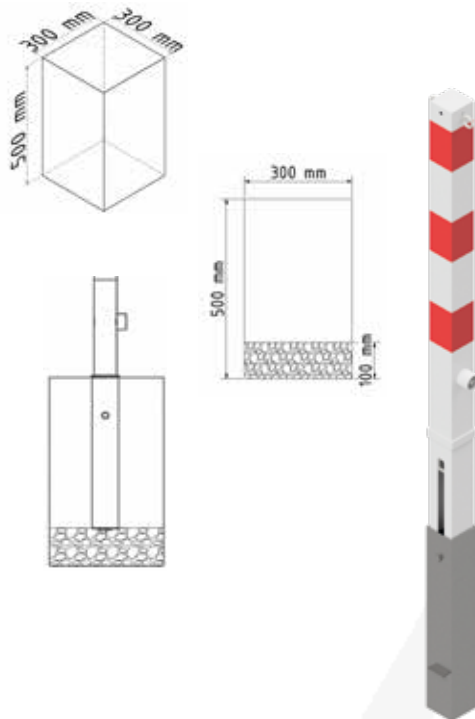
Post and socket are put central in basis hole top edge ground socket same as top edge ground

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

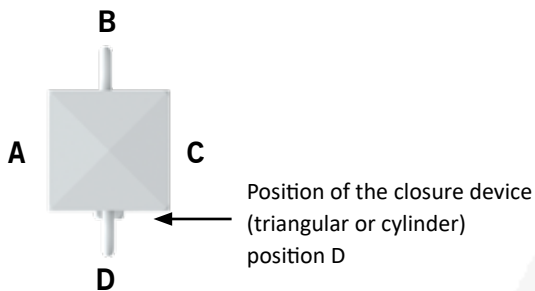
Standard positions:

barrier post with 1 eyelet: position D

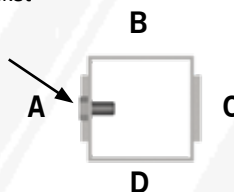
barrier post with 2 eyelets: position D + B



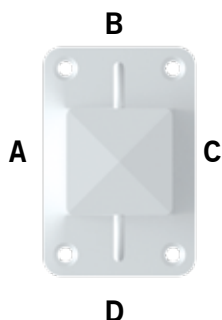
Posts removable



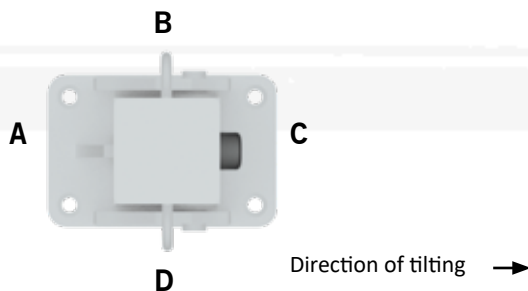
Adjustment of post in ground socket position A



Stationary posts with base plate



Posts foldable



1. Barrier Posts



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Barrier post quick search

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	70x70	100x100	
Stationary for casting in concrete	catalogue page	11	12	17	21	22	23	24	26	28	30	41	
Stationary for plugging down		11	12	17	21	22	23	24	26	28	30	41	
Removable with triangular locking mechanism			13	18	21	22	23	25	26	28	30	41	
Removable with Euro profile cylinder lock			13	18	21	22	23	25			33		
Foldable with triangular locking system			14	19							32		
Foldable with Euro profile cylinder lock			14	19							33		
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											34		
Foldable with top inside triangular locking mechanism											34		
Foldable with lifting and tilting mechanism											37		
Foldable 500 mm above ground											40		
Foldable for padlock				15							36		
Foldable and removable											36		
Removable with 8 mm triangular lock											39		
With triangular lock and Euro profile cylinder											35		
Fully retractable										38			

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



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



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

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



Stationary, for casting in concrete
 total length: 1300 mm

hot-dip galvanized

	Approx.kg	Part-No.
without eyelet	2.3	4042
with 1 eyelet	2.3	4042/1
with 2 eyelets	2.3	4042/2

hot-dip galvanized and white coated
 with red reflecting stripe

without eyelet	2.3	4042B
with 1 eyelet	2.3	4042B/1
with 2 eyelets	2.3	4042B/2

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	4042P
with 1 eyelet	2.8	4042P/1
with 2 eyelets	2.8	4042P/2

hot-dip galvanized and white coated
 with red reflecting stripe

without eyelet	2.8	4042PB
with 1 eyelet	2.8	4042PB/1
with 2 eyelets	2.8	4042PB/2

4042PB/2



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

hot-dip galvanized

without eyelet	2.2	4042E
with 1 eyelet	2.2	4042E/1
with 2 eyelets	2.2	4042E/2

hot-dip galvanized and white coated
 with red reflecting stripe

without eyelet	2.2	4042EB
with 1 eyelet	2.2	4042EB/1
with 2 eyelets	2.2	4042EB/2

4042EB/2



Barrier post of steel tube \varnothing 60 mm

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



Barrier posts

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



460B/2

Stationary, for casting in concrete

with ground anchor
total length: 1300 mm

hot-dip galvanized

	Approx.kg	Part-No.
without eyelet	4.9	460
with 1 eyelet	4.9	460/1
with 2 eyelets	4.9	460/2

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

without eyelet	4.9	460B
with 1 eyelet	4.9	460B/1
with 2 eyelets	4.9	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	460P
with 1 eyelet	4.0	460P/1
with 2 eyelets	4.0	460P/2

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

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



Also available in yellow/black, see work site protection pages 160 ff.

Other color finishes possible; see page 7



The stable locking and the easy handling grant a quick opened blockade

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

	Approx.kg	Part-No.
hot-dip galvanized	without eyelet	6.4 460F
	with 1 eyelet	6.4 460F/1
	with 2 eyelets	6.4 460F/2
hot-dip galvanized and white coated with three red reflecting stripes	without eyelet	6.4 460FB
	with 1 eyelet	6.4 460FB/1
	with 2 eyelets	6.4 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	460Z
hot-dip galvanized and white coated with three red reflecting stripes	8.1	460ZB



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



Accessories see pages 49-56





Barrier post of steel tube Ø 60 mm

Barrier posts

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

5.6 460FU

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

5.6 460FUB

For casting in concrete

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

hot-dip galvanized

7.9 460FUH

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

7.9 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 460UZ

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

5.8 460UZB

For casting in concrete

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

hot-dip galvanized

8.1 460UZH

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

8.1 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

Removable, for padlock

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

hot-dip galvanized

	Approx.kg	Part-No.
without eyelet	7.0	460V
with 1 eyelet	7.0	460V/1
with 2 eyelets	7.0	460V/2

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

without eyelet	7.0	460VB
with 1 eyelet	7.0	460VB/1
with 2 eyelets	7.0	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 460UV

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

6.5 460UVB

For casting in concrete

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

hot-dip galvanized

8.7 460UVH

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

8.7 460UVHB



460UVB

470.60



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

Part-No.
470.71

Further accessories pages 49-56





Barrier posts

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



460HB



4061B

Removable, without locking mechanism

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

hot-dip galvanized

	Approx.kg	Part-No.
without eyelet	6.8	460H
with 1 eyelet	6.8	460H/1
with 2 eyelets	6.8	460H/2

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

without eyelet	6.8	460HB
with 1 eyelet	6.8	460HB/1
with 2 eyelets	6.8	460HB/2

Fire brigade guide posts

steel tube Ø 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	4061B
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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

	Approx.kg	Part-No.
without eyelet	7.0	476
with 1 eyelet	7.0	476/1
with 2 eyelets	7.0	476/2

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

without eyelet	7.0	476B
with 1 eyelet	7.0	476B/1
with 2 eyelets	7.0	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	476P
with 1 eyelet	5.1	476P/1
with 2 eyelets	5.1	476P/2

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

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



Also available in yellow/black, see work site protection page 160

Other color finishes possible;
see page 7





Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts

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



476FB



476ZB

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

12.0

476F

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

12.0

476FB

Approx.kg

Part-No.

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

476Z

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

12.0

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 6.8 476FU

hot-dip galvanized and white coated
with three red reflecting stripes 6.8 476FUB

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

hot-dip galvanized 9.2 476FUH

hot-dip galvanized and white coated
with three red reflecting stripes 9.2 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 476UZ

hot-dip galvanized and white coated
with three red reflecting stripes 8.6 476UZB

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

hot-dip galvanized 10.9 476UZH

hot-dip galvanized and white coated
with three red reflecting stripes 10.9 476UZHB

Approx.kg Part-No.

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier post of steel tube \varnothing 76 mm

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts

steel tube \varnothing 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

Approx.kg

Part-No.

5.9

4076P

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

5.9

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

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

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

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

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

with profile cylinder lock, three keys incl.

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

Approx.kg Part-No.

8.8 489

8.8 489B

6.7 489P

6.7 489PB

12.5 489F

12.5 489FB

11.8 489Z

11.8 489ZB



Also available in yellow/black, see work site protection pages 161 ff.

Other color finishes possible;
see page 7





Barrier post of steel tube \varnothing 102 mm

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts

steel tube \varnothing 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

9.5

491

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

9.5

491B

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

hot-dip galvanized

9.4

491P

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

9.4

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

491F

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

14.9

491FB

with profile cylinder lock, three keys incl.

hot-dip galvanized

12.8

491Z

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

12.8

491ZB



Barrier posts also available with eyelets; see page 56



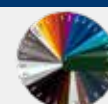
Barrier posts
steel tube \varnothing 108 x 2.9 mm
with welded steel cap
900 mm above ground



	Approx.kg	Part-No.
Stationary, for casting in concrete with ground anchor total length: approx. 1300 mm		
hot-dip galvanized	11.0	493
hot-dip galvanized and white coated with three red reflecting stripes	11.0	493B
Stationary, to be fixed by plugs with base plate 200 x 200 mm		
hot-dip galvanized	11.0	493P
hot-dip galvanized and white coated with three red reflecting stripes	11.0	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	493F
hot-dip galvanized and white coated with three red reflecting stripes	14.0	493FB
with profile cylinder lock, three keys incl.		
hot-dip galvanized	13.2	493Z
hot-dip galvanized and white coated with three red reflecting stripes	13.2	493ZB



Other color finishes possible; see page 7





Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



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	Approx.kg	13.3	16.5	21.9
	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	Approx.kg	13.9
	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 bollard \varnothing 193 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.



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



40191B



40193B

Steel tube bollards \varnothing 193 x 3.6 mm with welded steel cap

Stationary, for casting in concrete

	Total length in mm	1200	1500	2000
hot-dip galvanized	Approx.kg	20.9	26.0	34.4
	Part-No.	40190	40191	40192
hot-dip galvanized and white coated with three red reflecting stripes	Part-No.	40190B	40191B	40192B

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.

Steel tube bollards \varnothing 193 x 3.6 mm with welded steel cap

For plugging down, with base plate 360 x 360 mm

	Total length in mm	1000
hot-dip galvanized	Approx.kg	23.6
	Part-No.	40193
hot-dip galvanized and white coated with three red reflecting stripes	Part-No.	40193B



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



Barrier posts

Stainless steel



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**

Approx.kg 38.0 50.0
Part-No. 40191H 40192H

Part-No. 40191HB 40192HB

Barrier elements

Barrier gates



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

Approx.kg 27.6
Part-No. 40191F

Part-No. 40191FB

Outdoor equipment

Work site protection



Also available in yellow/black, see work site protection page 166

Other color finishes possible;
see page 7





Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



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
Approx.kg	51.1	67.6
Part-No.	40271	40272

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

Part-No.	40271B	40272B
-----------------	--------	--------

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

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

hot-dip galvanized

Total length in mm	1500
Approx.kg	58.9
Part-No.	40273

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

Part-No.	40273B
-----------------	--------



40273B



Suitable fastening material for this product:

Set of mounting bolts type 2

Part-No.

470.72

Further accessories see page 49

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
Approx.kg	20.9	26.0	34.4
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 169

Other color finishes possible;
see page 7





Barrier posts

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
Approx.kg	30.0	35.3
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

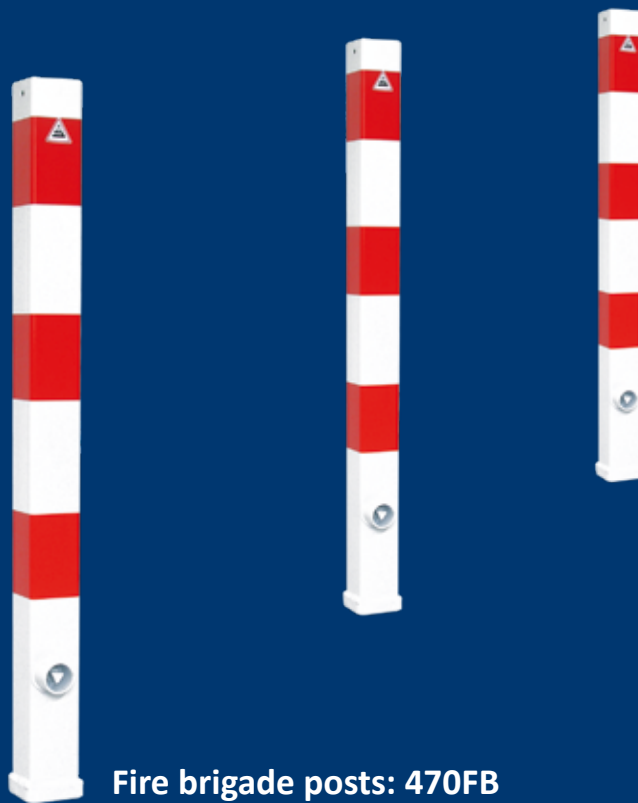


These posts are available in yellow/black, see section work site protection page 170

Other color finishes possible; see page 7



Barrier posts 70 x 70 mm



Fire brigade posts: 470FB



www.schake.com



Barrier post of steel tube 70 x 70 mm

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



Barrier posts

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



470B

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

hot-dip galvanized

	Approx.kg	Part-No.
without eyelet	7.2	470
with 1 eyelet	7.2	470/1
with 2 eyelets	7.2	470/2

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

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



470PB

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

hot-dip galvanized

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

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

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



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

Further accessories see page 49



Also available in yellow/black, see work site protection pages 160 ff

Other color finishes possible; see page 7



This post is ideal for barricading off 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

	Approx.kg	Part-No.
without eyelet	11.5	470F
with 1 eyelet	11.5	470F/1
with 2 eyelets	11.5	470F/2

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

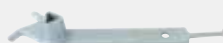
without eyelet	11.5	470FB
with 1 eyelet	11.5	470FB/1
with 2 eyelets	11.5	470FB/2



• stop • save • secure



Accessories see pages 49-56





Barrier post of steel tube 70 x 70 mm

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

Approx.kg

Part-No.

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

7.5

470FU

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

7.5

470FUB

For casting in concrete

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

hot-dip galvanized

10.0

470FUH

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

10.0

470FUHB



470FUB



470.60



Suitable fastening material for this product:

Set of mounting bolts type 1

Part-No.

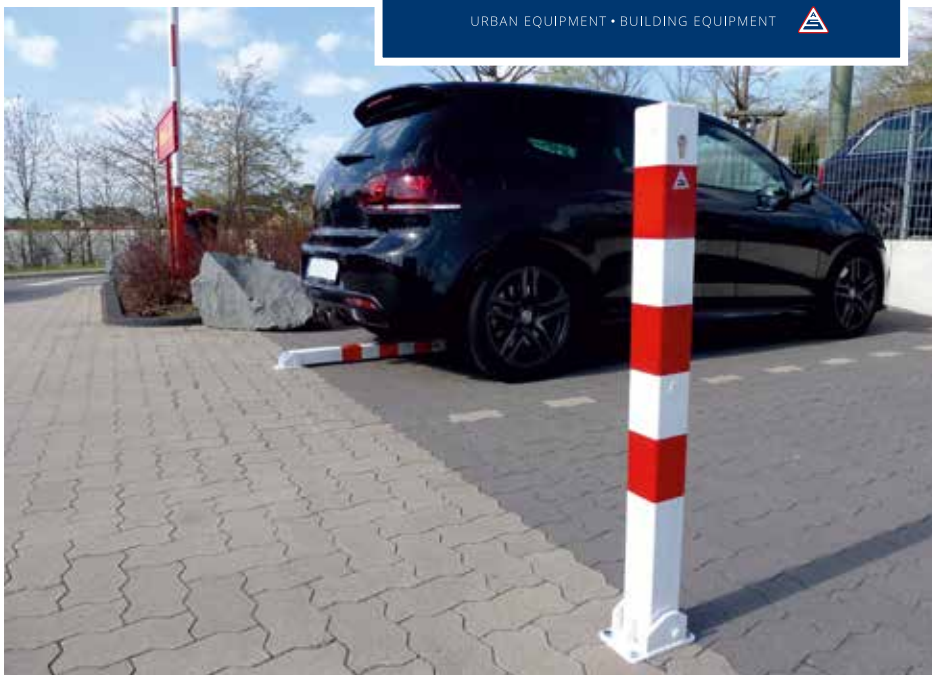
470.71

Further accessories see page 49

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

9.0

470UZ

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

9.0

470UZB

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

hot-dip galvanized

11.3

470UZH

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

11.3

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

470Z

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

13.2

470ZB



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



Barrier post of steel tube 70 x 70 mm

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



Barrier posts

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



470DB

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

13.0

470D

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

13.0

470DB

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

470UD

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

8.7

470UDB

For casting in concrete

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

hot-dip galvanized

11.0

470UDH

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

11.0

470UDHB



470UDB

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



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

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

13.3

470FZ

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

13.0

470FZB



470FUZB

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

470FUZ

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

9.2

470FUZB

For casting in concrete

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

hot-dip galvanized

11.5

470FUZH

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

11.5

470FUZHB

Approx.kg

Part-No.

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

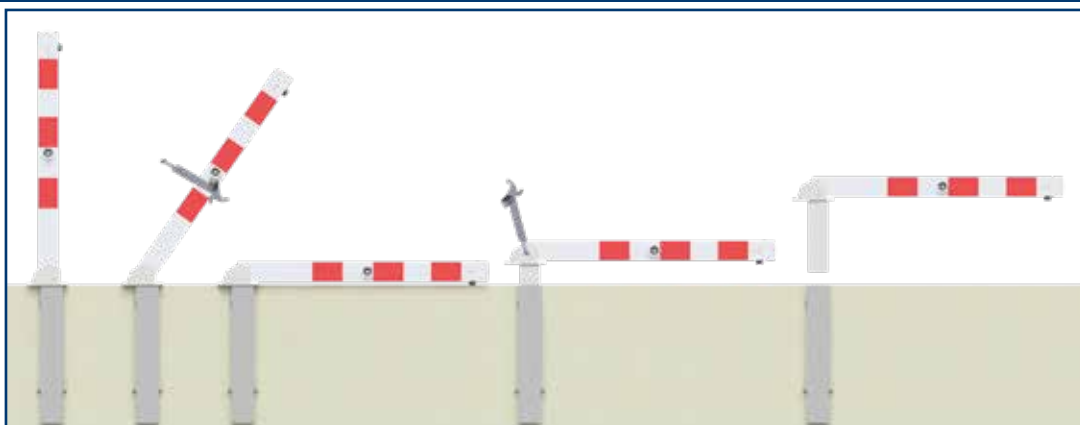


Barrier post of steel tube 70 x 70 mm



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

4701FUH

with Euro profile cylinder lock

14.0

4701UZH

with triangular and Euro profile cylinder lock

14.2

4701FUZH

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

with triangular locking mechanism

12.5

4701FUHB

with Euro profile cylinder lock

14.0

4701UZHB

with triangular and Euro profile cylinder lock

14.2

4701FUZHB



470.40

Multipurpose wrench

0.4

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

470UV

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

8.9

470UVB

For casting in concrete

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

hot-dip galvanized

11.2

470UVH

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

11.2

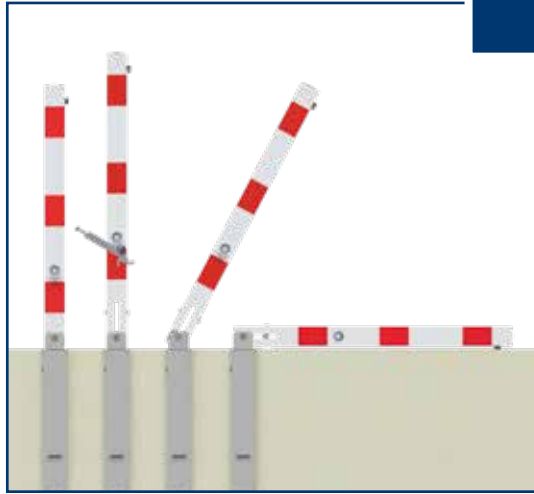
470UVHB



470UVB

Barrier posts

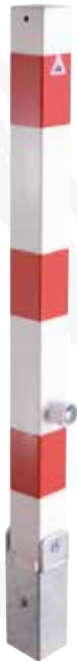
steel tube 70 x 70 mm
with welded steel cap
900 mm above ground



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



info.scan



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

11.0

470FUKH

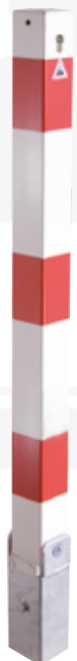
hot-dip galvanized and white coated
with three red reflecting stripes

11.0

470FUKHB



**Lifting and
tilting
mechanism**



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

470UZKH

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

12.3

470UZKHB



Barrier post of steel tube 70 x 70 mm

Barrier posts

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



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

16.8

470DL

Euro profile cylinder

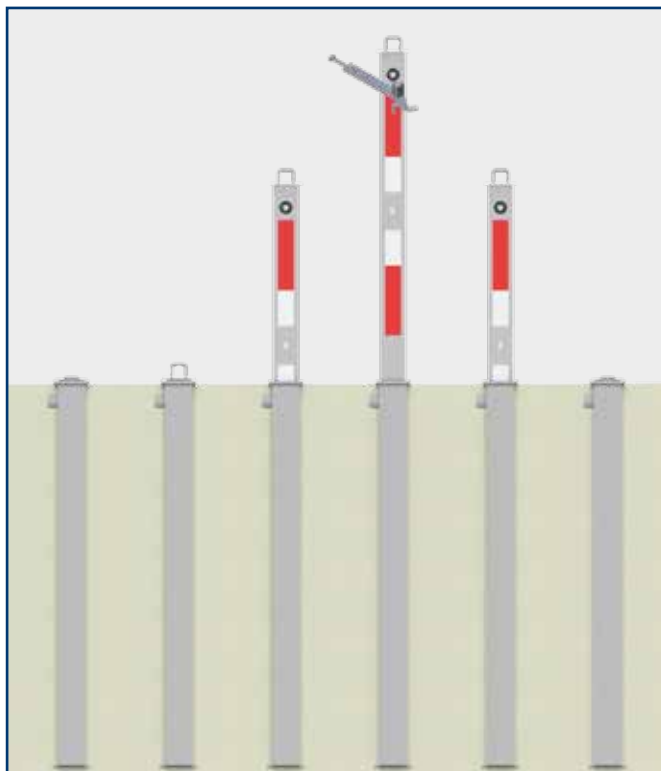


Fully retractable, with Euro profile cylinder lock
with ground socket part-no. 80 x 80 x 3 mm
total length: approx. 1100 mm

hot-dip galvanized
with white / red reflecting stripes

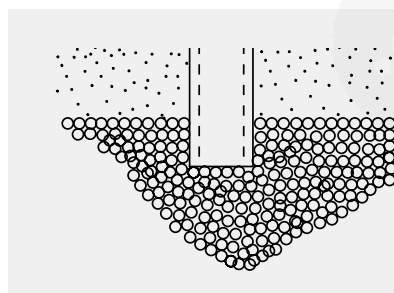
17.1

470ZL



Approx.kg

Part-No.



Instructions for mounting

Always pay attention to adequate drainage for removable posts (provide gravel fill).

Do not install in standing water.

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

Approx.kg Part-No.

12.8 470N

12.8 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 470UN

7.3 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 470UNH

9.6 470UNHB



470UNB



470.60



4039

8 mm triangular lock key

key for opening the posts

0.1 4039



Barrier post of steel tube 70 x 70 mm

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



Barrier posts

steel tube 70 x 70 mm
500 mm above ground



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

5.4

4715FU

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

5.4

4715FUB



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

6.0

4715UZ

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

6.0

4715UZB



470.60

Ground socket

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

2.3

470.60

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

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

hot-dip galvanized

Approx.kg

11.1

Part-No.

40100

hot-dip galvanized and white coated
with red reflecting stripes

11.1

40100B



40100PB

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

hot-dip galvanized

10.8

40100P

hot-dip galvanized and white coated
with red reflecting stripes

10.8

40100PB



40100FB

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

hot-dip galvanized

16.7

40100F

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

16.7

40100FB



Other color finishes possible; see page 7





Barrier posts



4711PB

4711PB+1

470PB/1

Stainless steel

Barrier elements



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.

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 gates



	Approx.kg	Part-No.
hot-dip galvanized	Without eyelet	6.1 4711P
hot-dip galvanized for serial systems (center post)	With 1 eyelet	6.1 4711P+1
hot-dip galvanized and white coated with three red reflecting stripes	Without eyelet	6.1 4711PB
hot-dip galvanized and white coated with three red reflecting stripes for serial systems (center post)	With 1 eyelet	6.1 4711PB+1
End post without lock		
hot-dip galvanized	With 1 eyelet	5.6 470P/1
hot-dip galvanized and white coated with three red reflecting stripes	With 1 eyelet	5.6 470PB/1

Outdoor equipment



470PB/1

Work site protection



470.60

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



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

Approx.kg	Part-No.
15.0	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	4040KB
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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	4041KB
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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	4040KBSET
with feet \varnothing 300 mm for filling by customer, white / red	14,0	4041KBSET



Also available in yellow/black; see work site protection page 173. Barrier chains see page 50-51





Plastic post

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



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

Flexipost red
with white reflecting
stripes

Height in mm	1000
Approx.kg	1.5
Part-No.	412211

Height in mm	750
Approx.kg	1.3
Part-No.	412212

Height in mm	450
Approx.kg	0.9
Part-No.	412214

Height in mm	300
Approx.kg	0.7
Part-No.	412215



Flexipost white
with red reflecting
stripes

Height in mm	1000
Approx.kg	1.5
Part-No.	412221

Height in mm	750
Approx.kg	1.3
Part-No.	412222

Height in mm	450
Approx.kg	0.9
Part-No.	412224

Height in mm	300
Approx.kg	0.7
Part-No.	412225



Flexipost black
with white reflecting
stripes

Height in mm	1000
Approx.kg	1.5
Part-No.	412221BS

Height in mm	750
Approx.kg	1.3
Part-No.	412222BS

Height in mm	450
Approx.kg	0.9
Part-No.	412224BS

Height in mm	300
Approx.kg	0.7
Part-No.	412222BS



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Flexipost yellow

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

Height in mm
Approx.kg
Part-No.

1000
1.5
412441BG

750
1.3
412442BG

450
0.9
412444BG

300
0.7
412445BG



Flexipost black

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

Height in mm
Approx.kg
Part-No.

1000
1.5
412221BG

750
1.3
412222BG

450
0.9
412284BG

300
0.7
412282BG



Adapter with eyelet

for putting on flexiposts
for chains

Height in mm
Approx.kg
Part-No.

white
0.1
41222KW



black
0.1
41222KS



Plastic post

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

Approx.kg

Part-No.

2.5

4260B

2.5

4260BG

With ground socket type for casting in concrete

white with red reflecting stripes
yellow with black stripes

4.5

4260HB

4.5

4260HBG

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

2.5

4261B

2.5

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

470.426



Separate ground socket

of steel, hot-dip galvanized, length 400 mm

2.0

4S470.60MH



Set of mounting bolts, galvanized

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

Part-No.
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 (respectify the article number)

Profile cylinder **simultaneously locking** (without security card)

Profile cylinder **with security card, different locking initial order** (initial order)

Profile cylinder **with security card, simultaneously locking** (initial order)

Profile cylinder **for master key system with security card different locking**
(initial order)

Profile cylinder **for master key system with security card simultaneously locking**
(initial order)



Part-No.

Art.-Nr. +ZGL

Art.-Nr. +ZSI

Art.-Nr. +ZSIGL

Art.-Nr. +ZHS

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



Steel chains

Barrier posts



Barrier chain of steel, welded

wire thickness 5 mm

galvanized

galvanized and red / white coated

packing unit 10 m

Approx.kg/m

Part-No.

0.5 430.50

0.5 430.50B

Stainless steel



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

0.6 430.66

0.6 430.66B

0.6 430.67B

Barrier elements



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

0.9 430.10

0.9 430.10B

0.9 430.20B

0.9 430.25B

Barrier gates



430.60B

Square steel chain, unwelded

wire thickness 6 mm

galvanized and coated

Please specify RAL color

0.9 430.60B

Outdoor equipment



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

Work site protection



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

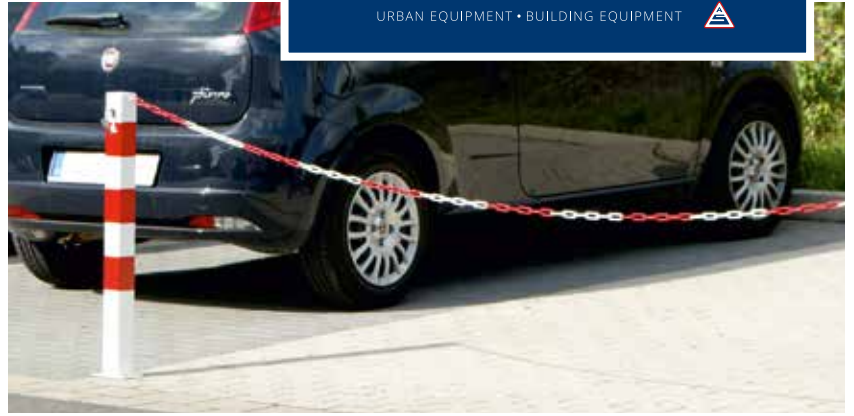
430.13

430.13BR

430.13BW

430.13BG

430.13BS



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



430.05

Plastic barrier chain

6 mm thick

red / white, packing unit 25 m

yellow / black, packing unit 25 m

Approx.kg/Unit

2.0

2.0

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

Plastic hook link

6 mm thick

red

white

yellow

black

430.08R

430.08W

430.08G

430.08S

430.08W

Plastic barrier chain

8 mm thick

red / white, packing unit 25 m

yellow / black, packing unit 25 m

Approx.kg/Unit

2.5

2.5

Part-No.

430.15

430.30

430.15

Plastic connecting link made

8 mm thick

red

white

yellow

black

430.16R

430.16W

430.16G

430.16S

430.16R

Plastic hook link

8 mm thick

red

white

yellow

black

430.17R

430.17W

430.17G

430.17S

430.17W



Barrier posts



Ground socket for Ø 60 mm tubes

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

Approx.kg Part-No.

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

2.1 460.10

Stainless steel



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

2.1 460.40



- for series 460V barrier posts

2.1 460.60

Barrier elements



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

0.4 460.20

Barrier gates



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

0.7 460.21

Outdoor equipment



Ground socket for Ø 76 mm tubes

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

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

3.2 476.10



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

3.2 476.40

Work site protection



Cover for Ø 76 mm tubes

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

0.6 476.20



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

0.9 476.21

		Approx.kg	Part-No.
	Ground socket of square tube 80 x 80 mm, hot-dip galvanized, with ground anchor		
	for barrier post with bottom part 70 x 70 mm without locking mechanism, length 400 mm	2.9	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	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	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	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	470.60

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Ground sockets

Barrier posts



Ground socket

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

Ø 48 mm tubular post

1.6

443.44

Ø 60 mm tubular post

2.1

463.44

Ø 76 mm tubular post

2.6

473.44

Stainless steel



Ground socket

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

300 mm long

2.3

463.31

400 mm long

2.7

463.41

500 mm long

3.2

463.51

Barrier elements



Ground socket

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

300 mm long

3.1

473.31

500 mm long

4.6

473.51

Barrier gates

Example of use



Steel tube sign posts

see catalogue

„building equipment“ page 45

Outdoor equipment

Work site protection



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

300 mm long

Tightening ring
Threaded ring
Blank plug

Approx.kg **Part-No**

3.5 443.61

0.1 443.65

0.8 443.66

0.8 443.67

Blindstopfen



Steel wrench

hot-dip galvanized for Ø 48 mm

1.8 443.68



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

300 mm long
500 mm long

Tightening ring
Threaded ring
Blank plug

5.0 463.61

7.0 463.62

0.1 463.65

0.8 463.66

0.8 463.67

Blank plug



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

300 mm long
500 mm long

Tightening ring
Threaded ring
Blank plug

7.0 473.61

9.5 473.62

0.1 473.65

0.8 473.66

0.8 473.67

Blank plug



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

5.2 463.68



Barrier posts



Grey-cast multipurpose wrench, galvanized

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

Approx.kg

Part-No.

0.4

470.40

Stainless steel



Triangular standard wrench, galvanized

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

0.2

470.50

Barrier elements



Triangular socket wrench, galvanized

acc. to DIN 3223

0.2

470.30



Square socket wrench, 6 mm

for litter bin part-no. 4027

0.2

4037



Triangular socket wrench, 8 mm

for litter bin, galvanized

0.2

4038



Triangular wrench, 8 mm

handy wrench for opening the litter bins

0.1

4039

Barrier gates



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

Outdoor equipment



Ground rosette for post

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

1.3

476RB

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

1.3

485RB

Work site protection



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

1.3

478RB

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

1.3

4084RB



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts

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

Approx.kg Part-No.

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

14.5

471F

hot-dip galvanized and white coated with
red reflecting stripes

14.5

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

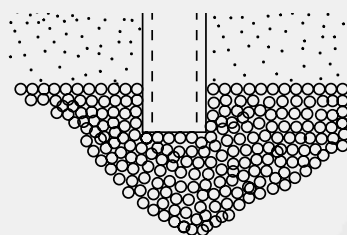
16.3

471Z

hot-dip galvanized and white coated with
red reflecting stripes

16.3

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

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

10.6

471FU

hot-dip galvanized and white coated with red reflecting stripes

10.6

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

471UZ

hot-dip galvanized and white coated with red reflecting stripes

12.1

471UZB



470.60

Ground socket

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

2.3

470.60



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



Car-park barriers, above ground 500 mm

Barrier posts

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

8.6

4709FU

hot-dip galvanized and white coated with
reflecting stripes

8.6

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

4709UZ

hot-dip galvanized and white coated with
reflecting stripes

9.1

4709UZB



470.60

Ground socket

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

2.3

470.60



Flexible!

Crash-proof!

Barrier posts

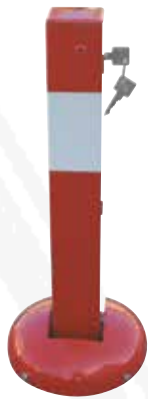
Stainless steel

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

Approx.kg

Part-No.

8.0

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 lockg

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

40220UZH



470.60

Ground socket

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

2.3

470.60



Car-park barriers, above ground 500 mm

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

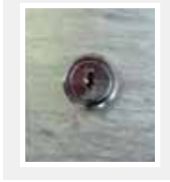
Work site protection

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

7.5

40770

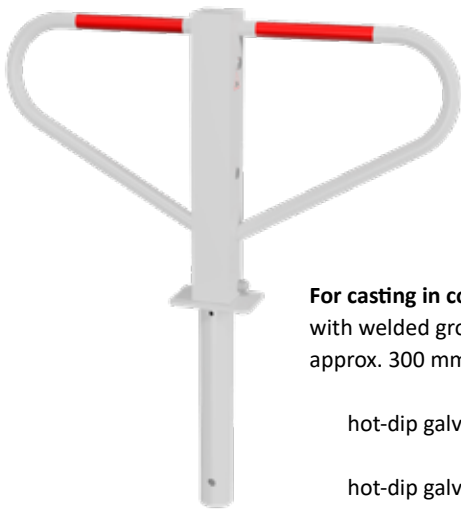
hot-dip galvanized and white coated with red reflecting stripes

7.5

40770B

Approx.kg

Part-No.



40771B

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

hot-dip galvanized with red reflecting stripes

8.8

40771

hot-dip galvanized and white coated with red reflecting stripes

8.8

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



Barrier posts

Stainless steel

Barrier elements

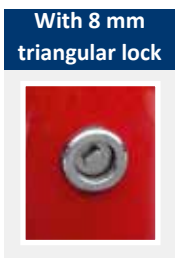
Barrier gates

Outdoor equipment

Work site protection



40772B



With 8 mm 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

7.5

40772

hot-dip galvanized and red coated with
white reflecting stripes

7.5

40772B

Approx.kg

Part-No.



40773B

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

hot-dip galvanized with red reflecting stripes

8.8

40773

hot-dip galvanized and red coated with
white reflecting stripes

8.8

40773B



4039

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

0.1

4039



Car-park barriers, above ground 500 mm

Barrier posts



Stainless steel

Car-park barrier, foldable

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

Barrier elements



40660

Barrier gates

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

hot-dip galvanized with red reflecting stripes
including fastening material

Approx.kg

Part-No.

8,3

40660

Outdoor equipment



Work site protection



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

Approx.kg

Part-No.

5.5

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

472Z



472A

1 set (3 pieces) anchors for casting in concrete

0.1

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

472ZP

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Holding device for parking signage

Barrier posts

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 mm



Stainless steel

Barrier elements

Approx.kg **Part-No.**

For casting in concrete
Total height 500 mm

3.1 4045

To be fixed by plugs
Total height 350 mm

4.0 4045P

Barrier gates

Round hoops for parking sign

stainless steel \varnothing 48,3 mm x 2,5 mm
with welded license plate holder
height above ground: 800 mm
total width: approx. 650 mm



Outdoor equipment

Approx.kg **Part-No.**

For casting in concrete

10.9 449.66SE

To be fixed by plugs

9.9 449.66PSE

Work site protection

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



	Approx.kg	Part-No.
white	2.3	412202SW
yellow	2.3	412202SO

Drive-in rod

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

hot-dip galvanized

3.4 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 4044

4044



Recycling-material post

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



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



bollards without milled groove and reflectors
color: black

Approx.kg

Part-No.

17.0

4014140

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

17.0

4014141

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



bollard without milled grooves and reflecting bands
color: brown

Approx.kg

Part-No.

14.0

4014150

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

14.0

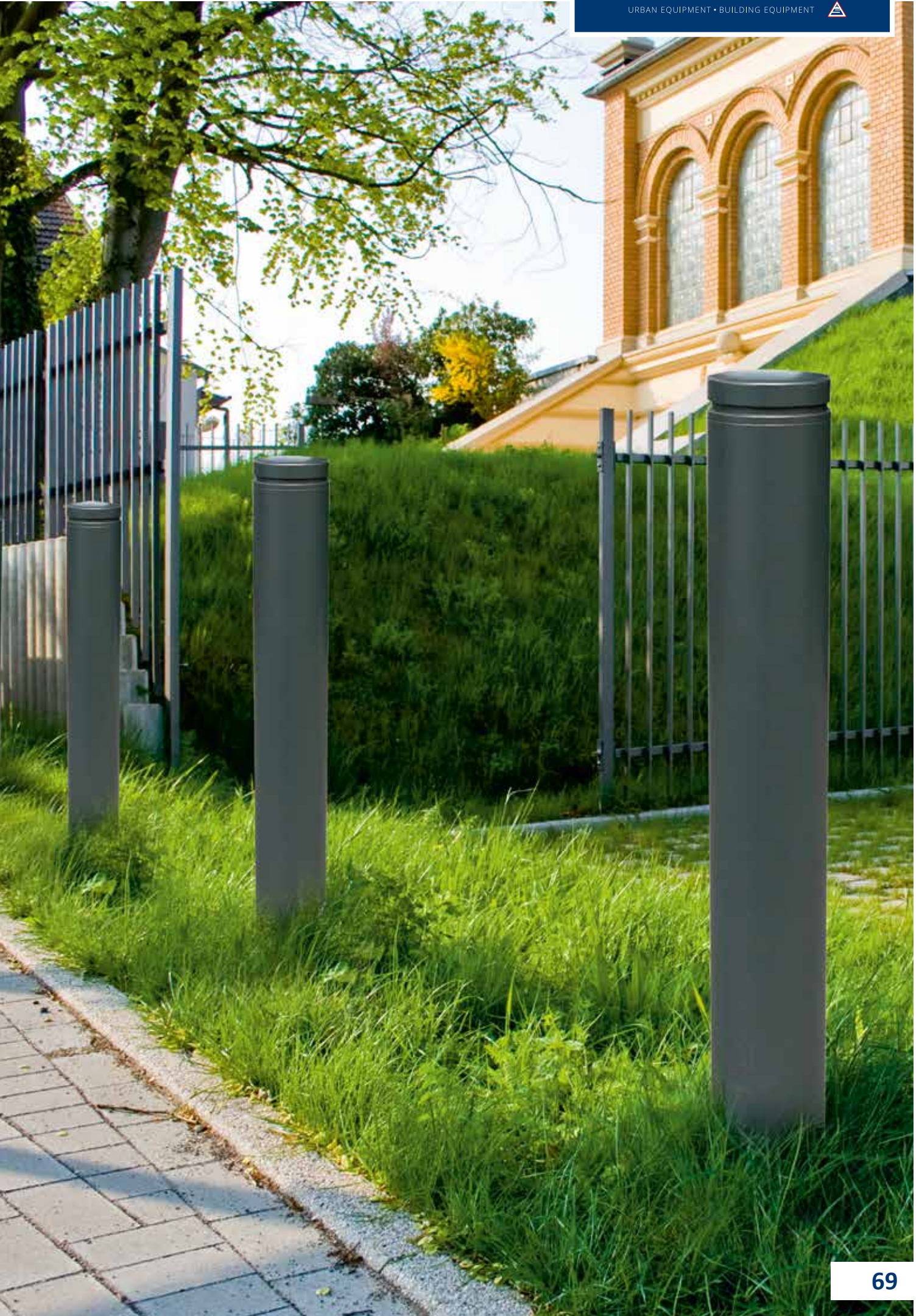
4014151

bollard with white reflective strips (sunk)
2x round, opposite 1x rectangular

14.0

401415





Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Ornamental bollards - overview types of head

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Ø 60 mm
Series 465
Page 70



Ø 60 mm
Series 466
Page 70



Ø 76 mm
Series 475
Page 72



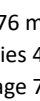
Ø 82 mm
Series 484
Page 76



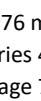
Ø 82 mm
Series 485
Page 76



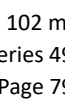
Ø 89 mm
Series 488
Page 78



Ø 76 mm
Series 474
Page 72



Ø 76 mm
Series 478
Page 73



Ø 102 mm
Series 492
Page 79



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



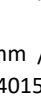
Ø 76 mm
Series 477
Page 76



Ø 76 mm
Series 4074
Page 76



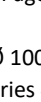
Ø 89 mm
Series 487
Page 80



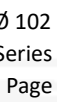
Ø 152 mm / Ø 193 mm
Serie 40155 / 40195
Page 84



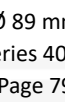
Ø 102 mm
Series 494
Page 81



Ø 100 mm
Series 40101
Page 85



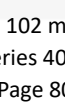
Ø 102 mm
Series 496
Page 81



Ø 89 mm
Series 4084
Page 79



Ø 120 mm
Series 40120 / 40121
Page 85



Ø 102 mm
Series 4091
Page 80

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



Ø 60 / 110 mm
Series 490
Page 85



Ø 72 / 160 mm
Series 495
Page 84 / 85



Ø 76 / 100 mm
Series 479
Page 73



Ø 76 / 102 mm
Series 40102
Page 80



Ø 96 / 168 mm
Series 40168
Page 80



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



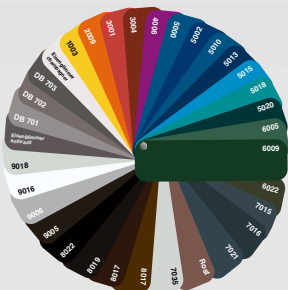
70 x 70 mm
Series 40731
Page 88



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



info.scan

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Ornamental bollard of steel tube Ø 60 mm

Barrier posts

Stainless steel



Barrier elements

Ornamental bollard

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

Color:
Series 465B: RAL 7016

Series 466B: RAL 7016

Barrier gates

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

Approx.kg Part-No.

Part-No.

5.0 465B 466B

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

4.0 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, 7.0 465FB 466FB
acc. to DIN 3223

with profile cylinder lock, three keys incl. 8.0 465ZB

Outdoor equipment

Foldable to be fixed by plugs,
self-engaging lock,
with base plate 100 x 150 mm

with triangular locking mechanism, 6.0 465FUB 466FUB
acc. to DIN 3223

with profile cylinder lock, three keys incl. 7.0 465UZB

Work site protection

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, 8.0 465FUHB 466FUHB
acc. to DIN 3223

with profile cylinder lock, three keys incl. 9.0 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

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. 460.40, 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.

	Approx.kg	Part-No.	Part-No.
Stationary, for casting in concrete with ground anchor, total length: approx. 1300 mm	5.0	464B	468B
Stationary, to be fixed by plugs with base plate 100 x 150 mm	4.0	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	464FB	468FB
with profile cylinder lock, three keys incl.	8.0	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	464FUB	468FUB
with profile cylinder lock, three keys incl.	7.0	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	464FUHB	468FUHB
with profile cylinder lock, three keys incl.	9.0	464UZHB	



Other color finishes possible; see page 7





Ornamental bollard of steel tube Ø 76 mm



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

Approx.kg Part-No.

Part-No.

6.5 474B 475B

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

5.5 474PB 475PB

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

11.5 474FB

475FB

with profile cylinder lock, three keys incl.

11.5 474ZB

Foldable to be fixed by plugs,
self-engaging lock,
with base plate 100 x 150 mm

with triangular locking mechanism,
acc. to DIN 3223

7.0 474FUB

475FUB

with profile cylinder lock, three keys incl.

9.0 474UZB

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

9.5 474FUHB

475FUHB

with profile cylinder lock, three keys incl.

11.5 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,
acc. to DIN 3223

Approx.kg Part-No. Part-No.

7.5 478B 479B

6.5 478PB 479PB

12.0 478FB 479FB

8.0 478FUB 479FUB

10.5 478FUHB 479FUHB



Available as border railing,
see page 128



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

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



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.



Approx.kg Part-No.

6.5 477B

Part-No.

4074B

5.5 477PB

4074PB

11.5 477FB

4074FB

11.5 477ZB

7.0 477FUB

9.0 477UZB

9.5 477FUHB

11.5 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.



	Approx.kg	Part-No.	Part-No.
Stationary, for casting in concrete with ground anchor, total length: approx. 1300 mm	9.5	480B	481B
Stationary, to be fixed by plugs with base plate 100 x 150 mm	8.5	480PB	481PB
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	12.5	480FB	481FB
with profile cylinder lock, three keys incl.	13.0	480ZB	
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	480FUB	481FUB
with profile cylinder lock, three keys incl.	10.0	480UZB	
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	480FUHB	481FUHB
with profile cylinder lock, three keys incl.	12.5	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





Ornamental bollard
of round steel tube \varnothing 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

	Approx.kg	Part-No.	Part-No.	Part-No.
Stationary, for casting in concrete with ground anchor, total length: approx. 1300 mm	9.5	482B	484B	485B
to be fixed by plugs with base plate 100 x 150 mm	8.5	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	482FB	484FB	485FB
with profile cylinder lock, three keys incl.	13.0	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	482FUB	484FUB	485FUB
with profile cylinder lock, three keys incl.	10.0	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	482FUHB	484FUHB	485FUHB
with profile cylinder lock, three keys incl.	12.5	482UZHB	484UZHB	485UZHB



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



487B

With hemisere head

color: RAL 7016

Stationary, for casting in concrete

with ground anchor,
total length: approx. 1300 mm

Approx.kg

Part-No.

8.2

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

487FB



488B

With globe head

color: RAL 7016

Stationary, for casting in concrete

with ground anchor,
total length: approx. 1300 mm

8.0

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

488FB



4084B

With flat head

color: DB 703

Stationary, for casting in concrete

with ground anchor,
total length: approx. 1300 mm

8.6

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

4084FB



Ornamental bollard of steel tube \varnothing 102 mm

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Ornamental bollard

of steel tube \varnothing 102 mm

approx. 950 mm above ground,

hot-dip galvanized and coated



494B



492B



4091B

With hemisere head

color: RAL 7016

Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

Approx.kg

Part-No.

9.5

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

494FB

With globe head

color: RAL 7016

Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

9.5

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

492FB

With hemispherical head

color: DB 703

Stationary, for casting in concrete

with ground anchor, total length: approx. 1300 mm

9.5

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

4091FB

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



4092B



496B

	Approx.kg	Part-No.
With aluminium head and decorative ring color: RAL 7016 Stationary, for casting in concrete with ground anchor, total length: approx. 1300 mm	9.5	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	4092FB
with profile cylinder lock, three keys incl.	2.8	4092ZB
With hemispherical head color: RAL 7016 Stationary, for casting in concrete with ground anchor, total length: approx. 1300 mm	9.5	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	496FB
with profile cylinder lock, three keys incl.	12.8	496ZB



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



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



Barrier posts

Ornamental bollard of steel tube

conical \varnothing 102 / 76 mm, with ornamental cap, approx. 900 mm above ground, hot-dip galvanized and coated anthracite grey (RAL 7016)



Stainless steel



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

Barrier elements

	Approx.kg	Part-No.
Stationary, for casting in concrete with ground anchor, total length: approx. 1300 mm	8.0	40102B
Stationary, to be fixed by plugs with base plate \varnothing 180 mm	7.5	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	40102FB

40102B

Ornamental bollard of steel tube

conical \varnothing 168 / 96 mm with ornamental cap, approx. 750 mm above ground, hot-dip galvanized and coated (RAL 8019)

Barrier gates



	ca.kg	Part-No.
Stationary, for casting in concrete with ground anchor, total length: approx. 1050 mm	11.0	40168B
Stationary, to be fixed by plugs with base plate 220 x 220 mm	10.0	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	40168FB

Outdoor equipment

Work site protection



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



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	
	Approx.kg	Part-No.	Approx.kg	Part-No.
Stationary, for casting in concrete with ground anchor	11.0	4971B	12.0	497B
Stationary, to be fixed by plugs with base plate \varnothing 180 mm	9.0	4971PB	10.0	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	4971FB	17.0	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

	Approx.kg	Part-No.
Stationary, for casting in concrete with ground anchor total length: 1400 mm	15.0	40140B/2
Removable, with triangular locking mechanism acc. to DIN 3223, self-engaging lock, with hot-dip galvanized ground socket	23.0	40140FB/2



Ornamental bollard of steel tube \varnothing 152, \varnothing 193 mm

Barrier posts



Ornamental bollard of steel tube \varnothing 152 mm

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

Stainless steel



40155B

40156B

Stationary, for casting in concrete

Approx.kg

**with aluminium head
and decorative ring**

Part-No.

**with
flat head**

Part-No.

14.5

40155B

40156B

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

21.5

40155FB

40156FB

with profile cylinder lock, three keys incl.

21.0

40155ZB

Barrier elements

Barrier gates

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

Approx.kg

Part-No.

Part-No.

24.0

40195B

40196B

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

30.5

40195FB

40196FB

with profile cylinder lock, three keys incl.

29.0

40195ZB

Outdoor equipment

Work site protection



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

	Approx.kg	Part-No.
Stationary, for casting in concrete with ground anchor	9.0	40101B
Stationary, to be fixed by plugs with base plate Ø 180 mm	8.0	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	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	
	Approx.kg	Part-No.	Approx.kg	Part-No.
Stationary, for casting in concrete with ground anchor	9.0	40120B	10.5	40121B
Stationary, to be fixed by plugs with base plate Ø 180 mm	8.0	40120PB	9.5	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	40120FB	16.0	40121FB



Other color finishes possible; see page 7



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts



Example of use as chain post

Stainless steel

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	Approx.kg	Part-No.
with ground anchor, total length: approx. 1300 mm		

without eyelet	9.5	495B
with 1 eyelet	9.5	495B+1
with 2 eyelets	9.5	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	12.0	495FB
with 1 eyelet	12.0	495FB+1
with 2 eyelets	12.0	495FB+2

Barrier elements

Barrier gates

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	Approx.kg	Part-No.
with ground anchor, total length: approx. 800 mm		

without eyelet	3.5	495MB
with 2 eyelets	3.5	495MB+2

Outdoor equipment

Work site protection



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

Approx.kg	Part-No.
6.5	490B
6.5	490B+1
6.5	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	490FB
9.5	490FB+1
9.5	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	495.01B
10.0	495.02B
10.0	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	495.11B
12.5	495.12B
12.5	495.13B

Cross bar

steel tube Ø 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	495.20B
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495.24B

Joint element

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

0.5	495.24B
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Barrier posts

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



Approx.kg **Part-No.**

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

8.5

4073B

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

7.0

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

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

40731B

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

7.0

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

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



Steel tube 70 x 70 mm

Stationary, for casting in concrete

with ground anchor, total length: approx. 1300 mm

Approx.kg

7.0

Part-No.

4071B

Stationary, to be fixed by plugs

with base plate 100 x 150 mm

7.0

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

4071FB

Steel tube 80 x 80 mm

Stationary, for casting in concrete

with ground anchor, total length: approx. 1200 mm

9.0

4081B

Stationary, to be fixed by plugs

with base plate 200 x 200 mm

8.5

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

4081FB

Steel tube 100 x 100 mm

Stationary, for casting in concrete

with ground anchor, total length: approx. 1200 mm

11.0

4075B

Stationary, to be fixed by plugs

with base plate 200 x 200 mm

10.0

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

4075FB

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts

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



	Approx.kg	with decorative ring Part-No.	without decorative ring Part-No.
Stationary			
for casting in concrete			
with ground anchor, total length: approx. 1300 mm	8.5	473B	4730B
to be fixed by plugs			
with base plate 100 x 150 mm	8.5	473PB	4730PB
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	473FB	4730FB
with profile cylinder lock, three keys incl.	14.5	473ZB	4730ZB
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	473FUB	4730FUB
with profile cylinder lock, three keys incl.	10.5	473UZB	4730UZB
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	11.5	473FUHB	4730FUHB
with profile cylinder lock, three keys incl.	13.5	473UZHB	4730UZHB



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



2. Stainless steel



- | | |
|--|----------|
| 2.1 Stainless steel barrier posts | 92 - 95 |
| 2.2 Stainless steel bollards | 96 - 97 |
| 2.3 Stainless steel hoops | 98 - 100 |
| 2.4 Corten steel bollards | 101 |
| 2.5 Lean-on hoops made of corten steel | 102 |





Barrier post of stainless steel

Barrier posts

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

	Approx.kg	Part-No.
Stationary		
for casting in concrete		
with ground anchor total length: 1200 mm	5.4	4070
to be fixed by plugs		
with base plate 100 x 150 mm	4.9	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	4070F
with profile cylinder lock , three keys incl.	13.1	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	4070FU
with profile cylinder lock , three keys incl.	7.8	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	4070FUH
with profile cylinder lock , three keys incl.	10.0	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

	Approx.kg	Part-No.
Stationary, for casting in concrete total length: 1200 mm	3.7	4062
Stationary, to be fixed by plugs with base plate Ø 120 x 5 mm	3.3	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	4062F
Removable, with Euro profile cylinder lock three keys, self-engaging lock, with hot-dip galvanized ground socket part-no. 460.40	7.4	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	430.55
Connecting links	0.1	430.56
Chain bolting mechanism	0.1	430.57

Stainless steel care spray, content: 400 ml cleaning and care spray for long-lasting protective film	0.5	430.58
---	-----	--------



Barrier posts



Stainless steel

Stainless steel post Ø 76 mm

grinded, convex head
above ground approx. 900 mm



4072



4272

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

	Approx.kg	Without decorative ring Part-No.	With decorative ring Part-No.
Stationary			
for casting in concrete			
with ground anchor, total length: 1300 mm	5.0	4072	4272
to be fixed by plugs			
with base plate 100 x 150 mm	5.0	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	4072F	4272F
with profile cylinder lock, three keys incl.	10.5	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	4072FU	4272FU
with profile cylinder lock, three keys incl.	7.0	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	4072FUH	4272FUH
with profile cylinder lock, three keys incl.	9.0	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		\varnothing 102 mm	
Approx.kg	Part-No.	Approx.kg	Part-No.
5.4	4089	6.2	40103
5.1	4089P	5.7	40103P
10.3	4089F	12.0	40103F
12.0	4089Z	12.0	40103Z



Suitable mounting material for this product:

set of mounting bolts type 2VA

Part-No.

470.77

Further accessories page 49



Stainless steel post

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



Barrier posts

Stainless steel

Stainless steel post Ø 154 mm

grinded, with flat head,
stationary

Barrier elements



Stationary for casting in concrete
with ground anchor

For plugging down
with base plate Ø 250 mm

Total length in mm	Approx. 900	Approx. 1200	Approx. 600	Approx. 900
Approx.kg	7.0	9.5	7.5	10.0
Part-No.	40154	40155	40154P	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

Approx.kg 14.0
Part-No. 40154F

Removable, with Euro profile cylinder lock
three keys

Approx.kg 14.0
Part-No. 40154Z

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 pages 49

Timeless and massive stainless steel post



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



**Stationary for casting in concrete
with ground anchor**

**For plugging down
with base plate Ø 250 mm**

Total length in mm	Approx. 900	Approx. 1200	Approx. 600	Approx. 900
Approx.kg	10.0	13.0	10.0	13.0
Part-No.	40204	40205	40204P	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

Approx.kg	15.5
Part-No.	40204F

Removable, with Euro profile cylinder lock
three keys

Approx.kg	15.5
Part-No.	40204Z



Suitable mounting material for this product:
set of mounting bolts type 2VA

Part-No.
470.77

Further accessories page 49



Stainless steel hoop \varnothing 48 mm

Barrier posts



Stainless steel hoop \varnothing 48 mm
grinded surface

Stainless steel



Without cross bar, for casting in concrete

Total width	Total height	Approx.kg	Part-No.
800 mm	1200 mm	9.0	449.09
1000 mm	1200 mm	9.5	449.12
1200 mm	1200 mm	10.0	449.13

Barrier elements



With cross bar, for casting in concrete

Total width	Total height	Approx.kg	Part-No.
800 mm	1200 mm	11.0	449.21
1000 mm	1200 mm	12.5	449.22
1200 mm	1200 mm	13.5	449.23

Barrier gates



Universal hoop, for casting in concrete

Total width	Total height	Approx.kg	Part-No.
300 mm	1200 mm	9.0	449.30

Outdoor equipment



Round hoop, for casting in concrete

Total width	Total height	Approx.kg	Part-No.
460 mm	1200 mm	7.5	449.46
650 mm	1200 mm	8.0	449.65

Work site protection



Round hoop with cross bar, for casting in concrete

Total width	Total height	Approx.kg	Part-No.
650 mm	1200 mm	10.0	449.66



**Stainless steel hoop
Ø 48 mm**
grinded surface,
for plugging down, with base plate Ø 120 x 5 mm



Without cross bar, for plugging down

Total width	Total height	Approx.kg	Part-No.
800 mm	800 mm	7.5	449.09P
1000 mm	800 mm	8.0	449.12P
1200 mm	800 mm	9.0	449.13P



With cross bar, for plugging down

Total width	Total height	Approx.kg	Part-No.
800 mm	800 mm	10.0	449.21P
1000 mm	800 mm	11.0	449.22P
1200 mm	800 mm	12.0	449.23P



Universal hoop, for plugging down

Total width	Total height	Approx.kg	Part-No.
300 mm	800 mm	6.0	449.30P



Round hoop, for plugging down

Total width	Total height	Approx.kg	Part-No.
460 mm	800 mm	6.0	449.46P
650 mm	800 mm	7.0	449.65P



Round hoop with cross bar, for plugging down

Total width	Total height	Approx.kg	Part-No.
650 mm	800 mm	8.0	449.66P



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

Part-No.
470.762

Further accessories pages 49-56



Stainless steel hoop \varnothing 48 mm

Barrier posts



Stainless steel

Stainless steel bicycle lean-on hoop \varnothing 48 mm

very attractive and functional design, ground surface

Barrier elements

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

For casting in concrete

Approx.kg Part-No.

9.0 449.50

For plugging down

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

8.0 449.50P

Barrier gates

Stainless steel bicycle lean-on hoop \varnothing 48 mm

miter-welded, for casting in concrete
Ground surface



Outdoor equipment



Total width	Total height	Approx.kg	Part-No.
500 mm	1200 mm	8.5	449.85
700 mm	1200 mm	9.0	449.86
1000 mm	1200 mm	9.5	449.87
1200 mm	1200 mm	10.5	449.88

Work site protection



Ornamental bollard made of corten steel tube 80 x 80 mm

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

Stationary, for casting in concrete

with ground anchor, total length: approx. 1200 mm

Approx.kg

9.0

Part-No.

4481

Stationary, to be fixed by plugs

with base plate 200 x 200 mm

8.5

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

4481F



Barrier posts

Stainless steel

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



Barrier elements



U-profile 80 x 40 mm

Total width	Approx.kg	Part-No.
750 mm	20.0	4450.075

Barrier gates



Outdoor equipment



U-profile 80 x 40 mm

with upper part made of stainless steel \varnothing 48 mm

Total width	Approx.kg	Part-No.
750 mm	21.5	4450.175

Work site protection



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

3. Barrier elements



3.1 Tubular hoops	104 - 111
3.2 Access barriers	112 - 115
3.3 Height restriction barriers	116 - 119
3.4 Protective railing	120 - 125
3.5 City fence / railing	126 - 128





Hoops of steel tube Ø 48 mm

- 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	Approx.kg
1000 mm	1000 mm	8.0
1500 mm	1000 mm	9.5
2000 mm	1000 mm	10.5
700 mm	1200 mm	8.0
1000 mm	1200 mm	9.0
1200 mm	1200 mm	9.4
500 mm	1400 mm	9.0
1000 mm	1400 mm	10.0
1500 mm	1400 mm	11.0
2000 mm	1400 mm	13.0
2500 mm	1400 mm	14.5

Part-No.

448.06
448.07
448.08
448.11
448.12
448.13
448.09
448.10
448.15
448.20
448.25

448.06B
448.07B
448.08B
448.11B
448.12B
448.13B
448.09B
448.10B
448.15B
448.20B
448.25B



Without cross bar, for plugging down

1000 mm	1000 mm	9.0
1500 mm	1000 mm	10.5
2000 mm	1000 mm	12.0

448.52
448.53
448.54

448.52B
448.53B
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



hot-dip galvanized



galvanized and white coated with red reflecting stripes

With cross bar, for casting in concrete

Total width	Total height	Approx.kg
700 mm	1200 mm	10.0
1000 mm	1200 mm	11.5
1200 mm	1200 mm	12.5
500 mm	1400 mm	10.0
1000 mm	1400 mm	12.5
1500 mm	1400 mm	15.5
2000 mm	1400 mm	18.5
2500 mm	1400 mm	21.0

Part-No.

448.21
448.22
448.23

Part-No.

448.21B
448.22B
448.23B



With cross bar, for plugging down

1000 mm	1000 mm	12.0
1500 mm	1000 mm	14.5
2000 mm	1000 mm	17.5

448.62
448.63
448.64

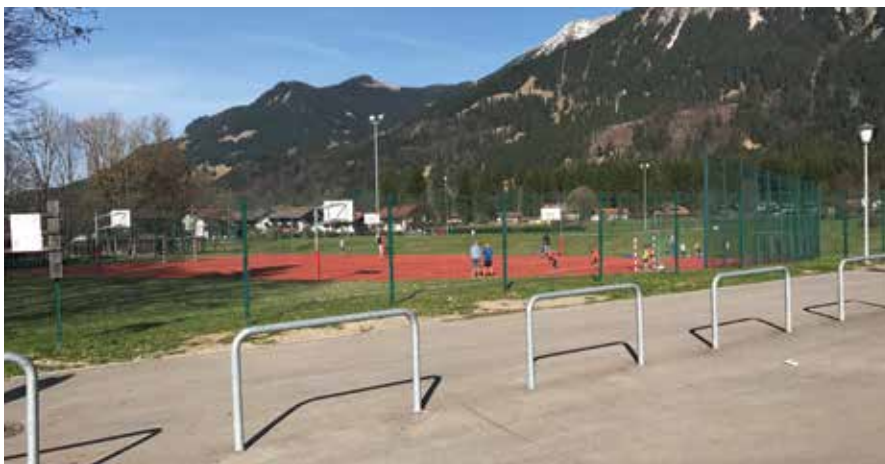


448.62B
448.63B
448.64B



Hoops of steel tube \varnothing 60 mm

Barrier posts



Stainless steel

Steel tube \varnothing 60 x 2.5 mm



Barrier elements

Without cross bar, for casting in concrete

hot-dip galvanized

galvanized and white coated with red reflecting stripes

Total width	Total height	Approx.kg
1000 mm	1000 mm	9.5
1500 mm	1000 mm	11.5
2000 mm	1000 mm	13.0

Part-No.

465.06
465.07
465.08

465.06B
465.07B
465.08B

700 mm	1200 mm	10.0
1000 mm	1200 mm	11.0
1200 mm	1200 mm	12.0

465.11
465.12
465.13

465.11B
465.12B
465.13B

500 mm	1400 mm	11.0
1000 mm	1400 mm	12.5
1500 mm	1400 mm	14.5
2000 mm	1400 mm	16.0
2500 mm	1400 mm	18.0

465.09
465.10
465.15
465.20
465.25

465.09B
465.10B
465.15B
465.20B
465.25B

Barrier gates

Outdoor equipment



Without cross bar, for plugging down

1000 mm	1000 mm	11.0
1500 mm	1000 mm	13.0
2000 mm	1000 mm	14.5

465.52
465.53
465.54

465.52B
465.53B
465.54B

Work site protection



Barrier posts

Stainless steel

Steel tube \varnothing 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	Approx.kg
700 mm	1200 mm	12.0
1000 mm	1200 mm	14.5
1200 mm	1200 mm	15.5
500 mm	1400 mm	12.0
1000 mm	1400 mm	15.5
1500 mm	1400 mm	19.5
2000 mm	1400 mm	23.0
2500 mm	1400 mm	26.5

Part-No.

465.21
465.22
465.23
465.31
465.32
465.33
465.34
465.35

Part-No.

465.21B
465.22B
465.23B
465.31B
465.32B
465.33B
465.34B
465.35B

Barrier elements

Barrier gates



With cross bar, for plugging down

Total width	Total height	Approx.kg
1000 mm	1000 mm	14,0
1500 mm	1000 mm	17,5
2000 mm	1000 mm	21,0

465.62
465.63
465.64

465.62B
465.63B
465.64B

Outdoor equipment

Work site protection



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 \varnothing 48 X 2.5 mm

Stainless steel



Barrier elements



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

Without cross bar
total width: approx. 460 mm

hot-dip galvanized

7.0

448.046

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

7.0

448.046B

Barrier gates



Without cross bar
total width: approx. 650 mm

hot-dip galvanized

7.5

448.065

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

7.5

448.065B

Outdoor equipment



With cross bar
total width: approx. 650 mm

hot-dip galvanized

9.0

448.066

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

9.0

448.066B

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 \varnothing 48 x 2.5 mm

Steel tube \varnothing 60 x 2.5 mm

total width: approx. 750 mm

total width: approx. 800 mm

total height: approx. 1400 mm

total height: approx. 1450 mm

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

Universal hoop



For casting in concrete

Steel tube \varnothing 48 mm

Steel tube \varnothing 60 mm

total width: approx. 300 mm

total width: approx. 400 mm

total height: approx. 1400 mm

total height: approx. 1400 mm

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



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Anti-nudge hoop for trees and posts

steel tube construction with 2 hoops \varnothing 60 mm with welded-on-cross-bars \varnothing 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	Approx.kg	Part-No.	Part-No.
600 mm	600 mm	650 mm	21.5	465.066	465.066B
800 mm	800 mm	800 mm	25.5	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	Approx.kg	Part-No.	Part-No.
600 mm	600 mm	650 mm	19.0	465.066P	465.066PB
800 mm	800 mm	800 mm	24.0	465.068P	465.068PB



Also available in yellow/black, see page 180



Safety barriers for dangerous areas !

Guard hoops

steel tube \varnothing 76 x 2.6 mm
without cross bar



For casting in concrete

hot-dip galvanized

galvanized and white coated
with red reflecting stripes

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



For plugging down

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

Universal hoop

steel tube \varnothing 76 x 2.6 mm



For casting in concrete

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



For plugging down

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

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts

Access barriers

removable, revolving, round steel tube Ø 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



Stainless steel



Without quarter-bent bar

Total width in mm	1000	1500	2000	2500
hot-dip galvanized				
Part-No.	465.10F	465.15F	465.20F	465.25F
Approx.kg	16.5	18.5	20.0	22.0

Barrier elements



hot-dip galvanized and white coated with red reflecting stripes				
Part-No.	465.10FB	465.15FB	465.20FB	465.25FB
Approx.kg	16.5	18.5	20.0	22.0

Barrier gates



With quarter-bent bar

hot-dip galvanized				
Part-No.	465.32F	465.33F	465.34F	465.35F
Approx.kg	20.0	23.0	27.0	30.5

Outdoor equipment



hot-dip galvanized and white coated with red reflecting stripes				
Part-No.	465.32FB	465.33FB	465.34FB	465.35FB
Approx.kg	20.0	21.0	27.0	30.5



Work site protection



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



With top bar

Total width in mm	1500	2000	2500	3000
hot-dip galvanized				
Part-No.	410.15	410.20	410.25	410.30
Approx.kg	25.5	27.5	29.5	31.0

hot-dip galvanized and white coated with red reflecting stripes

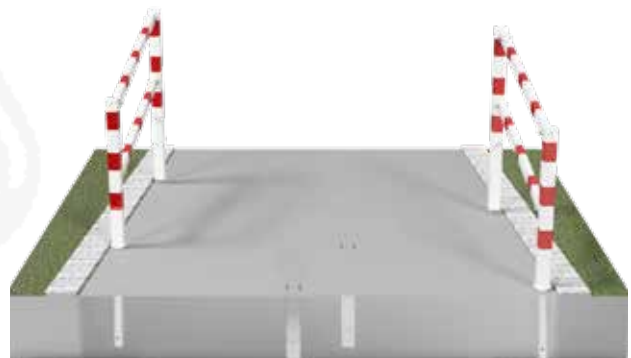
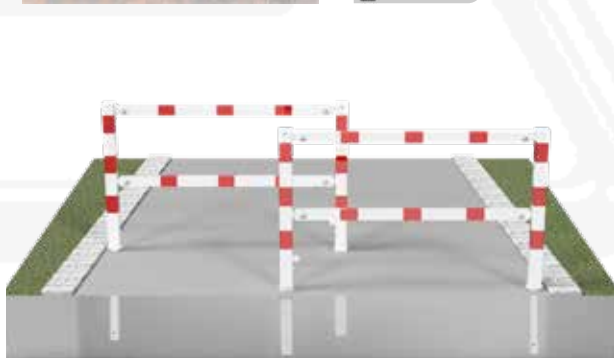
Part-No.	410.15B	410.20B	410.25B	410.30B
Approx.kg	25.5	27.5	29.5	31.0

With top and quarter-bent bar

hot-dip galvanized				
Part-No.	412.15	412.20	412.25	412.30
Approx.kg	31.0	34.5	38.5	42.0

hot-dip galvanized and white coated with red reflecting stripes

Part-No.	412.15B	412.20B	412.25B	412.30B
Approx.kg	31.0	34.5	38.5	42.0



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

Stainless steel

Barrier elements

Barrier gates

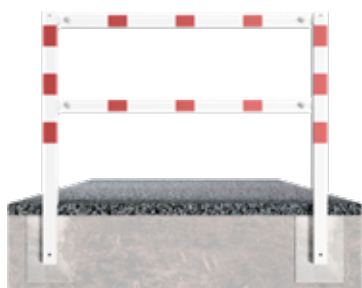
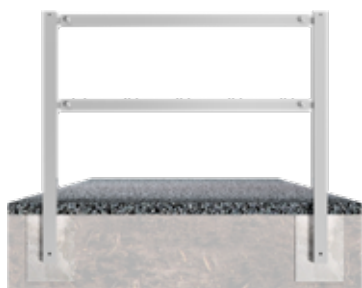
Outdoor equipment

Work site protection

Stationary access barriers
for bolting on site, including bolts,
consists of:

2 stationary posts
square tube 70 x 70 mm, above ground
900 mm, with ground anchor, below
ground 400 mm

1 cross bar
square tube 60 x 40 mm



With top bar

Total width in mm	1500	2000	2500	3000
hot-dip galvanized				
Part-No.	414.15	414.20	414.25	414.30
Approx.kg	19.5	21.5	23.5	25.0

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

With top and quarter-bent bar

hot-dip galvanized				
Part-No.	416.15	416.20	416.25	416.30
Approx.kg	25.0	29.0	32.5	36.0

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

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

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
Approx.kg	19.0	21.0	23.0



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

With top and quarter-bent bar



hot-dip galvanized			
Part-No.	4016.15	4016.20	4016.25
Approx.kg	24.0	28.0	32.0



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



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.



Height restriction barriers

Barrier posts

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

Stainless steel

Cross bar

aluminium 100 x 50 mm

white coated with red reflecting stripes



Barrier elements

For casting in concrete

Cross tube length	Approx.kg	Part-No.
3000 mm	78.5	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

Optionally available with:

Base plate

360 x 360 x 8 mm including 4 holes Ø 21 mm
hole pitch 260 x 260 mm

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

Barrier gates

Additionally available:

for all height restriction barriers with cross-bar 100 x 50 mm

Barrier of aluminium tube

Ø 40 mm, white coated with red reflecting stripes,
universal mounting incl. chain for mounting at
cross-bar of height retraction barrier



Outdoor equipment



Length	Approx.kg	Part-No.
2000 mm	2.1	417.B02
3000 mm	3.2	417.B03
4000 mm	4.3	417.B04
6000 mm	6.4	417.B06

Work site protection

Holding for signs

flat steel with universal holding
for mounting on cross-bar of height
retraction barrier, for sign Ø 420 mm

	Approx.kg	Part-No.
hot-dip galvanized, white coated	0.7	417.98



Pay attention: the max. height decreases 200 mm by the barrier

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	Approx.kg	For padlock Part-No.	Triangular lock Part-No.	Euro profile cylinder lock Part-No
2000 mm	57.5	417.201VB	417.201FB	417.201ZB
2500 mm	58.5	417.251VB	417.251FB	417.251ZB
3000 mm	60.0	417.301VB	417.301FB	417.301ZB
3500 mm	61.0	417.351VB	417.351FB	417.351ZB
4000 mm	62.0	417.401VB	417.401FB	417.401ZB
4500 mm	63.5	417.451VB	417.451FB	417.451ZB

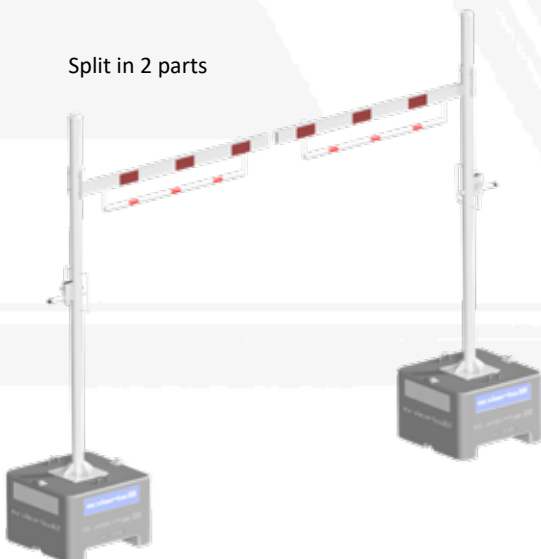
Optionally available with:

Base plate

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.

Split in 2 parts



Optional mobile high restriction barrier

To mount on concrete set-up device (600 kg, 3F120) by adaptation,
can be moved by crane or fork lift,
optional with base jack 70670N for uneven ground.

Add **PM** to part-no.



Height restriction barriers

Height restriction barriers

hot-dip galvanized and white coated with red reflecting stripes



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

Total width

3000 mm
4000 mm

Approx.kg

38.5
44.0

Part-No.

417.30B
417.40B

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

3000 mm
4000 mm
5000 mm
6000 mm

66.2
68.5
71.0
73.5

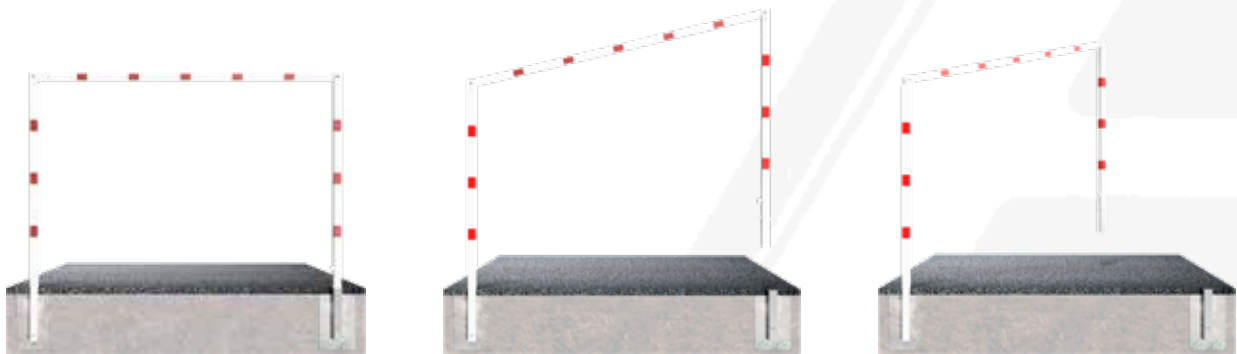
417.32B
417.42B
417.52B
417.62B

Optionally available with:

Base plate

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.



Pivotable, 70 x 70 mm for casting in concrete

1 post
of steel tube **70 x 70 mm** square tube,
stationary, for casting in concrete,
total height: approx. 2500 mm

Total width

3000 mm
4000 mm

Approx.kg

42.5
45.0

Part-No.

417.31B
417.41B

1 post
of steel tube **70 x 70 mm**
removable, with triangular locking
mechanism, **incl. ground socket**
470.10 approx. 500 mm below ground

1 cross bar
of steel tube **60 x 40 mm**

clear height: approx. 2000 mm

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	Approx.kg	Part-No.
Reflecting one-sided	2000 mm	3.5	4117.20B
	3000 mm	5.0	4117.30B
	4000 mm	6.0	4117.40B
	5000 mm	7.0	4117.50B
	6000 mm	8.5	4117.60B
Reflecting both-sided	2000 mm	3.5	4217.20B
	3000 mm	5.0	4217.30B
	4000 mm	6.0	4217.40B
	5000 mm	7.0	4217.50B
	6000 mm	8.5	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



Approx.kg 1.3
Part-No. 4317RB



Approx.kg 1.3
Part-No. 4317LB



These products are also available in yellow/black; see work site protection page 186

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



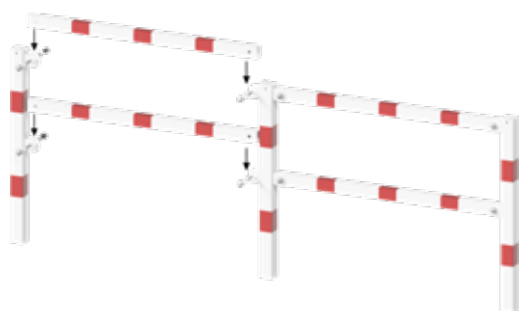
Protective railing

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.

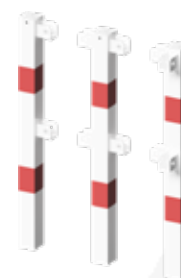
Protective railing

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

Approx.kg

Part-No.

End post

for top and quarter-bent bar

8.0

4270

4270B

Middle post

for top and quarter-bent bar

8.5

4271

4271B

Corner post

for top and quarter-bent bar 90°

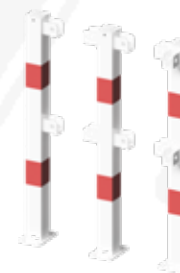
8.5

4273

4273B

Fixed post for plugging down

with base plate 100 x 150 mm



End post

for top and quarter-bent bar

6.5

4270P

4270PB

Middle post

for top and quarter-bent bar

7.0

4271P

4271PB

Corner post

for top and quarter-bent bar 90°

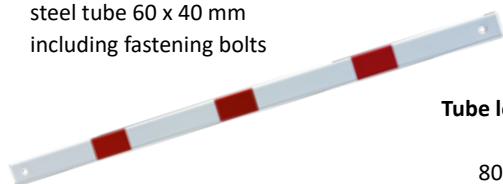
7.0

4273P

4273PB

Cross bar

steel tube 60 x 40 mm
including fastening bolts



hot-dip galvanized

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

Tube length	Approx.kg	Part-No.	
800 mm	3.0	4208	4208B
1300 mm	5.0	4213	4213B
1800 mm	7.0	4218	4218B
2300 mm	8.5	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

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



For plugging down

with base plate 100 x 150 mm

Cross bar

steel tube \varnothing 48 mm



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



hot-dip galvanized

hot-dip galvanized and white coated with red reflecting stripes

	Approx.kg	Part-No.
End post	5.5	448.80
Middle post	7.5	448.81
Corner Post	9.5	448.815



hot-dip galvanized

hot-dip galvanized and white coated with red reflecting stripes

	Approx.kg	Part-No.
End post	5.0	448.80P
Middle post	7.0	448.81P
Corner Post	9.0	448.815P

hot-dip galvanized

hot-dip galvanized and white coated with red reflecting stripes



For the suitable mounting material see page 49
Also available in yellow / black design; see page 181



Safety fencing

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

	Center spacing	Approx.kg	Part-No.
hot-dip galvanized	750 mm	16.5	418.07
	1500 mm	23.0	418.15
	2000 mm	31.0	418.20
hot-dip galvanized and coated white	750 mm	16.5	418.07BW
	1500 mm	23.0	418.15BW
	2000 mm	31.0	418.20BW
hot-dip galvanized and coated red	750 mm	16.5	418.07BR
	1500 mm	23.5	418.15BR
	2000 mm	31.0	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	418.00
hot-dip galvanized and white coated	6.0	418.00B

End post with 2 connecting clips

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

	Approx.kg	hot-dip galvanized Part-No.	hot-dip galvanized and coated (RAL 7016) Part-No.
end post for top bar	5.4	467.01	467.01B
middle post for top bar	5.4	467.02	467.02B
corner post for top bar	5.4	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	467.11	467.11B
middle post for top and quarter-bent bar	5.4	467.12	467.12B
corner post for top and quarter-bent bar	5.4	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	467.04	467.04B
middle post	2.9	467.05	467.05B
corner post	2.9	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	467.20	467.20B
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Aluminium joint

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

0.5	467.24	467.24B
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Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

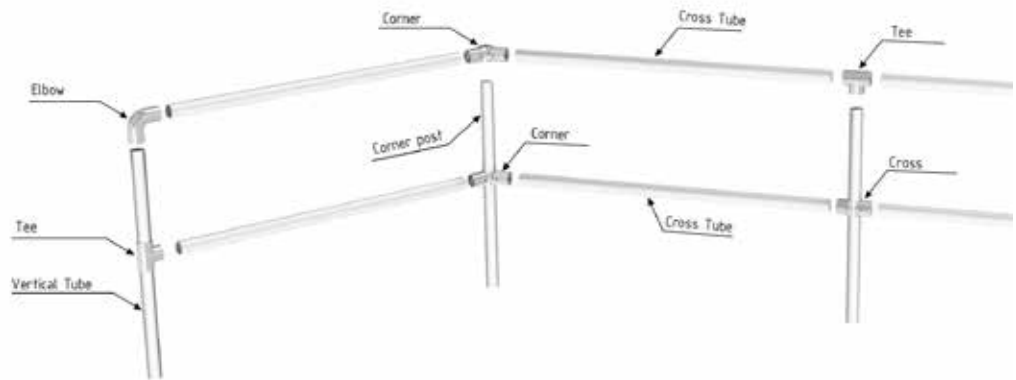
Work site protection



Barriers / security fence

Barrier posts

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



Stainless steel

Barrier

steel tube \varnothing 60 mm
hot-dip galvanized



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

Barrier elements



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

Barrier gates

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

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

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	418.42
hot-dip galvanized and white coated	5.5	418.42B

Middle post with 4 connecting clips

hot-dip galvanized	5.5	418.44
hot-dip galvanized and white coated	5.5	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).



Barrier posts

Stainless steel



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	Approx.kg	Part-No.	Part-No.
with cover	1500 mm	4.5	419.600	419.600B
with ball head	1500 mm	4.5	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	419.601	419.601B
with ball head	1000 mm	4.5	419.603	419.603B

Cross bar

steel tube Ø 60 mm, including connection elements

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

Connection element

(loose) for traffic protection system

(clip, splay, plastic plates, bolts and nuts)	0.3	419.699	419.699B
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Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Other color finishes possible; see page 7





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

	Approx.kg	With flat head Part-No.	With ornamental head Part-No.
Middle post	7.9	418.7804B	418.7814B
End post	7.9	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	418.710B
1500 mm	10.4	418.715B



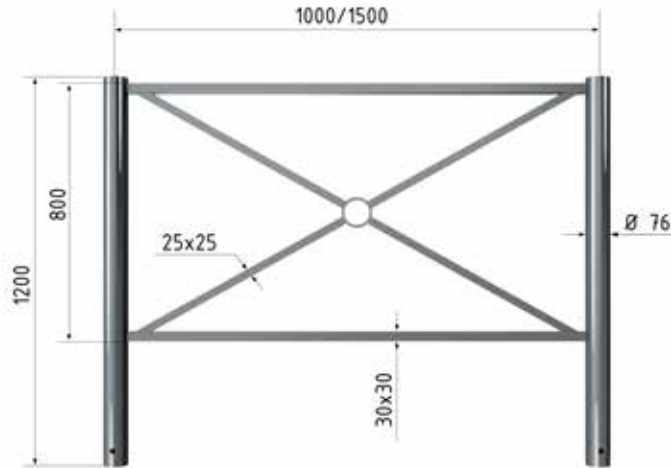
The fence panels are fastened to the vertical post; the design of the fastening permits different degree and angle positions.

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



Special color RAL 3004



Other color finishes possible; see page 7



Barrier posts

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



Stainless steel



Fixed post

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

Approx.kg

Part-No.

end post with 2 connecting clips

7.0

478.02B

middle post with 4 connecting clips

7.0

478.04B

ground rosette bolts

1.3

478RB

Barrier elements



Frame element

steel tube \varnothing 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

478.20B

Barrier gates

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.



Outdoor equipment

Fixed post

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

Approx.kg

Part-No.

end post

3.0

40673B

middle post

3.0

40674B

corner post

3.0

40675B



Work site protection

Flat bar steel 45 x 15 mm

hot-dip galvanized and coated

total length 1000 mm

5.5

40676B

total length 1500 mm

8.0

40677B

total length 2000 mm

10.5

40678B

4. Barrier gates



- | | |
|---------------------|----------------|
| 4.1 Swing barriers | 130 - 133, 138 |
| 4.2 Access barriers | 134 - 135 |
| 4.3 Manuel barriers | 136 - 137 |

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Swiveling gates

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

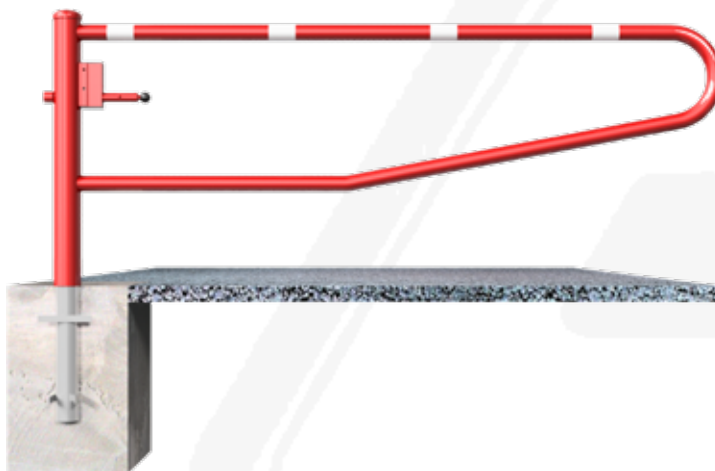


approx. 950 mm above ground

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

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

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

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	Approx.kg	For padlock	With triangular lock	With Euro profile cylinder lock
		Part-No.	Part-No.	Part-No.
1500 mm	33.0	4013.15V	4013.15F	4013.15Z
2000 mm	37.0	4013.20V	4013.20F	4013.20Z
2500 mm	41.0	4013.25V	4013.25F	4013.25Z
3000 mm	44.5	4013.30V	4013.30F	4013.30Z
3500 mm	48.0	4013.35V	4013.35F	4013.35Z

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

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



Swing barrier with aluminium barrier

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	Approx.kg	For padlock	With triangular lock	With Euro profile cylinder lock
		Part-No.	Part-No.	Part-No.
1500 mm	32.0	4113.15VB	4113.15FB	4113.15ZB
2000 mm	33.0	4113.20VB	4113.20FB	4113.20ZB
2500 mm	34.0	4113.25VB	4113.25FB	4113.25ZB
3000 mm	35.0	4113.30VB	4113.30FB	4113.30ZB
3500 mm	36.0	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

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 **Approx.kg**

3000 mm	58.0
3500 mm	60.0
4000 mm	62.0
4500 mm	64.0
5000 mm	66.0
5500 mm	68.0
6000 mm	70.0

For padlock

Part-No.

4213.30VB
4213.35VB
4213.40VB
4213.45VB
4213.50VB
4213.55VB
4213.60VB

With triangular lock

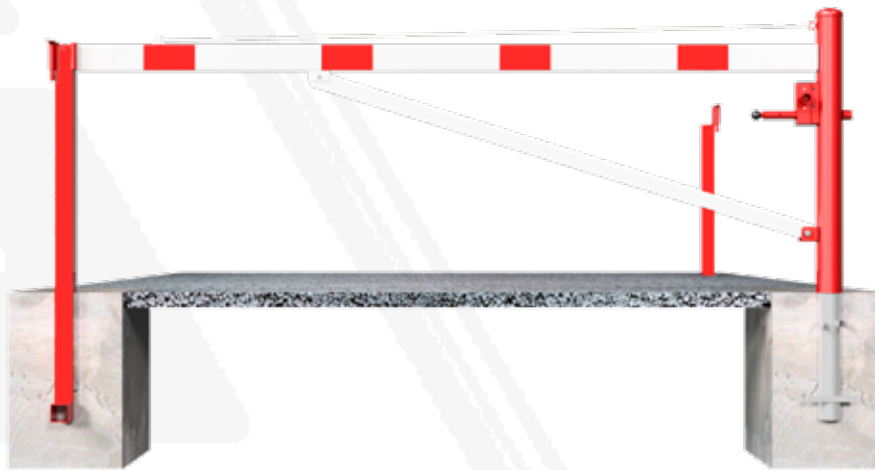
Part-No.

4213.30FB
4213.35FB
4213.40FB
4213.45FB
4213.50FB
4213.55FB
4213.60FB

With Euro profile cylinder lock

Part-No.

4213.30ZB
4213.35ZB
4213.40ZB
4213.45ZB
4213.50ZB
4213.55ZB
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.





Access barrier with counterweight and supporting post

Barrier posts

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



Stainless steel

Barrier elements

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

Barrier gates

	Approx.kg	Part-No.
Set of mounting bolts type 3 to be fixed by plugs	0.4	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	411.92
Pull rope reinforcement	0.5	411.95

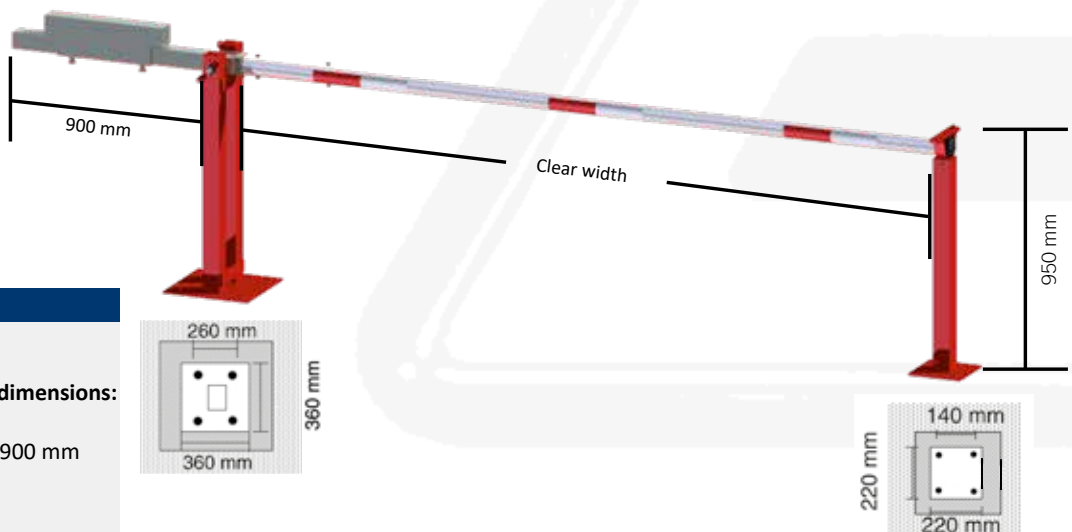
Outdoor equipment



Recommended foundation dimensions:

Main support
width 550 x 550 mm, depth 900 mm

Supporting post
width 400 x 400 mm, depth 900 mm



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 \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

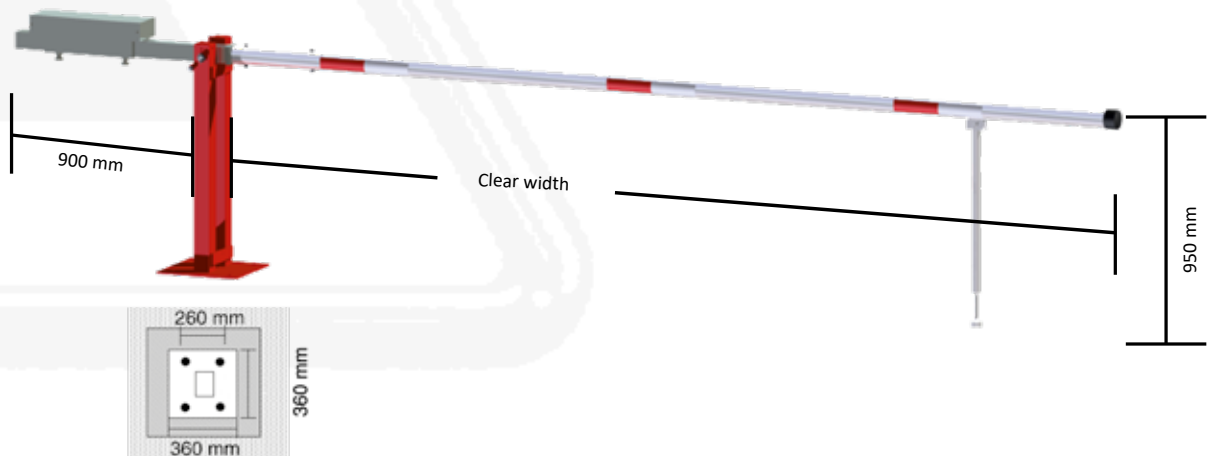
Total width: clear width + approx. 900 mm

Height: approx. 950 mm above ground



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

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



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Manual barrier with gas pressure spring and supporting post

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	Approx. kg	For padlock Part-No.	With triangular lock Part-No.
3000 mm	48.5	415.30VPB	415.30FPB
4000 mm	51.5	415.40VPB	415.40FPB
5000 mm	54.0	415.50VPB	415.50FPB
6000 mm	57.0	415.60VPB	415.60FPB
7000 mm	60.0	415.70VPB	415.70FPB

Euro profile cylinder lock

Triangular locking mechanism and Euro profile cylinder lock at the main support

Clear width	Approx. kg	Part-No.	Part-No.
3000 mm	54.0	415.30ZPB	415.30FZPB
4000 mm	57.0	415.40ZPB	415.40FZPB
5000 mm	60.0	415.50ZPB	415.50FZPB
6000 mm	62.5	415.60ZPB	415.60FZPB
7000 mm	64.0	415.70ZPB	415.70FZPB

Approx. kg Part-No.

Set of mounting bolts type 3

to be fixed by plugs

0.4 470.73

Set of ground sockets

with ground anchor plate for main and supporting posts, **for casting in concrete**, hot-dip galvanized, including bolts M16

17.5 415.92

Pull rope reinforcement

0.5 415.95



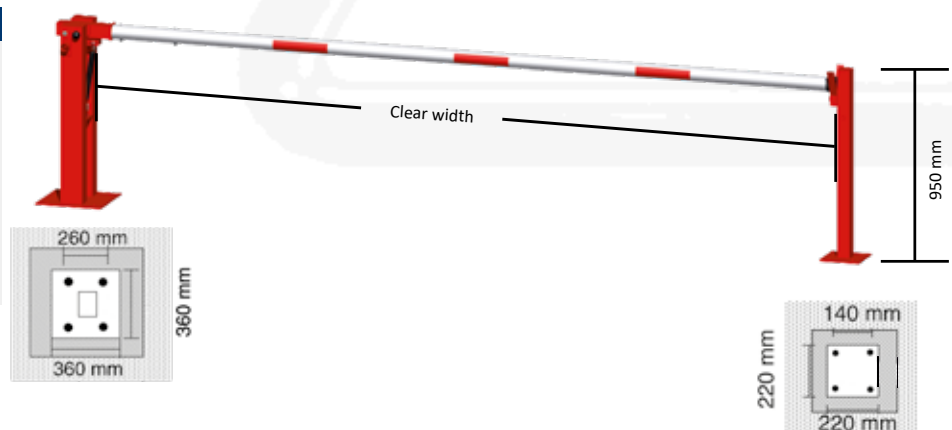
Recommended foundation dimensions:

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 Ø 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 Ø 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	Approx. kg	For padlock Part-No.	With triangular lock Part-No.
3000 mm	45.5	415.31VPB	415.31FPB
4000 mm	48.0	415.41VPB	415.41FPB
5000 mm	51.0	415.51VPB	415.51FPB
6000 mm	52.0	415.61VPB	415.61FPB
7000 mm	55.0	415.71VPB	415.71FPB

Clear width	Approx. kg	Euro profile cylinder lock Part-No.	Triangular locking mechanism and Euro profile cylinder lock Part-No.
3000 mm	46.5	415.31ZPB	415.31FZPB
4000 mm	49.5	415.41ZPB	415.41FZPB
5000 mm	51.5	415.51ZPB	415.51FZPB
6000 mm	54.5	415.61ZPB	415.61FZPB
7000 mm	56.5	415.71ZPB	415.71FZPB

Set of mounting bolts type 2
to be fixed by plugs

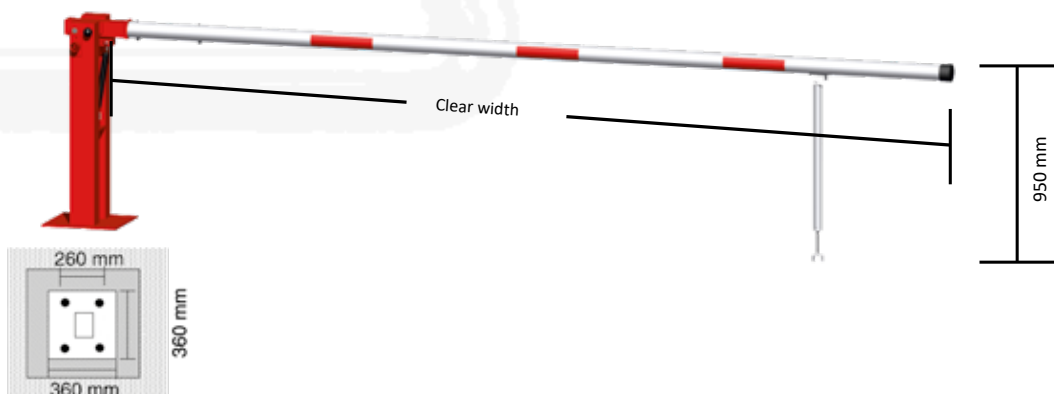
Approx. kg	Part-No.
0.2	470.72

Ground socket
with ground anchor plate for main support, **for casting in concrete**, hot-dip galvanized, including bolts M16

Approx. kg	Part-No.
12.5	415.91

Euro profile cylinder lock with forced closing
Pull rope reinforcement

Approx. kg	Part-No.
0.5	415.96
2.5	415.95



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Swing barrier

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

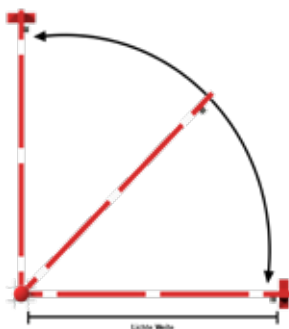


For casting in concrete, hot-dip galvanized

Clear width	Approx.kg	For padlock	With triangular lock	With Euro profile cylinder lock
		Part-No.	Part-No.	Part-No.
2500 mm	53.0	413.250V	413.250F	413.250Z
3000 mm	56.0	413.300V	413.300F	413.300Z
3500 mm	59.5	413.350V	413.350F	413.350Z
4000 mm	62.5	413.400V	413.400F	413.400Z
4500 mm	65.0	413.450V	413.450F	413.450Z

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

Clear width	Approx.kg	For padlock	With triangular lock	With Euro profile cylinder lock
		Part-No.	Part-No.	Part-No.
2500 mm	53.0	413.250VB	413.250FB	413.250ZB
3000 mm	56.0	413.300VB	413.300FB	413.300ZB
3500 mm	59.5	413.350VB	413.350FB	413.350ZB
4000 mm	62.5	413.400VB	413.400FB	413.400ZB
4500 mm	65.0	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.

5. Outdoor equipment



5.1 Scooter racks	140
5.1 Bicycle stands / lean-on hoops	141 - 154
5.2 Laundry drying stands	155
5.4 Litter bins	156 - 157
5.5 Planters	158



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Scooter - rack

Barrier posts

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 6 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
Approx.kg	13.0	13.0	11.0
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 6 places total height: approx. 1000 mm above ground hot-dip galvanized



	For casting in concrete	To be fixed by plugs
Approx.kg	15.0	15.0
Part-No.	421.98	421.99

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	Approx.kg	Part-No.
3 Bicycles	1050 mm	10.0	420.30
4 Bicycles	1400 mm	14.5	420.40
5 Bicycles	1750 mm	16.5	420.50
6 Bicycles	2100 mm	20.0	420.60



Two-sided rack, hot-dip galvanized

2 x 3 Bicycles	1050 mm	16.0	420.32
2 x 5 Bicycles	1750 mm	26.0	420.52
2 x 6 Bicycles	2100 mm	32.0	420.62

Bicycle stand with lean-on hoop

frame of angular section
hoop Ø 19 mm round tube, high and low rack bicycle wheel width up to 55 mm
Lean-on hoop Ø 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

2 Bicycles	700 mm	15.0	420.20H
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Figure: 2 racks 420.20H

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



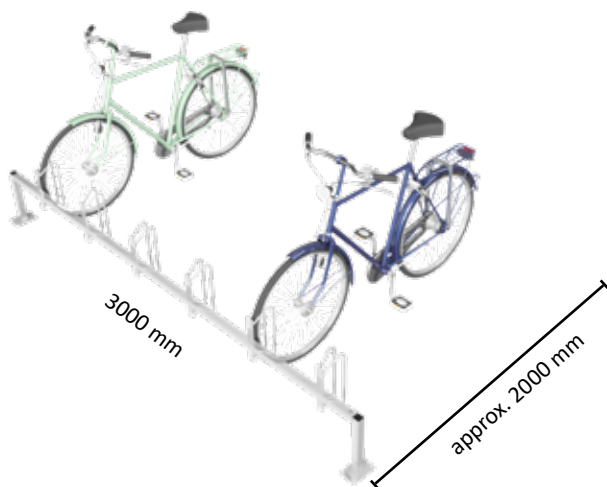
Bicycle rack

Bicycle rack – serial parking

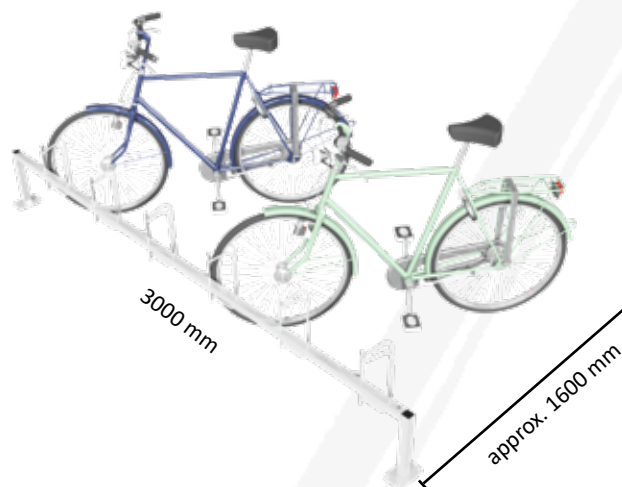
Sturdy and weatherproof

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 °



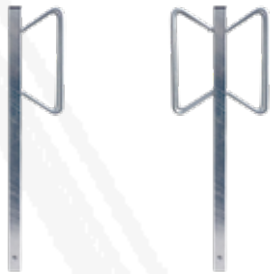
Bicycle positioning 45 °

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
Approx.kg	21.0	21.0	20.0	20.0	18.0	18.0
Part-No.	421.02	421.03	421.04	421.05	421.16	421.17



Individual stands

stand of Ø 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

Approx. kg Part-No.

2.5 421.51
4.0 421.52



Individual stand for plugging down

plugging plate 100 x 150 mm, 4 holes Ø 10 mm

one-side parking
two-side parking

2.5 421.53
4.0 421.54



Individual stand for wall mounting

straight positioning 90°
angled positioning 45°

1.5 421.55
2.5 421.56

Individual stand

stable, easy bicycle rack



Individual stand for casting in concrete

stand of Ø 20 mm round steel,
hot-dip galvanized

height approx. 530 mm above ground

Approx. kg Part-No.
4.0 421.60

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Bicycle lean-on rack

Barrier posts

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



Stainless steel

depth (bicycle positioning 90°): approx. 1500 mm

Barrier elements



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
Approx. kg	41.0	53.5	66.0

Barrier gates

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

Approx. kg **Part-No.**

hot-dip galvanized 38.5 422.30

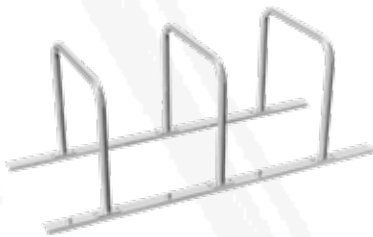
Outdoor equipment



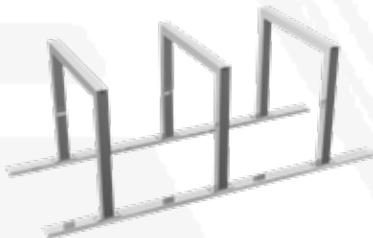
Work site protection

Bicycle parking rack
with guide rails for screwing
on hoops

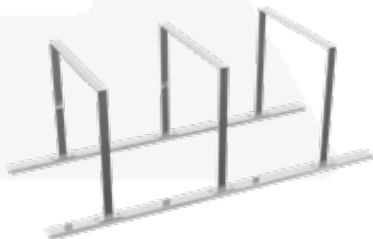
height: 800 mm
hoop spacing: 700 mm
hot-dip galvanized



	2 Bicycles	3 Bicycles	4 Bicycles
Total length:	1400 mm	2100 mm	2800 mm
Hoop of steel tube Ø 48 mm width: 800 mm			
Part-No.	423.20	423.30	423.40
Approx. kg	22.5	34.0	45.0



	2 Bicycles	3 Bicycles	4 Bicycles
Hoop of steel tube 60 x 60 mm width: 800 mm			
Part-No.	424.20	424.30	424.40
Approx. kg	26.5	40.0	53.5



	2 Bicycles	3 Bicycles	4 Bicycles
Hoop of flat steel 50 x 12 mm width: 800 mm			
Part-No.	425.20	425.30	425.40
Approx. kg	32.5	49.0	65.0



	2 Bicycles	3 Bicycles	4 Bicycles
Round hoop of steel tube Ø 48 mm width: 460 mm			
Part-No.	426.20	426.30	426.40
Approx. kg	20.5	30.5	40.5

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts

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



without lockable loading boxes
with 3 lockable loading boxes

Approx.kg
40,0
40,0

Part-No.
424.30BE
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 67 output socket 230V with protective cover.



Single hoop

E-bike lean-on hoop with charging station including IP 67 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 coat



	Approx.kg	Part-No.
without lockable loading box	15,5	454.080PBE
with lockable loading box	15,5	454.080PBEL



Matching accessories for this product:

Plug lock
Part-No.
454S

- Protection against energy theft
- With two keys
- Easy mounting

Bicycle stand

Single parking made of square tube 80x20x2mm height: 800mm width: 95mm with base plate 150x150mm coated in DB 703

	Approx.kg	Part-No.
hot-dip galvanized	7,0	458.95P
coated DB 703	7,0	458.95PB



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts

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 \varnothing 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

Approx.kg	Part-No.
9.0	422.01

Bicycle lean-on hoop
steel tube \varnothing 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

Approx.kg	Part-No.
9.0	422.50
9.0	422.50B

For plugging down, with base plate
 \varnothing 150 mm and three \varnothing 14 mm holes

hot-dip galvanized
hot-dip galvanized and coated DB 703

8.0	422.51
8.0	422.51B

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

	Approx.kg	Part-No.
hot-dip galvanized	12.8	422.60
hot-dip galvanized and coated DB 703	12.8	422.60B



With ball head, for casting in concrete

hot-dip galvanized	13.2	422.61
hot-dip galvanized and coated DB 703	13.2	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	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

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts

Stainless steel

Barrier elements

Barrier gates

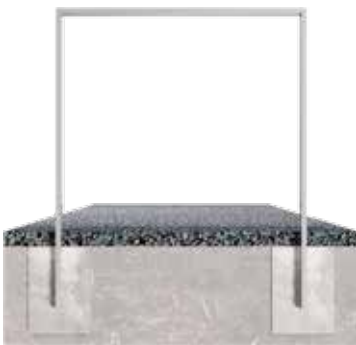
Outdoor equipment

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

Approx.kg

hot-dip galvanized

hot-dip galvanized

and coated DB 703

Part-No.

Part-No.

450 mm

8.5

458.045

458.045B

750 mm

9.5

458.075

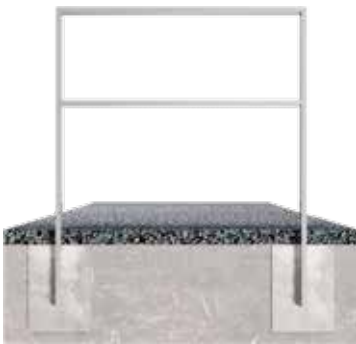
458.075B

1000 mm

10.0

458.100

458.100B



With cross bar

450 mm

10.0

459.045

459.045B

750 mm

11.5

459.075

459.075B

1000 mm

13.0

459.100

459.100B



With cross bar (small distance)

450 mm

10.0

459.145

459.145B

750 mm

11.5

459.175

459.175B

1000 mm

13.0

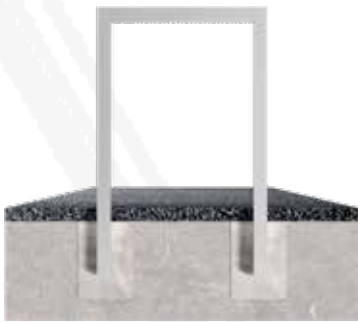
459.110

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

Approx.kg

10.0
11.0
11.5

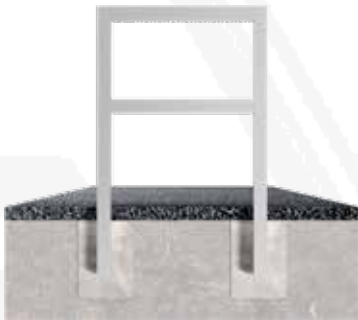
hot-dip galvanized

Part-No.

454.045
454.075
454.100

hot-dip galvanized
and coated DB 703
Part-No.

454.045B
454.075B
454.100B



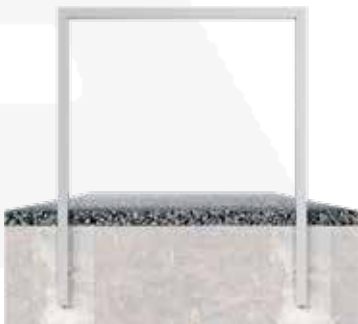
With cross bar

450 mm
750 mm
1000 mm

11.0
13.0
15.0

455.045
455.075
455.100

455.045B
455.075B
455.100B



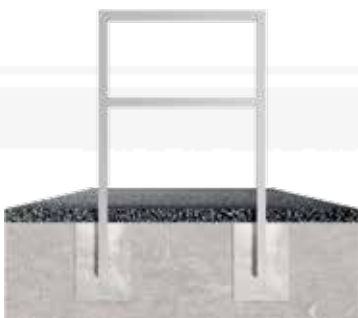
Square tube 60 x 40 mm
Without cross bar

450 mm
750 mm
1000 mm

10.0
11.5
12.5

456.045
456.075
456.100

456.045B
456.075B
456.100B



With cross bar

450 mm
750 mm
1000 mm

12.0
14.0
16.0

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

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts

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	Approx.kg	hot-dip galvanized	Part-No.
450 mm	13.0	450.045	
750 mm	14.5	450.075	
1000 mm	16.0	450.100	

hot-dip galvanized and coated DB 703
Part-No.

450.045B
450.075B
450.100B



With cross bar

450 mm	15.0	451.045
750 mm	18.0	451.075
1000 mm	20.5	451.100

451.045B
451.075B
451.100B



Flat bar steel 80 x 12 mm
Without cross bar

450 mm	21.0	452.045
750 mm	23.5	452.075
1000 mm	25.5	452.100

452.045B
452.075B
452.100B



With cross bar

450 mm	24.5	453.045
750 mm	29.0	453.075
1000 mm	33.0	453.100

453.045B
453.075B
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	Approx.kg
750 mm	14,5
1000 mm	16,0

hot-dip galvanized

Part-No.

4050.075
4050.100

hot-dip galvanized and coated DB 703 Part-No.

4050.075B
4050.100B



With cross bar

750 mm	18,0
1000 mm	20,5

4051.075
4051.100

4051.075B
4051.100B



Flat bar steel 80 x 12 mm Without cross bar

750 mm	23,0
1000 mm	25,0

4052.075
4052.100

4052.075B
4052.100B



With cross bar

750 mm	29,0
1000 mm	33,0

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

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Lean-on hoop

made of flat steel, for casting in concrete, hot-dip galvanized and optionally powder coated DB 703

total height: approx. 1200 mm with flat steel 30 x 5 mm



Flat steel 80x 12 mm
Without cross bar, for casting in concrete

Total width	Approx. kg	hot-dip galvanized	
		Part-No.	hot-dip galvanized and coated DB 703 Part-No.
450 mm	21.0	4152.045	4152.045B
750 mm	23.5	4152.075	4152.075B
1000 mm	25.5	4152.100	4152.100B

Lean-on and blocking car park barriers

steel tube \varnothing 48 x 2.5 mm, on miter-welded



Without cross bar, for casting in concrete		hot-dip galvanized	
Total width	Approx. kg	Part-No.	hot-dip galvanized and coated DB 703 Part-No.
500 mm	8.0	447.09	447.09B
700 mm	8.5	447.11	447.11B
1000 mm	9.5	447.12	447.12B
1200 mm	10.0	447.13	447.13B



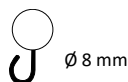
With cross bar, for casting in concrete		hot-dip galvanized	
Total width	Approx. kg	Part-No.	hot-dip galvanized and coated DB 703 Part-No.
500 mm	9.0	447.19	447.19B
700 mm	10.0	447.21	447.21B
1000 mm	13.0	447.22	447.22B
1200 mm	14.0	447.23	447.23B

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 caps



Laundry drying stand Y-shape, made of steel tube \varnothing 60 mm

cross tube with 8 round pins \varnothing 10 x 40 mm
total width: 1500 mm **Approx. kg** **Part-No.**
total height: 2500 mm
with ground anchor, hot-dip galvanized 18.5 419.400

Laundry drying stand T-shape, steel tube \varnothing 60 mm

cross tube with 8 round pins \varnothing 10 x 40 mm
total width: 1500 mm **Approx. kg** **Part-No.**
t-connector, 2-part with bolt M10
total height: 2500 mm
with ground anchor, hot-dip galvanized 14.0 419.450

	Approx. kg	Steel tube \varnothing 48 mm Part-No.	Steel tube \varnothing 60 mm Part-No.
cross tube 2500 mm			
5 hooks, one-sided	23.5	419.4425	419.4625
without hooks	22.0	419.4525	419.4725
cross tube 3000 mm			
6 hooks, one-sided	26.0	419.4430	419.4630
without hooks	23.5	419.4530	419.4730
cross tube 3500 mm			
7 hooks, one-sided	27.5	419.4435	419.4635
without hooks	25.0	419.4535	419.4735
cross tube 4000 mm			
8 hooks, one-sided	29.0	419.4440	419.4640
without hooks	26.5	419.4540	419.4740

Extra charge for additional hooks **Part-No.**

each bent hook, pc. 419.460



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

Approx.kg **Part-No.**

hot-dip galvanized	3.2	4027
fixed to post Ø 60 x 1300 mm	8.2	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	8.5	4029
fixed to post Ø 60 x 1300 mm	13.5	4129

hot-dip galvanized and coated RAL 6005	8.5	4029B
fixed to post Ø 60 x 1300 mm	13.5	4129B



Litter bin approx. 35 l

with bracket and wrench, height 450 mm, Ø 320 mm

hot-dip galvanized	6.0	4030
fixed to post Ø 60 x 1300 mm	9.5	4130

hot-dip galvanized and coated DB 703	6.0	4030B
fixed to post Ø 60 x 1300 mm	9.5	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	9.0	4024
fixed to post Ø 60 x 1300 mm	15.0	4124

hot-dip galvanized and coated DB 703	9.0	4024B
fixed to post Ø 60 x 1300 mm	15.0	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	18.0	4034
hot-dip galvanized and coated DB 703	18.0	4034B

Inside container

for part-no. 4034, Ø 330 mm, height 440 mm

hot-dip galvanized	3.2	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

Approx.kg Part-No.

hot-dip galvanized 15.0 4036
fixed to post Ø 60 x 1300 mm 18.0 4136

hot-dip galvanized and coated RAL 6005 15.0 4036B
fixed to post Ø 60 x 1300 mm 18.0 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 13.5 4035
fixed to post Ø 60 x 1300 mm 18.0 4135

hot-dip galvanized and coated RAL 6005 13.5 4035B
fixed to post Ø 60 x 1300 mm 18.5 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 3.0 4066
fixed to post Ø 60 x 1300 mm 8.0 4166

hot-dip galvanized and coated DB 703 3.0 4066B
fixed to post Ø 60 x 1300 mm 8.0 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 4.5 4067
fixed to post Ø 60 x 1300 mm 9.5 4167

hot-dip galvanized and coated DB 703 4.5 4067B
fixed to post Ø 60 x 1300 mm 9.5 4167B



Square wrench 6 mm

for litter bin part-no. 4027

0.2 4037

Triangular socket wrench 8 mm

0.2 4038

Triangular wrench 8 mm

0.1 4039

„Nice guy“ sticker, black
translucent / black

4021

„Nice guy“ sticker, white
translucent / white

4022

Universal fastening tape (1 unit = 2 pieces)

each bin requires 2 tapes, galvanized

4023



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Planters

Barrier posts

Planters

for more attractive downtown areas, in front of buildings, on parking lots or sidewalks.

Stainless steel

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



Approx.kg

Part-No.

with ball head

55.0

4025.10B

with flat head

55.0

4025.20B

Barrier elements

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



Barrier gates

Approx.kg

Part-No.

67.0

4025.70PB

Outdoor equipment



Work site protection

6. Work site protection



6.1 Barrier posts	160 - 171
6.2 Chain posts / accessories	172 - 173
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6.4 Protective railings	181 - 183
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Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts of steel tube \varnothing 60, 76 mm

Barrier posts

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

Approx.kg

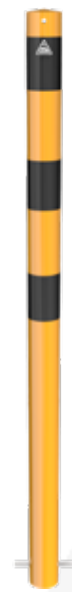
Part-No.



\varnothing 60

4.9

460BG



\varnothing 76

7.0

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

Approx.kg

Part-No.



\varnothing 60

4.0

460PBG



\varnothing 76

5.1

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

Approx.kg

Part-No.



\varnothing 89

8.8

489BG



70 x 70

7.2

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

Approx.kg

Part-No.



\varnothing 89

6.7

489PBG



70 x 70

5.6

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 of steel tube \varnothing 76, 89, 70 x 70 mm

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

Stainless steel



Crash-proof – tiltable!

Barrier elements



Barrier gates



Outdoor equipment

Stationary, sides tiltable
with base plate 220 x 220 mm
for plugging down, without cover

hot-dip galvanized and coated yellow
with three black stripes

Cover \varnothing 200 mm
for barrier post, tiltable



Diameter in mm	\varnothing 76	\varnothing 89	70 x 70 mm
Approx. kg	8.9	10.2	9.5
Part-No.	476NPBG	489NPBG	470NPBG

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

Diameter in mm

\varnothing 76

\varnothing 89

70 x 70 mm

Approx. kg

6.8

8.0

7.2

Part-No.

476APBG

489APBG

470APBG

Set of mounting bolts type 1

Part-No.

470.71



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts



Stainless steel



40151BG

Barrier elements

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

Stationary, for casting in concrete

hot-dip galvanized

Total length in mm	1200	1500	2000
Approx.kg	13.3	16.5	21.9
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.

Barrier gates



40153BG

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

For plugging down, with base plate 220 x 220 mm

hot-dip galvanized

Total length in mm	1000
Approx.kg	13.9
Part-No.	40153

hot-dip galvanized and coated yellow
with three black stripes

Part-No.	40153BG
----------	---------

Outdoor equipment



Also available in white/red, see Barrier posts pages 24 ff

Other color finishes possible;
see page 7



Work site protection



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**

Approx.kg 26.0 32.0
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

Approx.kg 20.1
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**

Approx.kg 23.0
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



Steel tube bollards \varnothing 193 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.



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



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
---------------------------	-------------	-------------	-------------

Approx.kg	20.9	26.0	34.4
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
---------------------------	-------------

Approx.kg	23.6
Part-No.	40193

Part-No.	40193BG
-----------------	---------



Suitable mounting material for this product:
set of mounting bolts type Typ 2

Part-No.
470.72

Further accessories see page 49

Steel tube bollards removable
for temporary detach



40191HBG

Steel tube bollards \varnothing 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**

Approx.kg 38.0 50.0

Part-No. 40191H 40192H

Part-No. 40191HBG 40192HBG

Steel tube bollards \varnothing 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

Approx.kg 27.6

Part-No. 40191F

Part-No. 40191FBG



40191FBG



Also available in white/red, see Barrier posts page 26

Other color finishes possible;
see page 7





Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



40271



40273BG

Steel tube bollards \varnothing 273 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**

Approx.kg 51.1 67.6
Part-No. 40271 40272

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

hot-dip galvanized

hot-dip galvanized and coated yellow
with three black stripes

Total length in mm **1500**

Approx.kg 58.9
Part-No. 40273

Part-No. 40273BG



Suitable mounting material for this product:
set of mounting bolts type Typ 2

Part-No.
470.72

Further accessories see page 49

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

Total length in mm	1500	2000	2400
Approx.kg	20.9	26.0	34.4
Part-No.	40321	40322	40324

hot-dip galvanized and coated yellow
with three black stripes

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

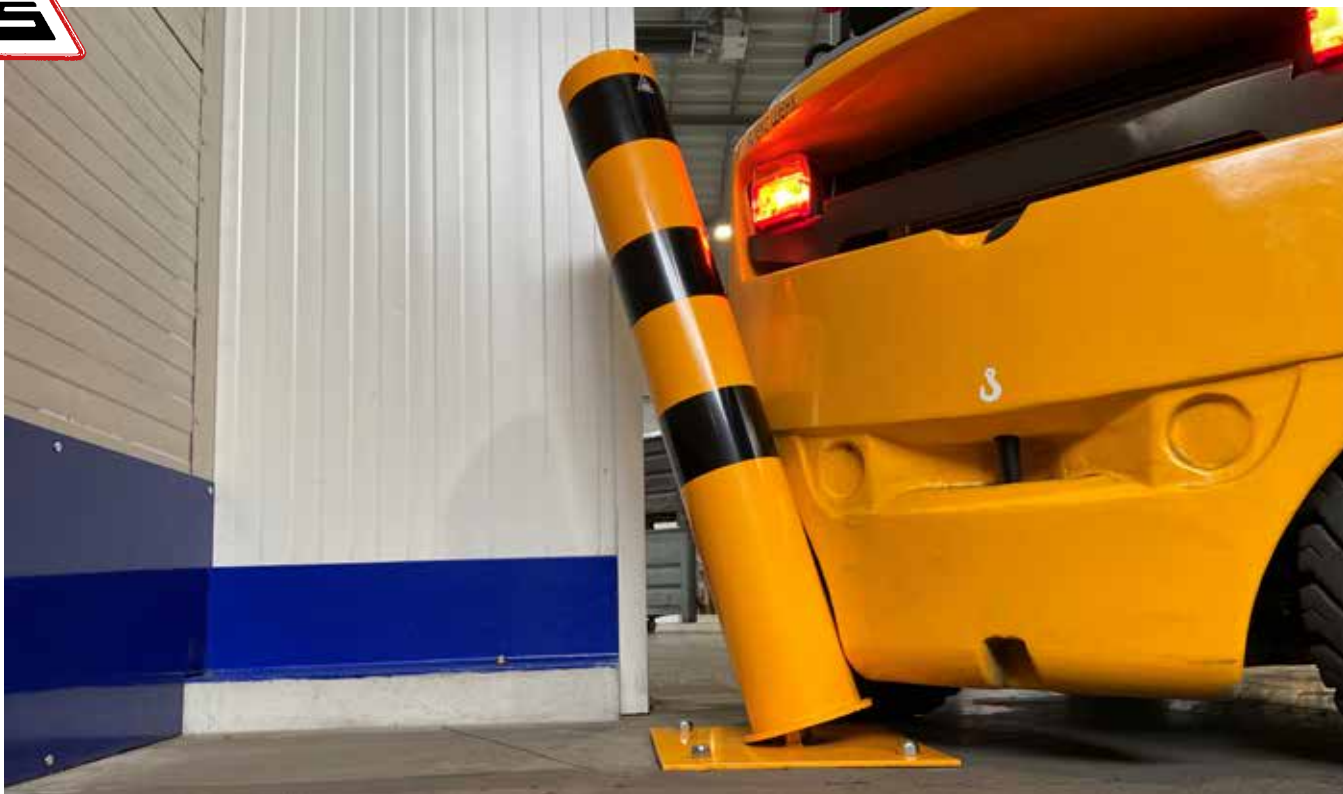
Stainless steel

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**

Approx.kg 30.0 35.3
Part-No. 401530N 401535N

hot-dip galvanized

hot-dip galvanized and coated yellow
with three black stripes

Part-No. 401530NBG 401535NBG



401530NBG



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



Also available in white/red, see Barrier posts page 30

Other color finishes possible; see page 7





Truck entry aid, angled

made of Ø 152,4mm round tube,
total length: approx. 3000 mm,
for plugging down

hot-dip galvanized

left side
right side

Approx.kg

49.0
49.0

Part-No.

40157L
40157R

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

left side
right side

49.0
49.0

40157LB
40157RB

**hot-dip galvanized and yellow coated
with black stripes**

left side
right side

49.0
49.0

40157LBG
40157RBG

Truck entry aid, straight

can also be used as extension element
made of Ø 152,4mm round tube,
total length: approx. 3600 mm,
for plugging down

hot-dip galvanized

Approx.kg

54.0

Part-No.

40157G

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

54.0

40157GB

**hot-dip galvanized and yellow coated
with black stripes**

54.0

40157GBG



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts



Barrier chain of steel, unwelded
wire thickness 6 mm, packing unit 10 m

hot-dip galvanized
galvanized and yellow / black coated

Approx.kg/m	Part-No.
0.6	430.66
0.6	430.67B

Stainless steel



Barrier chain of steel, unwelded
wire thickness 7 mm, packing unit 10 m

hot-dip galvanized
galvanized and yellow / black coated

Approx.kg/m	Part-No.
0.9	430.10
0.9	430.20B

Barrier elements



S hook

galvanized
galvanized and yellow coated
galvanized and black coated

430.11
430.11BG
430.11BS



Connection link

galvanized
galvanized and yellow coated
galvanized and black coated

430.09
430.09BG
430.09BS



Shackle

galvanized
galvanized and yellow coated
galvanized and black coated

430.12
430.12BG
430.12BS

Barrier gates



Plastic barrier chain
packing unit 25 m

6 mm, yellow / black
8 mm, yellow / black

Approx.kg/m	Part-No.
2.0	430.06
2.5	430.30

Outdoor equipment



Plastic connection link

yellow, 6 mm
black, 6 mm

430.07G
430.07S

yellow, 8 mm
black, 8 mm

430.16G
430.16S



Plastic hook link

yellow, 6 mm
black, 6 mm

430.08G
430.08S

yellow, 8 mm
black, 8 mm

430.17G
430.17S

Work site protection



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

Approx.kg **Part-No.**

15.0 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 Ø 40 mm, height 900 mm, with 4 chain holders integrated in the cap

yellow / black

3.0 4040KBS



4041KBS

Plastic chain post

with foot Ø 300 mm filled by customer. Plastic tube Ø 40 mm, height 900 mm, with 4 chain holders integrated in the cap

yellow / black

2.0 4041KBS

Chain post set

version: 6 plastic posts Ø 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 4040KBSSET

with feet Ø 300 mm for filling by customer yellow / black

14.0 4041KBSSET



For indoor and outdoor



Also available in red/white and in white/red; see Barrier posts / barrier chains page 45



Barrier hoop

Safety and protection for danger areas (entrances, ramps, separations, etc.) hot-dip galvanized, powder coated yellow with black warning stripes



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Protective hoop with quarter-bent bar Round steel tube \varnothing 48 x 2.5 mm



Total width	Height above ground	Approx.kg	For casting in concrete Part-No.	For plugging down Part-No.
1000 mm	1000 mm	12.5	448.32BG	448.62BG
1500 mm	1000 mm	15.5	448.33BG	448.63BG
2000 mm	1000 mm	18.5	448.34BG	448.64BG

Protective hoop with quarter-bent bar Round steel tube \varnothing 60 x 2,5 mm



1000 mm	1000 mm	15.5	465.32BG	465.62BG
1500 mm	1000 mm	19.5	465.33BG	465.63BG
2000 mm	1000 mm	23.0	465.34BG	465.64BG



Also available in hot-dip galvanized !
See Barrier elements pages 104

Other color finishes possible;
see page 7



Safety protection especially for ramps



Protective hoop with quarter-bent 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	Approx.kg	Part-No.
700 mm	1000 mm	12.0	448.21W
1000 mm	1000 mm	13.8	448.22W
1200 mm	1000 mm	14.9	448.23W



hot-dip galvanized and coated yellow with black stripes

Total width	Height above ground	Approx.kg	Part-No.
700 mm	1000 mm	12.0	448.21WBG
1000 mm	1000 mm	13.8	448.22WBG
1200 mm	1000 mm	14.9	448.23WBG

Protective hoop with quarter-bent 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	Approx.kg	Part-No.
700 mm	1000 mm	14.9	465.21W
1000 mm	1000 mm	17.1	465.22W
1200 mm	1000 mm	18.5	465.23W



hot-dip galvanized and coated yellow with black stripes

Total width	Height above ground	Approx.kg	Part-No.
700 mm	1000 mm	14.9	465.21WBG
1000 mm	1000 mm	17.1	465.22WBG
1200 mm	1000 mm	18.5	465.23WBG



Barrier hoop \varnothing 76 mm

Effective protection for indoor and outdoor areas, warehouses and production halls. To secure work areas and traffic lanes, protect machines, columns and racks.



Anti-nudge hoop Steel tube \varnothing 76 mm

hot-dip galvanized, powder-coated yellow, with black warning stripes

For casting in concrete



Total width	Height above ground	Approx.kg	Part-No.
400 mm	250 mm	6.5	477.01BG
750 mm	250 mm	8.0	477.02BG
1000 mm	250 mm	9.5	477.03BG
400 mm	650 mm	11.0	477.04BG
750 mm	650 mm	13.0	477.05BG
1000 mm	650 mm	14.0	477.06BG
400 mm	1150 mm	14.5	477.07BG
750 mm	1150 mm	16.0	477.08BG
1000 mm	1150 mm	17.5	477.09BG



For plugging down



400 mm	250 mm	4.0	477.01PBG
750 mm	250 mm	6.0	477.02PBG
1000 mm	250 mm	7.0	477.03PBG
400 mm	650 mm	8.0	477.04PBG
750 mm	650 mm	10.0	477.05PBG
1000 mm	650 mm	11.0	477.06PBG
400 mm	1150 mm	12.5	477.07PBG
750 mm	1150 mm	14.5	477.08PBG
1000 mm	1150 mm	15.5	477.09PBG



Also available in hot-dip galvanized !
See Barrier elements pages 111

Other color finishes possible;
see page 7



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

flexible
tiltable



For plugging down

Total width	Height above ground	Approx.kg	Part-No.
400 mm	650 mm	12.0	477.04NPBG
750 mm	650 mm	15.0	477.05NPBG
1000 mm	650 mm	17.0	477.06NPBG
400 mm	1150 mm	12.0	477.07NPBG
750 mm	1150 mm	15.0	477.08NPBG
1000 mm	1150 mm	17.0	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

Removable



For plugging down

400 mm	650 mm	12.0	477.04APBG
750 mm	650 mm	15.0	477.05APBG
1000 mm	650 mm	17.0	477.06APBG
400 mm	1150 mm	12.0	477.07APBG
750 mm	1150 mm	15.0	477.08APBG
1000 mm	1150 mm	17.0	477.09APBG



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Anti-nudge hoops \varnothing 76 mm

Barrier posts

Anti-nudge hoop 90°
equal-sided
Steel tube \varnothing 76 mm
hot-dip galvanized and coated
yellow with black stripes



Stainless steel

Stationary, for casting in concrete



Total width	Height above ground	Approx.kg	Part-No.
350 mm	650 mm	19.0	477.30BG
350 mm	1150 mm	25.0	477.31BG
600 mm	650 mm	22.0	477.60BG
600 mm	1150 mm	27.5	477.61BG

Barrier elements

For plugging down

350 mm	650 mm	13.5	477.30PBG
350 mm	1150 mm	21.0	477.31PBG
600 mm	650 mm	16.0	477.60PBG
600 mm	1150 mm	24.0	477.61PBG

Barrier gates

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	Approx.kg	Part-No.
750 mm	450 mm	650 mm	28.5	477.68BG
750 mm	450 mm	1150 mm	36.0	477.69BG
1000 mm	450 mm	650 mm	30.0	477.70BG
1000 mm	450 mm	1150 mm	37.5	477.71BG

Outdoor equipment

For plugging down



750 mm	450 mm	650 mm	21.0	477.68PBG
750 mm	450 mm	1150 mm	31.5	477.69PBG
1000 mm	450 mm	650 mm	22.0	477.70PBG
1000 mm	450 mm	1150 mm	32.5	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	Approx.kg	Part-No.
Stationary, for casting in concrete				
One side, right				
600 mm	350 mm	650 mm	13.5	477.76BG
600 mm	350 mm	1150 mm	17.0	477.77BG

For plugging down				
One side, right				
600 mm	350 mm	650 mm	10.0	477.76PBG
600 mm	350 mm	1150 mm	15.0	477.77PBG



Stationary, for casting in concrete				
One side, left				
600 mm	350 mm	650 mm	13.5	477.78BG
600 mm	350 mm	1150 mm	17.0	477.79BG

For plugging down				
One side, left				
600 mm	350 mm	650 mm	10.0	477.78PBG
600 mm	350 mm	1150 mm	15.0	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	Approx.kg	Part-No.
Stationary, for casting in concrete				
750 mm	450 mm	650 mm	17.0	477.72BG
1000 mm	450 mm	650 mm	18.0	477.73BG
750 mm	450 mm	1150 mm	20.0	477.74BG
1000 mm	450 mm	1150 mm	21.0	477.75BG

For plugging down				
750 mm	450 mm	650 mm	13.0	477.72PBG
1000 mm	450 mm	650 mm	14.0	477.73PBG
750 mm	450 mm	1150 mm	18.0	477.74PBG
1000 mm	450 mm	1150 mm	19.0	477.75PBG



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Crash guard

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	Approx.kg	Part-No.
600 mm	600 mm	650 mm	19.0	465.066PBG
800 mm	800 mm	800 mm	24.0	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

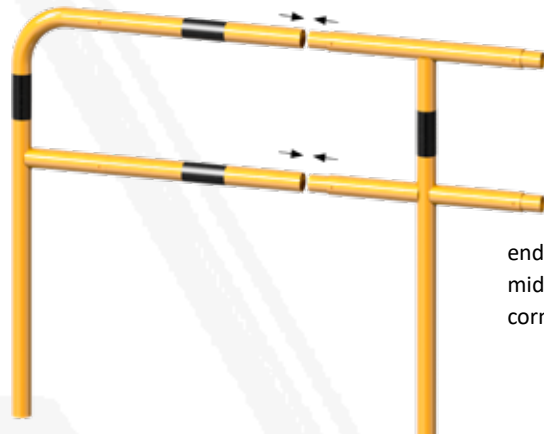
Total width	Height above ground	Approx.kg	Part-No.
750 mm	650 mm	17.0	477.32BG
1000 mm	650 mm	21.0	477.33BG

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



	Approx.kg	Part-No.
end post	5.0	448.80PBG
middle post	7.0	448.81PBG
corner post	7.0	448.815PBG

Cross bar

Steel tube Ø 48 mm

hot-dip galvanized, powder-coated yellow, with black warning stripes



Tube length	Grid site	Approx.kg	Part-No.
500 mm	1000 mm	1.5	448.42BG
1000 mm	1500 mm	3.0	448.43BG
1500 mm	2000 mm	4.5	448.44BG



Also available in hot-dip galvanized and white / red !
See Barrier elements pages 121

Other color finishes possible;
see page 7





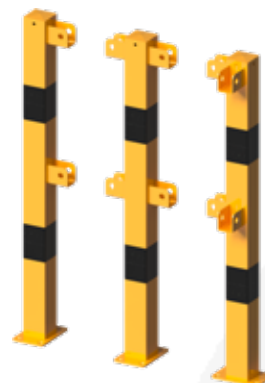
Protective railing

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°.



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



Fixed post for plugging down

Steel tube 70 x 70 mm with base plate 100 x 150 mm

Approx.kg

hot-dip galvanized and coated yellow with black stripes
Part-No.

end post for top and knee bar	6.5	4270PBG
middle post for top and knee bar	7.0	4271PBG
corner post for top and knee bar 90°	7.0	4273PBG

Cross bar

steel tube 60 x 40 mm, hot-dip galvanized, coated yellow with black warning stripes, incl. fastening bolts

Tube length	Approx.kg	Part-No.
800 mm	3.0	4208BG
1300 mm	5.0	4213BG
1800 mm	7.0	4218BG
2300 mm	8.5	4223BG



Gate element

for laying in fixed post made of steel tube 60 x 40 mm incl. fastening material

Element size	Approx.kg	Part-No.
1300 mm	16.0	4225BG



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 120

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

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



Barrier posts

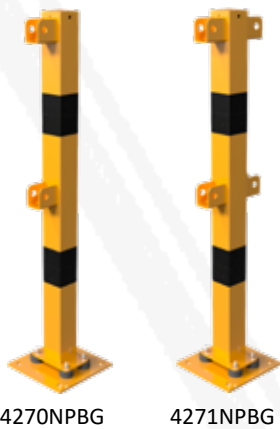
Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

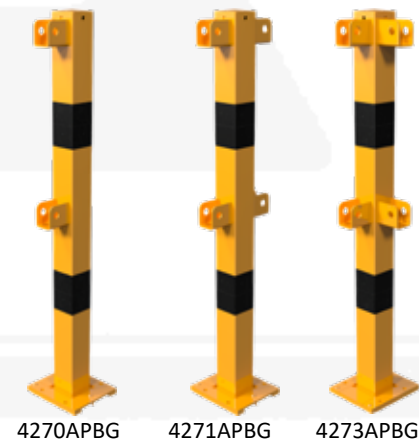
Work site protection



	Approx.kg	Part-No.
end post for top and knee bar	9.5	4270NPBG
middle post for top and knee bar	10.0	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



	Approx.kg	Part-No.
end post for top and knee bar	9.5	4270APBG
middle post for top and knee bar	10.0	4271APBG
corner post for top and knee bar 90°	10.0	4273APBG



Cross bar
steel tube 60 x 40 mm, incl. fastening bolts
see page 182



Crash guard

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°

Approx.kg	Part-No.
6.0	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



Approx.kg	Part-No.
3.0	477.84B
5.5	477.85B
10.5	477.86B
15.5	477.87B



Suitable fastening material for this product:
Set of mounting bolts type 1

Part-No.
470.71



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



Approx.kg

7.0
14.0
20.5

Part-No.

477.90B
477.96B
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



height 400 mm

10.0

477.91B



Height restriction barriers

Barrier posts

Secures driveways, halls with a restricted height, underpasses etc.



Stainless steel

Barrier

of aluminium tube
height: 100 mm, with protective caps,
yellow coated with black stripes,
incl. 2 x 1.00 m steel chain

Barrier elements



	Length	Approx.kg	Part-No.
Marking film one-sided	2000 mm	3.5	4117.20BG
	3000 mm	5.0	4117.30BG
	4000 mm	6.0	4117.40BG
	5000 mm	7.0	4117.50BG
	6000 mm	8.5	4117.60BG
Marking film both-sided	2000 mm	3.5	4217.20BG
	3000 mm	5.0	4217.30BG
	4000 mm	6.0	4217.40BG
	5000 mm	7.0	4217.50BG
	6000 mm	8.5	4217.60BG

Barrier gates

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

Outdoor equipment

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



Approx.kg
Part-No.

1.3
4317RBG

1.3
4317LBG



These products are also available in white/red;
see barrier elements page 119

Work site protection

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	Approx.kg	Part-No.
400 mm	150 mm	7.0	477.44BG
800 mm	150 mm	14.0	477.45BG
1000mm	150 mm	18.0	477.46BG
1200 mm	150 mm	22.0	477.47BG
1500 mm	150 mm	28.0	477.48BG

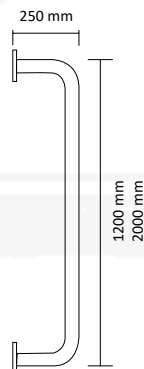
Safety handles

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	Approx.kg	Part-No.
1200 mm	250 mm	5.5	477.801BG
2000 mm	250 mm	8.0	477.802BG



Articles are manufactured by order.



Anti-nudge bar

Secures transportation routes.
Stops and protects.

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



Total width	Height above ground	Approx.kg	Part-No.
400 mm	86 mm	3.5	477.40BG
800 mm	86 mm	5.0	477.41BG
1000 mm	86 mm	6.0	477.42BG
1200 mm	86 mm	7.0	477.43BG

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

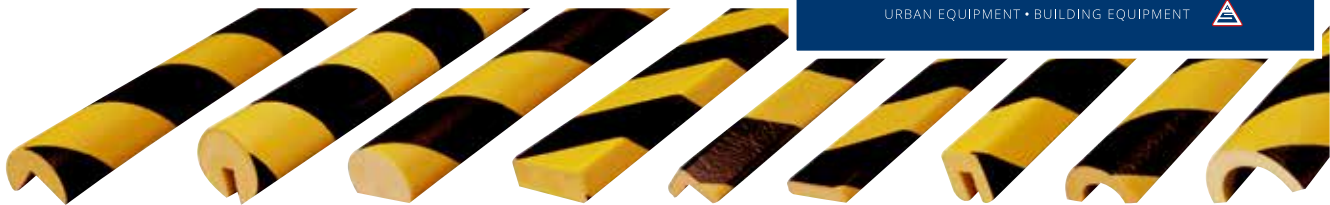


Total width	Height above ground	Approx.kg	Part-No.
700 x 700 mm	86 mm	8.5	477.50BG

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	Approx.kg	Part-No.
400 mm	115 mm	3.0	477.34BG
1000 mm	115 mm	5.0	477.35BG
1500 mm	115 mm	7.0	477.36BG
2000 mm	115 mm	9.0	477.37BG



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).

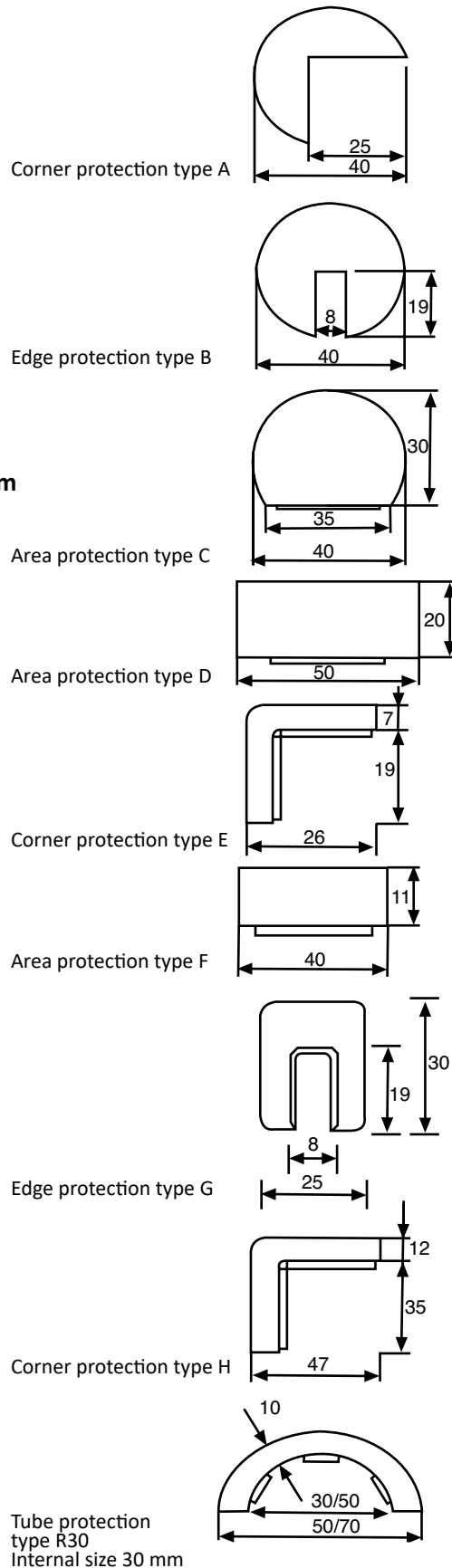
The flexible warning and protection profiles have a yellow / black warning pattern to warn of dangers at edges, projections and obstacles. At the same time they absorb impacts and thereby avoid injury and prevent damage due to run-up.

Warning and protection profiles yellow / black – 1000 mm / 5000 mm

Article	Part-No. 1000 mm	Part-No. 5000 mm
Typ A	4110	4510
Typ B	4111	4511
Typ C	4112	4512
Typ D	4113	4513
Typ E	4115	4515
Typ F	4116	4516
Typ G	4119	4519
Typ H	4120	4520
Typ R30	4117	
Typ R50	4114	

Corner protections for black warning and protection profiles

Article	Part-No.
Type A 2-dimensional	410810
Type A 3-dimensional	410811
Type E 2-dimensional	410812
Type E 3-dimensional	410813



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



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



We will support you from the first idea to the finished product



An overview of product solutions which we manufacture individually for you



Barrier post

lockable with padlock incl. ground socket with hinge lid

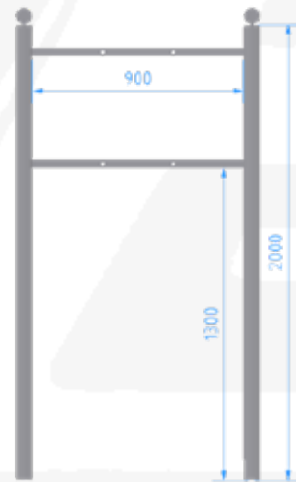
Bollard

with predetermined breaking point



Ornamental bollards

in your own design



Sign frame

for industry or communs tailored to your requirements

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Gate-barrier



Barrier posts

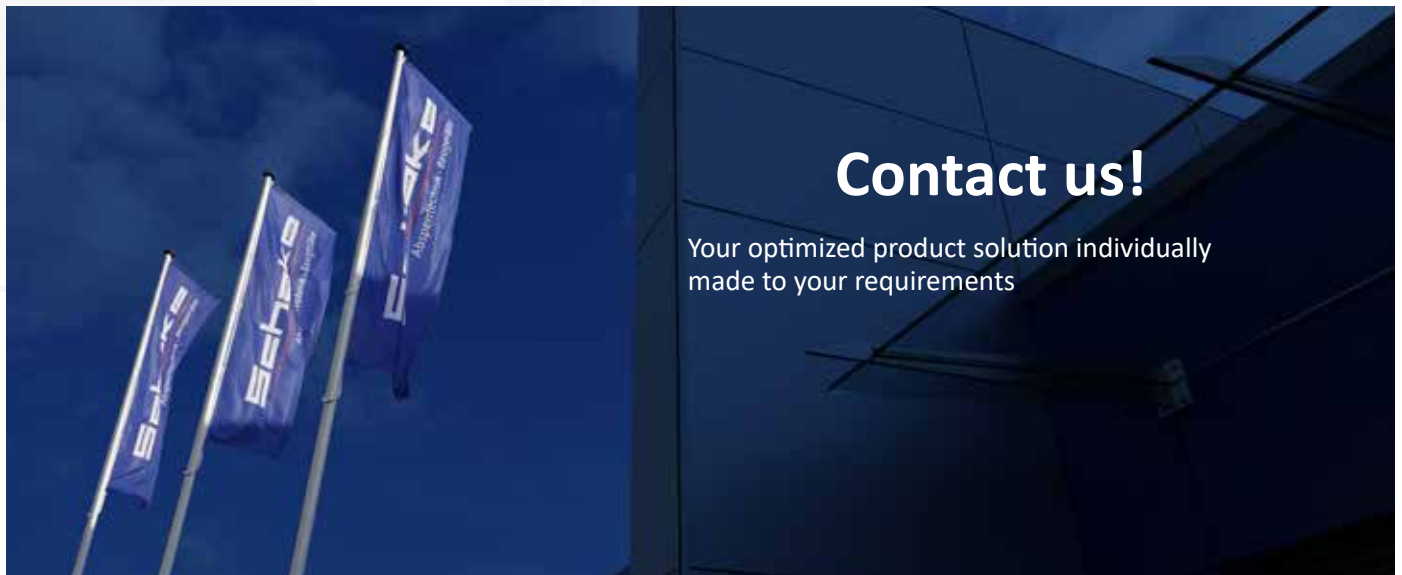
Stainless steel

Bicycle lean-on hoop



Barrier elements

Barrier gates



Outdoor equipment

Work site protection



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Sample posts type 4702

1. Ornamental bollard of round steel tube \varnothing 89 mm
type 40189F, removable, with triangular lock
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 470FBOH, removable with triangular lock
4. Barrier post of steel tube \varnothing 60 mm
type 460FBOH, removable with triangular lock
5. Barrier post of steel tube 70 x 70 mm
type 470FUB, foldable with triangular lock
6. Ornamental bollard of aluminium
type 490B, stationary for casting in concrete
7. Car park barrier
type 472Z, foldable with Euro profile cylinder lock, to be fixed by plugs

Selling box type 4707



- | | |
|--|----------|
| 1. Barrier posts steel tube 70 x 70 mm
type 470FB, removable, with triangular locking system | 3 pieces |
| 2. Barrier posts steel tube 70 x 70 mm
type 470FUHB, foldable, with triangular locking system | 1 piece |
| 3. Barrier posts steel tube 70 x 70 mm
type 470UZHB, foldable, with Euro profile cylinder lock | 1 piece |
| 4. Barrier posts steel tube 70 x 70 mm
type 470B, for casting in concrete | 1 piece |
| 5. Barrier posts steel tube \varnothing 60 mm
type 460B, stationary, for casting in concrete | 3 pieces |
| 6. Barrier posts steel tube \varnothing 60 mm
type 460B/2, stationary, for casting in concrete, 2 eyelets | 3 pieces |
| 7. Car-park barrier
type 40771, foldable, with round cylinder | 1 piece |



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