





Barrier posts - pages 123 - 176

- Barrier posts
- Chain posts
- Flexible plastic posts
- Car-park barriers
- Ornamental bollard
- Recycling bollards
- Accessories / sign posts



Barrier posts

Stainless steel - pages 177 - 184

- Stainless steel barrier posts
- Stainless steel bollards
- Stainless steel car park barriers
- Stainless steel railing systems



Stainless steel

Barrier elements - pages 185 - 204

- Tubular hoops
- Access barriers
- Height restriction barriers
- Barriers / railing systems



Barrier elements

Barrier poles - pages 205 -214

- Swing barriers
- Access barriers
- Manual barriers



Barrier poles

Outdoor equipment - pages 215 - 228

- Bicycle stands / lean-on hoops
- Laundry drying stands
- Tree guards
- Litter bins
- Planters



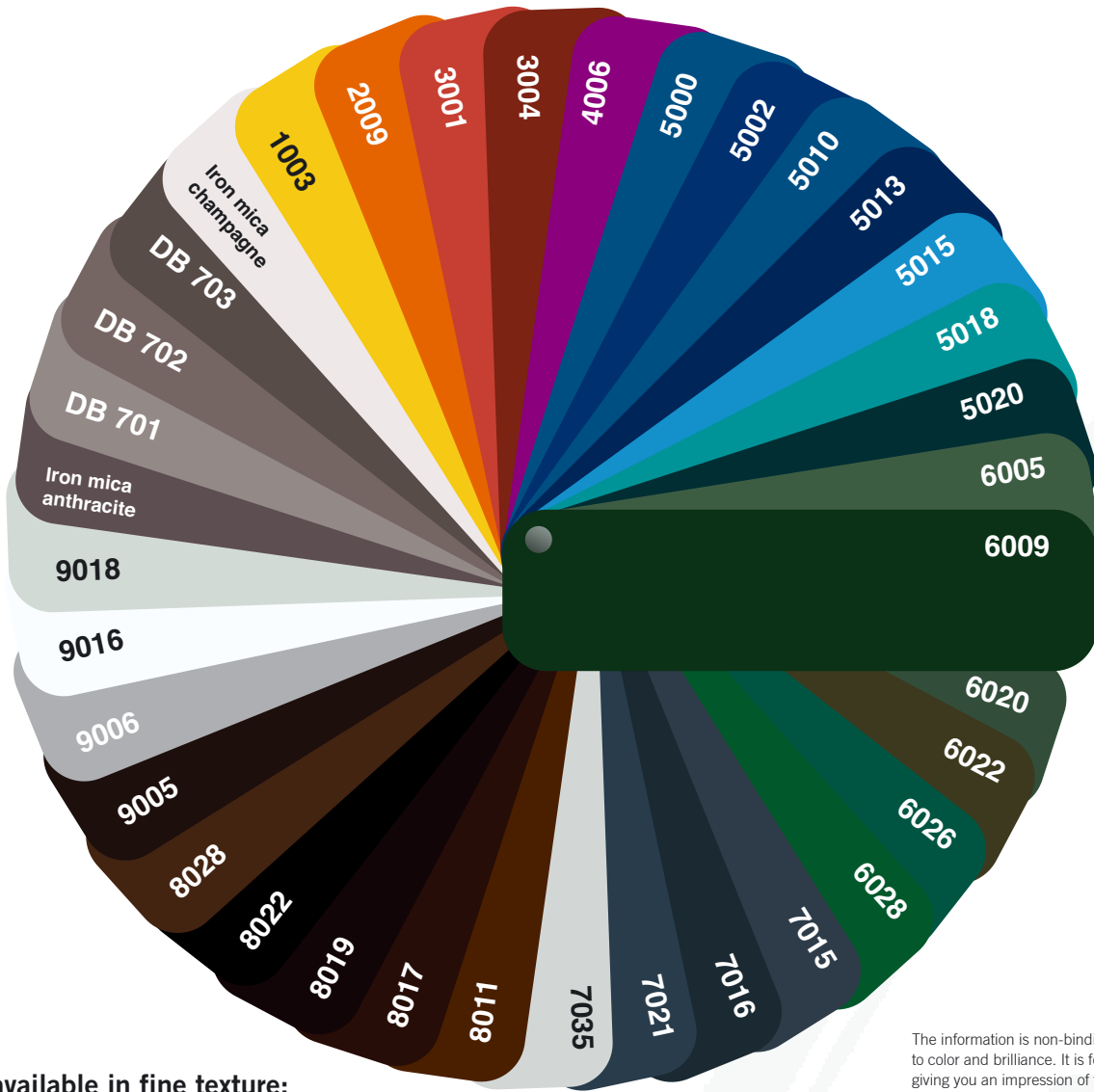
Outdoor equipment

Works protection - pages 229 - 244

- Barrier posts
- Car park barriers
- Crash guards
- Railing systems
- Chain posts / accessories
- Warning and protection profiles



Works protection



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.

Extra charge for special coatings from the above color range

(other color finishes than specified under part-no.) up to 10 units for posts, bollards, etc.

The following extra charges are made for color finishes not part of our color.



	Part-No.
Plastic film, reflecting red 110 x 285 mm	430.18
Plastic film, reflecting 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
Plastic film, reflecting red 110 x 330 mm	430.182R
Plastic film, reflecting red 110 x 350 mm	430.183R
Plastic film, reflecting red 110 x 500 mm	430.184R
Plastic film, reflecting black 110 x 500 mm	430.184S
Plastic film, reflecting red 150 x 250 mm	430.185R
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



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Barrier posts

Stainless steel

Barrier elements

Barrier poles

Outdoor equipment

Works protection



Eyelets

Ø inside 20 mm, outside 35 mm

welded to Ø 60 mm barrier post 460B/2



Triangular lock

acc. with DIN 3223

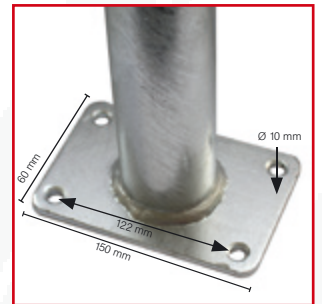
to Ø 60 mm barrier post 460FB



Euro profile cylinder lock

with 3 keys, German proprietary brand

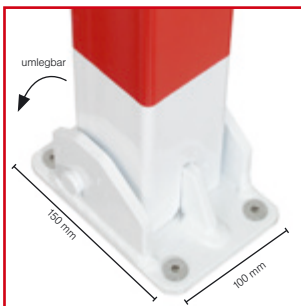
installed in Ø 60 mm barrier post 460ZB



Base plate

for plugging or bolting to ground socket

Hole pitch: 70 x 122 mm



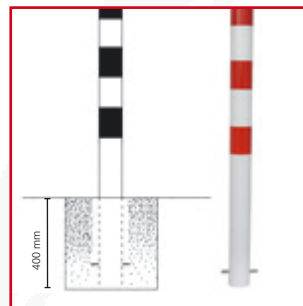
Hinged base plate

solid, corrosion-protected, hot-dip galvanized, with Ø 16 mm thick hinge pin and sturdy tear-proof mounting bracket



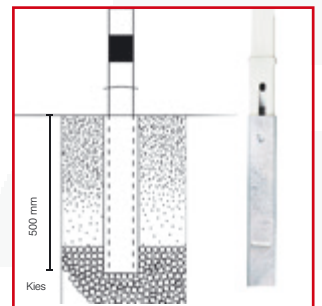
Ground socket

Bolts to any base plate. Hole pitch: 70 x 122 mm, Part-No. 470.60 Foundation: approx. 250 x 250 mm



Foundation

approx. 250 x 250 mm



Foundation

approx. 250 x 250 mm. Always pay attention to adequate drainage for removable posts (provide gravel fill). Do not install in standing water.

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. with DIN 3223
- F = Fire brigade triangular lock acc. with DIN 3223
- H = Ground socket
- P = Ground anchor plate for plugging down
- U = Folding
- V = Prepared for padlock
- Z = Euro profile cylinder lock
- +1 = 1 eyelet +2 = 2 eyelets



Special designs on request. Design, appearance and function may change as design revisions take place. All dimensions are approximate. We are not responsible for printing mistakes.



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

Barrier posts

Steel tube Ø 42 x 2.5 mm
with plastic cap 900 mm above ground

Stationary, for casting in concrete

Total length: 1300 mm

hot-dip galvanized

approx.kg	Part-No.
without eyelet 2.3	4042
with 2 eyelets 2.5	4042/2

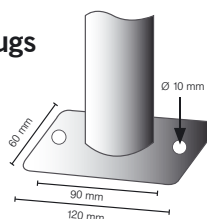
hot-dip galvanized and white coated with red reflecting stripes

without eyelet 2.3	4042B
with 2 eyelets 2.5	4042B/2

Stationary, to be fixed by plugs

with base plate 60 x 120 mm and two holes for bolts

hot-dip galvanized



without eyelet 2.0	4042P
with 2 eyelets 2.0	4042P/2

hot-dip galvanized and white coated with red reflecting stripes

without eyelet 2.0	4042PB
with 2 eyelets 2.0	4042PB/2

Stationary, drive-in

with drive-in tip
Total length: 1300 mm

hot-dip galvanized

without eyelet 2.5	4042E
with 2 eyelets 2.5	4042E/2

hot-dip galvanized and white coated with red reflecting stripes

without eyelet 2.5	4042EB
with 2 eyelets 2.5	4042EB/2

Drive-in rod

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

hot-dip galvanized

3.5	4043
-----	------

for sign posting car parks with sign board 110 x 520 mm

hot-dip galvanized

4.0	4044
-----	------





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

Stationary, for casting in concrete

with ground anchor
Total length: 1300 mm

hot-dip galvanized

approx.kg Part-No.

without eyelet	4.5	460
with 1 eyelet	4.5	460/1
with 2 eyelets	4.5	460/2

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

without eyelet	4.5	460B
with 1 eyelet	4.5	460B/1
with 2 eyelets	4.5	460B/2

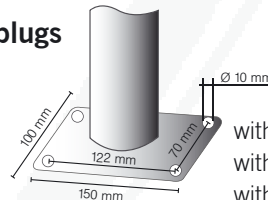


460B/2

Stationary, to be fixed by plugs

with base plate 100 x 150 mm

hot-dip galvanized



without eyelet	4.5	460P
with 1 eyelet	4.5	460P/1
with 2 eyelets	4.5	460P/2

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

without eyelet	4.5	460PB
with 1 eyelet	4.5	460PB/1
with 2 eyelets	4.5	460PB/2



460PB

Fire brigade guide posts Stationary, for casting in concrete

with ground anchor
Total length: 900 mm

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

3.5 4061B



4061B



Other lengths on request.



Barrier posts

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



460HB



460VB



460UVB

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	7.0	460H
with 1 eyelet	7.0	460H/1
with 2 eyelets	7.0	460H/2

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

without eyelet	7.0	460HB
with 1 eyelet	7.0	460HB/1
with 2 eyelets	7.0	460HB/2

removable, for padlock

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

hot-dip galvanized

without eyelet	7.5	460V
with 1 eyelet	7.5	460V/1
with 2 eyelets	7.5	460V/2

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

without eyelet	7.5	460VB
with 1 eyelet	7.5	460VB/1
with 2 eyelets	7.5	460VB/2

foldable, for padlock

self-engaging lock

to be fixed by plugs

with base plate 100 x 150 mm

hot-dip galvanized

5.0 460UV

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

5.0 460UVB

for casting in concrete

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

hot-dip galvanized

7.0 460UVH

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

7.0 460UVHB



Barrier posts

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



Removable, with triangular locking mechanism

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

hot-dip galvanized

	approx.kg	Part-No.
without eyelet	7.0	460F
with 1 eyelet	7.0	460F/1
with 2 eyelets	7.0	460F/2

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

without eyelet	7.0	460FB
with 1 eyelet	7.0	460FB/1
with 2 eyelets	7.0	460FB/2



*The sturdy locking mechanism and easy handling
create a fast opening barrier.*



460FB



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

7.0 460Z

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

7.0 460ZB

Separate ground socket

1.5 460.40

Cover with spring-action locking mechanism

1.0 460.21

Triangular wrench acc. white DIN 3223

0.2 470.50

**Universal triangular wrench acc. white DIN 3223
also for opening the cover**

0.4 470.40



460ZB

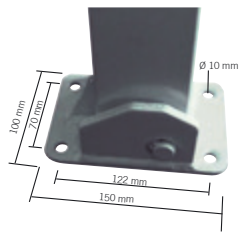


For further accessories, see pages 170-172.



Barrier posts

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



460FUB



Foldable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock

to be fixed by plugs

with base plate 100 x 150 mm

hot-dip galvanized

approx.kg

6.5

Part-No.

460FU

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

6.5

460FUB

for casting in concrete

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

hot-dip galvanized

8.5

460FUH

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

8.5

460FUHB

*Barrier post also available with eyelets – add the following to the article number:
+1 for one eyelet or +2 for two eyelets; see page 172.*



460UZB



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

6.5

460UZ

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

6.5

460UZB

for casting in concrete

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

hot-dip galvanized

8.5

460UZH

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

8.5

460UZHB

*The posts can also be supplied for simultaneous locking or as master key system.
Other accessories also see pages 170-172.
Other color finishes on request; see page 122.*



Barrier posts

Stainless steel

Barrier elements

Barrier poles

Outdoor equipment

Works protection



Barrier posts

Steel tube Ø 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

hot-dip galvanized

without eyelet	6.0	476P
with 1 eyelet	6.0	476P/1
with 2 eyelets	6.0	476P/2

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

without eyelet	6.0	476PB
with 1 eyelet	6.0	476PB/1
with 2 eyelets	6.0	476PB/2



4076PB

Stationary, can be tilted 30° to all sides

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

hot-dip galvanized

6.5 4076P

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

6.5 4076PB

Removable, with triangular locking mechanism

acc. with 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



476FB



All posts are also available in plain white. Barrier posts also available with eyelets; add the following to the part-no.: +1 for one eyelet or +2 for two eyelets; see page 172. Other color finishes on request; see page 122.



476FUB

Barrier posts

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

Foldable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock

to be fixed by plugs

with base plate 100 x 150 mm

hot-dip galvanized

7.0

476FU

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

7.0

476FUB

for casting in concrete

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

hot-dip galvanized

9.5

476FUH

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

9.5

476FUHB



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

7.5

476UZ

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

7.5

476UZB

for casting in concrete

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

hot-dip galvanized

9.5

476UZH

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

9.75

476UZH B



476UZB



476ZB

Removable, with Euro profile cylinder lock

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

hot-dip galvanized

12.0

476Z

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

12.5

476ZB



Barrier posts also available with eyelets; add the following to the part-no.: +1 for one eyelet or +2 for two eyelets; see 172.

The posts can also be supplied for simultaneous locking or as master key system.

Other accessories also see pages 170-171. Other color finishes on request; see page 122.





Barrier posts

Steel tube Ø 89 (Ø 102, Ø 108) x 2,9 mm
with welded steel cap
900 mm above ground



489B



491B



493FB

Stationary, for casting in concrete

with ground anchor
Total length: approx. 1300 mm

hot-dip galvanized

Diameter in mm	Ø 89	Ø 102	Ø 108
approx.kg	7.5	10.0	11.0
Part-No.	489	491	493

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

approx.kg	7.5	10.0	11.0
Part-No.	489B	491B	493B

Removable, with triangular locking mechanism

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

hot-dip galvanized

Diameter in mm	Ø 89	Ø 102	Ø 108
approx.kg	13.0	13.5	14.0
Part-No.	489F	491F	493F

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

approx.kg	13.0	13.5	14.0
Part-No.	489FB	491FB	493FB





Steel tube bollards removable

for temporary removable
1000 mm above ground



Steel tube bollards \varnothing 152 x 3.2 mm thick, removable without locking mechanism

with welded steel cap, including ground socket part-no. 40151.10



hot-dip galvanized

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

Total length in mm	1500	2000
approx.kg	26.0	32.0
Part-No.	40151H	40152H

Part-No.	40151HB	40152HB
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Steel tube bollards \varnothing 152 x 3.2 mm thick, removable with triangular lock

with welded steel cap, including ground socket part-no. 470.10



40151FB

hot-dip galvanized

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

Total length in mm	1500
approx.kg	26.0
Part-No.	40151F

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

Steel tube bollard \varnothing 193 x 3.6 mm thick, removable without locking mechanism

with welded steel cap, including ground socket part-no. 40191.10



40191HB

hot-dip galvanized

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

Total length in mm	1500	2000
approx.kg	38.0	50.0
Part-No.	40191H	40192H

Part-No.	40191HB	40192HB
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Also available in yellow / black, see page 234. Other lengths on request.

Bollards are manufactured to order. Orders cannot be cancelled, bollards cannot be returned.

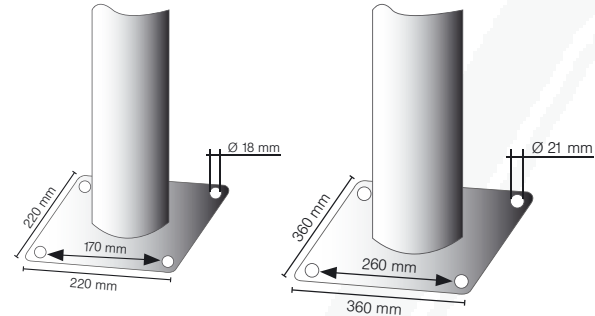


40153B

40151B

40191

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.



Set of mounting bolts, see page 173.

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

hot-dip galvanized

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

Stationary, for casting in concrete

	1200	1500	2000	1000
Total length in mm	1200	1500	2000	1000
approx.kg	15.0	17.0	23.0	14.0
Part-No.	40150	40151	40152	40153
Part-No.	40150B	40151B	40152B	40153B

for plugging down
with base plate
220 x 220 mm

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

hot-dip galvanized

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

Stationary, for casting in concrete

	1200	1500	2000	1000
Total length in mm	1200	1500	2000	1000
approx.kg	25.0	28.0	40.0	25.0
Part-No.	40190	40191	40192	40193
Part-No.	40190B	40191B	40192B	40193B

for plugging down
with base plate
360 x 360 mm

Steel cap for bolting

Replaces welded steel cap



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

Extra charge:

Steel cap with concrete anchor

Replaces welded steel cap



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

Extra charge:



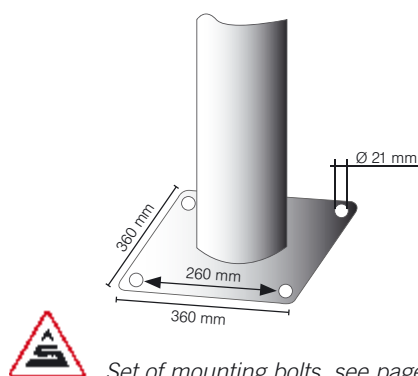
Also available in yellow / black, see page 232. Other lengths on request. Bollards are manufactured to order. Orders cannot be cancelled, bollards cannot be returned.



40273B



40271



Set of mounting bolts, see page 173.

for plugging down
with base plate
360 x 360 mm

Steel tube bollards \varnothing 273 x 5 mm thick
with welded steel cap

Stationary, for casting in concrete

hot-dip galvanized

Total length in mm	1500	2000	1500
approx.kg	50.0	68.0	60.0
Part-No.	40271	40272	40273

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

Part-No.	40271B	40272B	40273B
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Steel cap with concrete anchor

Replaces welded steel cap



Add letter **A** to the Part-No.
Extra charge:





470B

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

Stationary, for casting in concrete

with ground anchor
Total length: 1300 mm

hot-dip galvanized

	approx.kg	Part-No.
without eyelet	7.0	470
with 1 eyelet	7.0	470/1
with 2 eyelets	7.0	470/2

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

without eyelet	7.0	470B
with 1 eyelet	7.0	470B/1
with 2 eyelets	7.0	470B/2



470PB

Stationary, to be fixed by plugs

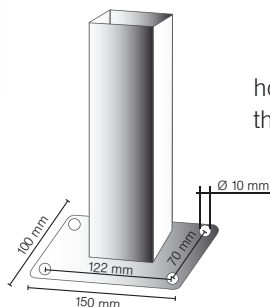
with base plate 100 x 150 mm

hot-dip galvanized

without eyelet	6.0	470P
with 1 eyelet	6.0	470P/1
with 2 eyelets	6.0	470P/2

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

without eyelet	6.0	470PB
with 1 eyelet	6.0	470PB/1
with 2 eyelets	6.0	470PB/2



Other lengths and colors available on request; see page 122.



This post is ideal for barricading off places, entrances, street and pedestrian areas, etc.

The sturdy, maintenance-free triangular locking mechanism acc. with 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



Triangular locking mechanism

acc. with DIN 3223

Removable, with triangular locking mechanism

acc. with 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	12.0	470F
with 1 eyelet	12.0	470F/1
with 2 eyelets	12.0	470F/2

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

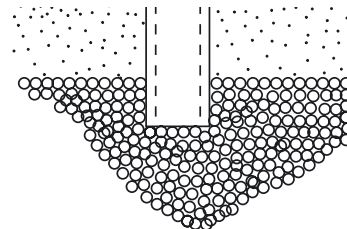
without eyelet	12.0	470FB
with 1 eyelet	12.0	470FB/1
with 2 eyelets	12.0	470FB/2



470FB



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



Separate ground socket

for safe deposition of the removed post

3.0 470.10

Cover

with spring-loaded locking mechanism for ground socket

1.2 470.21



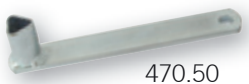
470.10

470.21

Triangular wrench

acc. with DIN 3223

0.2 470.50

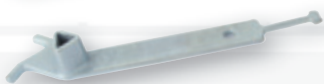


470.50

Multipurpose wrench

acc. with DIN 3223, also for opening the cover

0.4 470.40



470.40



For further accessories, see pages 170-172.



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



Triangular locking mechanism

acc. with DIN 3223

Foldable, with triangular locking mechanism

acc. with DIN 3223, with leaf spring, self-engaging lock

to be fixed by plugs

with base plate 100 x 150 mm

hot-dip galvanized

approx.kg Part-No.

9.0 470FU

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

9.0 470FUB

for casting in concrete

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

hot-dip galvanized

11.0 470FUH

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

11.0 470FUHB



470FUB



470.60

Foldable, with triangular locking mechanism

acc. with DIN 3223, with lifting and tilting mechanism, with leaf spring, self-engaging lock including ground socket



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

approx.kg Part-No.

hot-dip galvanized

11.0 470FUKH

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

11.0 470FUKHB



Lifting and tilting mechanism



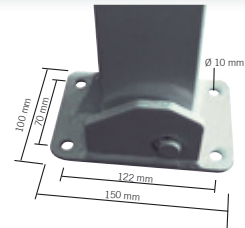
470FUKHB



For further accessories, see pages 170-172.



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

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

approx.kg Part-No.

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

11.0

470UZH

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

11.0

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

12.0

470Z

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

12.0

470ZB

470UZB



470.60



470ZB



The posts can also be supplied for simultaneous locking or as master key system; see page 172.

Barrier posts

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



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



Removable, with triangular locking mechanism

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

approx.kg **Part-No.**

hot-dip galvanized	12.5	470D
hot-dip galvanized and white coated with three red reflecting stripes	12.5	470DB

Foldable, with triangular locking mechanism

acc. with DIN 3223, top inside, self-engaging lock

to be fixed by plugs

with base plate 100 x 150 mm

hot-dip galvanized	9.0	470UD
hot-dip galvanized and white coated with three red reflecting stripes	9.0	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

Foldable, for padlock

self-engaging lock

to be fixed by plugs

with base plate 100 x 150 mm

hot-dip galvanized	9.0	470UV
hot-dip galvanized and white coated with three red reflecting stripes	9.0	470UVB

for casting in concrete

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

hot-dip galvanized	11.0	470UVH
hot-dip galvanized and white coated with three red reflecting stripes	11.0	470UVHB



470DB



470UDB



470UVB



A foldable barrier post that can be locked/unlocked without key or lock.



Barrier posts

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



These barrier posts can be opened both with a Euro profile cylinder key and a triangular wrench that conforms with DIN 3232. This ensures that the fire brigade and rescue services have access at any time.



470FZB



470FUZB



4701FUZHB

Removable, with Euro profile cylinder lock

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

	approx.kg	Part-No.
hot-dip galvanized	12.0	470FZ
hot-dip galvanized and white coated with three red reflecting stripes	12.0	470FZB

Foldable, with Euro profile cylinder lock

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

to be fixed by plugs

with base plate 100 x 150 mm

hot-dip galvanized	9.0	470FUZ
hot-dip galvanized and white coated with three red reflecting stripes	9.0	470FUZB

for casting in concrete

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

hot-dip galvanized	11.0	470FUZH
hot-dip galvanized and white coated with three red reflecting stripes	11.0	470FUZHB

Foldable and removable

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

hot-dip galvanized	12.0	4701FUH
with triangular locking mechanism	12.0	4701UZH
with Euro profile cylinder lock	12.0	4701FUZH
with triangular and Euro profile cylinder lock	12.0	4701FUZHB
hot-dip galvanized and white coated with three red reflecting stripes	12.0	4701FUHB
with triangular locking mechanism	12.0	4701UZHB
with Euro profile cylinder lock	12.0	4701FUZHB
with triangular and Euro profile cylinder lock	12.0	4701FUZHB

Multipurpose wrench

470.40



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).



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.

**With
8 mm triangular lock**



4039

Barrier posts

Steel tube 70 x 70 mm
900 mm above ground

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 three white reflecting stripes

approx.kg Part-No.

9.0 470UN

9.0 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 three white reflecting stripes

11.0 470UNH

11.0 470UNHB

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 three white reflecting stripes

12.0 470N

12.0 470NB



470UNB



470NB

Barrier posts

Steel tube 70 x 70 mm
500 mm above ground

Foldable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock

to be fixed by plugs

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

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

6.0 4715FU

6.0 4715FUB

Foldable, with Euro profile cylinder lock

with three keys, self-engaging lock

to be fixed by plugs

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

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

6.0 4715UZ

6.0 4715UZB



4715FUB



4715UZB



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



Stationary, for casting in concrete

with ground anchor
Total length: 1250 mm

approx.kg Part-No.

hot-dip galvanized	13.0	40100
hot-dip galvanized and white coated with red reflecting stripes	13.0	40100B

Stationary, to be fixed by plugs

with base plate 200 x 200 mm

hot-dip galvanized	11.0	40100P
hot-dip galvanized and white coated with red reflecting stripes	11.0	40100PB

Removable, with triangular locking mechanism

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

hot-dip galvanized	16.0	40100F
hot-dip galvanized and white coated with three red reflecting stripes	16.0	40100FB

Barrier posts

Steel tube 70 x 70 mm
900 mm above ground



Fully retractable, with triangular lock

acc. with DIN 3223, ground socket 80 x 80 x 3 mm
Total length: approx. 1100 mm

hot-dip galvanized with white / red reflecting stripes	16.5	470DL
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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	16.5	470ZL
--	------	-------



As with all removable posts, here also, attention should always be given to adequate drainage (gravel fill). Dirt entered should be removed without delay. Do not install in standing water.

470ZL

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, with base plate 100 x 150 mm

or for mounting to ground socket part-no. 470.60

approx.kg

Part-No.



hot-dip galvanized

without eyelet 6.5

4711P

hot-dip galvanized for serial systems (center post)

with 1 eyelet 6.5

4711P+1

hot-dip galvanized and white coated with red reflecting stripes

without eyelet 6.5

4711PB

hot-dip galvanized and white coated with three red reflecting stripes for serial systems (center post)

with 1 eyelet 6.5

4711PB+1

End post without lock

hot-dip galvanized

with 1 eyelet 6.0

470P/1

hot-dip galvanized and white coated with red reflecting stripes

with 1 eyelet 6.0

470PB/1

Ground socket for casting in concrete

(order together with the end post if you want to cast the post in concrete)

2.5

470.60



470PB/1



470.60



4711PB

4711PB+1

470PB/1





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.



460KB

Chain post, handy design

of Ø 60 mm steel tube with welded steel cap and eyelets for fixing the chain, height approx. 900 mm
Hot-dip galvanized and coated white 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 Ø 40 mm, height: 900 mm, with 4 chain holders integrated in the cap

white / red

3.0

4040KB



4041KB

Plastic chain post

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

white / red

2.0

4041KB



4040KBSET

Chain post set

Version: 6 plastic posts Ø 40 mm. With 4 chain holders integrated in the cap, 10 m plastic chain, 10 links

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

20.0

4040KBSET

Chain post set

With foot Ø 300 mm for filling by customer, otherwise same as part-no. 4040KBSET

white / red

14.0

4041KBSET

For indoor and outdoor installation



Also available in yellow / black; see page 242.
Barrier chains see pages 170-171.

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	1.48
Part-No.	412211

Height in mm	750
approx.kg	1.32
Part-No.	412212

Height in mm	450
approx.kg	0.93
Part-No.	412214

Height in mm	300
approx.kg	0.69
Part-No.	412215



Flexipost white
with red reflecting stripes

Height in mm	1000
approx.kg	1.48
Part-No.	412221

Height in mm	750
approx.kg	1.32
Part-No.	412222

Height in mm	450
approx.kg	0.93
Part-No.	412224

Height in mm	300
approx.kg	0.69
Part-No.	412225



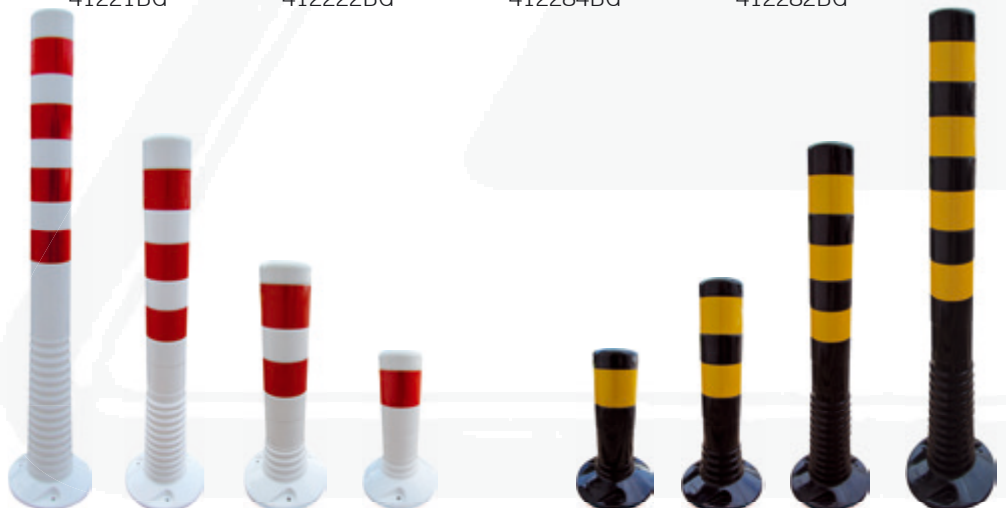
Flexipost black
with yellow stripes

Height in mm	1000
approx.kg	1.48
Part-No.	41221BG

Height in mm	750
approx.kg	1.32
Part-No.	41222BG

Height in mm	450
approx.kg	0.93
Part-No.	412284BG

Height in mm	300
approx.kg	0.69
Part-No.	412282BG



Larger quantities on request.



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 © bollards Ø 60 mm

Bollards of plastic tube 900 mm above ground



approx.kg Part-No.

with ground plate for plugging

white with red reflecting stripes	2.5	4260B
yellow with black stripes	2.5	4260BG

with ground socket type for casting in concrete

white with red reflecting stripes	2.5	4260HB
yellow with black stripes	2.5	4260HBG

Separate ground socket

of steel, hot-dip galvanized, length 400 mm	2.0	4S470.60MH
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If you want to take the post out or drive over it or no barrier is needed, use the quick release plate. The post can then be removed easily and quickly.

with ground plate for plugging Quick Release

for quick removal of the KICKBACK © bollards

white with red reflecting stripes	2.5	4261B
yellow with black stripes	2.5	4261BG

Latching pin

for Quick Release base plate	0.5	470.426
------------------------------	-----	---------

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





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



Flexible!

Crash-proof!



40215UZB

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

approx.kg Part-No.

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

9.0 40215UZB

Crash-proof car-park barrier

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



40220UZB

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 three white reflecting stripes

11.0 40220UZB



470.60

Ground socket

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

2.5 470.60



Passage and car-park barriers

Square tube 70 x 70 mm with lateral round tube hoops
Total width approx. 800 mm above ground 900 mm



471ZB 470.10

Removable, with triangular locking mechanism

acc. with DIN 3223, with ground socket part-no. 470.10, approx. 500 mm below ground

hot-dip galvanized, with red reflecting stripes

approx.kg

14.5

Part-No.

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

14.5

471Z

hot-dip galvanized and white coated with red reflecting stripes

14.5

471ZB

Separate ground socket

for casting in concrete

3.0

470.10



It is advisable to install a second ground socket (outside the site behind the barrier) to provide a safe place for the post that is taken out where it automatically snaps into place without key and from which it cannot be stolen.



471UZ

Foldable, with triangular locking mechanism

acc. with 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

11.5

471FU

hot-dip galvanized and white coated with red reflecting stripes

11.5

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

11.5

471UZ

hot-dip galvanized and white coated with red reflecting stripes

11.5

471UZB

Ground socket

for casting in concrete

2.5

470.60

order together with the barrier if you want to cast the barrier in concrete



470.60



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



Car-park barrier, foldable

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



Foldable, with Euro profile cylinder lock

three keys, self-engaging lock

to be fixed by plugs

approx.kg

Part-No.

hot-dip galvanized with red reflecting stripes
including fastening material

9.0

40660



40660

Car-park barrier

Square tube 70 x 70 mm
with lateral round tube hoops
Total width approx. 800 mm
above ground 500 mm

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

9.5

4709UZ

hot-dip galvanized and white coated with
reflecting stripes

9.5

4709UZB



4709UZB

Foldable, with triangular locking mechanism

acc. with 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

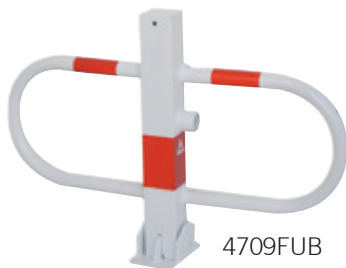
9.5

4709FU

hot-dip galvanized and white coated with
reflecting stripes

9.5

4709FUB



4709FUB



470.60

Ground socket

for casting in concrete

2.5

470.60

order together with the barrier if you want to cast the barrier in concrete



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



Foldable, with round cylinder

three keys, self-engaging lock

approx.kg

Part-No.

to be fixed by plugs

with base plate 100 x 150 mm

hot-dip galvanized with red reflecting stripes

9.0

40770

hot-dip galvanized and white coated with
red reflecting stripes

9.0

40770B

for casting in concrete

with welded-on ground anchor,
approx. 300 mm below ground

hot-dip galvanized with red reflecting stripes

9.5

40771

hot-dip galvanized and white coated with
red reflecting stripes

9.5

40771B

Foldable, with 8 mm triangular lock

white 8 mm triangular wrench

to be fixed by plugs

with base plate 100 x 150 mm

hot-dip galvanized with red reflecting stripes

9.0

40772

hot-dip galvanized and white coated with
red reflecting stripes

9.0

40772B

for casting in concrete

with welded-on ground anchor,
approx. 300 mm below ground

hot-dip galvanized with red reflecting stripes

9.5

40773

hot-dip galvanized and white coated with
red reflecting stripes

9.5

40773B

Handy triangular wrench 8 mm

for barrier post, car-park barriers, galvanized

4039



40770



40772B



With
8 mm triangular lock



4039





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

Keeps your parking space free – prevents car parking between lots. Protects from theft and illegal parking.



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

to be fixed by plugs

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

5.5

472Z



472A

1 set (3 piece) anchors for casting in concrete

472A



472ZP

Foldable, with Euro profile cylinder lock

three keys and continuous base plate, self-engaging lock, locking and unlocking outside the dirt zone

to be fixed by plugs

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

5.5

472ZP



Works protection

Outdoor equipment

Barrier poles

Barrier elements

Stainless steel

Barrier posts



traditional



Ø 60 mm
Series 465



Ø 76 mm
Series 475



Ø 76 mm
Series 477



Ø 89 mm
Series 488



Ø 102 mm
Series 494



Ø 96/168 mm
Series 40168

modern & timeless



70 x 70 mm
Series 4071



70 x 70 mm
Series 4073



Ø 76 mm
Series 4074



Ø 120 mm
Series 40120



Ø 108 mm
Series 497



Ø 154 mm
Series 40155

ancient & special designs



70 x 70 mm
Series 473



Ø 60 / 110 mm
Series 490



Ø 72 / 160 mm
Series 495



Ø 82 mm
Series 40180

Barrier posts

Stainless steel

Barrier elements

Barrier poles

Outdoor equipment

Works protection



The ornamental bollard series Ø 60 mm

A light-weight but very stylish version of our ornamental bollards. Barrier ornamental bollard of round steel tube Ø 60 mm, approx. 950 mm above ground, hot-dip galvanized and coated anthracite grey (RAL 7016).



465B
Special color finish



466FB



468B

	approx.kg	Part-No.	Part-No.	Part-No.
Stationary, for casting in concrete				
with ground anchor, total length approx. 1400 mm	5.5	465B	466B	468B
Stationary, to be fixed by plugs				
with base plate 100 x 150 mm	5.5	465PB	466PB	468PB
Removable, with triangular locking mechanism				
acc. with DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 460.40 approx. 500 mm below ground	7.5	465FB	466FB	468FB
Foldable, with triangular locking mechanism				
acc. with DIN 3223, self-engaging lock, to be fixed by plugs , with base plate 100 x 150 mm	7.0	465FUB	466FUB	468FUB
Foldable, with triangular locking mechanism				
acc. with DIN 3223, self-engaging lock, for casting in concrete , ground socket part-no. 470.60, approx. 400 mm below ground	9.0	465FUHB	466FUHB	468FUHB
Removable, with Euro profile cylinder lock				
three keys, self-engaging lock, with hot-dip galvanized ground socket part-no. 460.40, approx. 400 mm below ground	7.5	465ZB		
Foldable, with Euro profile cylinder lock				
three keys, self-engaging lock, to be fixed by plugs , with base plate	7.0	465UZB		
Foldable, with Euro profile cylinder lock				
three keys, self-engaging lock, for casting in concrete , ground socket part-no. 470.60, approx. 400 mm below ground	9.0	465UZHB		



Other color finishes, see page 122.



Ornamental bollard of steel tube Ø 76 mm

approx. 950 mm above ground, hot-dip galvanized and coated anthracite-grey (RAL 7016)



474FB



475FB



477FB

	approx.kg	Part-No.	Part-No.	Part-No.
Stationary, for casting in concrete				
with ground anchor, total length approx. 1300 mm	7.5	474B	475B	477B
Stationary, to be fixed by plugs				
with base plate 100 x 150 mm	6.0	474PB	475PB	477PB
Removable, with triangular locking mechanism				
acc. with DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 476.40 approx. 400 mm below ground	12.0	474FB	475FB	477FB
Foldable, with triangular locking mechanism				
acc. with DIN 3223, self-engaging lock, to be fixed by plugs , with base plate 100 x 150 mm	8.0	474FUB	475FUB	477FUB
Foldable, with triangular locking mechanism				
acc. with DIN 3223, self-engaging lock, for casting in concrete , with hot-dip galvanized ground socket part-no. 470.60, approx. 400 mm below ground	10.5	474FUHB	475FUHB	477FUHB
Removable, with Euro profile cylinder lock				
three keys, self-engaging lock, with hot-dip galvanized ground socket part-no. 476.40 approx. 400 mm below ground	12.0	474ZB		477ZB
Foldable, with Euro profile cylinder lock				
three keys, self-engaging lock, to be fixed by plugs , with base plate 100 x 150 mm	8.0	474UZB		477UZB
Foldable, with Euro profile cylinder lock				
three keys, self-engaging lock, for casting in concrete , ground socket part-no. 470.60, approx. 400 mm below ground	10.5	474UZHB		477UZHB



Also available with eyelets. Add the following to the part-no.: +1 for one eyelet or +2 for two eyelets; see page 172.
All bollards only available galvanized.

Barrier posts
Stainless steel
Barrier elements
Barrier poles
Outdoor equipment
Works protection



Ornamental bollard of steel tube \varnothing 76 mm

approx. 950 mm above ground, hot-dip galvanized and coated anthracite-grey (RAL 7016)



478B



479FB

Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

approx.kg Part-No.

7.5 478B

Part-No.

479B

Stationary, to be fixed by plugs

with base plate 100 x 150 mm

6.0 478PB

479PB

Removable, with triangular locking mechanism

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

12.0 478FB

479FB

Foldable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock,
to be fixed by plugs, with base plate 100 x 150 mm

8.0 478FUB

479FUB

Foldable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock,
for casting in concrete, with hot-dip galvanized ground
socket part-no. 470.60, approx. 400 mm below ground

10.5 478FUHB

479FUHB



Also available with eyelets. Add the following to the part-no.: +1 for one eyelet or +2 for two eyelets; see page 172.

Ornamental bollard of steel tube Ø 82 mm

approx. 800 mm above ground, hot-dip galvanized and coated anthracite grey (RAL 7016)



480FB



481B

Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

approx.kg Part-No.

9.5 480B

Part-No.

481B

Stationary, to be fixed by plugs

with base plate 100 x 150 mm

7.0 480PB

481PB

Removable, with triangular locking mechanism

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

13.0 480FB

481FB

Foldable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock, to be fixed by plugs, with base plate 100 x 150 mm

10.0 480FUB

481FUB

Foldable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock, for casting in concrete, with hot-dip galvanized ground socket part-no. 470.60, approx. 400 mm below ground

12.5 480FUHB

481FUHB

Removable, with Euro profile cylinder lock

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

13.0 480ZB

Foldable, with Euro profile cylinder lock

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

10.0 480UZB

Foldable, with Euro profile cylinder lock

three keys, self-engaging lock, for casting in concrete, ground socket part-no. 470.60, approx. 400 mm below ground

12.5 480UZHB





Ornamental bollard of round steel tube Ø 82 mm

approx. 900 mm above ground, hot-dip galvanized and coated, color:

Series 482: DB703

Series 484 / 485: RAL 9005 matt (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	10.0	482B	484B	485B
Stationary, to be fixed by plugs				
with base plate 100 x 150 mm	7.5	482PB	484PB	485PB
Removable, with triangular locking mechanism				
acc. with DIN 3223, self-engaging lock, including ground rosette, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground	13.5	482FB	484FB	485FB
Foldable, with triangular locking mechanism				
acc. with DIN 3223, self-engaging lock, to be fixed by plugs, with base plate 100 x 150 mm	10.5	482FUB	484FUB	485FUB
Foldable, with triangular locking mechanism				
acc. with DIN 3223, self-engaging lock, for casting in concrete, with hot-dip galvanized ground socket part-no. 470.60, approx. 400 mm below ground	13.0	482FUHB	484FUHB	485FUHB
Removable, with Euro profile cylinder lock				
three keys, self-engaging lock, including ground rosette, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground	13.5	482ZB	484ZB	485ZB
Foldable, with Euro profile cylinder lock				
three keys, self-engaging lock, to be fixed by plugs, with base plate 100 x 150 mm	10.5	482UZH	484UZH	485UZH
Foldable, with Euro profile cylinder lock				
three keys, self-engaging lock, for casting in concrete, ground socket part-no. 470.60, approx. 400 mm below ground	13.0	482UZH	484UZH	485UZH



Other color finishes, see page 122. Also available with eyelets. Add the following to the part-no.: +1 for one eyelet or +2 for two eyelets. Ground rosette see page 172.



Ornamental bollard of steel tube Ø 89 mm

approx. 950 mm above ground, hot-dip galvanized and coated anthracite grey (RAL 7016)



487B

Special color finish
RAL 4006



488B

Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm **approx.kg** 8.0

Part-No.

487B

Part-No.

488B

Removable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock,
with hot-dip galvanized ground socket part-no. 470.10 13.5

487FB

488FB

Ornamental bollard of steel tube Ø 102 mm

approx. 950 mm above ground, hot-dip galvanized and coated anthracite grey (RAL 7016)



492B



494B



496B

Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm **approx.kg** 9.0

Part-No.

492B

Part-No.

494B

Part-No.

496B

Removable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock,
with hot-dip galvanized ground socket part-no. 470.10 15.0

492FB

494FB

496FB



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



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)



40102FB

	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	8.0	40102PB
Removable, with triangular locking mechanism		
acc. with DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground	13.5	40102FB

Ornamental bollard of steel tube

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



40168FB

	approx.kg	Part-No.
Stationary, for casting in concrete		
with ground anchor, total length approx. 1050 mm	10.0	40168B
Stationary, to be fixed by plugs		
with base plate 220 x 220 mm	10.0	40168PB
Removable, with triangular locking mechanism		
acc. with DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground	16.0	40168FB

Ornamental bollard of square steel tube 70 x 70 mm

with flat head, approx. 900 mm above ground,
hot-dip galvanized and DB 703 coated

with flat head!

	approx.kg	Part-No.
Stationary, for casting in concrete with ground anchor, total length approx. 1300 mm	9.0	4071B
Stationary, to be fixed by plugs with base plate 100 x 150 mm	7.5	4071PB
Removable, with triangular locking mechanism acc. with DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground	14.0	4071FB

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

with flat bar steel top

Stationary, for casting in concrete with ground anchor, total length approx. 1300 mm	9.0	4073B
Stationary, to be fixed by plugs with base plate 100 x 150 mm	7.5	4073PB
Removable, with triangular locking mechanism acc. with DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground	14.0	4073FB



Other color finishes, see page 122.



Ornamental bollard with flat head, steel tube Ø 76 mm

with flat head, 900 mm above ground,
hot-dip galvanized and DB 703 coated

with flat head!



	approx.kg	Part-No.
Stationary, for casting in concrete with ground anchor, total length approx. 1400 mm	7.5	4074B
Stationary, to be fixed by plugs with base plate 100 x 150 mm	6.0	4074PB
Removable, with triangular locking mechanism acc. with DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 476.40, approx. 400 mm below ground	12.0	4074FB

Ornamental bollard of square steel tube 100 x 100 mm

with flat head, approx. 900 mm above ground,
hot-dip galvanized and DB 703 coated.

with flat head!



Stationary, for casting in concrete with ground anchor, total length approx. 1200 mm	13.0	4075B
Stationary, to be fixed by plugs with base plate 200 x 200 mm	11.0	4075PB
Removable, with triangular locking mechanism acc. with DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground	16.0	4075FB



Other color finishes, see page 122.

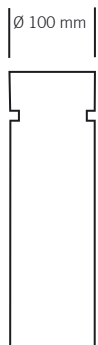


Representative and sophisticated in design, this bollard demonstrates true greatness.



Bollard of thick-walled aluminium Ø 100 mm

8 mm wall thickness, with decorative groove, anthracite grey RAL 7016, bottom part of hot-dip galvanized steel tube, approx. 900 mm above ground



Stationary, for casting in concrete

with ground anchor, total length approx. 1200 mm

approx.kg

Part-No.

7.0 40101B

Stationary, to be fixed by plugs

with base plate Ø 180 mm

6.5 40101PB

Removable, with triangular locking mechanism

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

10.0 40101FB

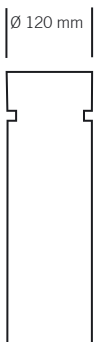
40101B

40120B

40121FB

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



Stationary, for casting in concrete

with ground anchor

Height above ground 750 mm
total length approx. 1050 mm
approx.kg Part-No.

9.5 40120B

Height above ground 900 mm
total length approx. 1200 mm
approx.kg Part-No.

10.0 40121B

Stationary, to be fixed by plugs

with base plate Ø 180 mm

6.5 40120PB

9.5 40121PB

Removable, with triangular locking mechanism

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

9.0 40120FB

13.0 40121FB



Other color finishes, see page 122.



Thanks to its sturdiness, which is in no way clumsy in appearance, this ornamental bollard certainly has a reason to be.

Here too we find the tried and tested mechanics that is typical of all our ornamental bollards.

Ornamental bollard

Round steel tube Ø 108 mm, with decorative rings, approx. 950 mm above ground, hot-dip galvanized and coated anthracite grey (RAL 7016)



Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

approx.kg Part-No.

11.0 497B

497FB
Special color finish
RAL 5015

Removable, with triangular locking mechanism

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

17.0 497FB

A particularly effective and massive ornamental bollard.



40140FB/2



40155B

Ornamental bollard of steel tube Ø 140 mm with aluminium globe and chain eyelets

approx. 950 mm above ground, hot-dip galvanized and anthracite grey (metallic grey), powder-coated

Ornamental bollard of steel tube Ø 150 mm with aluminium head and decorative ring

approx. 950 mm above ground, hot-dip galvanized and anthracite grey (metallic grey), powder-coated

Stationary, for casting in concrete

with ground anchor, total length approx. 1400 mm

approx.kg Part-No.
12.0 40140B/2

Part-No.
40155B

Removable, with triangular locking mechanism

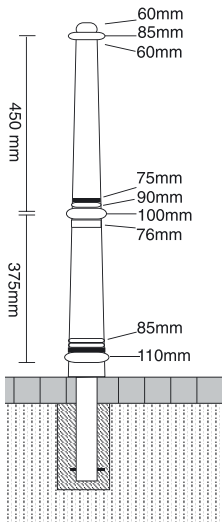
acc. with DIN 3223, self-engaging lock, with hot-dip galvanized ground socket

20.0 40140FB/2

40155FB

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

	approx.kg	Part-No.
without eyelet	6.5	490B
with 1 eyelet	6.5	490B+1
with 2 eyelets	6.5	490B+2

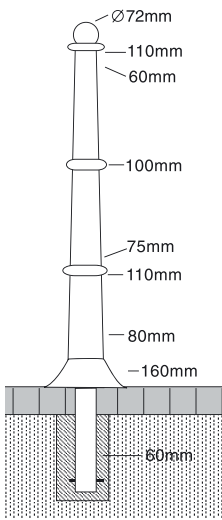
Removable, with triangular locking mechanism

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

without eyelet	9.5	490FB
with 1 eyelet	9.5	490FB+1
with 2 eyelets	9.5	490FB+2

Aluminium ornamental bollard

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



495FB

Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

	approx.kg	Part-No.
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. with 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

Aluminium miniature bollards

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



495MB

Stationary, for casting in concrete

with ground anchor, total length approx. 800 mm

	approx.kg	Part-No.
without eyelet	3.0	495MB
with 2 eyelets	3.0	495MB+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 122.



495.11B



495.12B

Aluminium ornamental bollard

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

	approx.kg	Part-No.
End post for top bar	10.0	495.01B
Middle post for top bar	10.0	495.02B
Corner post for top bar 90°	10.0	495.03B
End post for top and knee bar	10.5	495.11B
Middle post for top and knee bar	10.5	495.12B
Corner post for top and knee bar 90°	10.5	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	4.0	495.20B
--	-----	---------



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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Sample application as chain post



Ornamental bollard of square tube of square tube

70 x 70 mm, with ornamental head, approx. 950 mm above ground, hot-dip galvanized and coated anthracite grey (RAL 7016)



473FB

Bollards of round steel tube

Ø 82 mm, approx. 950 mm above ground, including horse's head hot-dip galvanized and coated color: white, matt black, green and green with gold-colored horse's head.



40180

	approx.kg	Part-No.	approx.kg	Part-No.
Stationary, for casting in concrete with ground anchor, total length approx. 1400 mm	9.0	473B	11.0	40180B
Stationary, to be fixed by plugs with base plate 100 x 150 mm	7.5	473PB	8.5	40180PB
Removable, with triangular locking mechanism acc. with DIN 3223, self-engaging lock, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground	14.0	473FB	14.0	40180FB
Foldable, with triangular locking mechanism acc. with DIN 3223, self-engaging lock, to be fixed by plugs , with base plate 100 x 150 mm	10.5	473FUB		
Foldable, with triangular locking mechanism acc. with DIN 3223, self-engaging lock, for casting in concrete , with hot-dip galvanized ground socket part-no. 470.60, approx. 400 mm below ground	12.5	473FUHB		
Removable, with Euro profile cylinder lock three keys, self-engaging lock, with hot-dip galvanized ground socket part-no. 470.10, approx. 500 mm below ground	14.0	473ZB	14.0	40180ZB
Foldable, with Euro profile cylinder lock three keys, self-engaging lock, to be fixed by plugs , with base plate 100 x 150 mm	10.5	473UZB		
Foldable, with Euro profile cylinder lock three keys, self-engaging lock, for casting in concrete , ground socket part-no. 470.60, approx. 400 mm below ground	12.5	473UZHB		



Other color finishes, see page 122.
Bollards also available with chain eyelets; see page 172.

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.**

25.0 4014140

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

25.0 4014141

Recycling-material post

hemispherical head Ø 200 mm

(hollow section)



Bollards without reflectors

Color: grey

Total length: 1200 mm

Total length: 1500 mm

approx.kg **Part-No.**

26.5 4020120

33.5 4020150

Ground rosette Ø 500 x 30 mm

Color: grey

4.5 4050003

Bollards without reflectors

Color: brown

Total length: 1200 mm

Total length: 1500 mm

26.5 4120120

33.5 4120150

Ground rosette Ø 500 x 30 mm

Color: brown

4.5 4150003



Reflectors on request.



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



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



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. with RAL color
- Packing unit 10 m

0.9	430.10
0.9	430.10B
0.9	430.20B
0.9	430.25B



430.60B

Square steel chain, unwelded

Wire thickness 6 mm

- galvanized and coated
- Please specify RAL color

0.9	430.60B
-----	---------



430.11

S hook

- galvanized
- galvanized and red coated
- galvanized and white coated
- galvanized and yellow coated
- galvanized and black coated

430.11
430.11BR
430.11BW
430.11BG
430.11BS



430.09

Connecting link

- galvanized
- galvanized and red coated
- galvanized and white coated
- galvanized and yellow coated
- galvanized and black coated

430.09
430.09BR
430.09BW
430.09BG
430.09BS



430.12

Shackle

- galvanized
- galvanized and red coated
- galvanized and white coated
- galvanized and yellow coated
- galvanized and black coated

430.12
430.12BR
430.12BW
430.12BG
430.12BS



430.13

Snap hook

- galvanized
- galvanized and red coated
- galvanized and white coated
- galvanized and yellow coated
- galvanized and black coated

430.13
430.13BR
430.13BW
430.13BG
430.13BS





430.05

Plastic barrier chain

6 mm thick
red / white, packing unit 25 m
yellow / black, packing unit 25 m

approx.kg/Unit Part-No.

2.0 430.05
2.0 430.06

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 Part-No.

2.5 430.15
2.5 430.30



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





Grey-cast multipurpose wrench

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

approx.kg Part-No.

galvanized 0.4 470.40



Triangular standard wrench

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

galvanized 0.2 470.50



Triangular socket wrench

acc. with DIN 3223

galvanized 0.2 470.30



Square socket wrench

for litter bin part-no. 4027

6 mm 4037



Triangular socket wrench

for litter bin, galvanized

8 mm 4038



Triangular wrench

handy wrench for opening the litter bins

8 mm 4039



Euro profile cylinder key

470.55

Extra charge for simultaneously locking cylinders 470.57

Extra charge for master key system with security card per cylinder 470.58



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



Ground rosette for post

Ø 76 mm, for screw-fastening, galvanized and coated 1.3 476RB

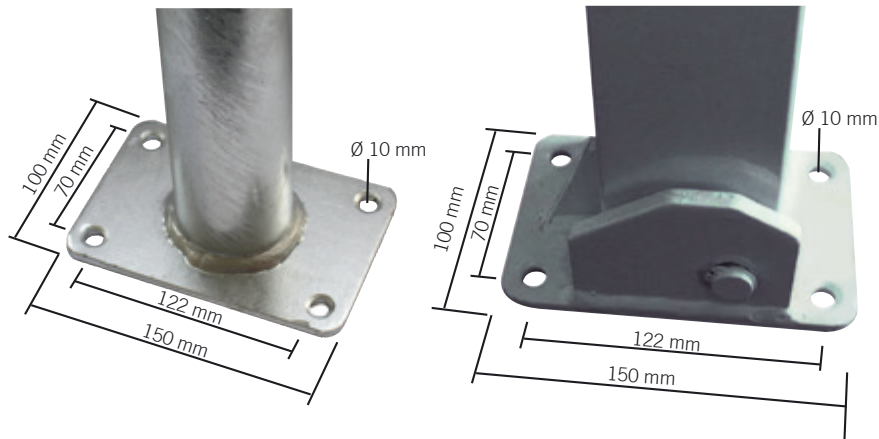
Ø 82 mm, for screw-fastening, galvanized and coated 1.3 485RB



Set of mounting bolts type 1

4 bolts **8 x 80 mm**, galvanized (bit T 40)
with plastic plugs \varnothing 10 mm

Part-No. 470.71



for stationary plug-in and all foldable posts with base plate
100 x 150 mm of our type

Screw head driver

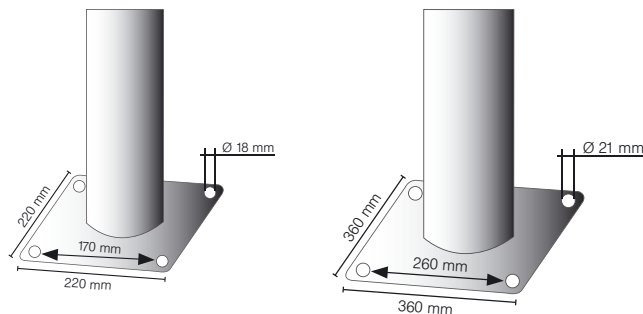
bit **T 40**, length 26 mm

Part-No. 470.75

Set of mounting bolts type 2

4 bolts, **fixing anchor M16 x 150 mm**, galvanized

Part-No. 470.72



Foundation: 400 x 400 mm

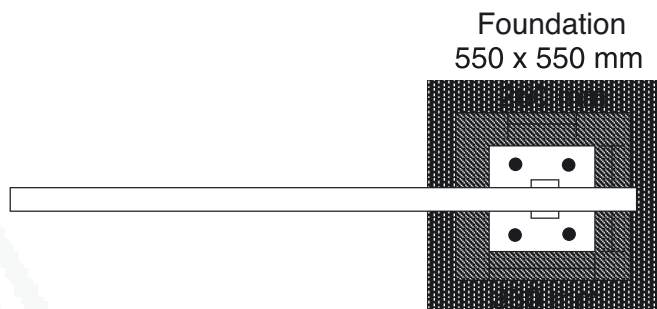
Foundation: 550 x 550 mm

for steel tube bollards; see pages 134, 135 and 232, 233 and for
barriers with a main support; see pages 206-214.

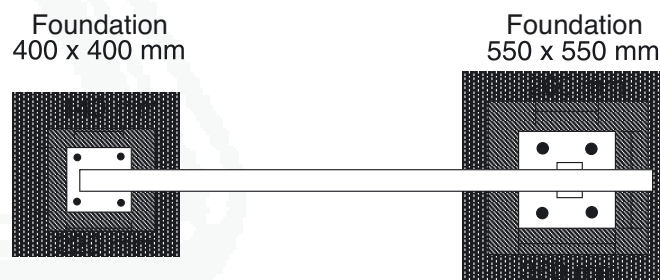
Set of mounting bolts type 3

8 bolts, **fixing anchor M16 x 150 mm**, galvanized

Part-No. 470.73



for barriers with a main support and a supporting post;
see pages 206-214.



Foundation size depends on ground characteristics



Barrier posts

Stainless steel

Barrier elements

Barrier poles

Outdoor equipment

Works protection



Ground socket

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

- for barrier posts with bottom part Ø 60 mm without locking mechanism 1.9 460.10
- for removable barrier posts with bottom part Ø 60 mm with our type of locking mechanism 1.9 460.40
- for series 460V barrier posts 1.9 460.60



Cover

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

0.8 460.20



Cover

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

1.0 460.21



Ground socket

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

- for barrier posts with bottom part Ø 76 mm without locking mechanism 3.0 476.10
- for removable barrier posts with bottom part Ø 76 mm with our type of locking mechanism 3.2 476.40



Cover

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

1.2 476.20



Cover

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

1,3 476.21



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 2.7 470.15
- for removable barrier post with bottom part 70 x 70 mm with our type of locking mechanism, length 500 mm 3.0 470.10



Cover

without locking mechanism, suitable for ground sockets part-no. 470.10 and 470.15, hot-dip galvanized

1.1 470.20



Cover

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

1.1 470.21



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

2.5 470.60



Ground socket

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

	approx.kg	Part-No.
Ø 48 mm Tubular post	1.3	443.44
Ø 60 mm Tubular post	1.9	463.44
Ø 76 mm Tubular post	3.0	473.44

Ground socket

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

300 mm long	2.0	463.31
400 mm long	2.3	463.41
500 mm long	2.5	463.51

for Ø 76 mm tubular post

300 mm long	2.5	473.31
500 mm long	3.7	473.51

Ground socket for Ø 48 mm tubular post

of grey-cast iron, with threaded and tightening ring

300 mm long	3.5	443.61
Tightening ring		443.65
Threaded ring		443.66
Blank plug		443.67
Steel wrench, hot-dip galvanized for Ø 48 mm	2.0	443.68

Ground socket for Ø 60 mm tubular post

of grey-cast iron, with threaded and tightening ring

300 mm long	5.0	463.61
500 mm long	7.0	463.62
Tightening ring		463.65
Threaded ring		463.66
Blank plug		463.67

Ground socket for Ø 76 mm tubular post

of grey-cast iron, with threaded and tightening ring

300 mm long	7.0	473.61
500 mm long	9.5	473.62
Tightening ring		473.65
Threaded ring		473.66
Blank plug		473.67

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

	5.4	463.68
--	-----	--------



Stainless steel - pages 177 - 184

- Stainless steel barrier posts
- Stainless steel bollards
- Stainless steel car park barriers
- Stainless steel railing systems





4070FU

70 x 70 mm
Glass-bead blasted



4062P

Ø 60 mm
Ground

Stainless steel post

Above ground approx. 900 mm

	approx.kg	Part-No.	approx.kg	Part-No.
Stationary, for casting in concrete total length: 1200 mm	6.0	4070	3.5	4062
Stationary, to be fixed by plugs with base plate	6.0	4070P	4.0	4062P
Removable, with triangular locking mechanism acc. with DIN 3223, self-engaging lock, with hot-dip galvanized ground socket approx. 400 mm below ground	12.0	4070F	7.0	4062F
Removable, with Euro profile cylinder lock three keys, self-engaging lock, with hot-dip galvanized ground socket	12.0	4070Z	7.0	4062Z
Foldable, with triangular locking mechanism acc. with DIN 3223, self-engaging lock, to be fixed by plugs , with base plate 100 x 150 mm hot-dip galvanized	7.0	4070FU		
Foldable, with triangular locking mechanism acc. with DIN 3223, self-engaging lock, for casting in concrete , with hot-dip galvanized ground socket part-no. 470.60, approx. 400 mm below ground	9.5	4070FUH		
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	7.5	4070UZ		
Foldable, with Euro profile cylinder lock three keys, self-engaging lock, for casting in concrete , with hot-dip galvanized ground socket part-no. 470.60, approx. 400 mm below ground	10.0	4070UZH		



Other dimensions and designs on request. Stainless steel posts are manufactured to order.
Orders cannot be cancelled, posts cannot be returned.



4072

Ø 76 mm
Ground



4172

Ø 76 mm
Ground
with half-sphere

Stainless steel post Ø 76 mm

above ground approx. 900 mm

Stationary, for casting in concrete

Total length: 1200 mm

approx.kg

Part-No.

Part-No.

Stationary, to be fixed by plugs

with base plate

Removable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock,
with hot-dip galvanized ground socket
approx. 400 mm below ground

Removable, with Euro profile cylinder lock

three keys, self-engaging lock,
with hot-dip galvanized ground socket

Foldable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock,
to be fixed by plugs, with base plate 100 x 150 mm
hot-dip galvanized

Foldable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock,
for casting in concrete, with hot-dip galvanized ground
socket part-no. 470.60, approx. 400 mm below ground

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

Foldable, with Euro profile cylinder lock

three keys, self-engaging lock,
for casting in concrete, with hot-dip galvanized ground
socket part-no. 470.60, approx. 400 mm below ground

5.0

4072

4172

5.5

4072P

4172P

10.0

4072F

4172F

10.0

4072Z

6.0

4072FU

8.5

4072FUH

6.5

4072UZ

9.0

4072UZH



Other dimensions and designs on request. Stainless steel posts are manufactured to order.
Orders cannot be cancelled, posts cannot be returned.



4089P

Ø 89 mm
Ground



40103P

Ø 102 mm
Ground

Stainless steel post

Above ground approx. 900 mm

Stationary, for casting in concrete

total length: 1200 mm

approx.kg

Part-No.

approx.kg

Part-No.

5.5

4089

6.0

40103

Stationary, to be fixed by plugs

with base plate Ø 150 x 6 mm

5.5

4089P

6.0

40103P

Removable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock,
with hot-dip galvanized ground socket

11.0

4089F

12.0

40103F

Accessories

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

Extra charge per eyelet

Barrier chain of stainless steel Ø 5 mm

430.55

Connecting links

430.56

Chain bolting mechanism

430.57

Stainless steel care spray, content: 400 ml

Cleaning and care spray

for long-lasting protective film

430.58



Other dimensions and designs on request. Stainless steel posts are manufactured to order.
Orders cannot be cancelled, posts cannot be returned.



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

Stainless steel hoops Ø 154 mm

Ground



40154 40155
**Stationary for casting in concrete
 with ground anchor**



40154P 40155P
**for plugging down
 with base plate Ø 250 mm**

Total length in mm
approx.kg
Part-No.

approx. 900 approx. 1200
 8.5 11.0
 40154 40155

approx. 600 approx. 900
 7.0 9.5
 40154P 40155P

Stainless steel hoops Ø 204 mm

Ground



40204 40205
**Stationary for casting in concrete
 with ground anchor**



40204P 40205P
**for plugging down
 with base plate Ø 300 mm**

Total length in mm
approx.kg
Part-No.

approx. 900 approx. 1200
 10.0 12.0
 40204 40205

approx. 600 approx. 900
 9.0 11.0
 40204P 40205P



Stainless steel posts are manufactured to order.
 Orders cannot be cancelled, posts cannot be returned.



Stainless steel hoop \varnothing 48 mm

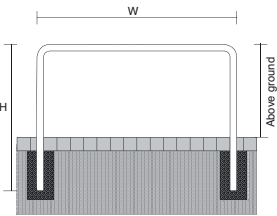
Ground surface, with or without cross bar, for casting in concrete



449.30

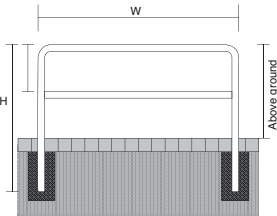


449.09



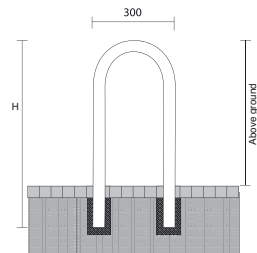
without cross bar, for casting in concrete

Total width	Total height	approx.kg	Part-No.
800 mm	1200 mm	8.5	449.09
1000 mm	1200 mm	9.0	449.12
1200 mm	1200 mm	9.5	449.13



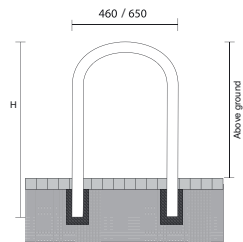
with cross bar, for casting in concrete

800 mm	1200 mm	9.5	449.21
1000 mm	1200 mm	11.0	449.22
1200 mm	1200 mm	12.0	449.23



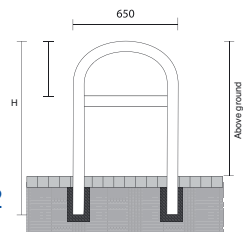
Universal hoop, for casting in concrete

300 mm	1200 mm	5.5	449.30
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Round hoop, for casting in concrete

460 mm	1200 mm	6.0	449.46
650 mm	1200 mm	7.0	449.65



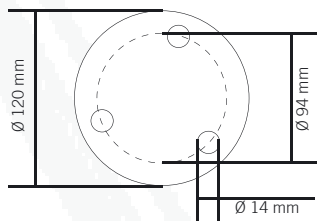
Round hoop with cross bar, for casting in concrete

650 mm	1200 mm	8.0	449.66
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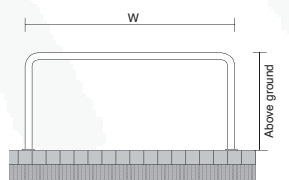


Stainless steel hoop \varnothing 48 mm

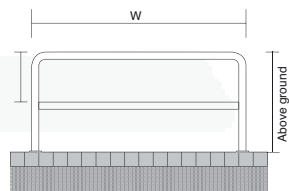
Ground surface, for plugging down, with base plate \varnothing 120 mm, pitch circle \varnothing 94 mm, 3 holes \varnothing 14 mm



without cross bar, for plugging down

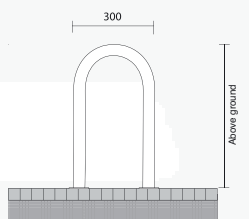


Total width	Total height	approx.kg	Part-No.
800 mm	800 mm	8.5	449.09P
1000 mm	800 mm	9.0	449.12P
1200 mm	800 mm	9.5	449.13P



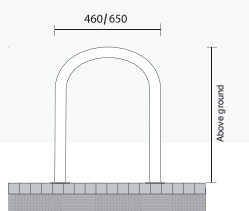
with cross bar, for plugging down

800 mm	800 mm	9.5	449.21P
1000 mm	800 mm	11.0	449.22P
1200 mm	800 mm	12.0	449.23P



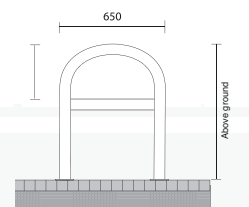
Universal hoop, for plugging down

300 mm	800 mm	5.5	449.30P
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Round hoop, for plugging down

460 mm	800 mm	6.0	449.46P
650 mm	800 mm	7.0	449.65P



Round hoop with cross bar, for plugging down

650 mm	800 mm	8.0	449.66P
--------	--------	-----	---------



Stainless steel hoops are manufactured to order.
Orders cannot be cancelled, hoops cannot be returned.



Stainless steel railing system

For demanding sites.

Fixed post:

Stainless steel tube \varnothing 60 mm ground, for casting in concrete, with aluminium tube end cap, traffic blue coated

Cross bar

Stainless steel tube \varnothing 33.7 mm ground, connecting sleeves coated blue, length: 2000 mm



**Railing, 1000 mm above ground
fixed post length approx. 1500 mm**
approx.kg Part-No.

**Flowerbed railing, 500 mm above ground
fixed post length approx. 800 mm**
approx.kg Part-No.

End post for top bar	5.0	4401	3.5	4404
Middle post for top bar	5.0	4402	3.5	4405
Corner post for top bar	5.0	4403	3.5	4406
End post for top and quarter-bent bar	5.5	4411		
Middle post for top and quarter-bent bar	5.5	4412		
Corner post for top and quarter-bent bar	5.5	4413		
Cross bar including aluminium connecting sleeves for straight horizontal position length: 2000 mm	4.0	4420		
Aluminium joint element for vertical and horizontal use up to 90°	0.5	4424		



Stainless steel tube hoop \varnothing 48 mm

Miter-welded, for casting in concrete

Total width	Total height	approx.kg	Part-No.
500 mm	1200 mm	7.0	449.85
700 mm	1200 mm	7.5	449.86
1000 mm	1200 mm	8.5	449.87
1200 mm	1200 mm	9.0	449.88



Stainless steel bicycle lean-on hoop \varnothing 48 mm

Very attractive and functional design



total width approx. 1400 mm			
height above ground approx. 850 mm			
for casting in concrete	9.0	449.50	
for plugging down	9.0	449.50P	
with base plate \varnothing 120 mm			
Pitch circle \varnothing 115 mm,			
3 holes \varnothing 14 mm			



Stainless steel hoops are manufactured to order.
Orders cannot be cancelled, hoops cannot be returned.



Barrier posts

Stainless steel

Barrier elements - pages 185 - 204

- Tubular hoops
- Access barriers
- Height restriction barriers
- Barriers / railing systems

Barrier elements



Barrier poles

Outdoor equipment

Works protection



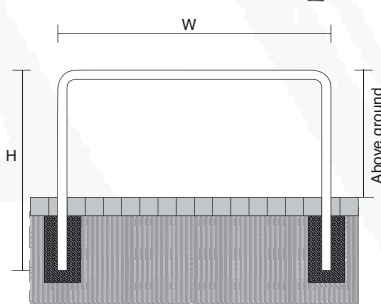
- Tubular hoops for safety
- for protection on sidewalls, separation of traffic lanes, for keeping cars off lawn or for protecting trees, flower beds, etc.
- Ideal also for safety and protection in production halls and warehouses
- powder-coated in common colors



Steel tube Ø 60 mm x 2.5 mm

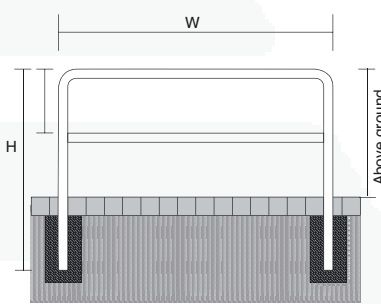


without cross bar, for casting in concrete



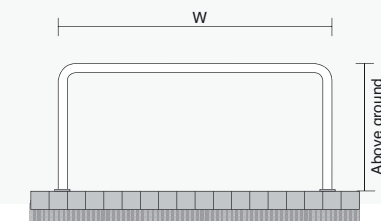
Total width	Total height	approx.kg	hot-dip galvanized		galvanized and white coated with reflecting stripes	
			Part-No.	Part-No.		
1000 mm	1000 mm	9.5	465.06	465.06B		
1500 mm	1000 mm	11.5	465.07	465.07B		
2000 mm	1000 mm	13.0	465.08	465.08B		
700 mm	1200 mm	8.5	465.11	465.11B		
1000 mm	1200 mm	11.0	465.12	465.12B		
1200 mm	1200 mm	11.5	465.13	465.13B		
500 mm	1400 mm	10.0	465.09	465.09B		
1000 mm	1400 mm	12.5	465.10	465.10B		
1500 mm	1400 mm	14.0	465.15	465.15B		
2000 mm	1400 mm	16.0	465.20	465.20B		
2500 mm	1400 mm	17.5	465.25	465.25B		

with cross bar, for casting in concrete



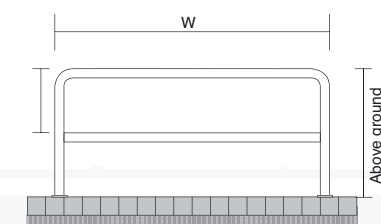
700 mm	1200 mm	8.5	465.21	465.21B
1000 mm	1200 mm	11.0	465.22	465.22B
1200 mm	1200 mm	11.5	465.23	465.23B
500 mm	1400 mm	10.0	465.31	465.31B
1000 mm	1400 mm	12.5	465.32	465.32B
1500 mm	1400 mm	14.0	465.33	465.33B
2000 mm	1400 mm	16.0	465.34	465.34B
2500 mm	1400 mm	17.5	465.35	465.35B

without cross bar, for plugging down



1000 mm	1000 mm	8.5	465.52	465.52B
1500 mm	1000 mm	9.5	465.53	465.53B
2000 mm	1000 mm	10.5	465.54	465.54B

with cross bar, for plugging down



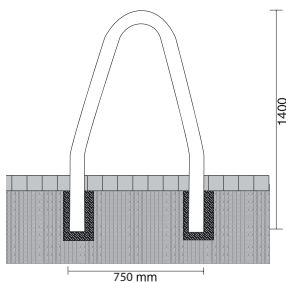
1000 mm	1000 mm	11.0	465.62	465.62B
1500 mm	1000 mm	12.0	465.63	465.63B
2000 mm	1000 mm	13.0	465.64	465.64B



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



Steel tube Ø 48 x 2.5 mm



**Tree protection hoop
for casting in concrete**

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

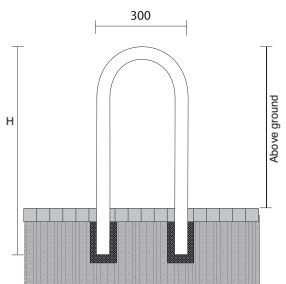
hot-dip galvanized

approx.kg Part-No.

8.0 443.00

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

8.0 443.00B



**Universal hoop
for casting in concrete**

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

hot-dip galvanized

6.0 448.70

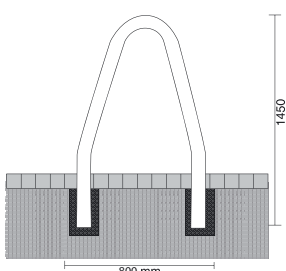
hot-dip galvanized and coated
color: green (RAL 6005)

6.0 448.70B



Our tree guard hoops make 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.

Steel tube Ø 60 mm x 2.5 mm



**Tree protection hoop
for casting in concrete**

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

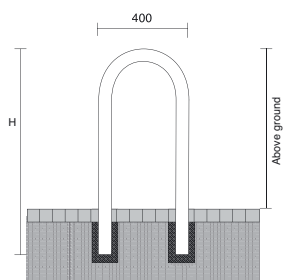
hot-dip galvanized

approx.kg Part-No.

10.0 463.00

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

10.0 463.00B



**Universal hoop
for casting in concrete**

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

hot-dip galvanized

8.5 465.70

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

8.5 465.70B

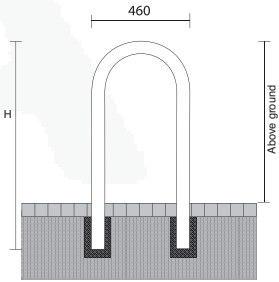


Steel tube Ø 48 x 2.5 mm
Miter-welded

without cross bar, for casting in concrete



Total width	Total height	approx.kg	hot-dip galvanized	galvanized and coated DB 703
			Part-No.	Part.- No.
500 mm	1200 mm	7.0	447.09	447.09B
700 mm	1200 mm	7.5	447.11	447.11B
1000 mm	1200 mm	8.5	447.12	447.12B
1200 mm	1200 mm	9.0	447.13	447.13B



Round hoops

for casting in concrete, Steel tube Ø 48 mm,
Total height: approx. 1200 mm

without cross bar

Total width: approx. 460 mm

hot-dip galvanized

7.0 448.046

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

7.0 448.046B

without cross bar

Total width: approx. 650 mm

hot-dip galvanized

7.0 448.065

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

7.0 448.065B

with cross bar

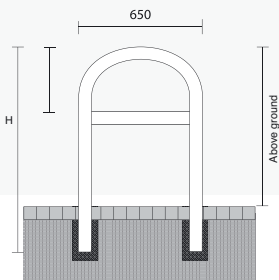
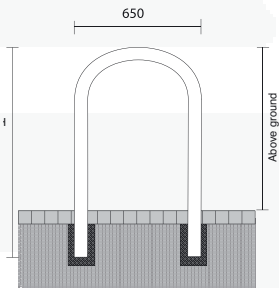
Total width: approx. 650 mm

hot-dip galvanized

8.0 448.066

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

8.0 448.066B



Special designs

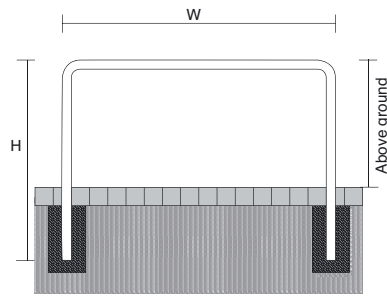
Lean-on and blocking car park barriers also available with base plate 100 x 150 mm for plugging down (The total height changes to 1000 mm).

For plugging down: Add the letter **P** to the article number, extra charge:



Safety barriers
for dangerous areas.

Guard hoops, steel tube \varnothing 76 x 2.6 mm

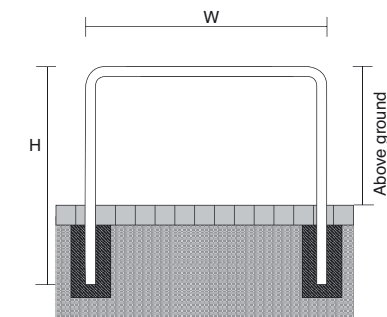


without cross bar, for casting in concrete

Total width	Total height	approx.kg	Part-No.	Part-No.
1000 mm	1500 mm	16.5	475.10	475.10B
1500 mm	1500 mm	19.0	475.15	475.15B
2000 mm	1500 mm	21.5	475.20	475.20B
2500 mm	1500 mm	23.5	475.25	475.25B

hot-dip galvanized

galvanized and white coated with red reflecting stripes



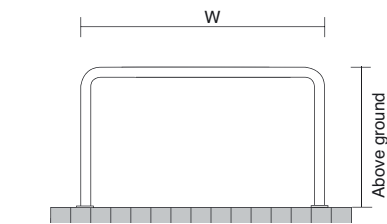
Anti-nudge hoop

Round steel tube \varnothing 76 x 2.6 mm

Total width	Total height	approx.kg	Part-No.	Part-No.
750 mm	1000 mm	8.0	477.05	477.05B
1000 mm	1000 mm	10.0	477.06	477.06B
750 mm	1500 mm	15.0	477.08	477.08B

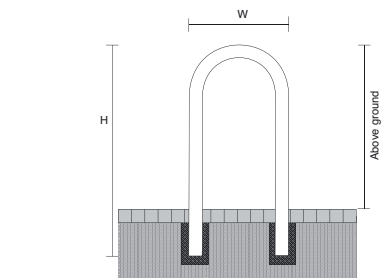
hot-dip galvanized

galvanized and white coated with red reflecting stripes



for plugging down

Total width	Total height	approx.kg	Part-No.	Part-No.
750 mm	650 mm	8.0	477.05P	477.05PB
1000 mm	650 mm	10.0	477.06P	477.06PB
750 mm	1150 mm	15.0	477.08P	477.08PB
1000 mm	1150 mm	16.0	477.09P	477.09PB

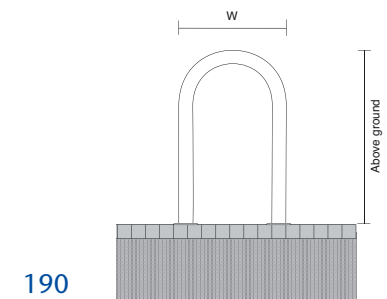


Universal hoop

Steel tube \varnothing 76 x 2.6 mm

for casting in concrete

Total width	Total height	approx.kg	Part-No.	Part-No.
400 mm	1000 mm	8.0	477.04	477.04B
400 mm	1500 mm	10.0	477.07	477.07B



for plugging down

Total width	Total height	approx.kg	Part-No.	Part-No.
400 mm	650 mm	8.0	477.04P	477.04PB
400 mm	1150 mm	10.0	477.07P	477.07PB



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 part-no. 460.40 total height approx. 1400 mm above ground approx. 1000 mm

Triangular locking mechanism

acc. with DIN 3223



without quarter-bent bar

hot-dip galvanized



hot-dip galvanized and white coated with red reflecting stripes



Total width in mm	1000	1500	2000	2500
-------------------	------	------	------	------

Part-No.	465.10F	465.15F	465.20F	465.25F
approx.kg	15.0	17.0	19.0	21.0

Part-No.	465.10FB	465.15FB	465.20FB	465.25FB
approx.kg	15.0	17.0	19.0	21.0

with quarter-bent bar

hot-dip galvanized



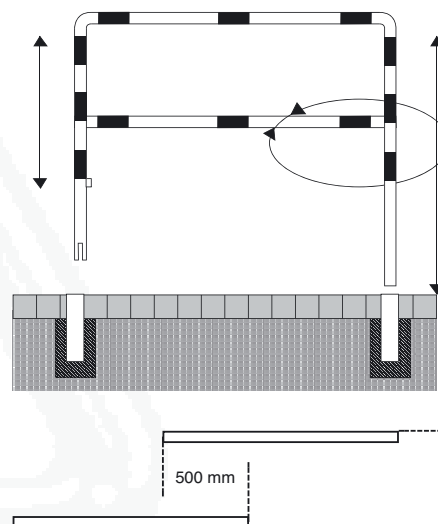
hot-dip galvanized and white coated with red reflecting stripes



Total width in mm	1000	1500	2000	2500
-------------------	------	------	------	------

Part-No.	465.32F	465.33F	465.34F	465.35F
approx.kg	18.0	21.0	25.0	29.0

Part-No.	465.32FB	465.33FB	465.34FB	465.35FB
approx.kg	18.0	21.0	25.0	29.0



Installation schematic



Other color finishes, see page 122.

Access barriers with triangular lock

acc. with 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, above ground 900 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

hot-dip galvanized



Total width in mm

1500

2000

2500

3000

Part-No.
approx.kg

410.15
25.5

410.20
27.0

410.25
28.5

410.30
30.0

hot-dip galvanized
and white coated with
red reflecting stripes



Part-No.
approx.kg

410.15B
19.5

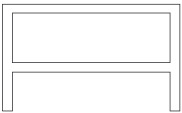
410.20B
21.0

410.25B
22.5

410.30B
23.5

with top and quarter-bent bar

hot-dip galvanized



Total width in mm

1500

2000

2500

3000

Part-No.
approx.kg

412.15
29.5

412.20
32.5

412.25
35.5

412.30
38.5

hot-dip galvanized
and white coated with
red reflecting stripes



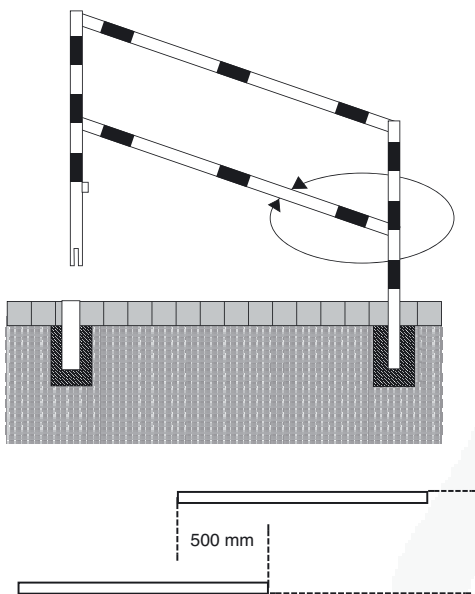
Part-No.
approx.kg

412.15B
29.5

412.20B
32.5

412.25B
35.5

412.30B
38.5



Installation schematic



Access barriers with Euro profile cylinder lock on request. Versions that can also be taken out on both sides and other lengths or color finishes available. Subject to change. Other colors, see page 122.



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 bars

hot-dip galvanized



Total width in mm	1500	2000	2500	3000
Part-No.	414.15	414.20	414.25	414.30
approx.kg	19.5	21.0	22.5	23.5

hot-dip galvanized and white coated with red reflecting stripes



Part-No.	414.15B	414.20B	414.25B	414.30B
approx.kg	19.5	21.0	22,5	23.5

with top and quarter-bent bar

hot-dip galvanized



Total width in mm	1500	2000	2500	3000
Part-No.	416.15	416.20	416.25	416.30
approx.kg	23.5	26.5	22.5	23.5

hot-dip galvanized and white coated with red reflecting stripes



Part-No.	416.15B	416.20B	416.25B	416.30B
approx.kg	19.5	21.0	22.5	23.5

Fixed access barriers

As welded frame, square tube 70 x 70 mm, above ground 900 mm, total height: 1300 mm, cross bar 60 x 40 mm

without quarter-bent bar

hot-dip galvanized



Total width in mm	1500	2000	2500
Part-No.	4014.15	4014.20	4014.25
approx.kg	19.0	20.0	22.0

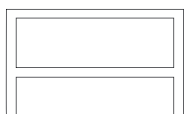
hot-dip galvanized and white coated with red reflecting stripes



Part-No.	4014.15B	4014.20B	4014.25B
approx.kg	19.5	21.0	22.5

with quarter-bent bar

hot-dip galvanized



Total width in mm	1500	2000	2500
Part-No.	4016.15	4016.20	4016.25
approx.kg	23.5	26.5	29.5

hot-dip galvanized and white coated with red reflecting stripes



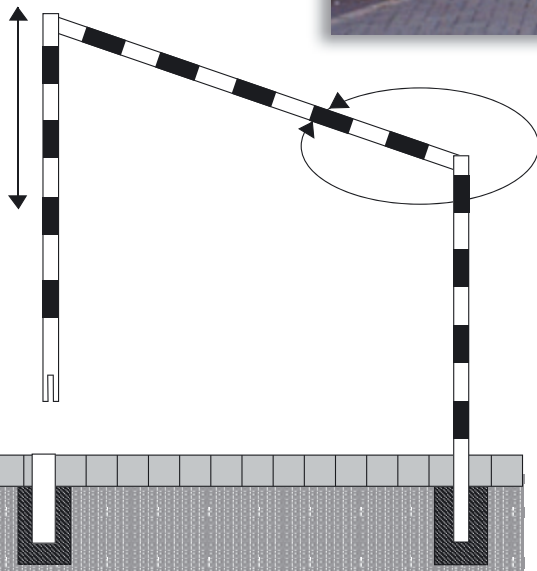
Part-No.	4016.15B	4016.20B	4016.25B
approx.kg	23.5	26.5	29.5



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

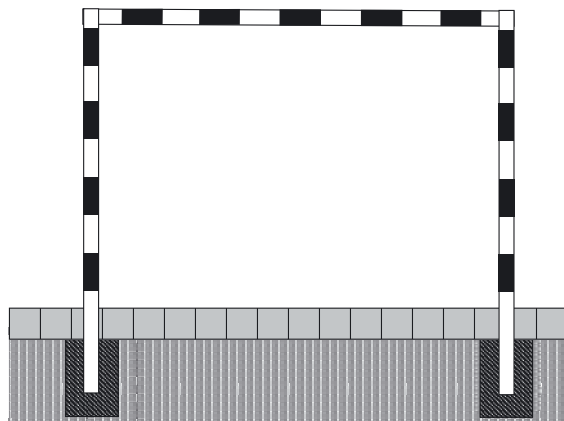
hot-dip galvanized and white coated with red reflecting stripes



Pivotal, for casting in concrete

- 1 post 70 x 70 mm square tube, stationary, for casting in concrete, Total height: approx. 2500 mm
- 1 post 70 x 70 mm square tube, removable, with triangular locking mechanism
- 1 ground socket 80 x 80 mm, square tube 500 mm
- 1 cross bar 60 x 40 mm
- clear height approx. 2000 mm

Total width	approx.kg	Part-No.
3000 mm	45.0	417.31B
4000 mm	50.0	417.41B



Stationary, for casting in concrete

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

Total width		
3000 mm	40.0	417.30B
4000 mm	44.0	417.40B

Stationary, for casting in concrete

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

Total width		
3000 mm	90.0	417.32B
4000 mm	100.0	417.42B
5000 mm	110.0	417.52B
6000 mm	120.0	417.62B

Optionally available with:

Base plate for plugging down

360 x 360 x 8 mm including 4 holes Ø 21 mm for anchor bolts, hole pitch 260 x 260 mm, for plugging down, add letter **P** to the part-no..

Extra charge:



Other heights and widths on request.
Clear height of traffic sign to be provided by buyer



Height restriction barrier for casting in concrete

pivotable horizontally, with cable pull, lock closed or opened by pin, prepared for padlock or with triangular locking mechanism acc. to DIN 3223 or Euro profile cylinder lock, white coated with red reflecting stripes

1-part

Revolving post

Steel tube Ø 102 mm

Cross tube

Aluminium 100 x 50 mm

Clear height

approx. 2200 mm

Total height above ground

approx. 2600 mm



Cross tube length	approx.kg	for padlock Part-No.	Triangular lock Part-No.	Euro profile cylinder lock Part-No.
2000 mm	45.0	417.200VB	417.200FB	417.200ZB
2500 mm	46.5	417.250VB	417.250FB	417.250ZB
3000 mm	48.0	417.300VB	417.300FB	417.300ZB
3500 mm	49.5	417.350VB	417.350FB	417.350ZB
4000 mm	51.0	417.400VB	417.400FB	417.400ZB
4500 mm	52.5	417.450VB	417.450FB	417.450ZB

Height restriction barrier for casting in concrete

stationary, with pull rope reinforcement, white coated with red reflecting stripes

1-part

Fixed post

Steel tube Ø 102 mm

Cross tube

Aluminium 100 x 50 mm

Clear height

approx. 2200 mm

Total height above ground

approx. 2600 mm

Cross tube length	approx.kg	Part-No.
2000 mm	45.0	417.200B
2500 mm	46.5	417.250B
3000 mm	48.0	417.300B
3500 mm	49.5	417.350B
4000 mm	51.0	417.400B
4500 mm	52.5	417.450B

Optionally available with:

Base plate for plugging down

360 x 360 x 8 mm including 4 holes Ø 21 mm for anchor bolts, hole pitch 260 x 260 mm, for plugging down, add the letter **P** to the part-no., extra charge:

Barrier of aluminium tube

Ø 40 mm, approx. 2000 mm length
white coated with red reflecting stripes
for fastening by chains at the cross bar of the height restriction barrier



417.99

Bracket

of flat bar steel with holes for bolts
fixing a sign 450 mm



417.98

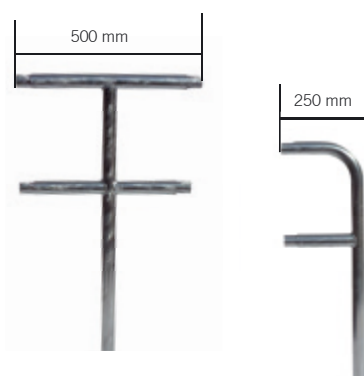
Separating traffic lanes, sidewalks, etc.
Installation is very simple: assemble,
cast in concrete or plug down – that's it.



Protective railing

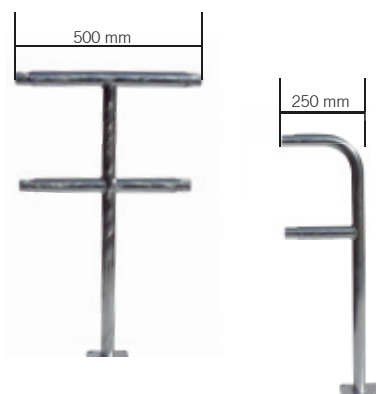
Steel tube Ø 48 mm

variable plugging,
height 1000 mm above ground



For casting in concrete

	approx.kg	hot-dip galvanized Part-No.	hot-dip galvanized and white coated with red reflecting stripes Part-No.
End post	3.5	448.80	448.80B
Middle post	4.0	448.81	448.81B
Corner post	4.0	448.815	448.815B



For plugging down with base plate 100 x 150 mm

	approx.kg	hot-dip galvanized Part-No.	hot-dip galvanized and white coated with red reflecting stripes Part-No.
End post	3.5	448.80P	448.80PB
Middle post	4.0	448.81P	448.81PB
Corner post	4.0	448.815P	448.815PB

Cross bar

Steel tube Ø 48 mm



Tube length	grid site	approx.kg	hot-dip galvanized Part-No.	hot-dip galvanized and white coated with red reflecting stripes Part-No.
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

Set of fastening bolts, see page 173. Protective railings are manufactured to order, also available in yellow / black design, see page 240. Orders cannot be cancelled, protective railings cannot be returned.





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 approx. 1000 mm
above ground, assembled with bolts



Fixed post for casting in concrete

Steel tube 70 x 70 mm
height above ground 1000 mm

	approx.kg	hot-dip galvanized Part-No.	hot-dip galvanized and white coated with red reflecting stripes Part-No.
End post for top and quarter-bent bar	6.5	4270	4270B
Middle post for top and quarter-bent bar	7.0	4271	4271B
Corner post for top and quarter-bent bar 90°	7.0	4273	4273B



Fixed post for plugging down

Steel tube 70 x 70 mm
height above ground 1000 mm
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

Tube length	grid site			
800 mm	1000 mm	3.0	4208	4208B
1300 mm	1500 mm	5.0	4213	4213B
1800 mm	2000 mm	7.0	4218	4218B
2300 mm	2500 mm	8.5	4223	4223B

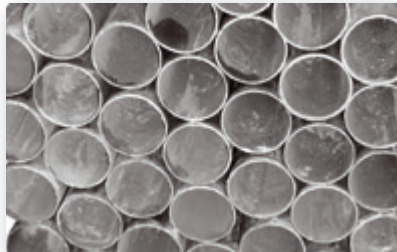


The cross bars are simply placed in the brackets of the stationary post and bolted in place. (Suitable as temporary guard without bolts).
Also available in yellow / black design; see page 241.



Barriers

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



Steel tube Ø 60 mm,
hot-dip galvanized

Length approx.kg Part-No.

Vertical tube

1500 mm 4.5 419.10

Cross tube

1500 mm	4.5	419.11
2000 mm	6.0	419.12
2500 mm	7.5	419.13
3000 mm	9.0	419.14
4000 mm	12.0	419.15
5000 mm	15.0	419.16
6000 mm	18.0	419.17



Aluminium elbow

0.5 419.18

Aluminium tee

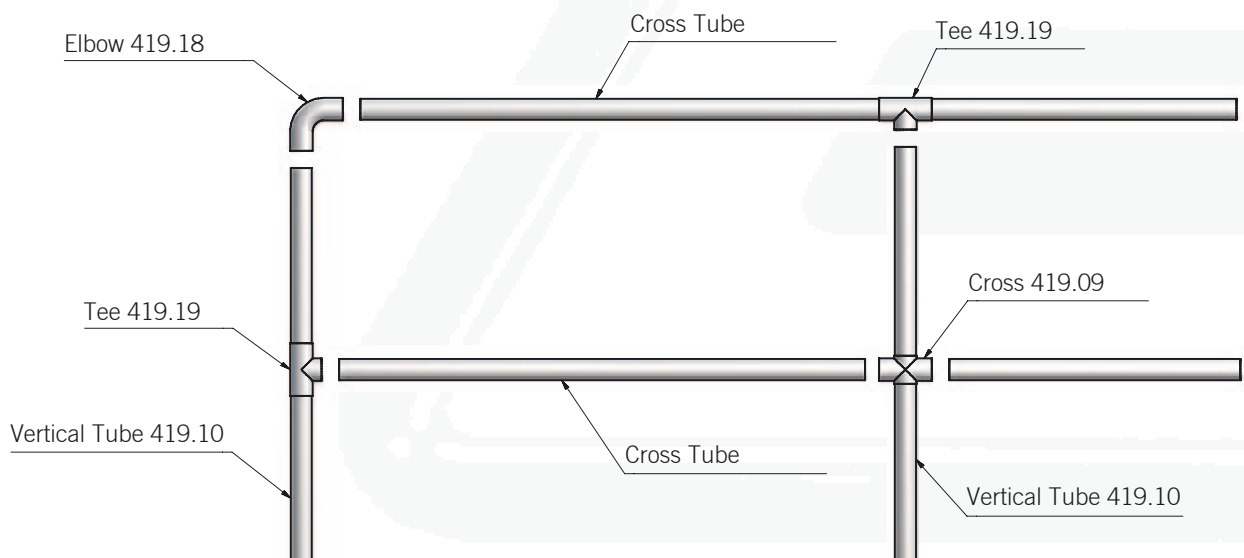
0.4 419.19

Aluminium cross

0.4 419.09

2 half shells with 2 bolts and nuts

Setup





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 122).



with cover



with ball head

Fixed post

Steel tube Ø 60 mm,
with ground anchor oder for plugging down
with base plate 100 x 150 mm

Fixed post for casting in concrete

with cover
with ball head

Length	approx.kg	Part-No.
1500 mm	5.0	419.600
1500 mm	5.0	419.602

hot-dip galvanized

hot-dip galvanized and
white coated
Part-No.

419.600B
419.602B

Fixed post for plugging down

with cover
with ball head

1000 mm	5.0	419.601
1000 mm	5.0	419.603

419.601B
419.603B

Cross tube

Steel tube Ø 60 mm,
including connection elements

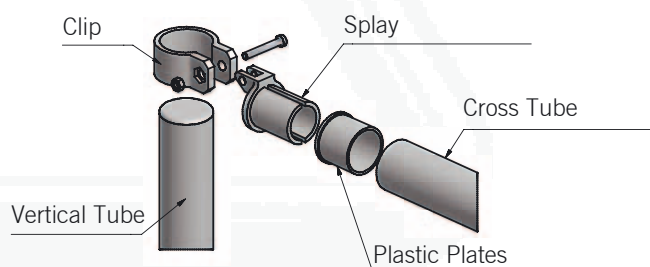
Grid sizes: 1150 mm	1000 mm	4.5	419.610
Grid sizes: 1650 mm	1500 mm	5.5	419.615
Grid sizes: 2150 mm	2000 mm	6.5	419.620
Grid sizes: 2650 mm	2500 mm	8.0	419.625

hot-dip galvanized and white
coated with red reflecting stripes

419.610B
419.615B
419.620B
419.625B

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

0.3 419.699 419.699B





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 to 90°.



Fixed post for top bar

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

		hot-dip galvanized	hot-dip galvanized and coated (RAL 7016)
	approx.kg	Part-No.	Part-No.
End post for top bar	5.0	467.01	467.01B
Middle post for top bar	5.0	467.02	467.02B
Corner post for top bar	5.0	467.03	467.03B

Fixed post for top and quarter-bent bar

End post for top and quarter-bent bar	5.5	467.11	467.11B
Middle post for top and quarter-bent bar	5.5	467.12	467.12B
Corner post for top and quarter-bent bar	5.5	467.13	467.13B

Fixed post for border railings

Steel tube Ø 60 mm, with aluminium ball head
Total length approx. 800 mm

End post	3.0	467.04	467.04B
Middle post	3.0	467.05	467.05B
Corner post	3.0	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

	4.0	467.20	467.20B
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Aluminium joint

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

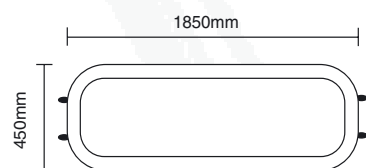
	0.5	467.24	467.24B
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Safety barriers

A stable, attractive barrier to go with our post part-no. 478B



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°

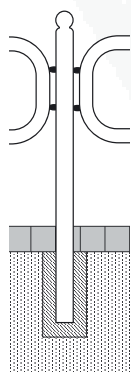
approx.kg

Part-No.

hot-dip galvanized and coated RAL 7016

8.0

478.20B



Fixed post

Steel tube \varnothing 76 mm, part-no. 478B, see page 157, with ball head, hot-dip galvanized and coated RAL 7016, total length approx. 1300 mm

End post with 2 connecting clips

8.0

478.02B

Middle post with 4 connecting clips

8.0

478.04B

Ground rosette bolts

478RB

Border railing with cross bar made of flat bar steel

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



Fixed post

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

approx.kg

Part-No.

End post

5.5

40673B

Middle post

5.5

40674B

Corner post

5.5

40675B

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

11.0

40678B



Other lengths and colors on request; see page 122.

City fences for safety, perfect layout also in bends by hinged clips.



City fence

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

Middle post with 4 connecting clips
End post with 2 connecting clips

approx.kg	with flat head Part-No.	with ornamental head Part-No.
6.0	418.7804B	418.7814B
6.0	418.7802B	418.7812B

Fence element

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

Center spacing

1000 mm	10.0	418.710B
1500 mm	12.0	418.715B



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

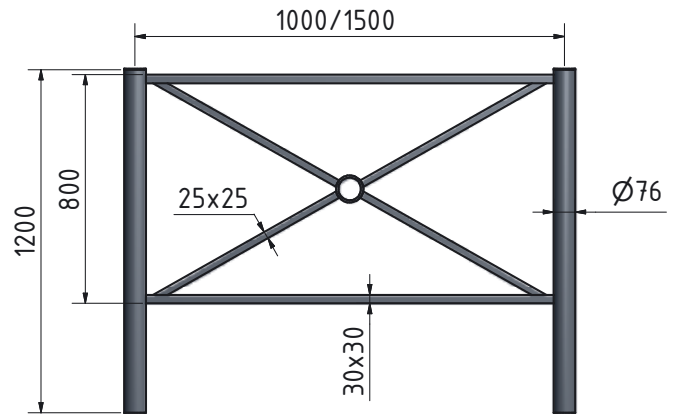


City fence

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 DB 703



	length	approx.kg	Part-No.
with flat head	1000 mm	21.0	418.7040B
with flat head	1500 mm	25.0	418.7045B



with ball head	1000 mm	21.0	418.7440B
with ball head	1500 mm	25.0	418.7445B



Other lengths and colors on request; see page 122.

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



418.35

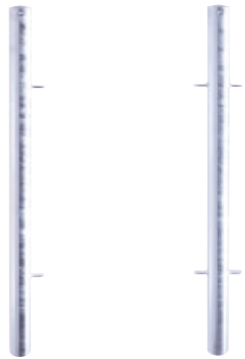
Fence panel element

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

- hot-dip galvanized
- hot-dip galvanized and white coated

approx.kg Part-No.

- 12.5 418.35
- 12.5 418.35B



418.42

418.44

Fixed post

Steel tube Ø 60 mm
Total length: approx. 1500 mm

End post with 2 connecting clips

- hot-dip galvanized
- hot-dip galvanized and white coated

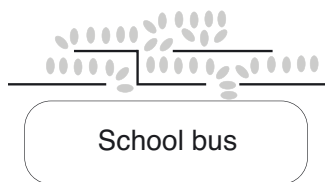
- 5.0 418.42
- 5.0 418.42B

Middle post with 4 connecting clips

- hot-dip galvanized
- hot-dip galvanized and white coated

- 5.0 418.44
- 5.0 418.44B

Safety fence panel for exposed areas of danger



School bus

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



418.15

hot-dip galvanized

Center spacing

- 750 mm 12.5 418.07
- 1500 mm 20.0 418.15
- 2000 mm 25.0 418.20

hot-dip galvanized and coated white or red

- 750 mm 13.0 418.07B
- 1500 mm 20.5 418.15B
- 2000 mm 25.0 418.20B



Available in the following colors: traffic red / orange / white
Other dimensions and designs on request; see page 122.

Fixed post

of square tube 60 x 60 mm, with steel cap
Total height: 1500 mm

Middle post with 4 connecting clips

- hot-dip galvanized
- hot-dip galvanized and white coated

- 6.0 418.00
- 6.0 418.00B

End post with 2 connecting clips

- hot-dip galvanized
- hot-dip galvanized and white coated

- 6.0 418.02
- 6.0 418.02B



418.00

418.02



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.



Barrier poles - pages 205 -213

- Swing barriers
- Access barriers
- Manual barriers

Barrier posts

Stainless steel

Barrier elements

Barrier poles

Outdoor equipment

Works protection

Swiveling gates

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

- Swiveling post:** Steel tube Ø 102 mm
Barrier arm: Steel tube Ø 60 mm
Height: approx. 950 mm above ground



for casting in concrete, hot-dip galvanized

Total width approx.kg		for padlock Part-No.	with triangular lock Part-No.	with Euro profile cylinder lock Part-No.
1500 mm	32.0	413.151V	413.151F	413.151Z
2000 mm	35.0	413.201V	413.201F	413.201Z
2500 mm	38.0	413.251V	413.251F	413.251Z
3000 mm	41.0	413.301V	413.301F	413.301Z
3500 mm	44.0	413.351V	413.351F	413.351Z

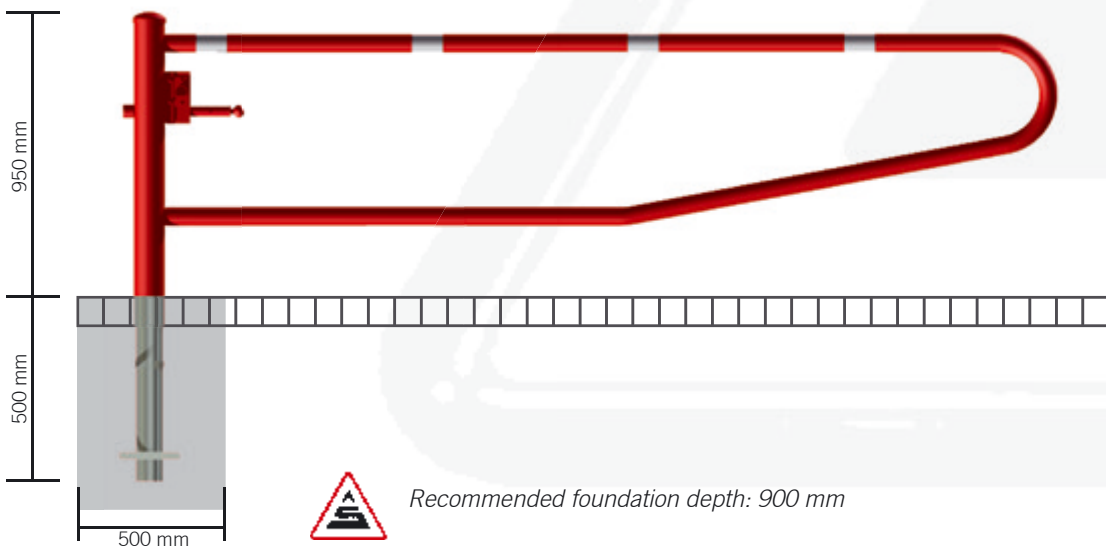
for casting in concrete, hot-dip galvanized and red coated with white reflecting rings

Total width approx.kg		for padlock Part-No.	with triangular lock Part-No.	with Euro profile cylinder lock Part-No.
1500 mm	32.0	413.151VB	413.151FB	413.151ZB
2000 mm	35.0	413.201VB	413.201FB	413.201ZB
2500 mm	38.0	413.251VB	413.251FB	413.251ZB
3000 mm	41.0	413.301VB	413.301FB	413.301ZB
3500 mm	44.0	413.351VB	413.351FB	413.351ZB

Optionally available with:

Base plate for plugging down

360 x 360 x 8 mm including 4 holes Ø 21 mm for anchor bolts,
hole pitch 260 x 260 mm, for plugging down, add letter **P** to the part-no., extra charge:





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 Ø 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 Part-No.	with triangular lock Part-No.	with Euro profile cylinder lock Part-No.
1500 mm	32.0	4013.15V	4013.15F	4013.15Z
2000 mm	35.0	4013.20V	4013.20F	4013.20Z
2500 mm	38.0	4013.25V	4013.25F	4013.25Z
3000 mm	41.0	4013.30V	4013.30F	4013.30Z
3500 mm	44.0	4013.35V	4013.35F	4013.35Z

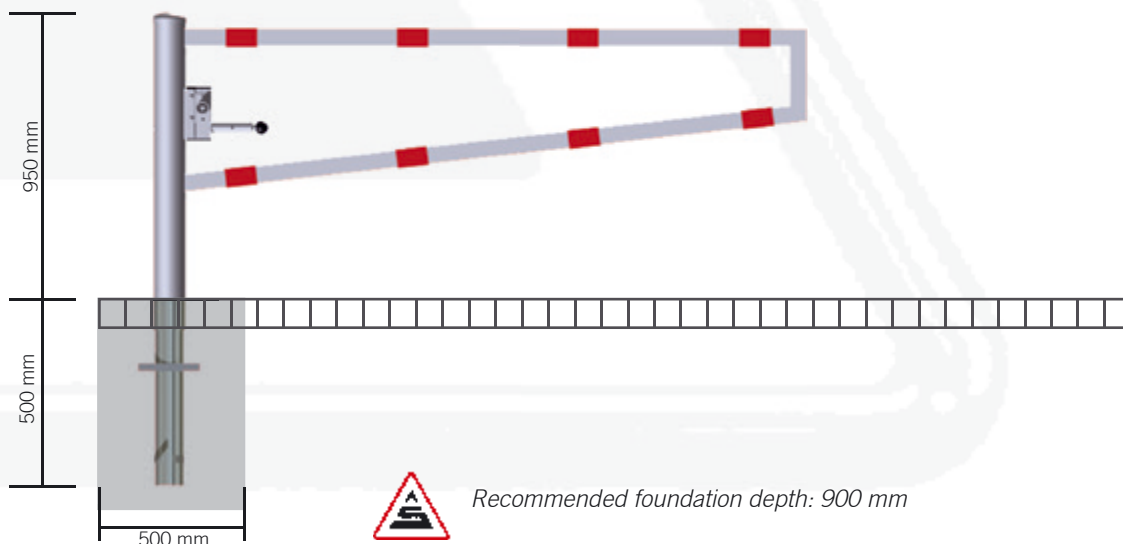
for casting in concrete, hot-dip galvanized and white coated with red reflecting rings

Total width	approx.kg	for padlock Part-No.	with triangular lock Part-No.	with Euro profile cylinder lock Part-No.
1500 mm	32.0	4013.15VB	4013.15FB	4013.15ZB
2000 mm	35.0	4013.20VB	4013.20FB	4013.20ZB
2500 mm	38.0	4013.25VB	4013.25FB	4013.25ZB
3000 mm	41.0	4013.30VB	4013.30FB	4013.30ZB
3500 mm	44.0	4013.35VB	4013.35FB	4013.35ZB

Optionally available with:

Base plate for plugging down

360 x 360 x 8 mm including 4 holes Ø 21 mm for anchor bolts, hole pitch 260 x 260 mm, for plugging down, add letter **P** to the part-no., extra charge:



Recommended foundation depth: 900 mm

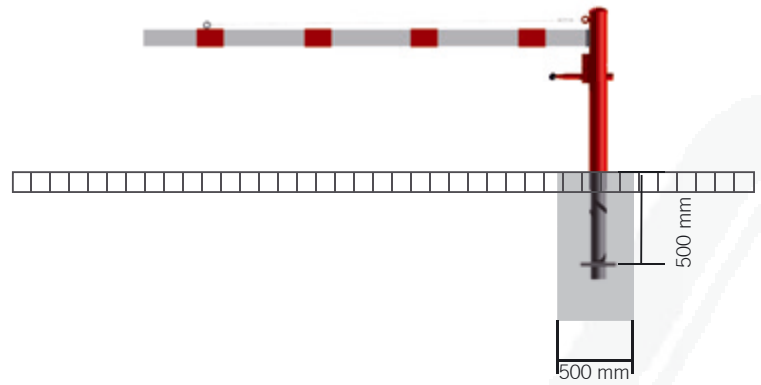
Swing barrier

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 Ø 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



Recommended foundation depth: 900 mm

for casting in concrete

Barrier arm length	approx.kg	for padlock Part-No.	with triangular lock Part-No.	with Euro profile cylinder lock Part-No.
1500 mm	32.0	4113.15VB	4113.15FB	4113.15ZB
2000 mm	35.0	4113.20VB	4113.20FB	4113.20ZB
2500 mm	38.0	4113.25VB	4113.25FB	4113.25ZB
3000 mm	41.0	4113.30VB	4113.30FB	4113.30ZB
3500 mm	44.0	4113.35VB	4113.35FB	4113.35ZB

Optionally available with:

Base plate for plugging down

360 x 360 x 8 mm including 4 holes Ø 21 mm for anchor bolts, hole pitch 260 x 260 mm, for plugging down, add letter **P** to the part-no., extra charge:

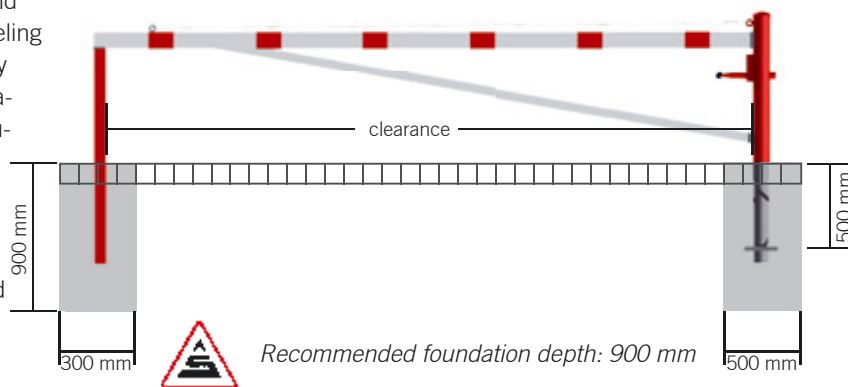




Swing barrier

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 Ø 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 piece)
- Height:** approx. 950 mm above ground



for casting in concrete

Barrier arm length	approx.kg	for padlock Part-No.	with triangular lock Part-No.	with Euro profile cylinder lock Part-No.
3000 mm	58.0	4213.30VB	4213.30FB	4213.30ZB
3500 mm	61.0	4213.35VB	4213.35FB	4213.35ZB
4000 mm	65.0	4213.40VB	4213.40FB	4213.40ZB
4500 mm	69.0	4213.45VB	4213.45FB	4213.45ZB
5000 mm	73.0	4213.50VB	4213.50FB	4213.50ZB
5500 mm	78.0	4213.55VB	4213.55FB	4213.55ZB
6000 mm	83.0	4213.60VB	4213.60FB	4213.60ZB

Optionally available with:

Base plate for plugging down

Swiveling post base plate 360 x 360 x 8 mm, including 4 holes Ø 21 mm for anchor bolts, hole pitch 260 x 260 mm.

2 base plates for supporting post 220 x 220 x 8 mm, hole pitch 140 x 140 mm for plugging down,

add letter **P** to part-no., extra charge:



Access barrier

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

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

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

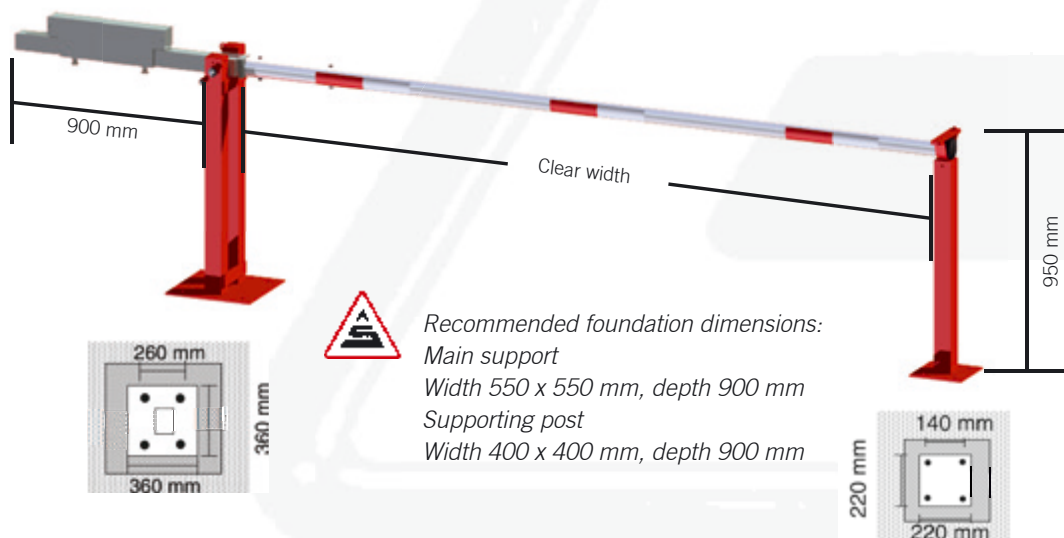
Locking mechanism: At the supporting post, can be fixed by the main support pin when the arm is open

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



Clear width	approx.kg	for padlock Part-No.	with triangular lock Part-No.	with Euro profile cylinder lock Part-No.
3000 mm	50.0	411.30VPB	411.30FPB	411.30ZPB
4000 mm	70.0	411.40VPB	411.40FPB	411.40ZPB
5000 mm	90.0	411.50VPB	411.50FPB	411.50ZPB
6000 mm	110.0	411.60VPB	411.60FPB	411.60ZPB
7000 mm	125.0	411.70VPB	411.70FPB	411.70ZPB

	approx.kg	Part-No.
Set of mounting bolts type 3 , to be fixed by plugs		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	16.0	411.92
Pull rope reinforcement		411.95





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 anchor, hot-dip galvanized and powder-coated red

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

Swing post: Aluminium tube with foot

Locking mechanism: 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



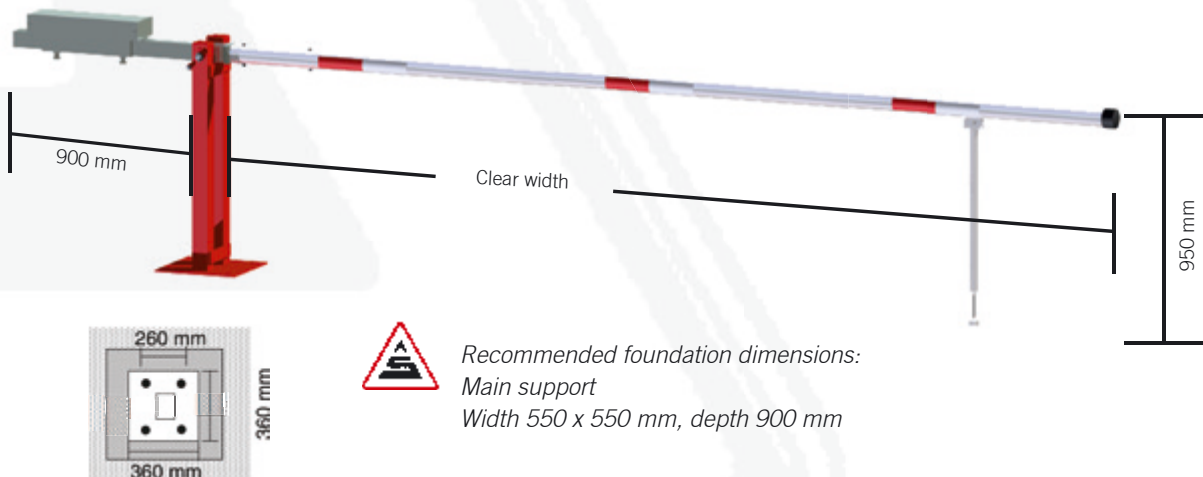
Clear width approx.kg		for padlock Part-No.	with triangular lock Part-No.	with Euro profile cylinder lock Part-No.
3000 mm	45.0	411.31VPB	411.31FPB	411.31ZPB
4000 mm	65.0	411.41VPB	411.41FPB	411.41ZPB
5000 mm	85.0	411.51VPB	411.51FPB	411.51ZPB
6000 mm	105.0	411.61VPB	411.61FPB	411.61ZPB
7000 mm	122.0	411.71VPB	411.71FPB	411.71ZPB

approx.kg Part-No.

Set of mounting bolts type 3, to be fixed by plugs 470.72

Ground socket with ground anchor plate for main support, **for casting in concrete**, hot-dip galvanized, including bolts M16 12.0 411.91

Pull rope reinforcement 411.95



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	45.0	415.30VPB	415.30FPB
4000 mm	48.0	415.40VPB	415.40FPB
5000 mm	51.0	415.50VPB	415.50FPB
6000 mm	54.0	415.60VPB	415.60FPB
7000 mm	58.0	415.70VPB	415.70FPB

Euro profile cylinder lock

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

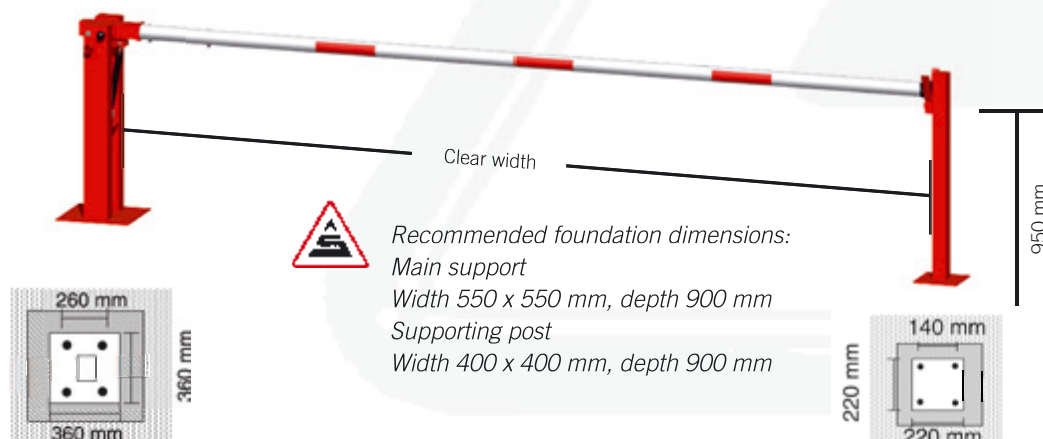
Clear width	approx.kg	Part-No.	Part-No.
3000 mm	45.0	415.30ZPB	415.30FZPB
4000 mm	48.0	415.40ZPB	415.40FZPB
5000 mm	51.0	415.50ZPB	415.50FZPB
6000 mm	54.0	415.60ZPB	415.60FZPB
7000 mm	58.0	415.70ZPB	415.70FZPB

approx.kg Part-No.

Set of mounting bolts type 3, to be fixed by plugs 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 16.0 415.92

Pull rope reinforcement 415.95



Manual barrier with gas pressure spring



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

Pole support: Aluminium pipe with foot

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
Height: approx. 950 mm above ground



Clear width	approx.kg	for padlock	with triangular lock
		Part-No.	Part-No.
3000 mm	41.0	415.31VPB	415.31FPB
4000 mm	44.0	415.41VPB	415.41FPB
5000 mm	47.0	415.51VPB	415.51FPB
6000 mm	50.0	415.61VPB	415.61FPB
7000 mm	54.0	415.71VPB	415.71FPB

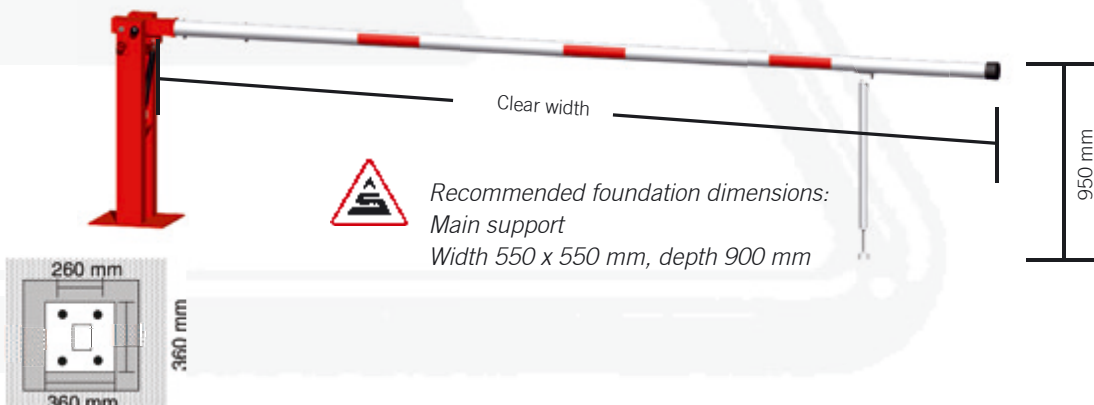
Clear width	approx.kg	Euro profile cylinder lock	Triangular lock and Euro profile cylinder lock
		Part-No.	Part-No.
3000 mm	41.0	415.31ZPB	415.31FZPB
4000 mm	44.0	415.41ZPB	415.41FZPB
5000 mm	47.0	415.51ZPB	415.51FZPB
6000 mm	50.0	415.61ZPB	415.61FZPB
7000 mm	54.0	415.71ZPB	415.71FZPB

approx.kg Part-No.

Set of mounting bolts type 2, to be fixed by plugs 470.72

Ground socket with ground anchor plate for main support, **for casting in concrete**, hot-dip galvanized, including bolts M16 12.0 415.91

Euro profile cylinder lock with forced closing 415.96
Pull rope reinforcement 415.95



Swing barrier

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

- Swiveling post:** Steel tube \varnothing 102 mm
- Barrier arm:** Steel tube 60 x 40 mm
- Supporting post:** Steel tube 70 x 70 mm
- Height:** approx. 950 mm above ground



for casting in concrete, hot-dip galvanized

Clear width	approx.kg	for padlock Part-No.	with Triangular lock Part-No.	with Euro profile cylinder lock Part-No.
2500 mm	39.0	413.250V	413.250F	413.250Z
3000 mm	43.0	413.300V	413.300F	413.300Z
3500 mm	47.0	413.350V	413.350F	413.350Z
4000 mm	49.0	413.400V	413.400F	413.400Z
4500 mm	51.0	413.450V	413.450F	413.450Z

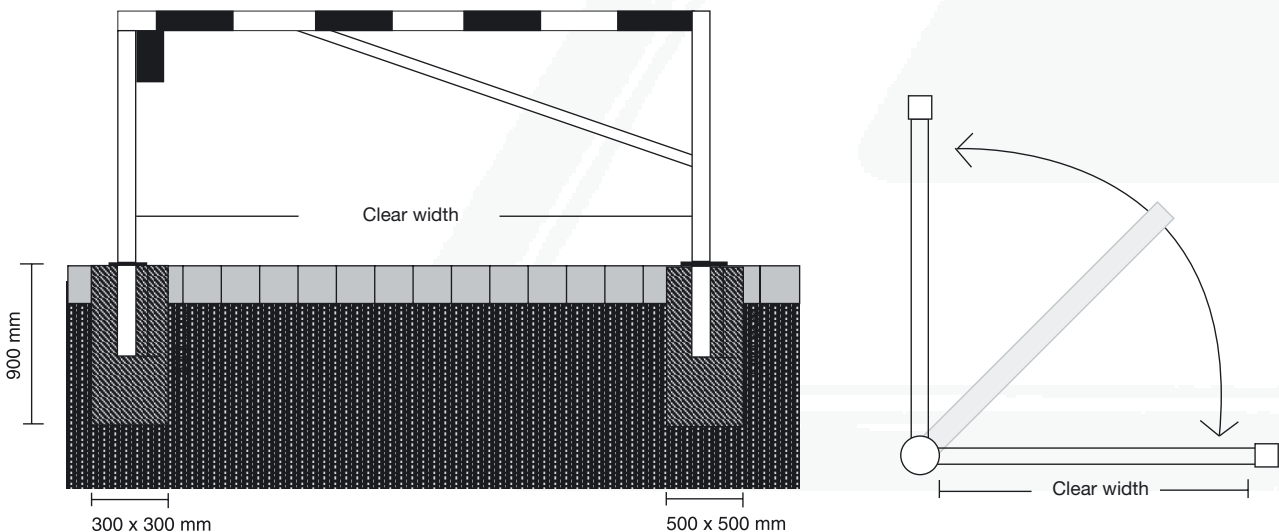
for casting in concrete, hot-dip galvanized and coated red with white reflecting rings

Clear width	approx.kg	for padlock Part-No.	with Triangular lock Part-No.	with Euro profile cylinder lock Part-No.
2500 mm	39.0	413.250VB	413.250FB	413.250ZB
3000 mm	43.0	413.300VB	413.300FB	413.300ZB
3500 mm	47.0	413.350VB	413.350FB	413.350ZB
4000 mm	49.0	413.400VB	413.400FB	413.400ZB
4500 mm	51.0	413.450VB	413.450FB	413.450ZB

Base plate for plugging down

Base plate for main support 360 x 360 x 8 mm including 4 holes \varnothing 21 mm for anchor bolts, hole pitch 260 x 260 mm

2 base plates for supporting posts 220 x 220 x 8 mm, hole pitch 140 x 140 mm, for plugging down. Add letter **P** to article number, extra charge:





Barrier posts

Stainless steel

Barrier elements

Barrier poles

Outdoor equipment

Works protection

Works protection - pages 229 - 244

- Barrier posts
- Car park barriers
- Crash guards
- Railing systems
- Chain posts / accessories
- Warning and protection profiles

Barrier posts

Steel tube Ø 76, Ø 89, 70 x 70 mm

with welded steel cap

approx. 900 mm above ground, total length 1400 mm

hot-dip galvanized and yellow coated with black stripes



476BG



489BG



470BG

Stationary, for casting in concrete

with ground anchor

Total length: 1400 mm

hot-dip galvanized and coated yellow with three black stripes

Diameter in mm

Ø 76

Ø 89

70 x 70 mm

approx.kg

6.0

9.0

7.5

Part-No.

476BG

489BG

470BG



476PBG



489PBG



470PBG

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

Ø 76

Ø 89

70 x 70 mm

approx.kg

5.5

7.5

6.5

Part-No.

476PBG

489PBG

470PBG

Set of mounting bolts type 1

Part-No.

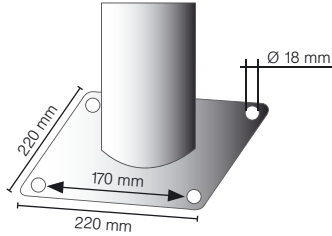
470.71



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

Crash-proof



476NPBG
Illustr. with cap part-no. 477.10BG

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

	Diameter in mm	\varnothing 76	\varnothing 89	70 x 70 mm
approx.kg		8.0	9.0	9.0
Part-No.		476NPBG	489NPBG	470NPBG

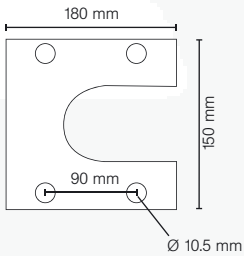
Set of mounting bolts type 2

Part-No. 470.72

Cover \varnothing 200 mm for barrier post, tiltable

Part-No. 477.10BG

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		8.0	9.0	9.0
Part-No.		476APBG	489APBG	470APBG

Set of mounting bolts type 1

Part-No. 470.71

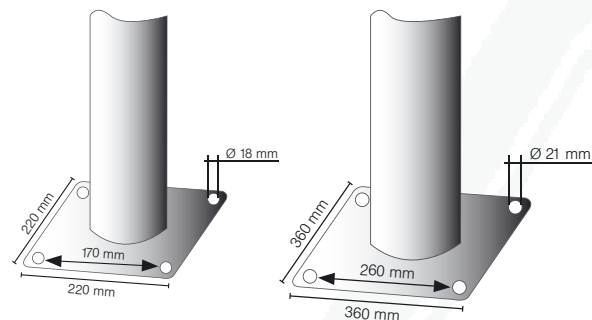


40153BG

40151BG

40191

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.



Set of mounting bolts, see page 173.

Steel tube bollards \varnothing 152 x 3.2 mm

with welded steel cap

hot-dip galvanized

hot-dip galvanized and coated yellow with three black stripes

Stationary, for casting in concrete

	1200	1500	2000	1000
Total length in mm	1200	1500	2000	1000
approx.kg	15.0	17.0	23.0	14.0
Part-No.	40150	40151	40152	40153
Part-No.	40150BG	40151BG	40152BG	40153BG

for plugging down with base plate 220 x 220 mm

Steel tube bollards \varnothing 193 x 3.6 mm

with welded steel cap

hot-dip galvanized

hot-dip galvanized and coated yellow with three black stripes

Stationary, for casting in concrete

	1200	1500	2000	1000
Total length in mm	1200	1500	2000	1000
approx.kg	25.0	28.0	40.0	25.0
Part-No.	40190	40191	40192	40193
Part-No.	40190BG	40191BG	40192BG	40193BG

for plugging down with base plate 360 x 360 mm

Steel cap, bolted

Replaces the welded steel cap



Add letter **L** to the part-no.

Extra charge:

Steel cap with concrete anchor

Replaces welded steel cap



Add letter **A** to the part-no.

Extra charge:



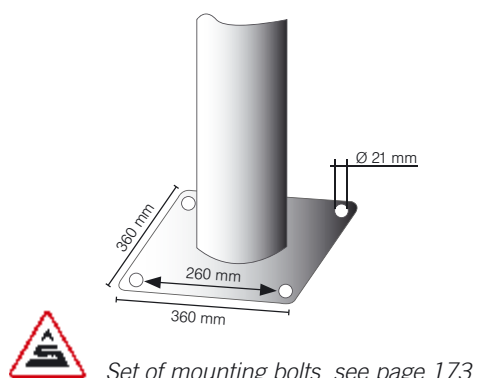
Also available in white / red, see page 134. Other lengths on request.
Bollards are manufactured to order. Orders cannot be cancelled, bollards cannot be returned.



40273BG



40271



Set of mounting bolts, see page 173.

Steel tube bollard \varnothing 273 x 5 mm thick
with welded steel cap

Stationary, for casting in concrete

**for plugging down
with base plate
360 x 360 mm**

hot-dip galvanized

Total length in mm	1500	2000	1500
approx.kg	50.0	68.0	60.0
Part-No.	40271	40272	40273

hot-dip galvanized and coated yellow
with three black stripes

Part-No.	40271BG	40272BG	40273BG
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Steel cap with concrete anchor

Replaces welded steel cap



Add letter **A** to the part-no.

Extra charge:



Barrier posts

Stainless steel

Barrier elements

Barrier poles

Outdoor equipment

Works protection



Steel tube bollard Ø 152 x 3.2 mm thick, removable without locking mechanism
with welded steel cap, including ground socket part-no. 40151.10

	Total length in mm	1500	2000
	approx.kg	26.0	32.0
hot-dip galvanized	Part-No.	40151H	40152H
hot-dip galvanized and coated yellow with three black stripes	Part-No.	40151HBG	40152HBG



40151HBG



40151FBG

Steel tube bollard Ø 152 x 3.2 mm thick, removable with triangular lock
with welded steel cap, including ground socket part-no. 470.10

	Total length in mm	1500
	approx.kg	26.0
hot-dip galvanized	Part-No.	40151F
hot-dip galvanized and coated yellow with three black stripes	Part-No.	40151FBG



40191HBG



Steel tube bollards Ø 193 x 3.6 mm thick, removable without locking mechanism
with welded steel cap, including ground socket part-no. 40191.10

	Total length in mm	1500	2000
	approx.kg	38.00	50.00
hot-dip galvanized	Part-No.	40191H	40192H
hot-dip galvanized and coated yellow with three black stripes	Part-No.	40191HBG	40192HBG



Also available in white / red and hot-dip galvanized, see page 133. Other lengths on request.
Bollards are manufactured to order. Orders cannot be cancelled, bollards cannot be returned.

Anti-nudge hoops Ø 76 mm

Anti-nudge hoop

Steel tube Ø 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. Hot-dip galvanized, powder-coated yellow, with black warning stripes.

For casting in concrete with ground anchor



For plugging down with base plate 100 x 150 mm



Total width in mm	Height above ground in mm		for casting in concrete		for plugging down	
	in mm	approx.kg	Part-No.	Part-No.	Part-No.	Part-No.
400	250	4.0	477.01BG	477.01PBG		
750	250	6.0	477.02BG	477.02PBG		
1000	250	7.0	477.03BG	477.03PBG		
400	650	8.0	477.04BG	477.04PBG		
750	650	10.0	477.05BG	477.05PBG		
1000	650	11.0	477.06BG	477.06PBG		
400	1150	13.0	477.07BG	477.07PBG		
750	1150	15.0	477.08BG	477.08PBG		
1000	1150	16.0	477.09BG	477.09PBG		

Anti-nudge hoop removable



with base plates 160 x 180 mm for plugging down, for temporary opening/closing of access roads. The hoop is taken out of the plugged base plates and installed again and locked with hexagon socket screws when needed

Total width in mm	Height in mm	approx.kg	Part-No.
400	650	12.0	477.04APBG
750	650	15.0	477.05APBG
1000	650	17.0	477.06APBG
400	1150	12.0	477.07APBG
750	1150	15.0	477.08APBG
1000	1150	17.0	477.09APBG

flexible tiltable



Anti-nudge hoop flexible, tiltable

to protect the hall floor (hoop remains fixed in the floor when nudged), hoop with base plate 220 x 220 mm for plugging down	400	650	12.0	477.04NPBG
	750	650	15.0	477.05NPBG
	1000	650	17.0	477.06NPBG
	400	1150	12.0	477.07NPBG
	750	1150	15.0	477.08NPBG
	1000	1150	17.0	477.09NPBG

Steel tube \varnothing 76 mm

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

Anti-nudge hoop 90°

isosceles

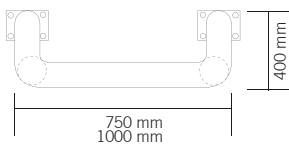


	Total width in mm	Height above ground in mm	approx. kg	for casting in concrete Part-No.	for plugging down Part-No.
	350	650	13.0	477.30BG	477.30PBG
	350	1150	19.0	477.31BG	477.31PBG
	600	650	16.0	477.60BG	477.60PBG
	600	1150	22.0	477.61BG	477.61PBG



Anti-nudge hoop

Double hoop, total depth 400 mm

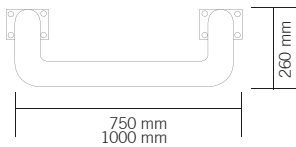


	Total width in mm	Total depth in mm	Above ground in mm	approx. kg	for casting in concrete Part-No.	for plugging down Part-No.
	750	400	650	18.0	477.68BG	477.68PBG
	750	400	1150	26.5	477.69BG	477.69PBG
	1000	400	650	19.0	477.70BG	477.70PBG
	1000	400	1150	29.5	477.71BG	477.71PBG



Anti-nudge hoop

Double-sided, deep version approx. 260 mm

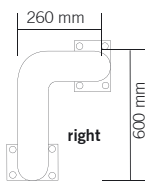


	Total width in mm	Total depth in mm	Above ground in mm	approx. kg	for casting in concrete Part-No.	for plugging down Part-No.
	750	260	650	11.0	477.72BG	477.72PBG
	1000	260	650	12.0	477.73BG	477.73PBG
	750	260	1150	15.5	477.74BG	477.74PBG
	1000	260	1150	16.5	477.75BG	477.75PBG

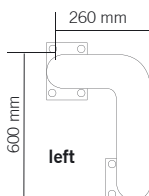


One-sided, deep

One-sided, deep version approx. 260 mm



	Total width in mm	Total depth in mm	Above ground in mm	approx. kg	for casting in concrete Part-No.	for plugging down Part-No.
one-sided, right						
	600	260	650	10.5	477.76BG	477.76PBG
	600	260	1150	15.0	477.77BG	477.77PBG



	Total width in mm	Total depth in mm	Above ground in mm	approx. kg	for casting in concrete Part-No.	for plugging down Part-No.
one-sided, left						
	600	260	650	10.5	477.78BG	477.78PBG
	600	260	1150	15.0	477.79BG	477.79PBG



Crash guard with underrun guard

Steel tube Ø 76 mm, prevents underrunning of platform floor trucks and protects from fork trucks, powder-coated yellow with black stripes



for plugging down
with base plate 100 x 150 mm

Total width	Height above ground	approx.kg	Part-No.
750 mm	650 mm	12.0	477.32BG
1000 mm	650 mm	16.5	477.33BG

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	4.5	477.40BG
800 mm	86 mm	6.5	477.41BG
1000 mm	86 mm	7.5	477.42BG
1200 mm	86 mm	9.5	477.43BG



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 length	Height above ground	approx.kg	Part-No.
400 mm	115 mm	3.0	477.34BG
1000 mm	115 mm	5.5	477.35BG
1500 mm	115 mm	6.5	477.36BG
2000 mm	115 mm	7.5	477.37BG

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 length	approx.kg	Part-No.
400 mm	7.0	477.44BG
800 mm	14.0	477.45BG
1000 mm	18.0	477.46BG
1200 mm	21.5	477.47BG
1500 mm	27.0	477.48BG





To protect shelf and rack back-up frames. 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 in which it is anchored (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.
No tearing of anchor bolts 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.

6.0 477.89B



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.

Angle, height 200 mm	3.5	477.84B
Angle, height 400 mm	4.5	477.85B
Angle, height 800 mm	9.0	477.86B
Angle, height 1200 mm	14.0	477.87B

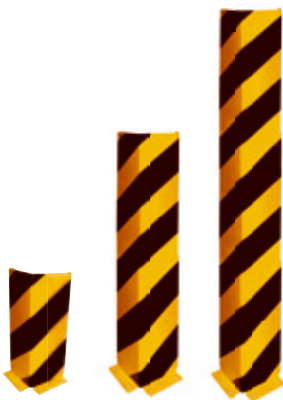


Crash guard angle

with reinforced edges
of steel plate 6 mm thick, powder-coated
yellow with attached black stripes,
for plugging down,
leg length 160 mm

approx.kg Part-No.

Angle, height 400 mm	6.0	477.90B
Angle, height 800 mm	11.0	477.96B
Angle, height 1200 mm	17.0	477.97B



Crash guard U-shape

with reinforced edges

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

approx.kg Part-No.

height 400 mm 11.5 477.91B

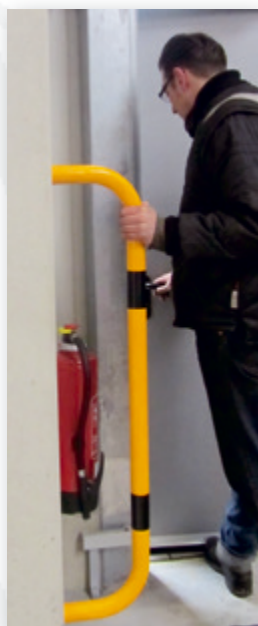




Safety handles

Steel tube \varnothing 48 mm,

for openings in walls and staircase areas

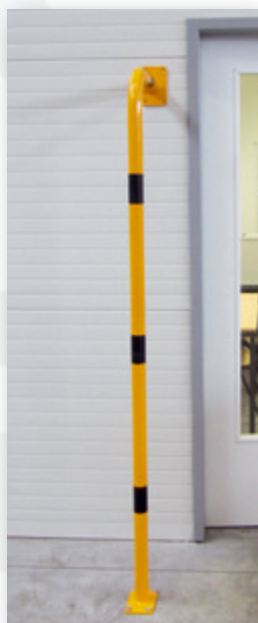
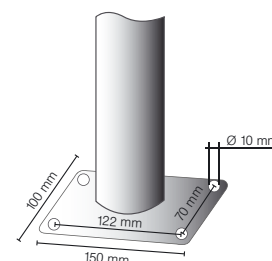


U-shape hoop

with fixing plates 100 x 150 mm, hot-dip galvanized, powder-coated yellow with black warning stripes



Height	Depth	approx.kg	Part-No.
2000 mm	250 mm	7.5	477.80BG

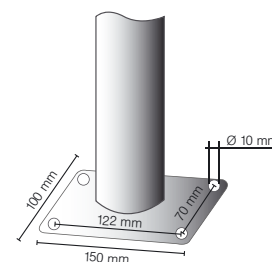


L-shape hoop

with fixing plates 100 x 150 mm, hot-dip galvanized, powder-coated yellow with black warning stripes, for plugging down



Height	Depth	approx.kg	Part-No.
2000 mm	250 mm	7.0	477.81BG

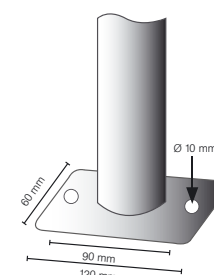
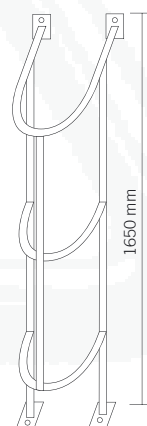


Downpipe guard

Steel tube \varnothing 33,7 mm

For protection around downpipes tubes, cable ducts, etc., inside dimension 220 x 300 mm, hot-dip galvanized, powder-coated yellow with black warning stripes, width 360 mm

Height	Depth	approx.kg	Part-No.
1650 mm	320 mm	12.0	477.82BG



*These articles are manufactured to order.
Orders cannot be cancelled, articles cannot be returned.*

Protective hoop with quarter-bent bar

Round steel tube \varnothing 48 x 2.5 mm

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



Total width	Height above ground	approx.kg	for casting in concrete	for plugging down
			Part-No.	Part-No.
1000 mm	1000 mm	12.0	448.32BG	448.62BG
1500 mm	1000 mm	15.0	448.33BG	448.63BG
2000 mm	1000 mm	17.0	448.34BG	448.64BG

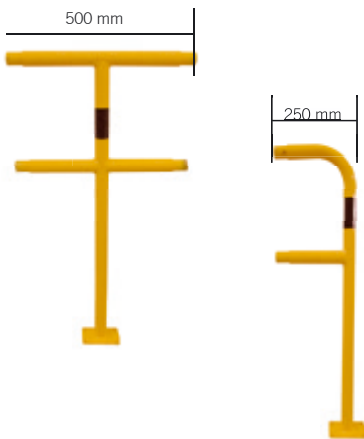
Railing system for universal use, e.g., as internal protective railing to separate traffic aisles or protect terminal boxes, distribution panels, machines, etc. Assembly is very easy: plug together, plug, that's it!



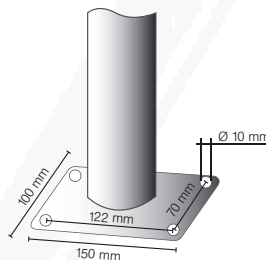
Protective railing

Steel tube \varnothing 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	3.5	448.80PBG
Middle post	4.0	448.81PBG
Corner post	4.0	448.815PBG



Cross bar of steel tube \varnothing 48 mm

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



	approx.kg	Part-No.
length: 500 mm	1.5	448.42BG
length: 1000 mm	3.0	448.43BG
length: 1500 mm	4.5	448.44BG



Set of fastening bolts, see page 173. Protective railings are manufactured to order. Orders cannot be cancelled, railings cannot be returned.



Anti-nudge railing as safety railing for work ways in front of machines, robots, racks, etc. The railing system is available for plugging with or without 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

hot-dip galvanized coated yellow with three black stripes
approx.kg 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 including fastening bolts

Tube length	grid site	approx.kg	Part-No.
800 mm	1000 mm	3.0	4208BG
1300 mm	1500 mm	5.0	4213BG
1800 mm	2000 mm	7.0	4218BG
2300 mm	2500 mm	8.5	4223BG



The cross bars are simply placed in the fixed post holders and bolted together (can also be used as temporary protection without bolts).

Fixed post removable

for the temporary opening of access routes or entrances, fixed post with base plate 150 x 180 mm, for plugging down

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

removable



flexible, tiltable

Fixed post flexible

tiltable to protect the hall floor (compensates impacts without being torn out of the floor) Fixed post with base plate 220 x 220 mm, for plugging down, yellow coated, height approx. 1100 mm

End post for top and knee bar	9.5	4270NPBG
Middle post for top and knee bar	10.0	4271NPBG
Corner post for top and knee bar	10.0	4273NPBG

Cover Ø 200 mm, yellow coated

for protective railing fixed post, flexible 4275BG



Set of fastening bolts, see page 173.



Movable chain post as temporary barrier, with high stability for quick change of site, 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, 900 mm above ground, hot-dip galvanized and yellow coated with three black stripes, with foot plate of recycled material 400 x 400 x 100 mm

approx.kg Part-No.

yellow / black

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 950 mm, with 4 chain holder 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 950 mm, with 4 chain holders integrated in the cap

yellow / black

2.0 4041KBS



For outdoors or indoors

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 foot, side length 300 mm

yellow / black

20.0 4040KBSSET

Chain post set

with round plastic foot that can be filled, Ø 300 mm otherwise same as part-no. 4040KBSSET

yellow / black

14.0 4041KBSSET



Also available in red / white; see page 145.

**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

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

**Plastic barrier chain**

6 mm thick, packing unit 25 m



yellow / black

approx.kg/Unit	Part-No.
2.0	430.06

Plastic connection link

yellow, 6 mm thick
black, 6 mm thick

430.07G
430.07S

**Plastic hook link**

yellow, 6 mm thick
black, 6 mm thick

430.08G
430.08S

**Plastic barrier chain**

8 mm thick, packing unit 25 m



yellow / black

approx.kg/Unit	Part-No.
2.5	430.30

Plastic connection link

yellow, 8 mm thick
black, 8 mm thick

430.16G
430.16S

**Plastic hook link**

yellow, 8 mm thick
black, 8 mm thick

430.17G
430.17S



Other chains and accessories, see pages 170-171.



Warning and protection profiles

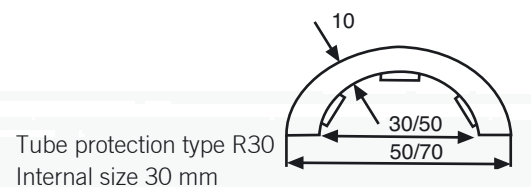
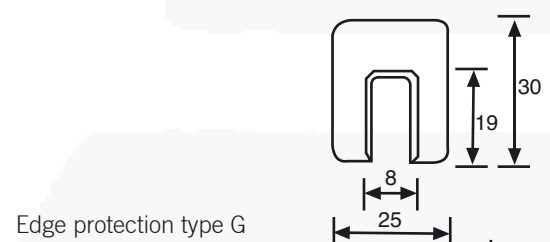
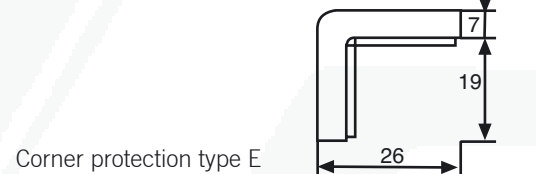
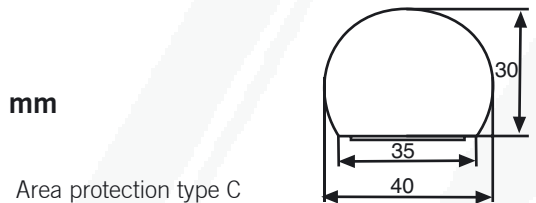
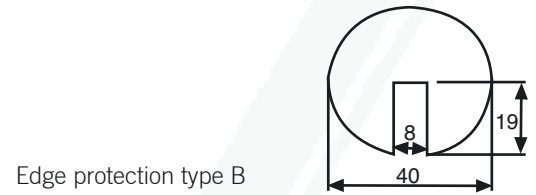
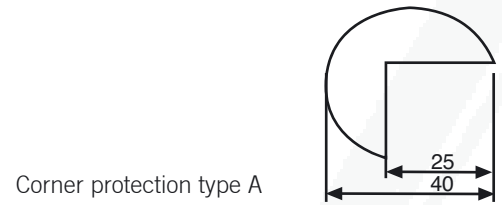
Profile body: Recycling-grade polyurethane foam, without CFC
 Surface: Firmly foamed, PU film dyed by counter pressure, no external paint application
 Adhesive: Acrylate adhesive, adhesive force: 21 N/25 mm
 Temperature resistance: from -40°C to +100°C for indoor and outdoor use
 Fire test: DIN 4102 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
Type A	4110	4510
Type B	4111	4511
Type C	4112	4512
Type D	4113	4513
Type E	4115	4515
Type F	4116	4516
Type G	4119	4519
Type H	4120	4520
Type R30	4117	4517
Type R50	4114	4514



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 poles

Outdoor equipment

Works protection

Barrier posts



Stainless steel



Barrier elements



Barrier poles



Outdoor equipment



Works protection





Barrier posts



Stainless steel



Barrier elements



Barrier poles



Outdoor equipment



Works protection



Photo: istockphoto 63335111_Phill • istockphoto 8904026_yngerman