

Product catalogue

IV



The company: SCHAKE

The traditional company SCHAKE was founded in 1908 as a blacksmith and cart smith by Johann Schake in Wetter-Volmarstein. Over the course of decades it expanded to a modern, medium-sized enterprise led by the forth generation of the family, and developed to one of the market leaders in Germany.

Today the company stands for Development, Customer Focus and Quality. SCHAKE as a brand became integrated Europe-wide and continues growing due to products „Made in Germany“. Modern production facilities provide further development of core competencies, so we are able to resume quality and capacity decisions in-house. Product development provides a modern and fast outcome in close collaboration with our customers. We live for our workpieces and focus on an individual production, where SCHAKE products are demanded and used in diverse markets. Additional to the importance of technical characteristics of finished products, our well-trained employees assist our partners with commitment and responsibility in their respective field.

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

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

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

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



Gerald Schake



Ralf Schake



Patrick Schake



Marc Schake



Road construction - pages 06 - 41

Panel fence
Sign holder
Warning light
Traffic panel, base plate
Ramp system, traffic cones
Twine pole
Ground peg



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Wooden mobile fence
Accessories



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Formwork prop
Formwork beam of wood
Formwork accessories
Scaffolding jack
Guard rail clamp
Bracket scaffolding

Product liability:

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

Civil engineering - pages 88 - 95

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Aluminium trench bridge
Special construction



Storage technology - pages 96 - 103

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Special construction



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Road construction

Event

Mobile fence

Building construction

Civil engineering

Storage equipment

Transport equipment

Transport securing device

Road construction





... our advantages

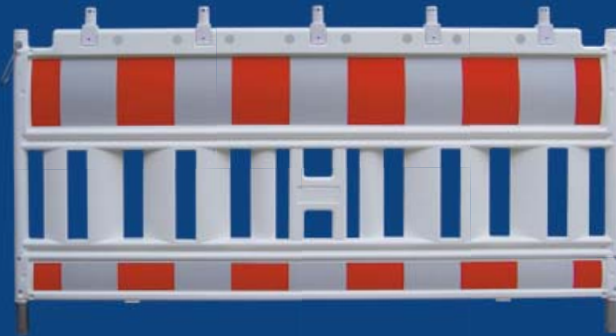
The Schake-Euro1 panel fence

Made of impact-resistant plastic with high-quality film.

The competence of our company has grown from tradition. The improvement of products and services and the implementation of creative and innovative solutions are results of this competence.

The Euro panel fence series is an offspring of our experience. The Euro1 barrier fence series has been tested to meet the requirements of TL barrier fences, including fall arresters.

Rely on our experience.



Higher stability and less weight due to optimum use of materials



Integrated carrying handle for better handling



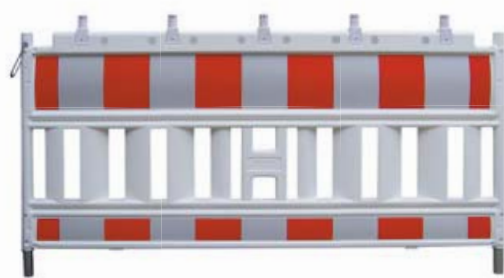
Larger advertising area for customer logos
Size of the advertising area:
95 mm x 172 mm



Euro panel fence sign
individual customer logo printed in up to 4 colours, for fixing at recess
95 mm x 172 mm



The vertical tube running the full length from top to bottom, provides extra stability.



Schake-Euro1 panel fence, type BASIC

of ultraviolet-resistant, impact resistant plastic

Tested according to TL blocking technology 97,
Length 2.00 m, complies with ZTV-SA requirements,
Optionally with assembled lamp adapters

Test number: 333/04K

Film RA1	Part-No.	Kg	Unit
Without lamp adapter, red / white	33420K	14.5	20
With assembled lamp adapter, red / white	33420KA	16.0	20
Test number: 333/04K			

Film RA2	Part-No.	Kg	Unit
Without lamp adapter, red / white	33420K2	14.5	20
With assembled lamp adapter, red / white	33420KA2	16.0	20
Test number: 333/04K			



Film RA1	Part-No.	Kg	Unit
Without lamp adapter, red / yellow	33420KSK	14.5	20
With assembled lamp adapter, red / yellow	33420KASK	16.0	20

Film RA2	Part-No.	Kg	Unit
Without lamp adapter, red / yellow	33420K2SK	14.5	20
With assembled lamp adapter, red / yellow	33420KA2SK	16.0	20

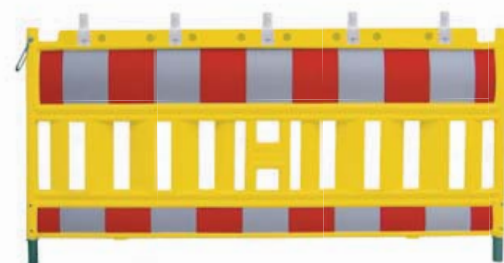
Film RA3	Part-No.	Kg	Unit
Without lamp adapter, red / yellow	33420K3SK	14.5	20
With assembled lamp adapter, red / yellow	33420KA3SK	16.0	20



Schake-Euro1 panel fence, type INDUSTRY

of ultraviolet-resistant, impact resistant plastic (RAL 1023)
with film RA1 (no TL test), length 2.00 m

	Part-No.	Kg	Unit
Without lamp adapter, yellow / black	33420K-I	14.5	20
With assembled lamp adapter, yellow / black	33420KA-I	16.0	20



Schake-Euro1 panel fence, type BASIC YELLOW

of ultraviolet-resistant, impact resistant plastic (RAL 1023, yellow)
with film RA1 (no TL test), length 2.0 m

	Part-No.	Kg	Unit
Without lamp adapter, red / white	33420K-G	14.5	20
With assembled lamp adapter, red / white	33420KA-G	16.0	20



Schake-Euro1 panel fence, type BASIC ORANGE

of ultraviolet-resistant, impact resistant plastic (RAL 2004)
with film RA1 (no TL test), length 2.00 m

	Part-No.	Kg	Unit
Without lamp adapter, red / white	33420K-O	14.5	20
With assembled lamp adapter, red / white	33420KA-O	16.0	20

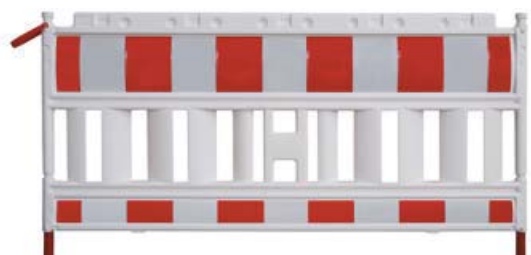


Schake-Euro1 panel fence, Typ BASIC ACHAT

of ultraviolet-resistant, impact resistant plastic with film
RA1 colour: grey

Tested according to TL blocking technology 97,
Length 2.0 m, complies with ZTV-SA requirements,
Optionally with assembled lamp adapters

	Part-No.	Kg	Unit
Without lamp adapter, red / white	33420K-A	14.5	20
With assembled lamp adapter, red / white	33420KA-A	16.0	20



Schake-Euro1 panel fence, Typ ELEKTRO

made of insulating material, TL-compliant
of ultraviolet-resistant, impact resistant plastic with film RA1

Tested according to TL blocking technology 97,
Length 2.0 m, complies with ZTV-SA requirements,
Optionally with assembled lamp adapters

	Part-No.	Kg	Unit
Without lamp adapter, red / white	33420KE	12.5	20
With assembled lamp adapter, red / white	33420KAE	14.0	20

Adapter for panel fence to TL

for all common lamp types, incl. locking screw

	Part-No.	Kg	Unit
Plastic	33325	0.12	100

Connecting clamp (patented)

for all traffic panel types, incl. screw closure, plastic

	Part-No.	Kg	Unit
	3VB20	0.5	20



Can be used
with all
traffic panel types.

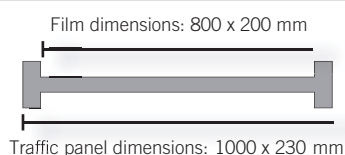
Traffic panel flat (also for EURO1 panel fence)

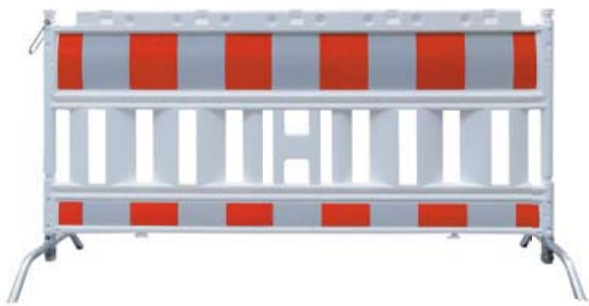
film on both sides, made of plastic

traffic panel dimensions: 1000 mm x 230 mm

film dimensions: 800 mm x 200 mm

	Part-No.	Kg	Unit
Red / white, film RA1	36050	1.5	1
Red / white, film RA2	36050/2	1.5	1
Red / yellow, film RA1	36050SK	1.5	1
Red / yellow, film RA2	36050/2SK	1.5	1
Red / yellow, film RA3	36050/3SK	1.5	1





Schake-Euro1 panel fence, 2.00 m, with steel foot, pivotable

of ultraviolet-resistant, impact resistant plastic with film RA1, prepared for replaceable adapters, total height: 1.00 m (no TL test), length 2.00 m

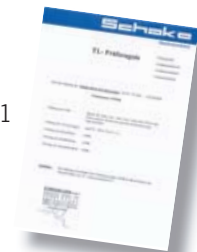
	Part-No.	Kg	Unit
Without lamp adapter, red / white	33420KF	18.0	20



Plastic panel fence Euro

of ultraviolet-resistant, impact resistant plastic with film RA1

	Part-No.	Kg	Unit
Length: 2.40 m, indicating right	33324KSBR	14.0	20
Length: 2.40 m, indicating left	33324KSBL	14.0	20



Schake-Euro panel fence

of ultraviolet-resistant, impact resistant plastic

Length 1.20 m or 1.60 m, tested according to TL blocking technology 97, complies with ZTV-SA requirements, Test number 333/04K (length 2.40 m no TL test)

With film RA1	Part-No.	Kg	Unit
Length: 1.20 m, without assembled lamp adapter	33312K	8.0	20
Length: 1.20 m, with assembled lamp adapter	33312KA	8.5	20
Length: 1.60 m, without assembled lamp adapter	33316K	10.0	20
Length: 1.60 m, with assembled lamp adapter	33316KA	11.0	20
Length: 2.40 m, without assembled lamp adapter	33324K	14.0	20
Length: 2.40 m, with assembled lamp adapter	33324KA	16.0	20

With film RA2	Part-No.	Kg	Unit
Length: 1.20 m with assembled lamp adapter	33312K2	8.0	20
Length: 1.60 m with assembled lamp adapter	33316K2	10.0	20
Length: 2.40 m with assembled lamp adapter	33324K2	14.0	20



Crowd barrier made of plastic

total length 2.00 m, white, safe and quick installation by integrated turning feet, simple linkup by hook and eye system, total height 1.00 m

	Part-No.	Kg	Unit
Without film	33320KRF	12.5	20
With film RA 1, red / white	33320KDRF	13.0	20
With film RA 2, red / white	33320KDRF2	13.0	20
With film RA 1, red / yellow	33320KDRFSK	13.0	20
With film RA 1, yellow / black	33321KDRF	13.0	20





Plastic safety fence

extra tear-resistant and hard-wearing safety fence in plastic (HDPE), versatile applications for e.g. temporary barriers, garden- and landscape areas. Mesh size: 80 x 40 mm, height: 1.00 m, length: 50 m each roll. UV resistant, colour: orange

	Part-No.	Kg	Unit
Plastic	35700	6.5	1



Barricade panel to TL

a barrier suitable for many purposes, of galvanized steel sheet with UVV safety edges, provided with red / white reflecting film RA1, lateral universal holders for combination with panel fence



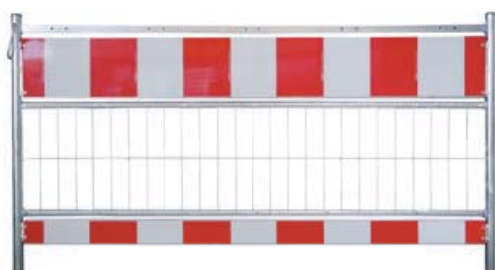
	Part-No.	Kg	Unit
Length: 1.60 m, height 100 mm	32016	2.5	2
Length: 2.00 m, height 100 mm	32020	3.5	2
Length: 2.40 m, height 100 mm	32024	4.5	2
Length: 1.60 m, height 250 mm	33162	5.0	2
Length: 2.00 m, height 250 mm	33202	6.0	2
Length: 2.40 m, height 250 mm	33242	7.0	2



Panel pole holder

for mounting of barricade panels, galvanized steel construction with welded flanges for the barricade panel's universal holders, height: 1.10 m

	Part-No.	Kg	Unit
Galvanized	35110	5.0	10



Panel fence to TL

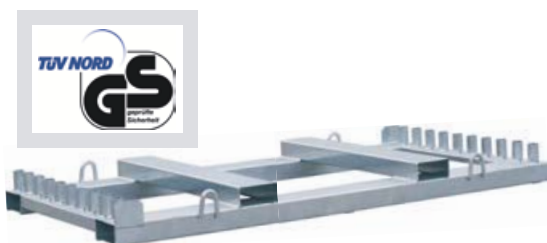
suitable for securing ditches and other construction sites, galvanized tubular steel frame, with Ø 42.4 mm vertical tubes and Ø 26.9 mm horizontal tubes, metal mesh welded between the tubes suitable for securing ditches of 1.25 m depth or deeper, with riveted barrier (height: 250 mm) and riveted touch strip (height: 100 mm) and reflecting red / white film, design with holes for lamp holders

	Part-No.	Kg	Unit
Length: 1.60 m, film RA1	33316	19.0	20
Length: 2.00 m, film RA1	33320	24.0	20
Length: 2.40 m, film RA1	33324	28.0	20
Length: 1.60 m, film RA2	333162	19.0	20
Length: 2.00 m, film RA2	333202	24.0	20
Length: 2.40 m, film RA2	333242	28.0	20
Length: 1.60 m, film RA 1, red / yellow	33316SK	19.0	20
Length: 2.00 m, film RA 1, red / yellow	33320SK	24.0	20
Length: 2.40 m, film RA 1, red / yellow	33324SK	28.0	20
Length: 1.60 m, film RA 2, red / yellow	333162SK	19.0	20
Length: 2.00 m, film RA 2, red / yellow	333202SK	24.0	20
Length: 2.40 m, film RA 2, red / yellow	333242SK	28.0	20



Several panel fences can be put together by loops.





Storage and transport pallet

for panel fences, galvanized steel structure, suitable for transport by fork-lift or movement by crane, holds 20 units, available for barrier fences of 2.00 m or 2.40 m size

	Part-No.	Kg	Unit
Length: 2.00 m, galvanized	32000	80.0	1
Length: 2.40 m, galvanized	32400	90.0	1

Adaptation for base plate

sturdy steel construction, can be combined with the storage and transport pallet (Part-No. 32000). Easy to install, no screws. The adaptation holds up to 16 K1 foot plates (Part-No.: 31991). When the adaptation is installed, the storage capacity of the storage and transport pallet is reduced to 10 panel fences. The 10 panel fences hold the top art in place without extra screws. You get a compact set of panel fences with foot plates ideal for practical application

Length: approx. 2.00 m, depth: approx. 0.45 m



	Part-No.	Kg	Unit
Galvanized	32000-A	18.5	1

Stackable pallet for transportation of 20 panel fence

with removable cross tubes for simple loading / unloading, fork opening on both sides, safe transport by 8 welded guides, the panel fences are placed on welded elevated cross tubes, suitable for transport by forklift or crane, the tulip shape of the feet adds stability to the pallet stacks. Inside dimensions: 1.80 m x 1.10 m, cross tube height: 1.08 m

	Part-No.	Kg	Unit
Galvanized	32001	67.00	1

Stackable pallet for base plates

suitable for holding 21 base plates (3 base plates wide and 7 base plates high), vertical tubes and cross tubes made of 50 mm x 50 mm square tube, Inside dimension: 1.30 m x 0.63 m x 0.90 m, with additional center tube, can be handled by forklift, platform floor truck or crane, the tulip shape of the feet adds stability to the pallet stacks. Lashing strap for securing the foot plates will be supplied.

	Part-No.	Kg	Unit
Painted	50380	32.0	1
Galvanized	50380V	32.0	1



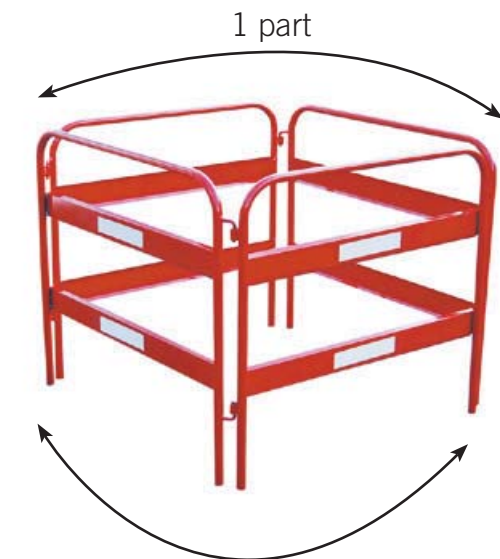
Storage and transport rack for base plates

storage and transport rack for base plates to take 25 K1 base plates of any producer, in combination with storage and transport pallet for panel fences (part-no. 32000, page 20), stackable

	Part-No.	Kg	Unit
Galvanized	3B214	85.0	1



Please find our whole product range of base plates on pages 26-28.



Shaft safety guard

for safety of shaft work and on other sites, red coated steel frame with attached white reflecting stripes for extra safety. Base frame made of Ø 26.9 mm round tube, total height: 0.90 m, each consists of 2 hinged round arcs, connected pivotably but firmly, any length is possible simply by adding further elements

	Part-No.	Kg	Unit
1.00 m wide, 2-part	35600	30.0	1
1.20 m wide, 2-part	35620	32.0	1

Shaft safety guards acc. to TL

for safety of shaft work and on other sites, galvanized tubular steel frame, made of Ø 26.9 mm round tube, metal mesh welded in between the tubes, with riveted barrier (height: 250 mm) and riveted touch strip (height: 100 mm) with reflecting red / white film RA1, total height: 1.00 m, each consists of 2 hinged grates connected pivotably but firmly, any length is possible simply by adding further elements.

	Part-No.	Kg	Unit
1.00 m x 1.00 m, 2-part	34600	40.0	1
1.60 m x 1.60 m, 2-part	34601	58.0	1
2.00 m x 2.00 m, 2-part	34602	70.0	1

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Each element consists of 2 hinged grates connected pivotably but fix, extension without limit is possible simply by adding further elements.

Folding barrier

designed for universal use, simple set up, space-saving storage by folding the riveted flat bars (30 mm x 5 mm) together, for warning purposes, the flat bars have alternating coatings of red and white, stability of the barrier is obtained by the wide feet, total height: 1.00 m

	Part-No.	Kg	Unit
Can be extended to 2.50 m, red / white	35500	24.0	1
Can be extended to 3.50 m, red / white	35510	26.0	1
Can be extended to 2.50 m, yellow / black	35500-I	24.0	1
Can be extended to 3.50 m, yellow / black	35510-I	26.0	1

Accessories bag for folding barrier

consists of: 2 x adapter 35500A, 2 x clip 35500S, 4 x roll 35500R und 2 sets of screws

Part-No.	Kg	Unit
35500Z	2.0	1

Warning sign holder

for use in road traffic, traffic signs can be fastened by bolts, for round traffic signs up to Ø 750 mm, for triangular traffic signs up to 900 mm, a holder for a warning flag is also available, the sign holder is collapsible for simple, space-saving transport

Galvanized	Part-No.	Kg	Unit
	35100V	10.0	5

The RSA manual – Guidelines for safety of workplaces

The RSA manual comments the „Guidelines for the safety of workplaces (RSA95)“. The purpose is to make the preparation, correct layout, implementation and monitoring of workplaces easier for users of the RSA.

The RSA manual is ought to contribute an easier understanding and interpretation of current and new regulations. To facilitate handling the ZTV-SA more comfortable for users, the commentary contains all information already known or available from other rules, regulations, etc. Definitions and a comprehensive index help obtaining a clearview.

The ZTV-SA 97 were introduced by the German Federal Minister for Transport (BMV) by ARS Road construction No.34/1997 together with nine Technical Terms of Delivery by ARS Road construction No.35/1997 (cf. part III). They find uniform application for all streets and roads.

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Abbreviations used:

RSA: Guidelines for the safety of workplaces

ZTV-SA: Additional technical terms of contract and guidelines for safeguarding roadwork

BAST: German federal Highway Research Institute

TL: Technical terms of delivery



More information on stability according to TL can be found on page 26.

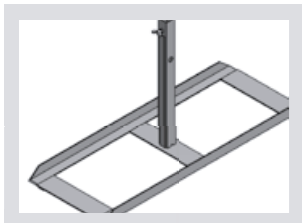
Certificates, technical datasheets, general terms of business, product descriptions, etc. are available at the Download Center in the internet:

www.schake.info

Printed copies of the RSA-manual can be ordered from us:

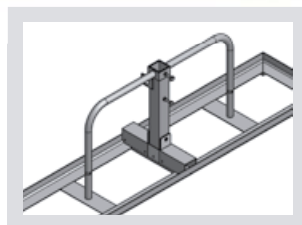
Part-No.	Kg	Unit
3RSA	0.5	1



**Sign holder to TL type K**

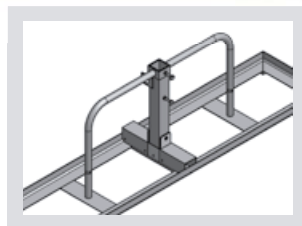
for shaft tubes of 40 mm x 40 mm. Several tubes can be held securely by an adjusting screw. A hole in the vertical bar is provided so the holders can be moved by crane. 4 feet welded under the base frame add stability to the sign holder. Up to 4 foot plates can be held. The base plates are put on the vertical bar, to secure a safe fixation. Basic size: 1200 mm x 450 mm. Weight class K4. For installation, please refer to ZTV-SA

	Part-No.	Kg	Unit
Galvanized	35304	16.4	10

**Sign holder to TL type G**

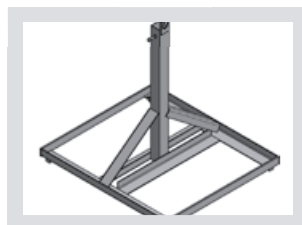
for shaft tubes of 40 mm x 40 mm and 60 mm x 60 mm. Several shaft tubes can be held securely by 2 adjusting screws. A welded tab is provided for transport by crane. 4 feet welded under the base frame add stability to the sign holder. Up to 8 foot plates can be held, 4 plates stacked on each side. A separate clamp holds the base plates so they cannot be displaced. Basic size: 1920 mm x 450 mm. Weight class K8. For installation, please refer to ZTV-SA

	Part-No.	Kg	Unit
Galvanized	35301	23.0	5

**Sign holder to TL type U**

same as type G, but with collapsible vertical bar for space-saving storage and transport. Basic size: 1920 mm x 450 mm. Weight class K8. For installation, please refer to ZTV-SA

	Part-No.	Kg	Unit
Galvanized	35305	24.0	5

**Sign holder type S**

very robust welded construction of angle irons. Suitable for shaft tubes of 40 mm x 40 mm and 60 mm x 60 mm size. Several shaft tubes can be held securely by 2 adjusting screws. A welded tab is provided for transport by crane, the elevated position of the hook allows the transport of sign holders with foot plate. 4 feet welded under the base frame add stability to the sign holder. Each bottom foot plate is held in place by the frame. Can hold up to 6 foot plates. Basic size: 880 mm x 990 mm

	Part-No.	Kg	Unit
Galvanized	35304S	32.0	5



The shown base plates are not part of the delivery. Please order separately. Please find our whole product range of feet on pages 26-28.



Concrete set up device

made for versatile use for traffic signs, portable by crane and forklift, stackable, including hole 60 x 60 mm and 4 threaded bolts for mounting different adaptations for individual use

	Part-No.	Kg	Unit
600 kg	3F120	600.0	1
1000 kg	3F121	1000.0	1



Adaptation for concrete fixture

with holes for 40 x 40 mm and 60 x 60 mm square tubes or round tubes, sign tubes can be fixed by 4 screws

	Part-No.	Kg	Unit
Galvanized	3F120-1	4.0	1



Logo sign for concrete set up device

with individual printing, in 4 colours, 3 mm thick, 2 bores for fixing at device (incl. fixing material)

	Part-No.	Kg	Unit
Plastic	ASV-Logo	0.5	24



Warning sign for concrete set up device

for higher safety requirements in terminal areas (incl. fixing material)

	Part-No.	Kg	Unit
Plastic with film type1	ASV-605	0.5	24



Swivel base jack

for uneven ground, to ensure assembling according to rules, the easy insertion of swivel base jacks enables a horizontal assembly

	Part-No.	Kg	Unit
Galvanized	70670N	2.5	4



Sign holder type L

steel construction with telescoping inner tubes, pivotable feet and plate tube with 2 clamps for holding signs. Simple fixing of signs without separate shaft tube. Extension length: 2.10 – 2.90 m

	Part-No.	Kg	Unit
Galvanized	35300	11.0	10

Ground peg type L1

drive-in shaft tube of Ø 42 mm round tube with welded tip. Including plate tube with 2 clamps for holding signs. Simple fixing of signs without separate shaft tube. Extension length: 2.10 – 2.90 m

	Part-No.	Kg	Unit
Galvanized	35312	10.0	20

Ground peg type standard 40 to TL

for inserting 40 mm x 40 mm shaft tubes and Ø 42 mm shaft tubes. Sharpened T-profile, with welded plate for driving the peg into the ground. Troughed sheet protects the peg from torsion. Driving depth: 490 mm

	Part-No.	Kg	Unit
Galvanized	35302	5.0	10

Ground peg type standard 60 to TL

for inserting 60 mm x 60 mm shaft tubes and Ø 60 mm sign poles. Sharpened T profile, with welded plate for driving the peg into the ground. Troughed sheet protects the peg from torsion. 2 adjusting screws hold the shaft tube in the peg. Driving depth: 460 mm

	Part-No.	Kg	Unit
Galvanized	35303	8.0	10

Ground peg type N1

for inserting round tubes up to Ø 50 mm. Pointed T profile, with welded plate for driving the peg in the ground. 2 cross tubes protect the peg from torsion. A wedge clamps the round tube in the peg

	Part-No.	Kg	Unit
Galvanized	35308N	11.0	10

Ground peg type S

massive type of 40 mm round steel, with head for driving the peg into the ground, for 40 mm x 40 mm and 60 mm x 60 mm shaft tube, incl. hexagon socket screws for securing the shaft tubes, 2 hoops for extraction are welded for an easier deplacing of signage

	Part-No.	Kg	Unit
Powder-coated in black	35309S	19.0	10



Crash barrier holder Type 1

galvanized steel, for mounting on crash barrier posts „Sigma“ and for intaking shaft tubes 40 mm x 40 mm and 60 mm x 60 mm
shaft tubes are fixed by hexagon socket tubes

	Part-No.	Kg	Unit
Galvanized	35313-40	6.5	10



Crash barrier holder Type 2

galvanized steel, for intaking shaft tubes 40 mm x 40 mm and 60 mm x 60 mm, fixed on crash barrier post (Super-Rail, Sigma, IPE 100) by inserted nuts
proved by TL 97

	Part-No.	Kg	Unit
Galvanized	35315	7.8	10



Crash barrier holder Type 3 with side beam

galvanized steel, for mounting on crash barrier (Super-Rail, Sigma, IPE 100) and for intaking shaft tubes 40 mm x 40 mm and 60 mm x 60 mm, with side beam (length ca. 800 mm) for installation out of the traffic area, proved by TL 97

	Part-No.	Kg	Unit
Galvanized	35314	18.0	10



Sign holder

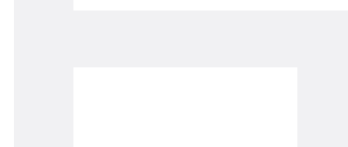
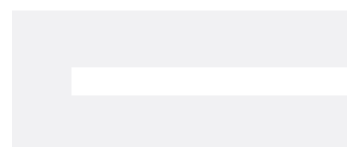
for sign tube 50 mm x 50 mm, for traffic sign max. 40 mm depth, incl. locking screws

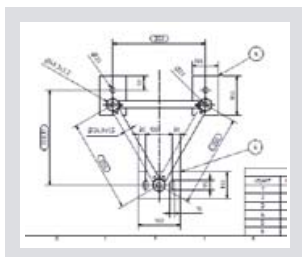
	Part-No.	Kg	Unit
Galvanized	35361	3.0	20

Stillage

for traffic signs of square tube, galvanized, 60 mm x 60 mm, 1.5 m long, respectively 50 mm x 50 mm, 3.0 m long, welded at a total length of 4.5 m

	Part-No.	Kg	Unit
Galvanized	35360	21.0	10





Latice tower

for fixing of signs, galvanized steel construction with 3 vertical tubes
 \varnothing 48.3 mm and diagonal tubes \varnothing 26.9 mm,
 type: triangle tube pole, total length: 5.3 m

Galvanized

Part-No.	Kg	Unit
353016	69.5	1



Adaptation plate for tube tower and concrete set up device

for connecting on concrete set up device part-no. 3F120 and 3F121

Galvanized

Part-No.	Kg	Unit
3F120-2	32.0	1



Adapter for signs

Adapter 410 mm length for signs. For insertion of shaft tube 40 mm x 40 mm,
 total length 560 mm, including 2 screws for fastening signs. Can be fixed to the
 sign and inserted in the shaft tube very quickly

Galvanized

Part-No.	Kg	Unit
35304A	2.0	10

Stackable pallet for signs

Stackable pallet for 30 signs of \varnothing 48.3 mm x 3.2 mm round tube. The signs
 with fitted adapters (35304A) can readily be inserted in the socket and are
 available for quick removal and in neat order. The bars can be taken out, which
 makes loading / unloading and compact storage easier. The sockets avoid
 displacement of the signs during transport

Galvanized

Part-No.	Kg	Unit
50190	69.0	1



TL shaft tube

galvanized, made of square tube 40 mm x 40 mm, tested acc. to TL-Device installation

	Part-No.	Kg	Unit
Length: 1.30 m	34013	2.5	25
Length: 2.00 m	34020	4.0	25
Length: 2.50 m	34025	5.0	25
Length: 3.00 m	34030	6.0	25
Length: 3.50 m	34035	7.0	25

Shaft tube ALU

aluminium square tube 40 mm x 40 mm, TL prooved

	Part-No.	Kg	Unit
Length: 2.00 m	34020A20	1.7	25
Length: 2.50 m	34025A20	2.0	25
Length: 3.00 m	34030A20	2.4	25
Length: 3.50 m	34035A20	3.0	25

Shaft tube adaptation

for storage and transport rack (part-no. 3B214, page 12) the adaptation is simply beeing hooked in the rack, a safe storage and transport is possible, the shaft tubes are secured against slipping and falling out by this adaption

	Part-No.	Kg	Unit
Galvanized	3B214-1	12.0	2

Shaft tube

galvanized, made of round tube, Ø 42 mm

	Part-No.	Kg	Unit
Length: 1.30 m	34213	2.5	25
Length: 2.00 m	34220	4.0	25
Length: 2.50 m	34225	5.0	25
Length: 3.00 m	34230	6.0	25

Shaft tube, plastic

red, sturdy design Ø 42 mm, with press-fitted shoe

	Part-No.	Kg	Unit
Length: 1.35 m	39013	1.26	10
Length: 2.00 m	39020	1.82	10

Tube shoe

made of plastic 60 mm x 60 mm, for shaft tubes

	Part-No.	Kg	Unit
Plastic	34240	0.1	100



**Sign clamp**

made of plastic, suitable for square tubes 40 mm x 40 mm and round tubes Ø 42 mm, with eyes for mounting barriers

	Part-No.	Kg	Unit
Plastic	31315	0.2	100

**Sign clamp**

made of plastic, suitable for square tubes 40 mm x 40 mm and round tubes Ø 42 mm

	Part-No.	Kg	Unit
Plastic, red	31313	0.12	150
Plastic, white	31313W	0.12	150

**Sign clamp**

suitable for square tubes 40 mm x 40 mm and round tubes Ø 42 mm

	Part-No.	Kg	Unit
Galvanized	31310	0.2	25

**Sign clamp**

suitable for square tubes 40 mm x 40 mm and round tubes Ø 42 mm, with welded hooks for mounting of barriers

	Part-No.	Kg	Unit
Galvanized	31311	0.35	25

**Sign clamp**

suitable for square tubes 40 mm x 40 mm and round tubes Ø 42 mm, with welded eyes for mounting of barriers

	Part-No.	Kg	Unit
Galvanized	31312	0.3	25



Building site warning light

with LED technology, constant flashing light, two-sided, optics Ø 180 mm, with holder and battery box, for 2 x 6 volt batteries, with automatic dusk-to-dawn function

	Part-No.	Kg	Unit
Yellow Optical system	31211G	1.1	10
Red Optical system	31211R	1.1	10



Signal light for traffic panels „PowerNox“

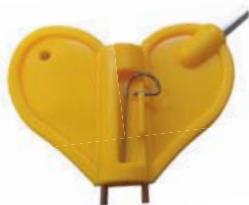
with LED technology, for mounting on safety traffic panels and barrier fences, for one-side or double-side safety of multi-lane roads and motorways, with integrated battery box and dusk-to-dawn function

BAST tested

	Part-No.	Kg	Unit
Light exits on one side, yellow	33NOXG1	1.0	10
Light exits on both sides, yellow	33NOXG2	1.0	10
Light exits on one side, red	33NOXR1	1.0	10
Light exits on both sides, red	33NOXR2	1.0	10

With connection lock

Light exits on one side, yellow	34NOXG1	1.0	10
Light exits on both sides, yellow	34NOXG2	1.0	10
Light exits on one side, red	34NOXR1	1.0	10
Light exits on both sides, red	34NOXR2	1.0	10



Spare key for building site warning light

	Part-No.	Kg	Unit
Plastic	31211S	0.1	10



Block battery 6V / 7AH (7000 milliampere-hours)

High load, constant light for up to 280 hrs., flashing light up to 1850 hrs.

	Part-No.	Kg	Unit
Zinc-carbon battery	3B37	0.5	24



Battery box

suitable for 2 x 6 volt batteries

	Part-No.	Kg	Unit
Plastic	3B30	0.5	1



Foto: istockphoto 522655773

36056L
Indicating left36056R
Indicating right**TL safety traffic panel type 60B**

for universal protection of building sites, continuous support tube, with welded plate for mounting in the base plate, film red / white attached on both sides, reflecting, film area protected by outer edge, socket 60 mm x 60 mm

Film RA1, hatched

	Part-No.	Kg	Unit
On both sides indicating right / left	36056	4.0	60
On one side indicating left	36056L	4.0	60
On one side indicating right	36056R	4.0	60
On both sides indicating left	36056LL	4.0	60
On both sides indicating right	36056RR	4.0	60

Film RA2, hatched

	Part-No.	Kg	Unit
On both sides indicating right / left	36056/2	4.0	60
On one side indicating left	36056/2L	4.0	60
On one side indicating right	36056/2R	4.0	60
On both sides indicating left	36056/2LL	4.0	60
On both sides indicating right	36056/2RR	4.0	60

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**BAST tested, test number: 1121, approval with base plate 31992 see below
approval with signal light for TL traffic panel see below, system test number: 1121J45**

**TL traffic panel base plate 32 Kg**

for installation of barrier fences, shaft tubes or building site fences, made of recycled plastic material, with side carrying handles for ease of handling, pockets: 1 pocket: 40 mm x 40 mm, 1 pocket: 60 mm x 60 mm and 2 pockets:

Ø 42 mm, size: width: 425 mm, length: 850 mm, height: 120 mm

Tested acc. to: BAST, test No.: 45

	Part-No.	Kg	Unit
Plastic recycling	31992	32.0	30

Signal light for TL traffic panel

with LED technology, for mounting on safety traffic panels, for one-side or double-side safety of multi-lane roads and motorways, including automatic dusk-to-dawn function, **BAST tested**



	Part-No.	Kg	Unit
Light exits on one side, yellow	312112G	0.9	10
Light exits on both sides, yellow	312113G	0.9	10
Light exits on one side, red	312112R	0.9	10
Light exits on both sides, red	312113R	0.9	10



36055L
Indicating left



36055R
Indicating right



36055PL
Indicating left



36055PR
Indicating right



Indicating left



Indicating right

Plastic traffic panel type 60

for universal protection of building sites, film red / white attached on both sides, area protected by outer edge, socket 60 mm x 60 mm, top socket Ø 42 mm for lamp mounting

Film RA1, hatched	Part-No.	Kg	Unit
On both sides indicating right / left	36055	2.0	60
On one side indicating left	36055L	2.0	60
On one side indicating right	36055R	2.0	60
On both sides indicating left	36055LL	2.0	60
On both sides indicating right	36055RR	2.0	60

Film RA2, hatched	Part-No.	Kg	Unit
Double-sided indicating right / left	36055/2	2.0	60
On one side indicating left	36055/2L	2.0	60
On one side indicating right	36055/2R	2.0	60
On both sides indicating left	36055/2LL	2.0	60
On both sides indicating right	36055/2RR	2.0	60

Film RA1, arrowed	Part-No.	Kg	Unit
Double-sided indicating right / left	36055P	2.0	60
On one side indicating left	36055PL	2.0	60
On one side indicating right	36055PR	2.0	60
On both sides indicating left	36055PLL	2.0	60
On both sides indicating right	36055PRR	2.0	60

Film RA2, arrowed	Part-No.	Kg	Unit
On both sides indicating right / left	36055P/2	2.0	60
On one side indicating left	36055P/2L	2.0	60
On one side indicating right	36055P/2R	2.0	60
On both sides indicating left	36055P/2LL	2.0	60
On both sides indicating right	36055P/2RR	2.0	60

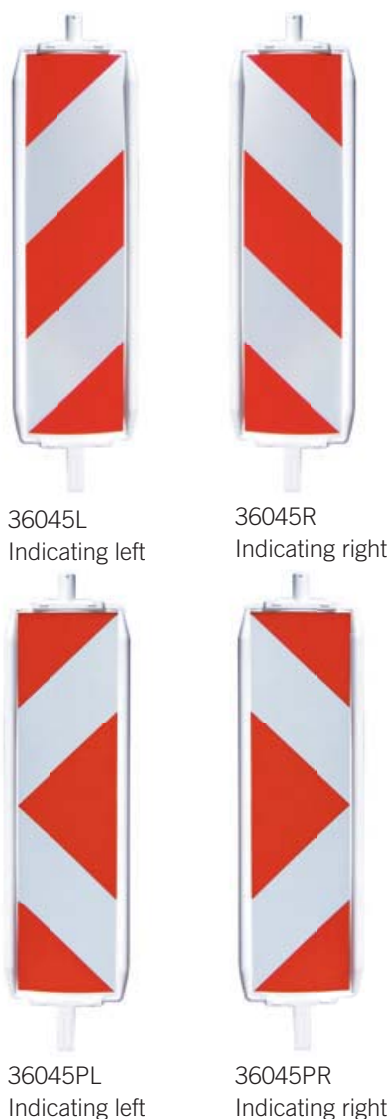
Film RA3, hatched	Part-No.	Kg	Unit
On both sides indicating right / left	36055/3	2.0	60

Plastic traffic panel type 60W

for universal protection of building sites, film red / white attached on both sides, area protected by outer edge, socket 60 mm x 60 mm, on both sides

Suitable as turn traffic panel

	Part-No.	Kg	Unit
Film RA1, hatched	36055W1	2.0	60
Film RA2, hatched	36055W2	2.0	60
Film RA3, hatched	36055W3	2.0	60

**Plastic traffic panel type 40**

for universal protection of building sites, film red / white attached on both sides, area protected by outer edge, socket 40 mm x 40 mm, top socket Ø 42 mm for transport and storage frame

Film RA1, hatched

	Part-No.	Kg	Unit
On both sides indicating right / left	36045	2.0	60
On one side indicating left	36045L	2.0	60
On one side indicating right	36045R	2.0	60
On both sides indicating left	36045LL	2.0	60
On both sides indicating right	36045RR	2.0	60

Film RA2, hatched

	Part-No.	Kg	Unit
On both sides indicating right / left	36045/2	2.0	60
On one side indicating left	36045/2L	2.0	60
On one side indicating right	36045/2R	2.0	60
On both sides indicating left	36045/2LL	2.0	60
On both sides indicating right	36045/2RR	2.0	60

Film RA1, arrowed

	Part-No.	Kg	Unit
On both sides indicating right / left	36045P	2.0	60
On one side indicating left	36045PL	2.0	60
On one side indicating right	36045PR	2.0	60
On both sides indicating left	36045PLL	2.0	60
On both sides indicating right	36045PRR	2.0	60

Film RA2, arrowed

	Part-No.	Kg	Unit
On both sides indicating right / left	36045P/2	2.0	60
On one side indicating left	36045P/2L	2.0	60
On one side indicating right	36045P/2R	2.0	60
On both sides indicating left	36045P/2LL	2.0	60
On both sides indicating right	36045P/2RR	2.0	60

Film RA3, hatched

	Part-No.	Kg	Unit
On both sides indicating right / left	36045/3	2.0	60

**Storage and transport rack**

easy-to-install frame for 80 safety traffic panels, for space-saving transport, the frame can be taken apart into compact units, including fastening material

	Part-No.	Kg	Unit
Galvanized	36060	58.0	1



TL base plate to K1

for installation of panel fences, shaft tubes or building site fences, made of recycled plastic material, with side carrying handles for ease of handling, pockets: 1 x 40 mm x 40 mm, 1 x 60 mm x 60 mm and 2 pockets Ø 42 mm, width: 400 mm, length: 800 mm, height: 120 mm

	Part-No.	Kg	Unit
Plastic recycling	31991	28.0	30

Tested acc. to: TL Device installation identification K1, Complies with ZTV-SA requirements



TL base plate to K1

for installation of panel fences, shaft tubes or building site fences, made of recycled plastic material, with side carrying handles for ease of handling, pockets: 2 x Ø 42 mm, 1 x Ø 48 mm, 1 x 60 mm x 60 mm and 1 x 40 mm x 40 mm, width: 380 mm, length: 750 mm, height: 130 mm

	Part-No.	Kg	Unit
Plastic recycling	31991-0	28.0	30



Safe stand according to TL

The elements to be supported by device installations are different by area size and arrangement and the installation site; different wind loads must be considered inside or outside towns. Selected safety classes Kx with the respective test forces are listed for different requirements in the table below.

Safety class	K 1	K 2	K 3	K 4	K 5	K 6	K 7	K 8	K 9
Test force P [N]	120	240	360	480	600	720	960	1080	1920

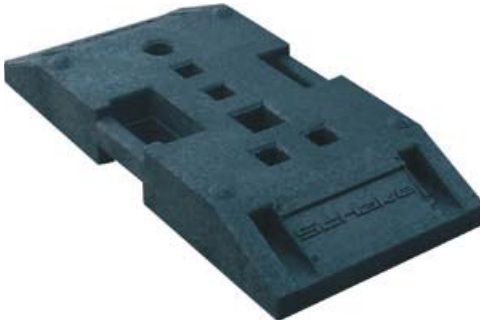
Base plates, base plate supports and stands are assigned to a class according to their stability.

**TL base plate to K1 approx. 38 Kg**

pockets: 1x 40 mm x 40 mm, 1x Ø 42 mm, 1x 60 mm x 60 mm,
1x Ø 48 mm, width: 400 mm, length: 770 mm, height: 100 mm

Plastic recycling

Part-No.	Kg	Unit
31994	38.0	20

**TL base plate to K1 Type NOX**

for installation of panel fences, shaft tubes or building site fences, made of recycled plastic material, with side carrying handles for ease of handling, pockets: 3 x Ø 42 mm / 40 mm x 40 mm combined, 1 x 60 mm x 60 mm and 1 x Ø 48 mm, 1 x 40 mm x 40 mm
width: 400 mm, length: 850 mm, height: 120 mm

Plastic recycling

Part-No.	Kg	Unit
31NOX-0	30.0	30

**Trolley for base plates**

Trolley with inflatable tires for easy handling of base plates part-no. 31NOX by underriding the carry handle

Galvanized

Part-No.	Kg	Unit
51903	15.5	1





Base plate 25 Kg

for installation of barrier fences, shaft tubes or building site fences, made of recycled plastic material, with side carrying handles for ease of handling, pockets: 1x 40 mm x 40 mm, 1x 60 mm x 60 mm and 2 pockets Ø 42 mm, width: 400 mm, length: 800 mm, height: 100 mm

	Part-No.	Kg	Unit
Plastic recycling	31993	25.0	30



Traffic panel stand base plate 12 Kg

for setting up traffic panels, made of recycled plastic material, width: 400 mm, length: 400 mm, height: 100 mm

	Part-No.	Kg	Unit
With pocket 60 mm x 60 mm	38000	12.0	60
With pocket 40 mm x 40 mm	38040	12.0	60



Marking film

for road marking, 12 cm thin-layer

	Part-No.	Kg	Unit
Yellow, BAST tested	3M120G	4.0	100 m
White, not BAST tested	3M120W	4.0	100 m

for road marking, 15 cm thin-layer

	Part-No.	Kg	Unit
Yellow BAST tested	3M150G	5.0	100 m
White, not BAST tested	3M150W	5.0	100 m

For road marking, 12 cm thin-layer

	Part-No.	Kg	Unit
Yellow, BAST tested	3M121G	27.0	100 m

For road marking, 15 cm thin-layer

	Part-No.	Kg	Unit
Yellow, BAST tested	3M151G	34.0	100 m



Primer for marking film

for improved bond between road surface and marking film (**Product is subject of freight restrictions, please inquire separately**)

	Part-No.	Kg	Unit
Content: 7 l	39113	7.0	1



Marking button Ø 120 mm

yellow, for gluing

	Part-No.	Kg	Unit
With two reflecting lenses on one side	39110	0.2	50
With two reflecting lenses on both sides	39111	0.2	50



Marking button Ø 120 mm with flags

yellow, for gluing

	Part-No.	Kg	Unit
With two reflecting lenses on one side	39110F	0.3	50
With two reflecting lenses on both sides	39111F	0.3	50



Aluminium marking nail Ø 100 mm

for gluing

	Part-No.	Kg	Unit
Without reflecting lenses	39120	0.2	50
With shaft for installation without reflecting lenses	39129	0.2	50
With shaft for driving in ground without reflecting lenses pointed	39130	0.2	50



Aluminium marking nail 100 mm x 100 mm

for gluing

	Part-No.	Kg	Unit
Without reflecting lenses	39121	0.2	25
With two reflecting lenses on one side	39122	0.2	25
With two reflecting lenses on both sides	39123	0.2	25



Aluminium marking nail 100 mm x 100 mm

with shaft for installation

	Part-No.	Kg	Unit
With two reflecting lenses on one side	39126	0.2	25
With two reflecting lenses on both sides	39127	0.2	25

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The marking nails are also available with color reflectors (yellow, red)
Shank length: approx. 7- 8 cm, shank diameter: 10 -12 mm

2-component glue

(80 g glue for each marking nail) (Product is subject of freight restrictions, please inquire separately)



	Part-No.	Kg	Unit
	39112	10.0	1



Speed bump

made of recycled material, 430 mm crossing length, center piece width: 500 mm with 4 reflecting lenses, end piece width: 215 mm with reflecting lenses



	Part-No.	Kg	Unit
Center piece, yellow, height: 30 mm	3393-31	6.2	1
Center piece, black, height: 30 mm	3393-30	6.2	1
End piece, yellow, height: 30 mm	3393-31E	1.9	1
End piece, black, height: 30 mm	3393-30E	1.9	1
Center piece, yellow, height: 50 mm	3393-51	10.2	1
Center piece, black, height: 50 mm	3393-50	10.2	1
End piece, yellow, height: 50 mm	3393-51E	2.8	1
End piece, black, height: 50 mm	3393-50E	2.8	1
Center piece, yellow, height: 60 mm	3393-61	13.0	1
Center piece, black, height: 60 mm	3393-60	13.0	1
End piece, yellow, height: 60 mm	3393-61E	3.7	1
End piece, black, height: 60 mm	3393-60E	3.7	1

i

Can be plugged or glued. Fastening material is not part of the delivery.





Speed bump

of rubber, black with yellow fields, 50 mm high, 800 mm crossing length

	Part-No.	Kg	Unit
Center piece, width: 400 mm	3393-55	15,0	1
Start piece with pin, width: 150 mm	3393-55A	5.0	1
End piece without pin, width: 150 mm	3393-55E	5.0	1



Can be plugged or glued. Fastening material is not part of the delivery.



Speed round bump

of recycled material, Ø 425 mm, 50 mm height

	Part-No.	Kg	Unit
Yellow	3393-52	5.6	1

Can be plugged or glued. Fastening material is not part of the delivery.
Speed bump is suitable for heavy truck traffic.

Glue

for installation of speed bumps

	Part-No.	Kg	Unit
Content: 600 ml	39117	0.7	1

Fastening set

consists of bolt Ø 10 x 120 mm, plug Ø 12 x 120 mm and washer

	Part-No.	Kg	Unit
Each	3393-B	0.16	1



Recommended crossing speed for speed bumps

Height	30 mm	50 mm	60 mm
Recommended speed (max.)	30 km/h	20 km/h	10 km/h

"The installation of speed bumps in public roadspace requires official permission"

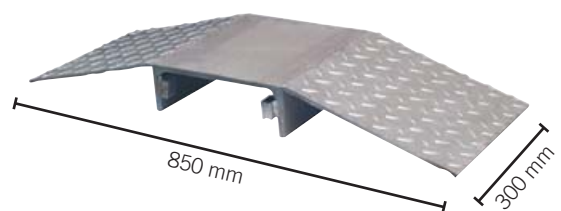




Cable bridge

of recycled material, with 6 ducts, the elements can be connected by an insert, dimensions: 800 mm x 600 mm x 80 mm, without fastening material
Ducts: 2 x 50 x 40 mm and 2 x 30 x 35 mm

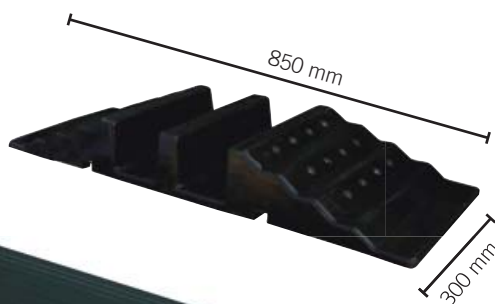
	Part-No.	Kg	Unit
Cable bridge without insert, black	339380	24.6	1
Cable bridge without insert, yellow	339381	24.6	1
Insert, black	339382	4.8	1



Hose and cable bridge

very robust construction to protect supply lines, supports up to 40 tonnes, several bridges can be connected by hooks and eyes welded to the sides, dimensions of passage duct: 220 mm x 300 mm x 80 mm, outer dimensions: 850 mm x 300 mm x 90 mm

	Part-No.	Kg	Unit
Galvanized	33931	24.0	1



Hose and cable bridge

contains 2 ducts for hoses up to 3 inches, including connecting elements, suitable for extension to any length, visible in the dark by reflectors, dimensions of passage duct: 90 mm x 300 mm x 90 mm, outer dimensions: 850 mm x 300 mm x 90 mm

	Part-No.	Kg	Unit
PVC	33933	11.0	1

Rubber ramp system, open underside

(Dimensions in mm)

Passage	Length	Width	Part-No.	Kg	Unit
Ø 42	1500	200	339323	9.0	1

Protection mat for events

with anti-slip naps, mats can be connected by groove joint
Dimension: 1200 mm x 800 mm x 43 mm



	Part-No.	Kg	Unit
Rubber	33901	29.0	1

**Ramp system A**

with 3 ducts for cables and hoses, supports up to 20 tonnes, several bridges can be connected by pins, dimensions of passage duct: 2 x 65 mm x 50 mm and 1 x 55 mm x 50 mm, outer dimensions: 600 mm x 880 mm x 75 mm, including cast-in connecting pin, also suitable for plugging, without fastening material

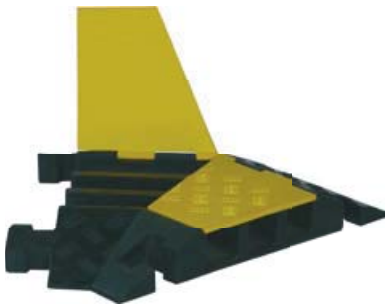
	Part-No.	Kg	Unit
Plastic	33934	20.0	1

**End piece without adapter (system A)**

	Part-No.	Kg	Unit
Plastic	33934E	2.5	1

End piece with adapter (system A)

	Part-No.	Kg	Unit
Plastic	339322A	2.5	1

**Angle 45° with adapter (system A)**

	Part-No.	Kg	Unit
Plastic, angle to right	33932W	5.5	1
Plastic, angle to left	33932WL	5.5	1

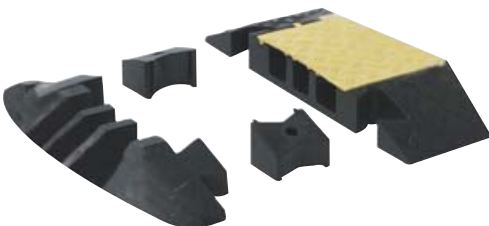
**Ramp system B**

with 3 ducts for cables and hoses, supports up to 40 tonnes, several ramps can be connected by pins, dimensions of passage duct: 50 mm x 50 mm, outer dimensions: 600 mm x 1000 mm x 80 mm, without fastening material

	Part-No.	Kg	Unit
Plastic	33932	20.0	1



Passage ducts are protected by covers that can be opened.
1 set of connecting pins included.

**Connecting pins (system B)**

1 set = 2 pins

	Part-No.	Kg	Unit
Plastic	339321	0.2	1

End piece (system B)

	Part-No.	Kg	Unit
Plastic	33932E	2.5	1



Traffic cones

red / white luminous in daylight, made of strong PVC material, good stability, stackable, for use in warehouses, parking lots, for quick and direct setup

	Part-No.	Kg	Unit
Height: 200 mm	3L200	0.2	10
Height: 320 mm	3L320	0.5	25
Height: 500 mm	3L500	1.2	10
Height: 750 mm	3L750	3.2	5



Traffic cones

yellow or yellow / black luminous in daylight, made of strong PVC material, good stability, stackable, for use in warehouses, parking lots, for quick and direct setup

	Part-No.	Kg	Unit
Height: 320 mm, yellow	3L320G-0	0.5	25
Height: 320 mm, yellow / black	3L320G	0.5	25
Height: 500 mm, yellow	3L500G-0	1.2	10
Height: 500 mm, yellow / black	3L500G	1.2	10
Height: 750 mm, yellow	3L750G-0	3.2	5
Height: 750 mm, yellow / black	3L750G	3.2	5



Traffic cones

blue or blue / white luminous in daylight, made of strong PVC material, good stability, stackable, for use in warehouses, parking lots, for quick and direct setup

	Part-No.	Kg	Unit
Height: 320 mm, blue	3L320B-0	0.5	25
Height: 320 mm, blue / white	3L320B	0.5	25
Height: 500 mm, blue	3L500B-0	1.2	10
Height: 500 mm, blue / white	3L500B	1.2	10





Traffic cones to TL

red / white fully reflecting film RA1, made of strong PVC material, good stability, stackable, see TL Traffic cones, STVO and RSA, for quick and direct setup

	Part-No.	Kg	Unit
Height: 500 mm	3L500TL	2.5	10
Height: 750 mm	3L750TL	5.0	5

Red / white fully reflecting film RA2

	Part-No.	Kg	Unit
Height: 500 mm	3L500TL2	2.5	10
Height: 750 mm	3L750TL2	5.0	5



Traffic cones

red / white fully reflecting film RA2, prismatic, made of strong PVC material, good stability, stackable, see TL Traffic cones, STVO and RSA, for quick and direct setup

	Part-No.	Kg	Unit
Height: 750 mm	3L750P	5.0	5



Traffic cones BAST tested to TL

weight class 3 of TL, film RA1, red / white fully reflecting, acc. to STVO, base plate made of recycled material, anti-slip

	Part-No.	Kg	Unit
Height: 500 mm	3L530TL	2.5	10
Height: 750 mm	3L730TL	5.0	5



Traffic cones with tube flashlight to TL

red / white fully reflecting, acc. to STVO, battery tube for 5 miniature batteries (electron flashlight Ø 180 mm)

	Part-No.	Kg	Unit
Height: 500 mm	3L510TL	3.0	1
Height: 750 mm	3L710TL	5.0	1



Traffic cones with tube flashlight to TL

red / white fully reflecting, acc. to STVO, battery box for 4 block batteries 6V / 7AH (electron flashlight Ø 180 mm)

	Part-No.	Kg	Unit
Height: 750 mm	3L720TL	7.5	1



Barrier strap

top-mounted adapter for all traffic cone types, with 3-meter barrier strap, 52 mm high with spring balancer, total height: 230 mm, housing colour: orange / black, barrier strap colour optional:

	Part-No.	Kg	Unit
Red / white	3A350RW	0.3	1
Yellow / black	3A350GS	0.3	1
Blue / white	3A350BW	0.3	1



Barrier strap

top-mounted adapter for all traffic cone types, with 12-meter barrier strap, 50 mm wide, strap colour: red/white, total height: 290 mm, colour: orange (body) / black (cover), with spring balancer and brake

	Part-No.	Kg	Unit
Strap color red / white	3A351RW	0.3	1



Twine pole – for use in road construction

Standard twine poles are available in sizes 14, 16, 18, 20 mm diameter, placed on the pallet in units of 500 pieces.

Our various accessories allow versatile application in many fields of activity.

The storage and transport pallet (see page 38) offers even easier handling, loading and unloading of the twine poles.

It can be moved by crane and forklift.

Each twin pole undergoes a special forging process, which results in an additional increase in the degree of hardness of the tip of the twine pole.

Twine poles can be used for many applications, from pavement work to professional uses in road construction.



Road construction

Event

Mobile fence

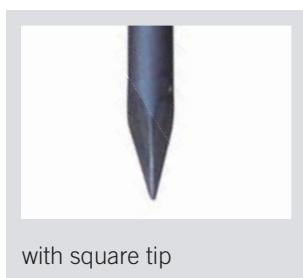
Building construction

Civil engineering

Storage equipment

Transport equipment

Transport securing device



Twine pole

for versatile use in road construction, uncoated, made of commercial steel grade with forged tip for easy driving into the ground, available in different dimensions, including bevel

Diameter 14 mm	Part-No.	Kg	Unit
1000 mm	301410	1.2	500
1200 mm	301412	1.5	500
Diameter 16 mm			
800 mm	301608	1.3	500
1000 mm	301610	1.6	500
1200 mm	301612	1.9	500
Diameter 18 mm			
800 mm	301808	1.6	500
1000 mm	301810	2.0	500
1200 mm	301812	2.4	500
Diameter 20 mm			
800 mm	302008	2.0	500
1000 mm	302010	2.5	500
1200 mm	302012	3.0	500

Other dimensions on request.



Mushroom impact guard, of impact-resistant plastic material

inside 20 mm tapered, for twine poles Ø 16 - 20 mm

	Part-No.	Kg	Unit
For twine poles Ø 16 - 20 mm	301823	0.04	100
For twine poles Ø 20 - 35 mm	301824	0.04	100



Storage and transport pallet

for all current twine poles, welded frame made of square tubes 60 mm x 60 mm x 3 mm, shape made of stable iron sheet, galvanized, twin poles can be taken out perfectly because of staggered positions, pallet can be moved by crane and forklift,

measures: 1200 mm x 800 mm x 820 mm

max. load: 1500 kg



Galvanized

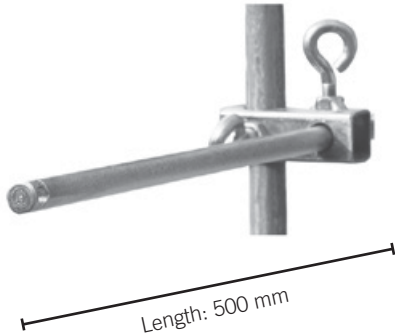
Part-No.	Kg	Unit
50118-5	98.0	1



Plumb line holder

for screw-fitting to twine poles, held by screw, with welded flat iron and notch as rope guide, can be installed on twine poles of Ø 18 mm

	Part-No.	Kg	Unit
Galvanized	301820	0.4	100



Plumb line holder

for screw-fitting to twine poles, held by screw, with round bar Ø 13 mm, including notch as rope guide, can be installed on twine poles of Ø 10 mm - Ø 20 mm, round bar can move in longitudinal direction

	Part-No.	Kg	Unit
Galvanized	301821	1.5	100



Plumb line holder

for screw-fitting to twine poles, made of plastic material, fits all twine poles, with rope guide

	Part-No.	Kg	Unit
Plastic	301822	0.1	25

Leveling guide, black

with installed allen screw M8 (VA), dimensions: 20.5 mm x 30.5 mm x 200 mm, available with or without clamping bracket (VA)

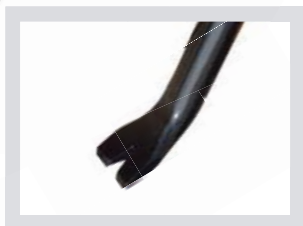
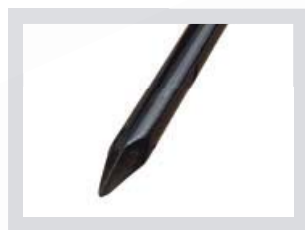
	Part-No.	Kg	Unit
With clamping bracket, without adjusting ring	301825	0.22	25
Without clamping bracket, without adjusting ring	301825-0	0.20	25
Clamping bracket	301825-1	0.02	25
Adjusting ring	301825-2	0.10	25

Round strand rope

for placing in plumb line holder, rope Ø 2 mm

	Part-No.	Kg	Unit
Galvanized	301830	50.0	500 m





Crowbar

very robust design, with forged tip and straight cutter, made of 30 mm round bar, black powder coating, available in different lengths

	Part-No.	Kg	Unit
Length: 1.00 m	10194	6.0	10
Length: 1.25 m	10195	7.5	10
Length: 1.50 m	10196	9.0	10
Length: 1.80 m	10197	11.0	10
Length: 2.00 m	10198	12.0	10

Same as above, but with tip and bent cutter with grab

Length: 1.00 m	10194GS	6.0	10
Length: 1.25 m	10195GS	7.5	10
Length: 1.50 m	10196GS	9.0	10
Length: 1.80 m	10197GS	11.0	10
Length: 2.00 m	10198GS	12.0	10



Pry bar 800 mm x 18 mm, hexagon bar

Length: 800 mm, width: 18 mm

	Part-No.	Kg	Unit
Painted	10193	1.8	1

Lamp iron

for versatile use in road construction, red painted, made of Ø 12 mm round bar, with welded U shackle for holding tapes, cables, lines, etc., with forged tip for easy driving into the ground, length: 1.25 m

	Part-No.	Kg	Unit
Red painted	31551	1.0	500

Lamp iron

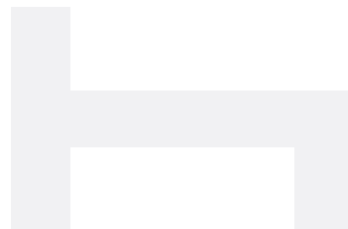
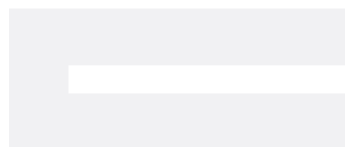
for versatile use in road construction, red painted, made of Ø 12 mm fluted bar, with welded U shackle for holding tapes, cables, lines, etc., with forged tip for easy driving into the ground, length: 1.25 m

	Part-No.	Kg	Unit
Red painted	315522	1.0	500

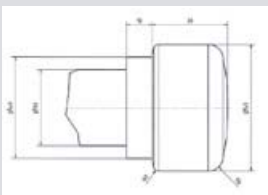
Barrier tape

printed on both sides, in red / white blocks, 500 m reel in special carton

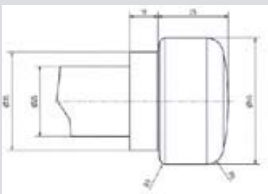
Dimensions:	Part-No.	Kg	Unit
0.03 mm x 80 mm x 500 m	3WT8500	1.0	1



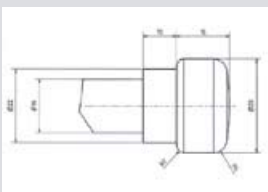
Part-No. 311604



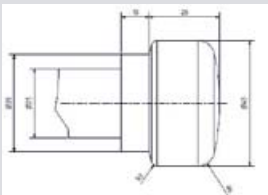
Part-No. 312504



Part-No. 313010



Part-No. 322507



Fixing peg Type 1

this peg is especially suitable for fixing steel anchor plates in the ground, because of the passage on the forged head it can be easily removed by remout-adapter or crowbar

Diameter 16 mm

400 mm

600 mm

800 mm

Diameter 25 mm

400 mm

600 mm

800 mm

1000 mm

1200 mm

Diameter 30 mm

1000 mm

1200 mm

1500 mm

Part-No.	Kg	Unit
311604	0.6	10
311606	1.0	10
311608	1.3	10

Part-No.	Kg	Unit
312504	1.6	5
312506	2.4	5
312508	3.3	5
312510	4.2	5
312512	5.0	5

Part-No.	Kg	Unit
313010	6.3	5
313012	7.6	5
313015	9.6	5

Fixing peg Type 2

this peg is used in scaffolding and formwork, the head is forged double, so it can be dived in until the ring and always pulled out on this area

Diameter 25 mm

700 mm

900 mm

Part-No.	Kg	Unit
322507	3.2	5
322509	3.7	5

Extracting-adapter

for pulling out pegs in combination with universal hook

Galvanized

Part-No.	Kg	Unit
20288	1.5	1

Universal hook

for individual applications, especially with extracting-adapter part-no. 20288 for pulling out pegs

Galvanized

Part-No.	Kg	Unit
20289	1.5	1



Road construction

Event

Mobile fence

Building construction

Civil engineering

Storage equipment

Transport equipment

Transport securing device

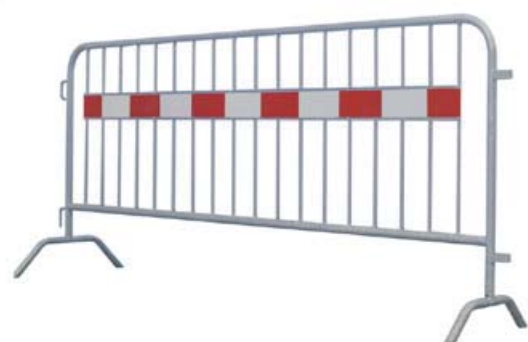
Event



**Crowd barrier type D**

versatile application, as barrier and security of event sites, welded galvanized steel construction of Ø 33.7 mm round tube, hooks and connection brackets are welded to the sides for combining several elements, two feet of bent round tube provide stability of the barrier, total height: 1.10 m, available in different lengths, sturdy vertical bars of Ø 16 mm round tube provide safe barrier action

	Part-No.	Kg	Unit
Length: 2.00 m, 14 bars	419.001	15.5	25
Length: 2.50 m, 18 bars	419.00	18.0	25

**Crowd barrier type D with blind man's strip**

versatile application, as barrier and security of event sites, welded galvanized steel construction of Ø 33.7 mm round tube, hooks and connection brackets are welded to the sides for combining several elements, two feet of bent round tube provide stability of the barrier, total height: 1.10 m, available in different lengths, sturdy vertical bars of Ø 16 mm round tube provide safe barrier action, an additional plate covered with red/white film RA1 is riveted in the barrier for safe marking

	Part-No.	Kg	Unit
Length: 2.00 m, 14 bars	419.011	16.0	10
Length: 2.50 m, 18 bars	419.010	18.5	10

**Crowd barrier type C**

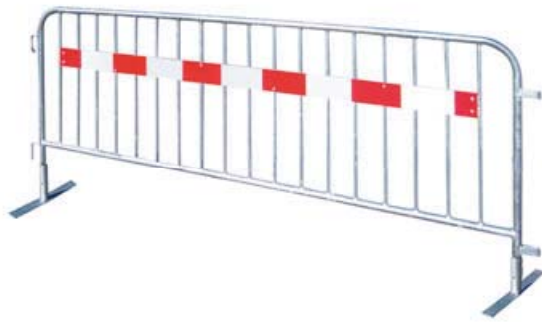
versatile application, as barrier and security of event sites, welded galvanized steel construction of Ø 38 mm round tube, hooks and connection brackets are welded to the sides for combining several elements, two feet of bent round tube provide stability of the barrier, total height: 1.10 m, sturdy vertical bars provide safe barrier action

	Part-No.	Kg	Unit
Length: 2.50 m, 19 bars	419.00S	24.0	25
Length: 1.25 m, 10 bars	419.002S	13.0	25



All crowd barriers also available in coated design and with reflecting stripes.





Crowd barrier type SE

versatile application, as barrier and security of event sites, welded galvanized steel construction of Ø 33.7 mm round tube, hooks and connection brackets are welded to the sides for combining several elements, two removable feet of flat-bar steel provide stability of the positioned barrier, total height: 1.10 m, available in different lengths, sturdy vertical bars for safe barrier action, an additional plate covered with red/white film RA1 is riveted in the barrier for safe marking

	Part-No.	Kg	Unit
Length: 2.00 m, 14 bars	419.001SE	20.0	25
Length: 2.50 m, 18 bars	419.00SE	22.0	25

Foot for crowd barrier

Including fastening material



Typ SE

Part-No.	Kg	Unit
206181	2.0	10

Foot for fence element, oblique

oblique galvanized foot, with oblique welded round tube for mounting fence elements, including fastening material

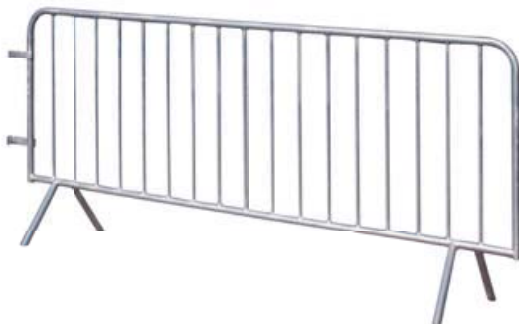


Galvanized

Part-No.	Kg	Unit
206181A	2.0	10

Crowd barrier type B

versatile application, as barrier and security of event sites, welded galvanized steel construction of Ø 33.7 mm round tube, connection brackets are welded to the sides for combining several elements, with two straight feet for stability of the positioned barrier, total height: 1.10 m, available in different lengths, sturdy vertical bars for safe barrier action



	Part-No.	Kg	Unit
Length: 2.00 m, 14 bars	419.001BE	15.0	25
Length: 2.50 m, 17 bars	419.00BE	17.0	25

Pallet for crowd barrier type B

for easy transportation and storage of crowd barriers type 419.00BE, crowd barriers can be moved easily and gently by fork-lift or crane. In addition, the barriers can be secured by lashing strap item no. 50352-6, robust design of sturdy steel construction
light dimension: 2240 mm x 2430 mm x 180 mm

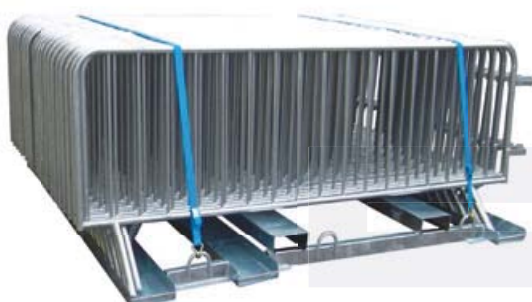


	Part-No.	Kg	Unit
Galvanized	419.02	144.0	1

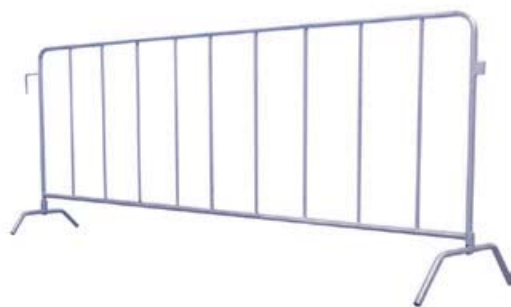
Crowd barrier set BE40

consisting of:

- 40 pcs. crowd barriers item no. 419.00BE
- 1 pc. pallet for crowd barrier item no. 419.02
- 2 pcs. lashing straps item no. 50352-6



	Part-No.	Kg	Unit
Galvanized	419.00BE-SET40	824.0	1

**Crowd barrier type L**

versatile application, as barrier and security of event sites, welded galvanized steel construction of Ø 26.9 mm round tube, hooks and connection brackets are welded to the sides for combining several elements, with two bent feet for stability of the positioned barrier, total height: 1.10 m, length: 2.50 m, sturdy vertical bars for safe barrier action

Galvanized, 9 bars

Part-No.	Kg	Unit
419.00L	11.0	25

**Crowd barrier type ABE**

made of aluminium, welded construction of Ø 33.7 mm round tube, connection brackets are welded to the sides, with two straight feet incl. rubber feet and sturdy vertical bars, total height: 1.10 m, length: 2.00 m

Aluminium, 14 bars

Part-No.	Kg	Unit
419.001ABE	4.5	1

**Crowd barrier type U**

galvanized, welded construction of Ø 33.7 mm round tubes, with round iron hook 13 mm and connection brackets of flat-bar steel, with two welded feet height: 1.10 m, length: 2.50 m, distance below: 200 mm

Galvanized, 18 bars

Part-No.	Kg	Unit
419.00-U200	20.6	1

**Pallet for crowd barrier**

for easy transportation, particularly for crowd barrier of sturdy square tube, vertical bars can be removed, inside dimensions: 1500 mm x 935 mm x 575 mm

	Part-No.	Kg	Unit
Galvanized , size: 1500 x 875 x 575 mm	419.05	36.0	1
Galvanized , size: 1400 x 825 x 775 mm	419.06	50.6	1
Galvanized , size: 900 x 825 x 775 mm	419.07	46.6	1

Crowd barrier	419.00	419.001	419.00S	419.00BE	419.001BE	419.00L	419.001ABE	419.00SE	419.001SE
	419.00-U200	419.011							
	419.010								
Pallet									
419.05	15 pieces	X	15 pieces	16 pieces	X	18 pieces	X	10 pieces	X
419.06	20 pieces	X	20 pieces	22 pieces	X	20 pieces	X	11 pieces	X
419.07	22 pieces	X	20 pieces	22 pieces	22 pieces	25 pieces	22 pieces	15 pieces	18 pieces



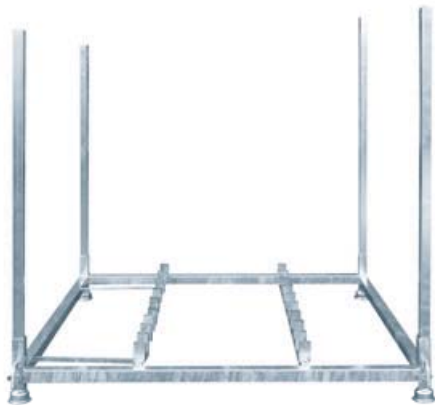
Police barrier type L
robust steel frame for special operating conditions, welded construction of Ø 33.7 mm round tube, the rigid design allows a quick setup, hooks and brackets are welded to the sides of the barrier for combining several elements, dimensions: height: 1.10 m, depth: 0.60 m, length: 2.10 m

	Part-No.	Kg	Unit
Galvanized	419.013	33.0	5



Police barriers
robust steel frame for special operating conditions, welded construction of Ø 33.7 mm round tube, hooks and connection brackets are welded to the sides of the barrier for combining several elements, foot part is hinged and has a sturdy grate insert, dimensions: height: 1.05 m, depth: 1.00 m, length: 2.10 m

	Part-No.	Kg	Unit
Galvanized	419.012	48.0	5



Square tube stackable pallet for police barrier
suitable for transportation and storage of 10 police barriers (item-no. 419.012). Welded construction of square tube 60 mm x 60 mm or 60 mm x 40 mm. The police barriers are held in place by pipe sockets of square tube 60 mm x 40 mm x 2 mm. Removable bars permit ergonomic loading / unloading of the police barriers. When the stackable pallets are stored without police barriers, the bars can be placed in a holder so that the stack height can be reduced. Inside dimensions: 1900 mm x 1900 mm, length of bars: 1640 mm

	Part-No.	Kg	Unit
Galvanized	50195	88.0	5



Simple to load -
perfect staples.

**Crowd barrier SET 15**

constisting of:

- 15 pcs. crowd barrier item no. 419.00
- 1 pc. pallet for crowd barrier 419.05
- 2 pcs. lashing straps item no. 50351-4

Galvanized

Part-No.	Kg	Unit
419.00-SET	310,0	1

i

Optimal storage and
easy transportation
because of perfect
stacking!

**Crowd barrier set S15**

constisting of:

- 15 pcs. crowd barrier item no. 419.00S
- 1 pc. pallet for crowd barrier 419.05
- 2 pcs. lashing strip item no. 50351-4

Galvanized

Part-No.	Kg	Unit
419.00S-SET	334,0	1

**Crowd barrier set BE15**

constisting of:

- 15 pcs. crowd barrier item no. 419.00BE
- 1 pc. pallet for crowd barrier 419.05
- 2 pcs. lashing strip item no. 50351-4

Galvanized

Part-No.	Kg	Unit
419.00BE-SET	304,0	1

Road construction

Event

Mobile fence

Building construction

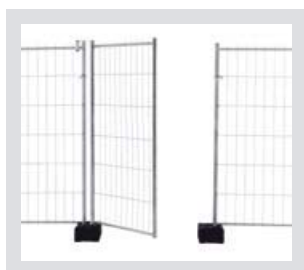
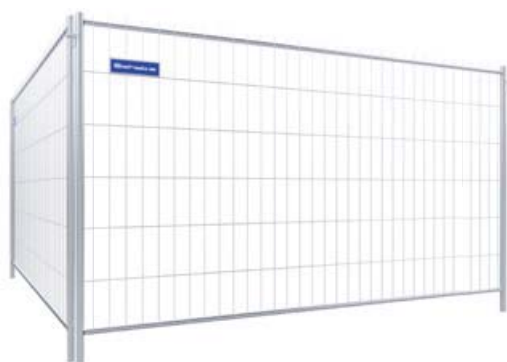
Civil engineering

Storage equipment

Transport equipment

Transport securing device

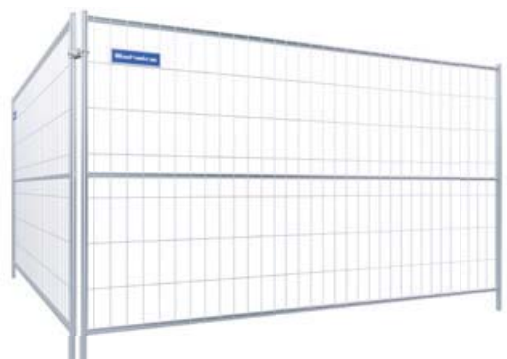




Mobile fence „Standard“

as barrier around construction sites, mobile fence pre-galvanized, with tubular frame all around, vertical tubes Ø 42.4 mm, horizontal tubes Ø 26.9 mm, mesh size: vertical: 100 mm, horizontal: 300 mm, wire size vertical: 3.4 mm, wire size horizontal: 3.8 mm, 33 vertical wires, 5 horizontal wires, projecting wire ends as climb-over protection, easy handling, appropriate quality

Element	Part-No.	Kg	Unit
Width: 3.50 m, height: 2.00 m	3B2035	16.0	35
Element with hooks and eyes			
Width: 3.50 m, height: 2.00 m	3B2035H	16.0	35
Compensation element			
Width: 2.20 m, height: 2.00 m	3B2022	11.5	35
Door element			
Width: 1.20 m, height: 2.00 m	3B2012	7.0	10



Mobile fence „Protect“

as fence around construction sites, mobile site fence pre-galvanized, tubular frame all around, vertical tubes Ø 42.4 mm, horizontal tubes Ø 33.7 mm, mesh size: vertical: 100 mm, horizontal: 260 mm, wire size vertical: 3.2 mm, horizontal: 4.0 mm, 33 vertical wires, 8 horizontal wires. Additional stability provided by welded center, horizontal tube, hooks and eyes are welded to the sides of the vertical tubes for connecting mobile site fences

Element with crossbar	Part-No.	Kg	Unit
Width: 3.50 m, height: 2.00 m	3B2035P	17.5	35



Use of the traffic panel flat with connecting clamp (page 9)





Mobile site fence „Standard“

as fence around construction sites, mobile site fence pre-galvanized, with tubular frame all around, vertical tubes Ø 42.4 mm, horizontal tubes Ø 26.9 mm, mesh size: vertical: 100 mm, horizontal: 300 mm, wire size vertical: 3.0 mm, wire size horizontal: 3.0 mm, 33 vertical wires, 2 horizontal wires, without projecting wire ends, easy handling, appropriate quality

Element	Part-No.	Kg	Unit
Width: 3.50 m, height: 1.20 m	3B1235	10.5	35

Element with hooks and eyes

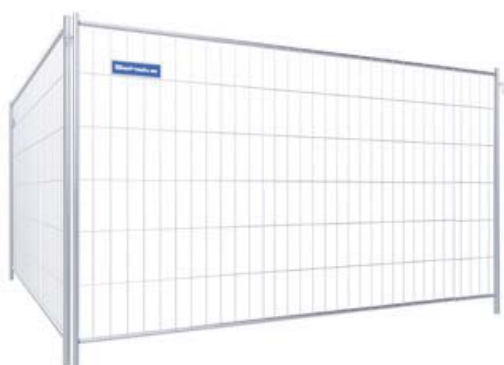
Width: 3.50 m, height: 1.20 m	3B1235H	10.5	35
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Compensation element

Width: 2.20 m, height: 1.20 m	3B1222	8.0	35
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Door element

Width: 1.20 m, height: 1.20 m	3B1212	6.5	10
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Mobile fence „Light“

as fence around construction sites, mobile site fence pre-galvanized, with tubular frame all around, vertical tubes Ø 42.4 mm, horizontal tubes Ø 26.9 mm, mesh size: vertical: 100 mm, horizontal: 300 mm, wire size vertical: 2.5 mm, wire size horizontal: 3.0 mm, 33 vertical wires, 5 horizontal wires, easy handling due to the light weight

Element	Part-No.	Kg	Unit
Width: 3.50 m, height: 2.00 m	3B2035L	13.0	35

Element with hooks and eyes

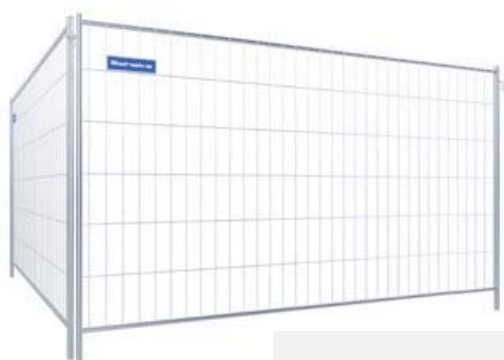
Width: 3.50 m, height: 2.00 m	3B2035LH	13.0	35
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Mobile fence „Cloud“

as fence around construction sites, mobile site fence pre-galvanized, tubular frame all around, vertical tubes Ø 40.0 mm, horizontal tubes Ø 26.9 mm, mesh size: vertical: 100 mm, horizontal: 300 mm, wire size vertical: 2.5 mm, horizontal: 2.5 mm, 33 vertical wires, 5 horizontal wires. Easy handling due to the light weight

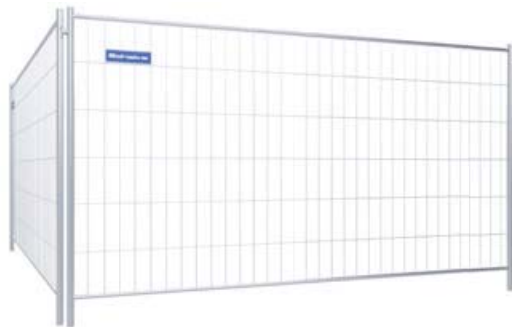
Element	Part-No.	Kg	Unit
Width: 3.50 m, height: 2.00 m	3B2035C	11.5	35



**Mobile fence „Secure“**

as fence around construction sites, mobile site fence pre-galvanized, with tubular frame all around, vertical tubes Ø 42.4 mm, horizontal tubes Ø 26.9 mm, mesh size: vertical: 30 mm, horizontal: 300 mm, wire size vertical: 3.0 mm, wire size horizontal: 3.8 mm, 68 vertical wires, 7 horizontal wires, especially secure version due to the close mesh network

Element	Part-No.	Kg	Unit
Width: 3.50 m, height: 2.00 m	3B2035S	25.0	35

**Mobile fence „Profi“**

as fence around construction sites, mobile site fence hot-dip galvanized, with tubular frame all around, vertical tubes Ø 42.4 mm, horizontal tubes Ø 26.9 mm, mesh size: vertical: 100 mm, horizontal: 300 mm, wire size vertical: 3.5 mm, wire size horizontal: 4.0 mm, 33 vertical wires, 7 horizontal wires, hooks and eyes are welded to the sides of the vertical tubes for connecting mobile site fences

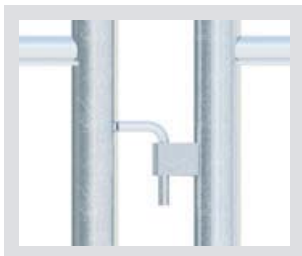
Element	Part-No.	Kg	Unit
Width: 3.50 m, height: 2.00 m	3B2036	19.0	35

Element with hooks and eyes	Part-No.	Kg	Unit
Width: 3.50 m, height: 2.00 m	3B2036H	19.0	35

Compensation element	Part-No.	Kg	Unit
Width: 2.20 m, height: 2.00 m	3B2023	16.0	35

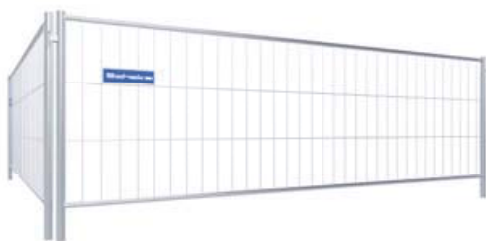
Compensation element with hooks and eyes	Part-No.	Kg	Unit
Width: 2.20 m, height: 2.00 m	3B2023H	16.0	35

Door element	Part-No.	Kg	Unit
Width: 1.20 m, height: 2.00 m	3B620	10.0	10



For all Mobile fences „Profi“:

More stability because the cross tube welded in the standpipe!



Mobile fence „Profi“

as fence around construction sites, mobile site fence hot-dip galvanized, tubular frame all around, vertical tubes Ø 42.4 mm, horizontal tubes Ø 26.9 mm, mesh size: vertical: 100 mm, horizontal: 300 mm, wire size horizontal: 4.0 mm, vertical: 3.5 mm, 33 vertical wires, 4 horizontal wires. Professional quality for all requirements

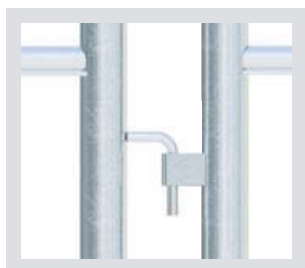
Element	Part-No.	Kg	Unit
Width: 3.50 m, height: 1.20 m	3B1236	13.0	35

Element with hooks and eyes			
Width: 3.50 m, height: 1.20 m	3B1236H	13.0	35

Compensation element			
Width: 2.20 m, height: 1.20 m	3B1223	8.0	35

Compensation element with hooks and eyes			
Width: 2.20 m, height: 1.20 m	3B1223H	8.0	35

Door element			
Width: 1.20 m, height: 1.20 m	3B3612	7.0	10

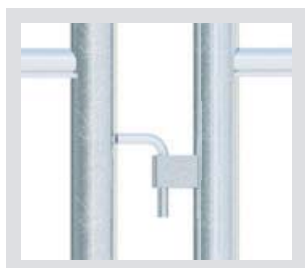
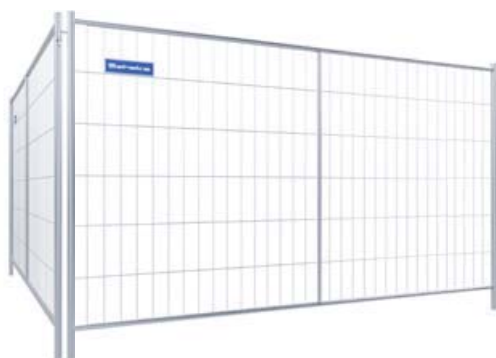


Mobile fence „Profi P“

as fence around construction sites, mobile site fence hot-dip galvanized, tubular frame all around, vertical tubes Ø 42.4 mm, horizontal tubes Ø 26.9 mm mesh size: vertical: 100 mm, horizontal: 300 mm, wire size horizontal: 3.0 mm, vertical: 4.0 mm, 33 vertical wires, 5 horizontal wires. Professional quality for all requirements

Element	Part-No.	Kg	Unit
Width: 3.50 m, height: 2.00 m	3B2036P	19.0	35

Element with hooks and eyes			
Width: 3.50 m, height: 2.00 m	3B2036PH	19.0	35



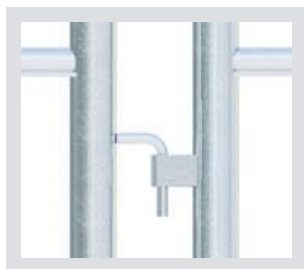
Compensation and door element see page 51, line Profi.

Mobile fence „Profi S“

as fence around construction sites, mobile site fence hot-dip galvanized, tubular frame all around, vertical tubes Ø 42.4 mm, horizontal tubes Ø 42.4 mm mesh size: vertical: 100 mm, horizontal: 300 mm, wire size horizontal: 3.0 mm, vertical: 4.0 mm, 33 vertical wires, 7 horizontal wires. Hooks and eyes are welded to the sides of the vertical tubes for connecting mobile site fences (without inside cross tube)

Element	Part-No.	Kg	Unit
Width: 3.50 m, height: 2.00 m	3B2036SH	24.0	28





Mobile fence „Profi Master“

as fence around construction sites, mobile site fence hot-dip galvanized, tubular frame all around, vertical tubes Ø 42.4 mm, horizontal tubes Ø 26.9 mm mesh size: vertical: 70 mm, horizontal: 300 mm, wire size horizontal: 4.0 mm, vertical: 5.0 mm, 44 vertical wires, 7 horizontal wires. Professional quality for all requirements

Element	Part-No.	Kg	Unit
Width: 3.50 m, height: 2.00 m	3B2036M	25.0	35

Element with hooks and eyes

Width: 3.50 m, height: 2.00 m	3B2036MH	25.0	35
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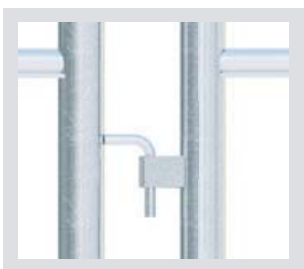
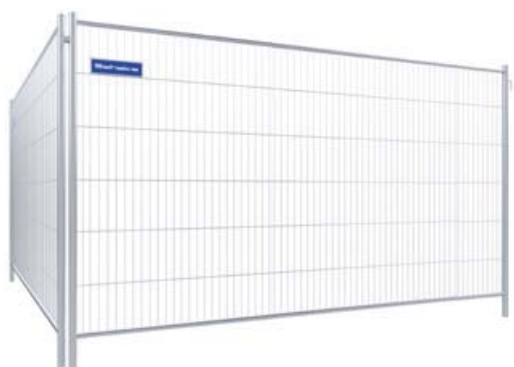


Compensation and door element see page 51, line Profi



For all Mobile fences „Profi“:

More stability because the cross tube welded in the standpipe!



Mobile Fence „Profi Resistant“

as fence around construction sites, mobile site fence hot-dip galvanized, tubular frame all around (sank-in), vertical tubes Ø 42.4 mm, horizontal tubes Ø 26.9 mm mesh size: vertical: 50 mm, horizontal: 300 mm, wire size horizontal: 2.4 mm, vertical: 3.8 mm, 67 vertical wires, 7 horizontal wires. Hooks and eyes are welded to the sides of the vertical tubes for connecting Mobile site fences due to the tight mesh, overclimbing is much more difficult, the horizontal tube is welded in standpipe

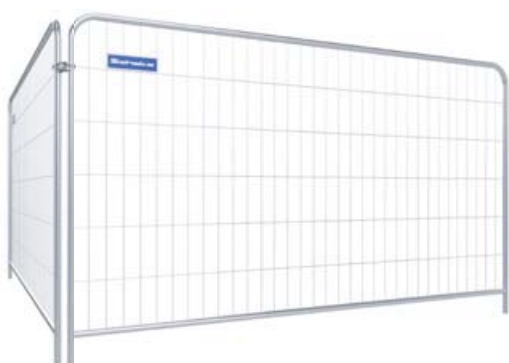
Element	Part-No.	Kg	Unit
Width: 3.50 m, height: 2.00 m	3B2036R	18.5	35

Element with hooks and eyes

Width: 3.50 m, height: 2.00 m	3B2036RH	18.5	35
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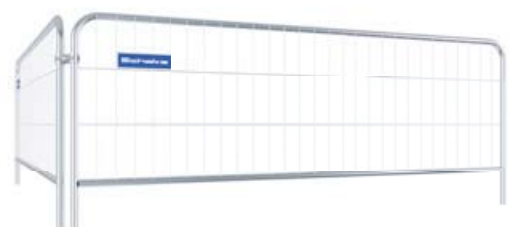
Compensation and door element see page 51, line Profi.



Mobile fence „Profi Economy“

as fence around construction sites, Mobile site fence hot-dip galvanized, tubular frame all around, vertical tubes Ø 38.0 mm, horizontal tubes Ø 38.0 mm mesh size: vertical: 100 mm, horizontal: 300 mm, wire size horizontal: 3.5 mm, vertical: 2.5 mm, 33 vertical wires, 7 horizontal wires, good stability due to curved tubes

Element	Part-No.	Kg	Unit
Width: 3.50 m, height: 2.00 m	3B2036E	15.3	30



Mobile fence „Event“

as barrier fence especially during events, mobile fence 3.00 m x 1.20 m, pre-galvanized, with tubular frame all around, tubes Ø 38.0 mm, mesh size: vertical: 100 mm, horizontal: 290 mm, wire size vertical: 3.3 mm, wire size horizontal: 3.3 mm, 28 vertical wires, 4 horizontal wires

Galvanized	Part-No.	Kg	Unit
	3B1230	10.5	35



Mobile fence overview

Designation	Mesh size in mm	Wire Ø horizontal	Wire Ø vertical	Weight in Kg
Standard	100 x 300	3.8	3.4	16.0
Protect	100 x 260	4.0	3.2	17.5
Light	100 x 300	3.0	2.5	13.0
Cloud	100 x 300	2.5	2.5	11.5
Secure	30 x 160	3.8	3.0	25.0
Profi	100 x 300	3.5	4.0	19.0
Profi P	100 x 300	4.0	3.0	19.0
Profi S	100 x 300	4.0	3.0	24.0
Profi Master	70 x 300	5.0	4.0	25.0
Profi Resistant	50 x 300	3.8	2.4	18.5
Profi Economy	100 x 300	3.5	2.5	15.3
Event	100 x 290	3.3	3.3	10.5

**Product details:**

- Passage width: 4.50 m
- Height: 2.00 m
- Stable frame construction, hot-dip galvanized
- Pre-assembled foundation of concrete for direct placing on the ground
- Serial warning lights signalize operating at leading post
- Complete electrical packaging for direct use
- Weatherproof 24V direct current motor incl. limit for moment of force,
- Power cable and plug
- Power supply: 230V AC-50 Hz, incl. remote control
- Additional anchorages allows an universal locking on the ground

Mobile fence gate Type Profi

self-supporting mobile fence gate for access control on construction areas, facilities and events, wired and weather resistant 24V DC motor with limit for moment of force, allows a safe use by remote control, in series warning light at leading post, double end posts and additional connecting clamps arrange a stable and safe connection, pre-assembled posts on the concrete socket take care for an easy installation on-site, measures: 4.50 m x 2.00 m

	Part-No.	Kg	Unit
Mobile fence gate RIGHT, galvanized	3B2045R	790.0	1
Mobile fence gate LEFT, galvanized	3B2045L	790.0	1



Mobile fence „Trapez 1.20 m“

as barrier fence especially during events, length: 2.20 m
height: 1.20 m, galvanized steel frame with profiled metal sheet, vertical tubes of round tube Ø 42.4 mm, cross tubes 60 mm x 40 mm, can be linked by clamp item-no. 3VB10, can be set up on all standard base plates

	Part-No.	Kg	Unit
Galvanized	3B1222V	28.0	25
Sheet metal panel: blue	3B1222B	28.0	25
Sheet metal panel: blue / yellow	3B1222BG	28.0	25
Sheet metal panel: red	3B1222R	28.0	25
Sheet metal panel: red / yellow	3B1222RG	28.0	25
Sheet metal panel: red / white	3B1222RW	28.0	25



Minimum purchase: 1 packing unit



Mobile fence „Trapez 2.00 m“

as barrier fence especially during events, length: 2.20 m
height: 2.00 m, galvanized steel frame with profiled metal sheet, vertical tubes of round tube Ø 42.4 mm, cross tubes 60 mm x 40 mm, can be linked by clamp, item-no. 3VB10, can be set up on all standard base plates

	Part-No.	Kg	Unit
Galvanized	3B2022V	35.0	25
Sheet metal panel: blue	3B2022B	35.0	25
Sheet metal panel: blue / yellow	3B2022BG	35.0	25
Sheet metal panel: red	3B2022R	35.0	25
Sheet metal panel: red / yellow	3B2022RG	35.0	25
Sheet metal panel: red / white	3B2022RW	35.0	25



Minimum purchase: 1 packing unit

mobile fence support strut 4.00 m

stabilizes stacked mobile fence elements with a height of approx. 4 m, with base plate that enables an universal fixing on the ground by borings and a welded connecting piece, 2 x connecting clamp item-no. 3VB10 for fixing on fence and 1 x ground peg item-no. 30W80H for fixing support strut on the ground included

	Part-No.	Kg	Unit
Galvanized	3B1544	24.0	15

Adapter piece

for connecting two fences in the height, by easily stacking in the adapter piece, fences can be stacked to 4 m height and be safed by support strut item-no. 3B1544

	Part-No.	Kg	Unit
Galvanized	3B157	2.0	20

**Base plate of concrete**

for stability of mobile fences, dimensions: width: 220 mm, length: 700 mm, height: 125 mm, with 6 holes Ø 42 mm for inserting the site fence tubes

	Part-No.	Kg	Unit
Concrete	3F100	36.0	24

**Base plate of concrete**

for stability of mobile fences, dimensions: width: 180 mm, length: 690 mm height: 130 mm, with 4 holes Ø 42.4 mm for inserting the site fence tubes incl. carry handles

	Part-No.	Kg	Unit
Concrete	3F101	25.0	25

**Base plate of recycled plastic material**

for stability of mobile fences, dimensions: width: 250 mm, length: 700 mm, height: 145 mm, with 6 holes Ø 42 mm for inserting the site fence tubes

	Part-No.	Kg	Unit
Recycled material	3F112	24.0	50
Recycled material	3F110	20.0	50

**Base plate of recycled plastic material**

for stability of mobile fences, dimensions: width: 250 mm, length: 685 mm, height: 135 mm, with 4 holes Ø 42 mm and 1 x 60 mm x 60 mm for inserting the site fence tubes

	Part-No.	Kg	Unit
Recycled material	3F111	20.0	50

**Base plate of recycled plastic material**

for stability of mobile fences, dimensions: width: 290 mm, length: 800 mm, height: 125 mm, with 4 holes Ø 42 mm and 2 holes Ø 40 mm x 40 mm for inserting the site fence tubes

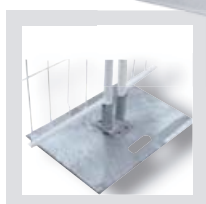
	Part-No.	Kg	Unit
Recycled material	3F110L	16.0	20



Mobile fence stand

galvanized steel construction with sleeves for inserting the site fence tubes and brackets for fastening 2 site fences with each other, 2 base plates have holes for ground pegs to anchor the post on the ground, dimensions: depth: 120 mm, height: 850 mm, supported width: 800 mm

	Part-No.	Kg	Unit
Galvanized	3B150	4.5	50



Mobile fence plate

with carrying handle for comfortable handling, with bolted sleeves for connecting 2 site fences, including set of bolts, dimensions of the base plate: 500 mm x 700 mm

	Part-No.	Kg	Unit
Galvanized	3B151	12.5	10



Connecting plate

for connecting 2 site fences by sleeves for inserting of the vertical tubes, suitable for permanent installation, with 4 holes in the base plate for plugging, dimensions: 130 mm x 160 mm

	Part-No.	Kg	Unit
Galvanized	3B152	2.0	10



Barbed wire holder Y-shape

protects against unintentional exceeding of the wall element, barbed wire is attached through slanted slots in the square tube

	Part-No.	Kg	Unit
Galvanized	3B156	0.8	10



Mobil fence door element

safety for construction sites against unauthorized entering, stable construction with roller for a permanent use with profile cylinder and door handle set, by 6 welded connecting clamps the door can be fixed between two mobile fences height: 2.00 m, width: 0.75 m

	Part-No.	Kg	Unit
Galvanized	3B2007	29.0	10



Fence lock

u-shackle, with padlock

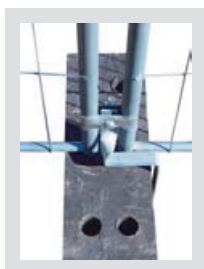
	Part-No.	Kg	Unit
Galvanized	3B1213	2.0	5



Roller

for site fence door element, including pipe bracket

	Part-No.	Kg	Unit
Ø 200 mm	3R116	1.5	1



Lift-off guard

to secure all mobile fence elements, consisting of connection bracket and catch

	Part-No.	Kg	Unit
Galvanized	3B155	0.5	10



Door shaft collar

suitable for all elements, with locking screw

	Part-No.	Kg	Unit
Galvanized	3B116	0.6	1



Pivot joint

for use with door elements, including bolt and nut for fastening

	Part-No.	Kg	Unit
Galvanized	3B115	1.0	1



Ground sockets

steel construction, with pointed angle iron for driving the socket in the ground, 2 sockets welded at the sides can be used for inserting site fence vertical tubes, length: 600 mm

	Part-No.	Kg	Unit
Galvanized	3B153	2.6	10



Connecting clamp

for mobile fences, with screw M10 x 60 mm

	Part-No.	Kg	Unit
Galvanized, 2.5 mm sheet thickness	3VB10	0.3	50
Galvanized, 5.0 mm sheet thickness	3VB10V	0.5	50



Safety connection clamp

for mobile fences, can only be opened with special tool

	Part-No.	Kg	Unit
Galvanized, 2.5 mm sheet thickness	3VB10S	0.5	1
Galvanized, 5.0 mm sheet thickness	3VB10SV	0.5	1



Special tool

for safety connection bracket

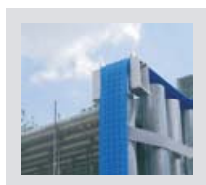
	Part-No.	Kg	Unit
Galvanized	3VB11	0.1	1



Mobile fence top for lashing straps

by clipping on the top a safe transport can be guaranteed, the fences and lashing straps are protected against damages by the top

	Part-No.	Kg	Unit
Galvanized, sheet thickness: 2.5 mm	3B20-A	1.0	20



Mobile fence net

for spreading out on all mobile site fences 3.50 m x 2.00 m, including cable strap to fix the net to the site fence, wind permeability: approx. 12 %



	Part-No.	Kg	Unit
Mobile fence net white	3FB36W	0.8	5
Mobile fence net green	3FB36G	0.8	5

Flame resistant, B1 certified

	Part-No.	Kg	Unit
Mobile fence net white	3FB36W-B1	1.0	5
Mobile fence net green	3FB36G-B1	1.0	5

**Screen tarpaulins, low flammability**

for fixing to site fences, suitable for all mobile site fences 3.50 m x 2.00 m, including cable strap to fix the screen to the site fence, screen thickness: 0.25 mm

	Part-No.	Kg	Unit
Screen tarpaulins white	3FB35	0.8	5
Screen tarpaulins green	3FB35G	0.8	5
Screen tarpaulins black	3FB35S	0.8	5
Screen tarpaulins blue	3FB35B	0.8	5
Screen tarpaulins with Schake Logo	3FB35 Logo	0.8	5
Certified to EN 13501	3FB35-B1	0.8	5

Screen tarpaulins, white

same as above, but reels for 2.00 m high mobile site fence, length: 20 m

	Part-No.	Kg	Unit
Screen tarpaulins white	3FBR35	5.0	1

Mobile fence support strut for 2.00 m

stabilizes mobile fence elements, with welded base plate and holes for driving in ground pegs, connection clamp (item-no. 3VB10) for fastening to site fence and ground peg (item-no. 30W80) for fixing the support inclusive, height: approx. 1.60 m

	Part-No.	Kg	Unit
Galvanized	3B154	4.8	10

Mobile fence support strut for 1.20 m

stabilizes mobile fence elements, with welded base plate and holes for driving in ground pegs, connection clamp (item-no. 3VB10) for fastening to site fence and ground peg (item-no. 30W80) for fixing the support inclusive, height: approx. 1.00 m

	Part-No.	Kg	Unit
Galvanized	3B1541	3.5	10

Mobile fence support strut for fences 2.00 m high, incl. base plate

for a stable shoring of elements, with continuous supporting element and holes for driving in ground pegs connecting clamp (item-no. 3VB10) for fixing on fence and ground peg (item-no. 30W80) for fixing included weight leveling to 1m possible, height: approx. 1.60 m

	Part-No.	Kg	Unit
Galvanized	3B1543	13	10



„Combi“ pallet

for transport and storage of mobile fence elements (3.50 m long) and base plates, feet secured by the lower first and higher last site fence element, dimensions: 1.14 m x 3.53 m, maximum load: 1.6 t

	Part-No.	Kg	Unit
Galvanized , for 30 mobile fences and 31 feet	3B211K	185.0	1

Fences and feet can be unloaded together and set up directly.
Suitable for concrete feet and feet of recycled plastic material.



Fork-lift truck can approach from both sides.



Storage and transport pallet for mobile fences

galvanized steel constructions suitable for transport by fork-lift truck or crane, dimensions: 3.56 m x 1.02 m

	Part-No.	Kg	Unit
For 25 mobile fences	3B210	100.0	1
For 29 mobile fences	3B211	110.0	1



Storage and transport pallet for base plates

galvanized steel construction holds 30 base plates (suitable for item-no. 3B211), welded fork lift pockets for transport by fork-lift truck, stackable together with storage and transport crossbar for mobile fences, dimensions: 3.56 m x 1.8 m

	Part-No.	Kg	Unit
For 30 base plates	3B215	140.0	1

Suitable for base plates of concrete or recycled plastic material.



Transport box for base plates

mesh box, for storage and transport of all kinds of mobile fence feet. 4 sides and bottom of steel grating with Ø 4 mm wires. One long side removable for ease of loading and unloading the box. Loading: 5 base plates side by side, 7 feet stacked. The transport box is stackable and can be moved by fork-lift truck or crane. In addition to the main purpose, the transportation of base plates, the box can be used for storing all kinds of building material or tools. Inside dimensions: 1.43 m x 0.87 m x 0.94 m

	Part-No.	Kg	Unit
Galvanized	3B231	96.0	1



**Wooden mobile fence**

made of commercial 20 mm thick solid wood, with cross connection to nail it to a construction, dimensions: 2.50 m x 2.00 m

	Part-No.	Kg	Unit
Wood	3B165	50.0	20

Wood mobile fence stand

for wall elements to 40 mm thickness, wall element is inserted into below welded U-rail, additionally the element can be fixed in the middle by nails or screws. The stand is to be secured with ballast weights (e.g. concrete feet, our item no. 3F100), height: 1815 mm

	Part-No.	Kg	Unit
Galvanized	3B160	12.5	20

Top of wood mobile fence stand

by simply inserting of the top into the hoarding stand (item no. 3B160) the wooden fence is fixed at the top

	Part-No.	Kg	Unit
Galvanized, 490 mm	3B160-1	3.0	20
Galvanized, 1000 mm	3B160-2	4.0	20

Corner wood mobile fence stand

for wall elements to 40 mm thickness, wall element is inserted in below welded U-rail, additionally the element can be fixed in the middle by nails or screws. The stand is to be secured with ballast weights (e.g. concrete feet, our item no. 3F100), height: 1815 mm

	Part-No.	Kg	Unit
Galvanized	3B160-E	14.5	5

Corner top of wood mobile fence stand

by simply inserting of the top into the hoarding stand (item no. 3B160-E) the wooden fence is fixed at the top

	Part-No.	Kg	Unit
Galvanized, 490 mm	3B160-E1	3.0	5
Galvanized, 1000 mm	3B160-E2	4.0	5

Barbed wire holder Y-shape

protects against unintentional exceeding of the wall element, barbed wire is attached through slanted slots in the square tube

	Part-No.	Kg	Unit
Galvanized	3B156	0.8	10



Road construction

Event

Mobile fence

Building construction

Civil engineering

Storage equipment

Transport equipment

Transport securing device

Building construction



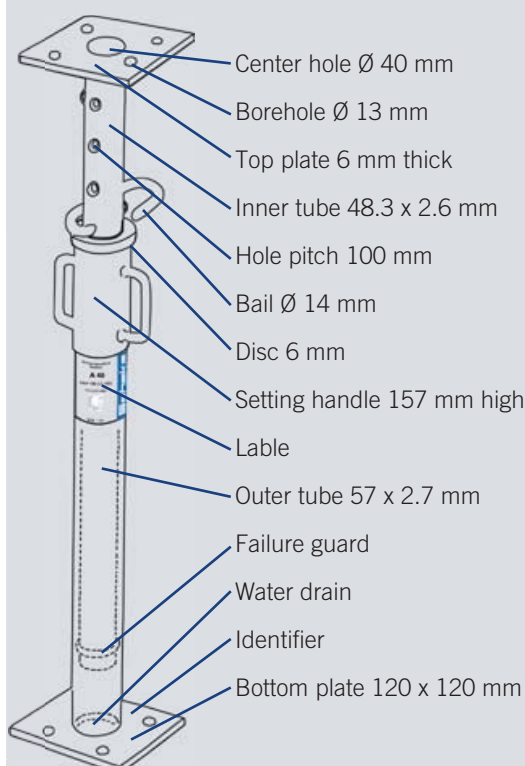


Euro formwork prop of class A

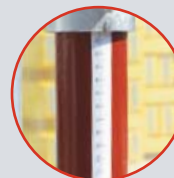
the proven prop for traditional building construction, hand crush and failure guards make handling these props safer. Our Euro formwork props comply with the current requirements of DIN EN 1065 for „free“ props. A label affixed to the prop marks the adjusting range of the prop lock, the permitted loads depend on the extent length of the formwork prop, see table on page 69

Painted, with inner thread

		Part-No.	Kg	Unit
A25	extent length: 1.54 m - 2.50 m	11729	11.5	80
A30	extent length: 1.87 m - 3.00 m	11730	12.5	80
A35	extent length: 2.07 m - 3.50 m	11731	14.0	80
A40	extent length: 2.37 m - 4.00 m	11732	15.0	80



All props marked by type class and load table.



The height of the setting handle can be read on a scale.



Test number marked on the foot.



The setting handle, disc and the bail are galvanized also on painted formwork props.



Euro formwork prop of class B

the proven prop for traditional building construction, hand crush and failure guards make handling these props safer. Our Euro formwork props comply with the current requirements of DIN EN 1065 for „free“ props. A label affixed to the prop marks the adjusting range of the prop lock, the permitted loads depend on the extent length of the formwork prop, see table on page 69

Painted, with inner thread

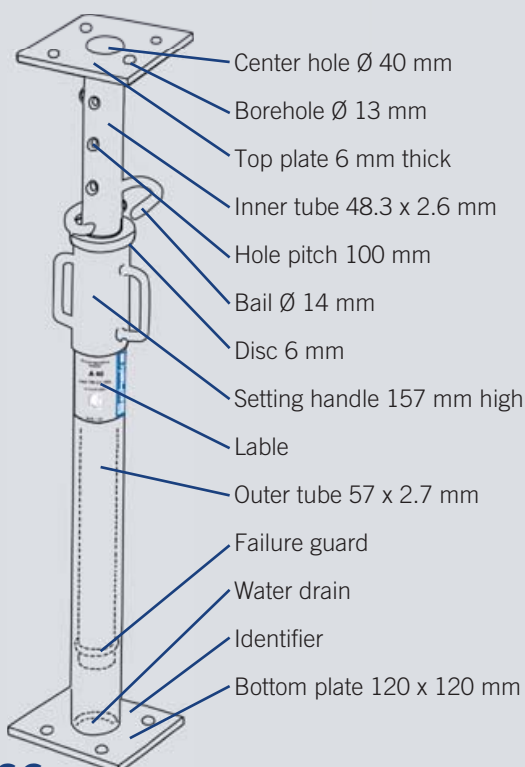
		Part-No.	Kg	Unit
B25	extent length: 1.54 m - 2.50 m	117291	12.0	80
B30	extent length: 1.87 m - 3.00 m	117301	14.0	80
B35	extent length: 2.07 m - 3.50 m	117311	15.5	80
B40	extent length: 2.37 m - 4.00 m	117321	18.5	80

Galvanized, with inner thread

		Part-No.	Kg	Unit
B25	extent length: 1.54 m - 2.50 m	117291IV	12.5	80
B30	extent length: 1.87 m - 3.00 m	117301IV	14.5	80
B35	extent length: 2.07 m - 3.50 m	117311IV	16.0	80
B40	extent length: 2.37 m - 4.00 m	117321IV	19.5	80

Bail of round steel for formwork props galvanized

Prop	Part-No. Prop	Part-No. G-hook							Kg	Unit
		205276	205297	205601	205775	205749	205752	205442		
Window prop 0.9-1.5m, painted	11102	X							0.5	1
Window prop 0.9-1.5m, galvanized	111981	X							0.5	1
Window prop 1.2-2.0m, painted	11103	X							0.5	1
Window prop 1.2-2.0m, painted	111983	X							0.5	1
A25 painted, inner thread	11729		X						0.5	1
A30 painted, inner thread	11730		X						0.5	1
A35 painted, inner thread	11731		X						0.5	1
A40 painted, inner thread	11732		X						0.5	1
A25 galvanized, inner thread	11729IV		X						0.5	1
A30 galvanized, inner thread	11730IV		X						0.5	1
A35 galvanized, inner thread	11731IV		X						0.5	1
A40 galvanized, inner thread	11732IV		X						0.5	1
B25 painted, inner thread	117291		X						0.5	1
B30 painted, inner thread	117301		X						0.5	1
B35 painted, inner thread	117311		X						0.5	1
B40 painted, inner thread	117321		X						0.5	1
B25 galvanized, inner thread	117291IV		X						0.5	1
B30 galvanized, inner thread	117301IV		X						0.5	1
B35 galvanized, inner thread	117311IV		X						0.5	1
B40 galvanized, inner thread	117321IV		X						0.5	1
BD25 painted, inner thread	11829			X					0.5	1
BD30 painted, inner thread	11830			X					0.5	1
BD35 painted, inner thread	11831			X					0.5	1
BD40 painted, inner thread	11832			X					0.5	1
BD25 painted, make thread	11829P				X				0.5	1
BD30 painted, make thread	11830P					X			0.5	1
BD35 painted, make thread	11831P					X			0.5	1
BD40 painted, make thread	11832P					X			0.5	1
BD25 galvanized, make thread	11829V				X				0.5	1
BD30 galvanized, make thread	11830V					X			0.5	1
BD35 galvanized, make thread	11831V					X			0.5	1
BD40 galvanized, make thread	11832V					X			0.5	1
CE 25 galvanized, make thread	11929V				X				0.5	1
CE30 galvanized, make thread	11930V				X				0.5	1
CE35 galvanized, make thread	11931V						X		0.5	1
CE40 galvanized, make thread	11932V						X		0.5	1
CE45 galvanized, make thread	11933V						X		0.5	1
CE55 galvanized, make thread	11934V							X	0.5	1



**Euro formwork prop of class B/D**

the proven prop for traditional building construction, hand crush and failure guards make handling these props safer. Our Euro formwork props comply with the current requirements of DIN EN 1065 for „free“ props. A label affixed to the prop marks the adjusting range of the prop lock, the permitted loads depend on the extent length of the formwork prop, see table on page 69

Painted, with inner thread

	Part-No.	Kg	Unit
B/D25 extent length: 1.54 m - 2.50 m	11829	12.5	72
B/D30 extent length: 1.87 m - 3.00 m	11830	14.5	72
B/D35 extent length: 2.07 m - 3.50 m	11831	16.0	63
B/D40 extent length: 2.37 m - 4.00 m	11832	21.0	63

**Painted, with outer thread
simple and quick handling by triple thread**

	Part-No.	Kg	Unit
B/D25 extent length: 1.45 m - 2.50 m	11829P	13.5	63
B/D30 extent length: 1.70 m - 3.00 m	11830P	16.0	48
B/D35 extent length: 1.96 m - 3.50 m	11831P	18.0	48
B/D40 extent length: 2.20 m - 4.00 m	11832P	21.5	48

**Pre-galvanized, with outer thread
simple and quick handling by triple thread**

	Part-No.	Kg	Unit
B/D30 extent length: 1.70 m - 3.00 m	11830Z	17.0	48
B/D35 extent length: 1.95 m - 3.50 m	11831Z	19.0	48
B/D40 extent length: 2.20 m - 4.00 m	11832Z	22.7	48

**Galvanized, with outer thread
simple and quick handling by triple thread**

	Part-No.	Kg	Unit
B/D25 extent length: 1.45 m - 2.50 m	11829V	14.0	63
B/D30 extent length: 1.70 m - 3.00 m	11830V	16.5	48
B/D35 extent length: 1.96 m - 3.50 m	11831V	18.5	48
B/D40 extent length: 2.20 m - 4.00 m	11832V	21.5	48



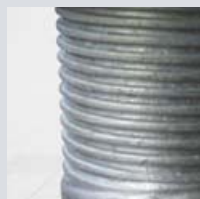
Thread cleaner



All props marked by type class and load table.



Test number marked on the foot.



Triple thread for significant of time saving



The height of the setting handle can be read on a scale.



The setting handle, the disc and the bail are also galvanized also on painted formwork props.



Robust punch nose for quick decapsulation



Euro formwork prop of class C/E

the proven prop for traditional building construction, hand crush and failure guards make handling these props safer. Our Euro formwork props comply with the current requirements of DIN EN 1065 for „free“ props. A label affixed to the prop marks the adjusting range at the prop lock, the permitted loads depend on the extent length of the formwork prop, see table on page 69

**Galvanized, with outer thread
simple and quick handling by triple thread**



	Part-No.	Kg	Unit
C/E25 extent length: 1.45 m - 2.50 m	11929V	16.0	48
C/E30 extent length: 1.70 m - 3.00 m	11930V	20.0	48
C/E35 extent length: 1.96 m - 3.50 m	11931V	26.0	48
C/E40 extent length: 2.20 m - 4.00 m	11932V	29.5	48
C/E45 extent length: 2.45 m - 4.50 m	11933V	32.5	42
C/E55 extent length: 2.96 m - 5.50 m	11934V	44.0	30



Urban Equipment · Building Equipment

We assume no liability for the data in the table or for printing errors.

Slanted prop painted

with inner thread, pivot joint at both ends

Part-No.	Adjusting range	Kg	Inside-Ø	Outside-Ø	Load at 45° (kN)		Unit
					on pressure	on strength	
11789	150 cm - 261 cm	15.9	48 x 3.5 mm	57 x 2.5 mm	34.5 - 20.0	32	80
11790	180 cm - 292 cm	16.9	48 x 3.5 mm	57 x 2.5 mm	34.5 - 17.5	32	80
11791	210 cm - 371 cm	19.1	48 x 3.5 mm	57 x 2.5 mm	34.5 - 14.0	32	42
11792	242 cm - 403 cm	20.3	48 x 3.5 mm	57 x 2.5 mm	34.5 - 12.5	32	50
11793	260 cm - 461 cm	22.9	48 x 3.5 mm	57 x 2.5 mm	34.5 - 10.0	32	42
11794	304 cm - 535 cm	25.3	48 x 3.5 mm	57 x 2.5 mm	34.5 - 7.5	32	50

Slanted prop galvanized

with outer thread, pivot joint at both ends

Part-No.	Adjusting range	Kg	Inside-Ø	Outside-Ø	Load at 45° (kN)		Unit
					on pressure	on strength	
11790V	180 cm - 292 cm	16.9	48 x 3.5 mm	57 x 2.5 mm	34.5 - 17.5	32	50
11792V	242 cm - 403 cm	20.3	48 x 3.5 mm	57 x 2.5 mm	34.5 - 12.5	32	50
11794V	304 cm - 535 cm	25.3	48 x 3.5 mm	57 x 2.5 mm	34.5 - 7.5	32	50
11795V	412 cm - 623 cm	30.7	48 x 3.5 mm	57 x 2.5 mm	34.5 - 5.0	32	42

Bail

made of round bar steel Ø 15 mm for all slanted props

Part-No.	Kg	Unit
2051533	0.5	1

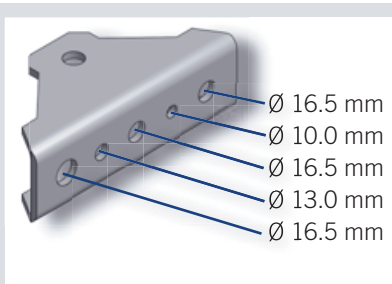
Slanted props

as tensile or compression props for versatile application on construction sites, for example:

- Propping different types of system formwork
- Adjusting and propping prefabricated concrete parts, particularly hollow walls and or triple sheeting walls
- Propping column or pillar formwork

The advantages at a glance:

- Suitable for tensile as well as compressive force
- Rough setting by safety pins
- Fine adjustment by protected inner thread
- Movable joints for any slanted or angular position
- Suitable for impact wrenches
- Safety pin to prevent accidental coming out of the pin during concreting or adjusting operations



End joint also available with this hole pattern.

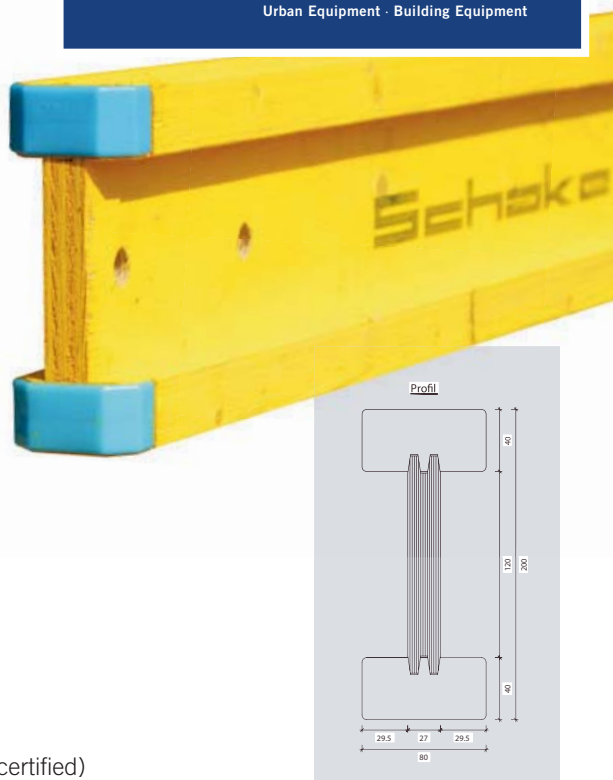
Formwork beam of wood SCHAKE H20

robust, high-quality glued wood all-purpose support

	Part-No.	Kg	Unit
Length: 2100 mm, height: 200 mm	102021	12.3	50
Length: 2450 mm, height: 200 mm	102024	13.4	50
Length: 2600 mm, height: 200 mm	102026	14.0	50
Length: 2900 mm, height: 200 mm	102029	15.9	50
Length: 3300 mm, height: 200 mm	102033	18.5	50
Length: 3600 mm, height: 200 mm	102036	19.5	50
Length: 3900 mm, height: 200 mm	102039	20.5	50
Length: 4500 mm, height: 200 mm	102045	21.5	50
Length: 4900 mm, height: 200 mm	102049	22.5	50
Length: 5900 mm, height: 200 mm	102059	23.5	50

Properties:

- E-profile of sendzimir galvanized rolled steel
- Positive and frictional press-fit
- Bevel avoids wood cracks and splinters
- High carrying power with low deadweight
- Softwood from indigenous forests under sustainable management (PEFC certified)



Layer-thickness in cm	Total load in kN/qm	Maximum permitted crown bar spacing with cross beam spacing (m)				Maximum permitted supported width (m) with crown bar affected width						
		0.42	0.50	0.625	0.667	Resulting individual prop load (kN) with maximum spacing						
12	4.92	3.64	3.43	3.19	3.12	1.50	1.75	2.00	2.25	2.50	2.75	3.00
14	5.44	3.47	3.27	3.04	2.97	2.33	2.16	2.02	1.90	1.79	1.63	1.49
16	5.96	3.33	3.14	2.92	2.85	17.20	18.60	19.90	21.10	22.00	22.00	22.00
18	6.48	3.21	3.03	2.81	2.75	2.21	2.05	1.92	1.80	1.62	1.47	1.35
20	7.00	3.10	2.93	2.72	2.66	18.10	19.50	20.90	22.00	22.00	22.00	22.00
22	7.52	3.01	2.84	2.64	2.58	2.12	1.96	1.83	1.64	1.48	1.34	1.23
24	8.04	2.93	2.76	2.57	2.51	19.00	20.40	21.80	22.00	22.00	22.00	22.00
26	8.56	2.86	2.70	2.50	2.45	2.03	1.88	1.70	1.51	1.36	1.23	1.13
28	9.08	2.79	2.63	2.44	2.39	19.70	21.30	22.00	22.00	22.00	22.00	22.00
30	9.66	2.73	2.57	2.39	2.34	1.95	1.80	1.57	1.40	1.26	1.14	1.05
35	11.22	2.60	2.45	2.27	2.23	20.50	22.00	22.00	22.00	22.00	22.00	22.00
40	12.78	2.49	2.35	2.18	2.13	1.88	1.67	1.46	1.30	1.19	1.03	0.93
45	14.34	2.39	2.26	2.10	2.04	21.20	22.00	22.00	22.00	22.00	22.00	22.00
50	15.09	2.31	2.18	2.01	1.94	1.82	1.56	1.37	1.21	1.09	0.99	0.91
						22.00	22.00	22.00	22.00	22.00	22.00	22.00
						1.71	1.47	1.29	1.14	1.03	0.93	0.86
						22.00	22.00	22.00	22.00	22.00	22.00	22.00
						1.62	1.38	1.21	1.08	0.97	0.88	0.81
						22.00	22.00	22.00	22.00	22.00	22.00	22.00
						1.52	1.30	1.14	1.01	0.91	0.83	0.76
						22.00	22.00	22.00	22.00	22.00	22.00	22.00
						1.31	1.12	0.98	0.87	0.78	0.71	0.65
						22.00	22.00	22.00	22.00	22.00	22.00	22.00
						1.15	0.98	0.86	0.76	0.69	0.62	0.57
						22.00	22.00	22.00	22.00	22.00	22.00	22.00
						1.02	0.88	0.77	0.68	0.61	0.56	0.51
						22.00	22.00	22.00	22.00	22.00	22.00	22.00
						0.92	0.79	0.69	0.61	0.55	0.50	0.46
						22.00	22.00	22.00	22.00	22.00	22.00	22.00

We assume no liability for the data in the table or for printing errors.

**Shuttering panels with edge protection**

3-layer shuttering panels, glued in itself, with longitudinal running outer layer and transverse middle layer. The wood is aligned with the outer layers to avoid cracks. The gluing carried out with melamine-formaldehyde resin (MUF) according to SWP/3. External condition of the standard UNE CEN/TS 13353, which ensures a high operational capability and long service life with proper treatment

	Part-No.	Kg	Unit
Length: 1000 mm, width: 500 mm	102110	5.5	25
Length: 1500 mm, width: 500 mm	102115	8.5	25
Length: 2000 mm, width: 500 mm	102120	11.0	25
Length: 2500 mm, width: 500 mm	102125	13.5	25

3-layer shuttering panels:

- High stability and dimensional accuracy
- High load-bearing capacity of melamine resin (lengthwise and crosswise)
- Resistant surface

Edge protection (up a length of 1500 mm)

- Reduced moisture absorption
- Cracks in the wood are reduced
- Longer working life



Window prop

with galvanized threaded socket, suitable for all common window sizes, for individual application in building construction, simple handling, with hand crush and failure guards as required by the applicable accident prevention regulations, a label affixed to the window prop marks the adjusting range at the prop lock, the permitted loads similar to those for class A props

	Part-No.	Kg	Unit
Length: 0.90 m - 1.50 m painted	11102	10.0	80
Length: 0.90 m - 1.50 m galvanized	111981	10.0	80
Length: 1.20 m - 2.00 m painted	11103	13.0	80
Length: 1.20 m - 2.00 m galvanized	111983	13.0	80



Easy identification by a label with main data



The height of the setting handle can be read on a scale.
Tube diameter:
Ø 57 mm



G-hooks can be inserted every 100 mm; the setting handle, the disc and the bail are also galvanized also on painted formwork props.



Window prop also with hand crush guard

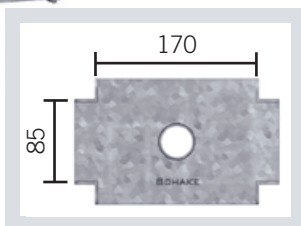
Window prop also with hand crush guard

Cross-bracing clamp for all props of 48 mm - 76 mm diameter



Painted
Galvanized

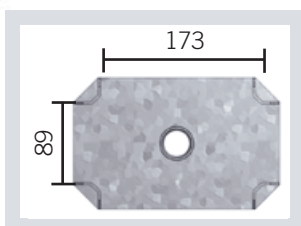
Part-No.	Kg	Unit
111984	1.0	20
111985	1.0	20



Head for formwork prop standard

can be fitted on top of formwork props to hold the wood formwork support for which 4 corner angles are welded. Inner dimensions suitable for all wood formwork supports. The wood formwork supports can be fixed by a nail through a bore in the corner angles. Height approx. 200 mm

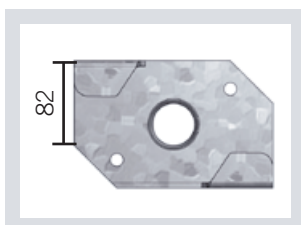
Holder	Part-No.	Kg	Unit
Galvanized tube Ø 26.9 mm	10192-0	3.0	50
Galvanized tube Ø 38.0 mm	10192	3.5	50



Head for formwork prop, heavy

can be fitted on top of formwork props (tube: Ø 38 mm) to hold the wood formwork support for which 4 corner angles (double angles) are welded. Inner dimensions suitable for all wood formwork supports. The wood formwork supports can be fixed by a nail through a bore in the corner angles. Height approx. 200 mm

Galvanized	Part-No.	Kg	Unit
	10192-1	4,0	50



Head for formwork props

can be fitted on top of formwork props (tube: Ø 38 mm) to hold the wood formwork support for which 2 angles are welded which engage the profile of the wood formwork supports (inner dimension: 82 mm). The wood formwork supports can be fixed by a nail through a bore in the corner angles. Height approx. 45 mm

Galvanized	Part-No.	Kg	Unit
	10192-2	1.0	50

Tripod stand

the formwork prop can be fixed simply by a bracket that is supported movably on the tripod stand. The feet can be adjusted and are collapsible for space-saving transport. Suitable for all types of formwork props

Galvanized	Part-No.	Kg	Unit
	11199	8.5	25

For the same applications, but **heavier** design with square tube

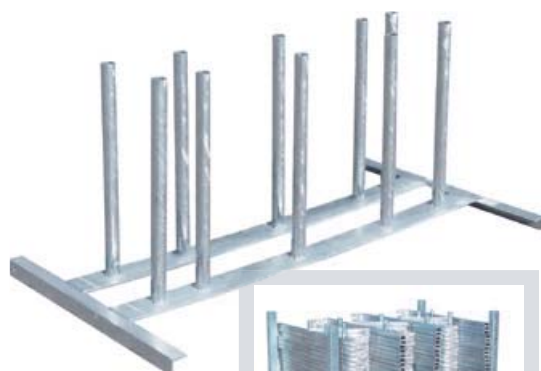
Galvanized	Part-No.	Kg	Unit
	11199S	10.0	25



Tripod stand of square tube:



- Stacks very easily
- No displacement
- No jamming
- Clean and proper storage



Adapter for tripod stand

suitable for set up on our stacking pallet item no. 50115, without screw fastening, suitable for the storage or transport of 36 tripod stands made of round or square tubing



Galvanized

Part-No.	Kg	Unit
50115-5	47.0	1



Spring pin

for all common formwork props, Ø 14 mm, length approx. 130 mm suitable as a replacement for hooks or other applications at the construction site

Galvanized

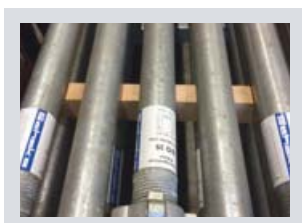
Part-No.	Kg	Unit
11800	1.0	10



Counting transport tie-bar

hardwood, for all common formwork props up to Ø 80 mm suitable for stacking rack item no. 50115

Advantage: Ordinary and safe loading with count traverse saves time - especially for rental purpose



Wooden

Part-No.	Kg	Unit
50115-1	1.5	1



Stacking pallet made of square tubes 60 x 60 mm

especially for storage and transport of formwork props, inside dimension: 1.43 m x 0.87 m x 0.69 m, made of square tube 60 mm x 60 mm welded, very robust for crane operation, all-around below accessible very robust stacking pallet

Galvanized

Part-No.	Kg	Unit
50115	52.0	1



**Stop-end prop**

suitable for horizontal formwork. Anchored in the ground by 2 ground pegs (including part-no. 30W80), the angle setting can be varied and telescoped, Adjustment is by means of captive pin, Square timber for facing (0.75 m long) and 2 ground pegs (Part-No. 30W80) are included and can be replaced easily if needed

	Part-No.	Kg	Unit
Painted	111971	10.0	10

**Ground peg**

of angle iron 25 mm x 25 mm, with welded head for driving in the ground

	Part-No.	Kg	Unit
Galvanized, 450 mm long	30W80	1.2	10
Galvanized, 650 mm long	30W80L	1.9	10

Ground nail

Length: 800 mm, of angle iron 30 mm x 30 mm, with welded head and hook for driving in the ground

	Part-No.	Kg	Unit
Galvanized	30W80H	2.2	10

**Formwork clamp**

large size for stepless fixing by wedge, 90/50 – Formwork length up to 900 mm. Width of legs: 500 mm. Ground tube made of 50 x 40 square tube, with captive wedge

	Part-No.	Kg	Unit
Painted	11196	11.0	40
Galvanized	11197	11.0	40

**Formwork clamp**

small size for stepless fixing by wedge, 50/30 – Formwork length up to 500 mm, width of legs: 300 mm. Ground tube made of 40 x 20 square tube, with captive wedge

	Part-No.	Kg	Unit
Painted	11166	6.0	50
Galvanized	11177	6.0	50

**Foundation clamp**

suitable for foundations formwork. The robust construction can support high loads, 90/50 – formwork length up to 900 mm, width of legs: 500 mm. Adjustment by captive wedges

	Part-No.	Kg	Unit
Painted	11195	12.5	40

**Eccentric clamp „Schalblitz“**

for tensioning wire from 5 mm - 10 mm, load up to 2.500 kg,
base plate 110 mm x 75 mm

	Part-No.	Kg	Unit
Red painted	10180	0.45	25
Galvanized	10181	0.45	25

**Eccentric clamp „Schalblitz“**

with welded reinforcement corner, for tensioning wire from 5 mm - 10 mm,
load up to 2.500 kg, base plate 110 mm x 75 mm

	Part-No.	Kg	Unit
Red painted	10182	0.5	25
Galvanized	10183	0.5	25

**Rack tensioning lever**

for all **eccentric clamps**, very robust design

	Part-No.	Kg	Unit
Painted	10187	3.0	1

**Wedge turnbuckle „Guss“**

for tensioning wire from 8 mm - 12 mm, base plate 100 mm x 40 mm

	Part-No.	Kg	Unit
Galvanized	101841	0.3	50

**Wedge turnbuckle „Schalfix“**

for tensioning wire from 5 mm - 8 mm, base plate 90 mm x 60 mm

	Part-No.	Kg	Unit
Red painted	10184	0.4	50

**Spindle tensioner**

for all **wedge locks** and eccentric clamps, also at interior angles of
formwork, by axial moving lever

	Part-No.	Kg	Unit
Galvanized	10186	1.2	1

**Formwork clamp**

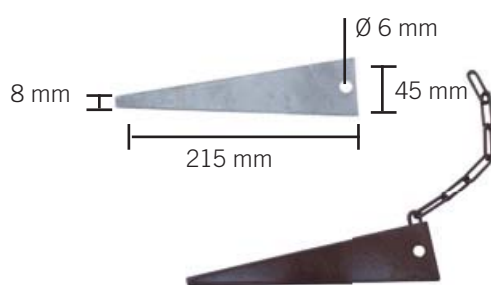
made of 8 mm thick bent flat-bar steel, slide made of perforated square section, weatherproof coating and available in different formwork lengths

	Part-No.	Kg	Unit
Formwork length: 0 - 750 mm	111951	5.0	10
Formwork length: 0 - 900 mm	111952	5.2	10
Formwork length: 0 - 1150 mm	111953	5.5	10

**Column clamp**

for square formwork, made of 8 mm flat-bar steel with oblong holes, adjustment by captive wedges, weatherproof coating and available in different formwork lengths

Formwork length:	Part-No.	Kg	Unit
Size 1 0.25 m - 0.50 m	11201	8.5	1
Size 2 0.40 m - 0.80 m	11202	13.0	1
Size 3 0.60 m - 1.20 m	11203	28.0	1

**Wedge for column clamp**

with hole

Untreated, without chain
Painted, with chain

Part-No.	Kg	Unit
101951	0.3	1
101951K	0.5	1

**Threaded rod Ø 15 mm x 6200 mm**

threaded rod, bendable, Pperm. 85 kN, all length available untreated or galvanized, service load 85 kN, ultimate load 170 kN, outside dimension 17 mm, core dimension 15 mm, pitch 10 mm, lenght: 5.80 m

	Part-No.	Kg	Unit
Untreated , length: 5.80 m	11310	9.3	10
Galvanized , length: 5.80 m	11310V	9.3	10

Untreated	Part-No.	Kg	Unit
Length: 500 mm	113105	0.75	10
Length: 600 mm	113106	0.90	10
Length: 700 mm	113107	1.05	10
Length: 800 mm	113108	1.20	10
Length: 900 mm	113109	1.35	10
Length: 1000 mm	113110	1.50	10
Length: 1100 mm	113111	1.65	10
Length: 1200 mm	113112	1.80	10
Length: 1300 mm	113113	1.95	10
Length: 1400 mm	113114	2.10	10
Length: 1500 mm	113115	2.25	10

Also available in galvanized finish, add letter 'V' to the article number

**Wing nut, flange Ø 70 mm**

WOF 27, casting, preferred use for grid-pattern formwork, permitted load perm. 90 kN (DIN 18216)

	Part-No.	Kg	Unit
Galvanized	11303	0.5	10

**Wing nut, flange Ø 100 mm**

WOF 27, casting, preferred use for grid-pattern formwork, permitted load perm. 90 kN (DIN 18216)

	Part-No.	Kg	Unit
Galvanized	113013	0.7	10

**Hexagon nuts WOF30**

made of St52.3; for rolled thread bar 15 mm

	Part-No.	Kg	Unit
Length: 30 mm	11304	0.1	10
Length: 50 mm	11305	0.2	10
Length: 70 mm	11306	0.3	10
Length: 90 mm	11307	0.4	10

**Combination plate, 1-part, movable**

8F 12/12, for anchor bar 15 mm, 90 kN service load (DIN 18236)

	Part-No.	Kg	Unit
Galvanized	11309	1.065	10

**Counterplate / Underlay plate**

in combination with the wing nut, transfers load from the anchor bar in wood and steel boom, Ø 15 mm, for steel booms
120 mm x 120 mm x 10 mm

	Part-No.	Kg	Unit
Galvanized	113091	1.0	10

**Wing nut**

Anchor nut for anchor bars 15 mm in combination with underlay plates, with hexagon WOF 27

	Part-No.	Kg	Unit
Galvanized	113092	0.2	10

**Water valve**

for tensioning bar Ø 15 mm, Pzul. = 90 kN

	Part-No.	Kg	Unit
Untreated	113093	0.3	10



Folding jack „Compact S 1200“

sturdy steel construction with supporting crossbar of 40 mm x 40 mm square tube and side-welded tube holder for railing posts and fall arrester plate; both feet (of Ø 42 mm round tube) can be turned and have 2 base plates each for stable positioning on any ground; top with crossbar can be telescoped and fixed at several positions by a captive hook, width: 1.20 m, load: 1500 kg

Brown painted	Part-No.	Kg	Unit
Size 1 height: 0.75 m - 1.30 m	10121S	15.0	5
Size 2 height: 1.00 m - 1.75 m	10122S	19.0	5
Size 3 height: 1.20 m - 1.95 m	10123S	21.0	5

Galvanized

Size 1 height: 0.75 m - 1.30 m	10121VS	15.0	5
Size 2 height: 1.00 m - 1.75 m	10122VS	19.0	5
Size 3 height: 1.20 m - 1.95 m	10123VS	21.0	5

Folding jack „Compact S 1500“

same design as „Compact S 1200“ but width: 1.50 m, load: 1500 kg

Brown painted	Part-No.	Kg	Unit
Size 6 height: 1.20 m - 1.95 m	10126S	22.0	5

Galvanized

Size 6 height: 1.20 m - 1.95 m	10126VS	22.0	5
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A good stock of scaffolding supports enables orders to be shipped to your sites on short notice.

Railing post for „Compact S“

for use as fall arrester, with 3 welded brackets (inner size: 50 mm x 160 mm) for mounting planks, vertical tube of Ø 33.7 mm round tube, with welded ring for insertion in the sleeve of Ø 42.4 mm round tube, height: 1.00 m above ground

	Part-No.	Kg	Unit
Brown painted	112773	4.0	10
Galvanized	112774	4.0	10

Corner railing post

Corner railing posts have double the number of brackets welded in a 90° angle to each other so fall arresters can be installed around corners, height of the corner railing post: 1.00 m above ground

	Part-No.	Kg	Unit
Brown painted	112777	4.0	10
Galvanized	112778	4.0	10





Folding jack „Universal“ U1500

very robust design with supporting cross tube of 80 mm x 40 mm square tube and side welded tube socket for installation of railing posts (1 railing post is included in the delivery) as back guard to protect from falling or for top mounted parts; holders are welded to the bottom of the tube socket in which diagonal braces can be installed, such braces are required as stiffeners from a scaffold height of 2.00 m and higher (see part-no. 11271/11272 on page 81); both feet (of Ø 42 mm round tube) can be turned and have 2 base plates each for high stability on any ground; top frame with crossbar can be extended and fixed at several positions by a captive hook, load can be set: 900 kg

Width: 1.50 m
Height: 1.70 - 3.00 m

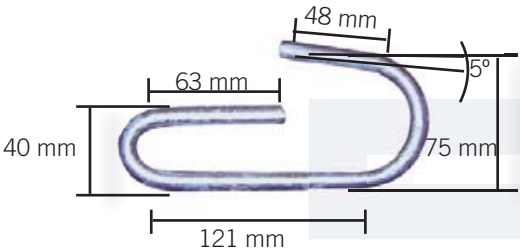
	Part-No.	Kg	Unit
Painted	10127S	44.0	5
Galvanized	10127VS	44.0	5

i Diagonal bracing of the universal scaffolding supports is prescribed from 2.00 m height and higher, see part-no. 11271 / 11272

Hook

hook of bent round steel S 235 JR of diameter 10 mm, can be used for securing the height adjusting mechanism of all folding jacks

	Part-No.	Kg	Unit
Galvanized	101953	0.8	1





Crank-operated scaffolding jack K1200

the foot frame gives the scaffolding support stability on any ground, the height of the top frame can be adjusted as needed by turning the slip-on crank, you can find the crank further down in this product range (Part-No. 11280), the rotary movement of the crank is transformed into an up-and-down movement of the top frame by shaft and star wheel, supporting tube of 80 mm x 40 mm square tube, round tube sockets (Ø 48.3 mm) welded, on both sides hold the railing post as fall arrester or for mounting the top frame; Load: 1600 kg

Width: 1.20 m
Height: 1.20 m - 1.95 m

	Part-No.	Kg	Unit
Painted	10128	30.0	1
Galvanized	10128V	31.0	1

Width: 1.20 m
Height: 0.65 m - 1.10 m

	Part-No.	Kg	Unit
Painted	101281	26.0	1
Galvanized	101281V	27.0	1



Crank-operated scaffolding jack K1500 / 3

our crank-operated scaffolding support can be used for many applications in building construction, base made of square tube 50 mm x 50 mm, welded rigidly, base frame stands safely on any ground, the height of the top frame can be adjusted as needed by turning the slip-on crank, you can find the crank further down in this product range (Part-No. 11280), the rotary movement of the crank is transformed into an up-and-down movement of the top frame by shaft and star wheel, supporting tube of 80 mm x 40 mm square tube, round tube sockets (Ø 48.3 mm) welded on both sides hold the railing post as fall arrester or for mounting the top frame, this version already comes with a railing post as back guard for insertion in the side welded sockets, diagonal bracing of the crank-operated scaffolding supports is prescribed from 2.00 m height and higher, holders for the ends of the diagonal braces are welded at the bottom ends of the tube sockets. Load: 1600 kg

Suitable diagonal strut can be found further down in our product range. (Part-No.: 11271 / 11272)

Width: 1.50 m
Height: 1.70 m - 3.00 m

	Part-No.	Kg	Unit
Painted	10130	42.0	1
Galvanized	10130V	43.0	1



Diagonal strut of the crank-operated scaffolding jack is prescribed from 2.00 m height and higher, see part-no. 11271 / 11272



Crank-operated scaffolding jack K1500

our crank-operated scaffolding support can be used for many applications in building construction, base made of square tube 50 mm x 50 mm, welded rigidly, base frame stands safely on any ground, the height of the top frame can be adjusted as needed by turning the slip-on crank, you can find the crank further down in this product range (Part-No. 11280), the rotary movement of the crank is transformed into an up-and-down movement of the top frame by shaft and star wheel, supporting tube of 80 mm x 40 mm square tube, round tube sockets (Ø 48.3 mm) welded on both sides hold the railing post as fall arrester or for mounting the top frame; Load: 1600 kg

Width: 1.50 m

Height: 1.20 m - 1.95 m

Painted
Galvanized

Part-No.	Kg	Unit
10129	35.0	1
10129V	36.0	1



Diagonal strut

diagonal braces are used for stiffening crank-operated or universal scaffolding jacks, the hole of the brace at the end of the inner tube is hung in the appropriate construction at the top frame of the crank-operated or universal scaffolding jack and the bracket at the opposite end bolted to the foot of the second crank-operated or universal scaffolding jack, the connecting bracket is part of this article, the complete bracing assembly can be telescoped between 2.00 m and 2.60 m and is secured by captive pin

Painted
Galvanized

Part-No.	Kg	Unit
11271	6.0	1
11272	6.0	1



Bracket for diagonal strut

Painted
Galvanized

Part-No.	Kg	Unit
11281	0.5	1
11282	0.5	1

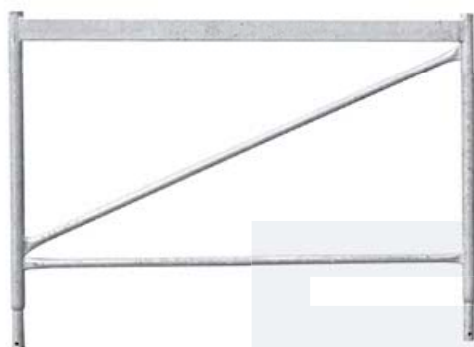


Top-mounted part

for insertion in the mounting socket of the crank-operated or universal scaffolding jack as fall arrester, steel tube construction of Ø 48.3 mm round tube with diagonal reinforcement, supporting crossbar of 80 mm x 40 mm square tube, height of the top mounted part: 1.00 m

Width: 1.20 m **Painted**
Width: 1.20 m **galvanized**
Width: 1.50 m **Painted**
Width: 1.50 m **galvanized**

Part-No.	Kg	Unit
11273	13.5	1
11274	13.5	1
11275	16.0	1
11276	16.0	1



**Crank handle**

for operating the adjusting mechanism of crank-operated scaffolding jack, the square tube welded on one side is slipped on the profile of the axis of the base of the crank-operated scaffolding jack, the handle of the crank is rubberized for comfortable handling, mounting size: 25 mm x 25 mm

	Part-No.	Kg	Unit
Galvanized	11280	1.5	1

**Railing post**

for insertion in the socket of the crank-operated or universal scaffolding jack, steel tube construction of Ø 48.3 mm round tube with 2 welded hooks for mounting planks as fall arrester, the planks can be fixed in holes in the hooks, in which nails can be driven to fix the planks, the bottom hook is movable and holds skirting board for extra safety
Railing post height: 1.00 m

	Part-No.	Kg	Unit
Painted	11277	3.5	1
Galvanized	11277V	3.5	1

Corner railing post

corner railing post has double the number of brackets welded in a 90° angle to each other so fall arresters can be installed around the corner, height of the corner railing post: 1.00 m above ground

	Part-No.	Kg	Unit
Painted	11278	4.0	1
Galvanized	11278V	4.0	1

Scaffolding plank

according to DIN 4074 grade S10, thickness: 45 mm, width: 240 mm

	Part-No.	Kg	Unit
2500 mm	103025	15.0	30

Wooden plank dry

according to DIN 4074, dried, planed, round edges, rectangular capped to measure, thickness: 30 mm, width: 150 mm

	Part-No.	Kg	Unit
2500 mm	103125	6.0	50



Special lengths on request



Builder's trestle „Combi“

laterally and vertically telescoping steel tube construction with supporting crossbar of 50 mm x 50 mm square tube, side steplessly extensible in 2 steps between

1.50 m – 4.20 m, height adjustable in 4 steps in the working range from 0.55 m – 0.90 m, hole pitch approx. 10 cm, setting secured by captive pin, painted

	Part-No.	Kg	Unit
Width: 1.50 m - 4.20 m	10140	25.5	5
Height: 0.55 m - 0.90 m			



Builder's trestle „Combi N“

rigid steel tube construction with supporting crossbar of 40 mm x 40 mm square tube, height adjustable in 4 steps in the working range from 0.55 m – 0.90 m, hole pitch approx. 10 cm, setting secured by captive pin, width of the supporting crossbar: 1.10 m, painted

	Part-No.	Kg	Unit
Width: 1.10 m	10141	11.0	5
Height: 0.55 m - 0.90 m			



Builder's steps

made of steel tube (Ø 26.9 mm), with steps of sturdy, anti-slip screen printed plate with weatherproof coating, step depth: 25 cm, the whole stepladder can be collapsed and needs very little space for storage or transport, the surfaces of the steel construction which contact the floor are protected by a rubber foot so that the stepladder can also be used in residential spaces. For universal use and easy to handle

	Part-No.	Kg	Unit
Painted, 2 steps:			
Width: 1.00 m, height: 0.70 m	10150	13.5	10
Width: 0.60 m, height: 0.70 m	10151	10.5	10



Galvanized, 2 steps:

Width: 1.00 m, height: 0.70 m	10150V	13.5	10
Width: 0.60 m, height: 0.70 m	10151V	10.5	10

Painted, 3 steps:

Width: 0.60 m, height: 1.20 m	10152	16.0	10
Width: 1.00 m, height: 1.20 m	10154	20.0	10

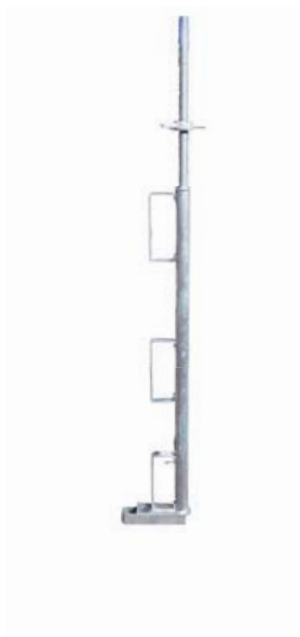
Galvanized, 3 steps:

Width: 0.60 m, height: 1.20 m	10152V	16.0	10
Width: 1.00 m, height: 1.20 m	10154V	20.0	10



Rubber feet for ladder steps

Part-No.	Kg	Unit
10153	0.2	12

**Guard rail clamp with wing nut**

as fall arrester when working at a height, the clamp is pressed to the ceiling by the wing nut and can be used on ceilings up to 40 cm thickness, for arresting fall, planks can be installed in the 3 hooks provided. The planks can be fixed in holes in the hooks, in which nails can be driven to fix the planks

	Part-No.	Kg	Unit
Galvanized	111933	7.0	10

**Guard rail clamp with adjustment by wedge**

as fall arrester when working at a height, the clamp is pressed to the ceiling by the wedge and can be used on ceilings up to 40 cm thickness, the wedge produces the required pressure and is fixed to the clamp by a chain so that it is captive, for arresting fall, planks can be installed in the 3 hooks provided, the planks can be fixed in holes in the hooks, in which nails can be driven to fix the planks

	Part-No.	Kg	Unit
Painted	11193	6.0	10
Galvanized	11194	6.5	10

**Guard rail clamp with crank**

as fall arrester when working at a height, the clamp is pressed against the ceiling by wedge produces the required pressure and is fixed to the clamp by a threaded rod and a nut, suitable for ceilings up to 40 cm thickness, the mechanical parts are installed inside the guard rail clamp for protection and long life, the guard rail clamp can be fixed easily by crank at a comfortable level, for arresting fall, a plank can be installed in the hook provided, the plank can be fixed in a hole in the hooks, in which a nail can be driven to fix the plank

	Part-No.	Kg	Unit
Painted	111932	7.0	10
Galvanized	111932V	7.0	10



Bracket scaffolding

type 150 acc. to DIN 4420

	Part-No.	Kg	Unit
Galvanized	11290	26.0	1



The carpenter's bracket scaffold can be used as scaffold group 2 scaffold according to DIN 4420. Use only as described in the supplied setup and application instructions.

Corner bracket scaffolding

type 150 acc. to DIN 4420

	Part-No.	Kg	Unit
Galvanized	11291	40.0	1

Bracket scaffolding hanger

	Part-No.	Kg	Unit
Galvanized	11293	6.4	1
Galvanized, for corner bracket scaffold	11294	6.7	1

Top extension 1.00 m

for carpenter's bracket scaffold

	Part-No.	Kg	Unit
Galvanized	112901	4.5	1
Galvanized, for corner bracket scaffold	112911	5.0	1

Suspension shoe

for scaffold groups 1 - 4, perm load 18 kN

	Part-No.	Kg	Unit
Galvanized	11299	2.0	1

Suspension shoe

for building corners, with rear angle

	Part-No.	Kg	Unit
Galvanized	11300	2.5	1



Loop

for suspending bracket scaffold, diameter 10 mm

	Part-No.	Kg	Unit
Acc. to DIN 4420	11298	1.05	25

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Responsibility – we have safety on construction sites in focus.

The BG BAU is the statutory accident insurance company for the building industry and related service industries in Germany. We as company Schake support the fundamentals of BG Bau, are interested in safety on building sites and believe that we share responsibility for it.

We encourage safety in production and on building sites by providing new products. This helps avoiding accidents and loss of valuable working time. We will be glad to look at your work situation so that we can suggest improvements to safety at danger spots.

It is as it has always been: Use of the right tool makes everything easier!!!

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Customer orientation and a friendly approach are matters of fact for us. We maintain our own field service so we never lose sight of our customers.

We consistently improve the quality of our work and respond with flexibility to changes in building site conditions.

We look for cost-effective solutions by economic, responsible and systematic work.

Competent specialists make quick, correct and plausible decisions.

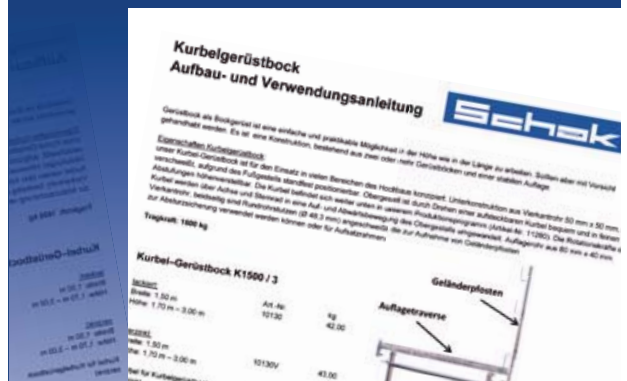
Individual performance is rewarded.

We have a close and mutually trusting working relationship on all levels and practice efficient cooperation. Building contractors can tell us their needs so that we can work out a solution systematically.

We expedite the implementation process by defining targets and ensuring constant feedback.

Certificates, technical datasheets, general terms of business, products descriptions, etc. are available at the new Download Center in the internet:

www.schake.info



civil engineering





Trench shoring spindle separate, Ø 32 mm

Ø 32 mm solid threaded spindle with welded claw plate with 2 fastening holes. Claw plate dimensions: 70 mm x 70 mm, wing nut with internal groove for locking ring of malleable cast iron, brown finish

		Part-No.	Kg	Unit
Total length:	450 mm			
Thread length:	300 mm	20201	3.5	1



Trench shoring tube separate, Ø 42 mm

Ø 42.4 mm round tube, with welded claw plate with 2 fastening holes. Claw plate dimensions: 70 mm x 70 mm, brown finish

		Part-No.	Kg	Unit
Size 1	tube length: 45 cm	20221	1.5	1
Size 1a	tube length: 55 cm	20222	2.0	1
Size 2	tube length: 75 cm	20223	2.5	1
Size 3	tube length: 105 cm	20224	3.5	1
Size 4	tube length: 135 cm	20225	4.0	1



Trench shoring „Perfect“ Ø 32 mm

for civil engineering use, for bracing and supporting canal walls, acc. to DIN 4124 with test label TBG-4P 32, spindle: Ø 32 mm, outer tube: Ø 42.4 mm with claw plates 70 mm x 70 mm on both sides, spindle and tube are firmly connected with each other by a locking ring.

		Part-No.	Kg	Unit
Size 1	0.50 m - 0.80 m 39.90 kN - 37.20 kN	20211	5.2	1
Size 1a	0.60 m - 0.90 m 39.90 kN - 34.10 kN	20212	5.5	1
Size 2	0.80 m - 1.10 m 39.50 kN - 29.40 kN	20213	6.2	1
Size 3	1.10 m - 1.40 m 37.70 kN - 29.30 kN	20214	7.0	1
Size 4	1.40 m - 1.70 m 31.70 kN - 26.50 kN	20215	8.0	1



To combine the spindle with tubes of different length, the ring can be opened by special tool. Spindle and tube are firmly connected with each other by a locking ring.



Trench shoring „Perfect“ Ø 48 mm

for civil engineering use, for bracing and supporting canal walls, acc. to DIN 4124 with test label TBG-4P 48, spindle: Ø 48.3 mm, outer tube: Ø 57 mm with supporting angle 100 mm x 150 mm on both sides

	Part-No.	Kg	Unit
Size 1 0.70 m - 1.17 m 65.50 kN- 61.10 kN	20231	8.0	1
Size 2 0.90 m - 1.50 m 65.50 kN- 59.90 kN	20232	10.0	1
Size 3 1.20 m - 2.10 m 60.10 kN- 51.70 kN	20233	13.0	1

Spindle and tube are firmly connected with each other by a locking ring.



Locking ring

for canal brace Ø 32 mm

	Part-No.	Kg	Unit
Untreated	20202	0.1	100



Locking ring

for canal brace Ø 48 mm

	Part-No.	Kg	Unit
Untreated	205025	0.2	100



Trench shoring „Perfect“ Ø 60 mm

for civil engineering use, for bracing and supporting canal walls, acc. to DIN 4124 with test label TBG-4P 60, spindle: Ø 60 mm, outer tube: Ø 70 mm with supporting angle 100 mm x 150 mm on both sides

	Part-No.	Kg	Unit
Size 1 0.90 m - 1.50 m 100.00 kN - 100.00 kN	20241	17.0	1
Size 2 1.40 m - 2.00 m 100.00 kN - 96.90 kN	20242	20.0	1
Size 3 1.90 m - 2.50 m 98.80 kN - 83.90 kN	20243	23.0	1
Size 4 2.40 m - 3.00 m 80.80 kN - 75.30 kN	20244	26.0	1



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Spindle and tube are firmly connected with each other by a locking ring.

Soil and concrete tamper

with robust bottom plate for tamping, welded on the shaft is a T handle of ideal 730 mm total working height

	Part-No.	Kg	Unit
Painted, 200 mm x 200 mm	10191	12.0	1

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Conditions for using trench shorings and shaft heads

- Reinforcement materials may only be used in accordance with the regulations.
- Before reinforcement materials are used their condition must be checked.
- In constructing the shear wall it is essential to ensure that the shafts are arranged alternately to the right and the left side in order to make sure that the points where the complete shear wall is most at risk do not all lie in a perpendicular plane.
- Reinforcement materials must be built in a way that their support plates lie right up against the shear wall. This will always be possible when the shear walls are parallel with one another. If that is not the case the deviation must be rectified using hard wood wedges. The reason for this requirement is to protect the reinforcement material from the additional loads which would be caused by forces from eccentric directions.
- The working load capacity defined in the inspection documents must not be exceeded. The working load capacities are different according to each set length of the struts.
- Nothing may be put on or hung from the reinforcement material which would put any extra load on them. This is to avoid any kind of stress or load over and above that which comes from pressure alone.
- Reinforcement materials may only be constructed from parts with the same registration numbers. If the struts are taken apart for cleaning and greasing, they can easily be reassembled without error with reference to the registration numbers stamped on them.
- If shaft heads are mounted on round timber, steel girders or steel tubes the load capacity of the whole system must be subjected to a static calculation. The permitted load of the whole system must not be greater than the working load capacity of the shaft heads.
- The point of contact between shaft head and round timber must be at right-angles to the long axis level and free of branches. It must also be ensured that the shaft head is placed in the centre. For steel sections there is a similar requirement.
- Adjustable support plate angles in trench shoring must be set so that the braces are loaded in the centre.
- It is imperative to ensure that the corrosion protection applied is maintained. Threaded parts must be well greased.



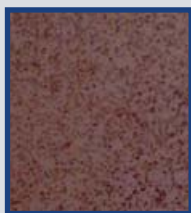
Wooden trench bridge

for safe crossing of ditches and canals, galvanized steel frame, with access ramp for wheelchairs, prams, etc., wood cover and skirting of all-wood panel with several coatings. Slip-resistant cover all round, weather-resistant impregnation ensures long life, the side rails are equipped with red-white-red reflecting stripes. Both railings can be removed for space-saving transport and storage.

This ditch bridge complies with the workplace and ZTV-SA ordinance, load: 150 kg / m²

Width: 1.00 m, length: 1.00 m
Width: 1.00 m, length: 1.70 m
Width: 1.00 m, length: 2.20 m
Width: 1.00 m, length: 2.70 m
Width: 1.00 m, length: 3.20 m

Part-No.	Kg	Unit
20250-10	43.0	5
20250	45.0	5
20251	55.0	5
20252	70.0	5
20254	100.0	5



Anti-slip cover



Impregnation

The impregnation of the wood elements protects them from bad weather and makes the bridge durable.





Plastic trench bridge

for safe crossing of ditches and canals, plastic, anti-slip floor, connecting of elements possible by steel clamps, load: 44 to max.

Max. width of trenches: 70 cm, Dimensions: 1.50 x 0.50 m

	Part-No.	Kg	Unit
Plastic	20260	55.0	1
End piece	20260E	70.0	1



Aluminium trench bridge

for safe crossing of ditches and canals, galvanized steel frame, with access ramp for wheelchairs, prams, etc., floor cover of anti-slip aluminium checker plate (4/5 mm) and skirting of aluminium square section and firmly bolted to the supporting construction. The side rails are equipped with red-white-red reflecting stripes. Both railings can be folded down for space-saving transport and storage. This ditch bridge complies with the workplace and ZTV-SA ordinance, load: 200 kg/m²

	Part-No.	Kg	Unit
Width: 1.00 m, length: 1.70 m	20270	54.0	1
Width: 1.00 m, length: 2.20 m	20271	67.0	1
Width: 1.00 m, length: 2.70 m	20272	79.0	1
Width: 1.00 m, length: 3.20 m	20273	92.0	1
Width: 1.20 m, length: 2.70 m	2027212	100.0	1
Width: 1.20 m, length: 3.20 m	2027312	120.0	1
Width: 1.30 m, length: 4.00 m	2027413	300.0	1
Width: 1.30 m, length: 5.00 m	2027513	360.0	1
Width: 1.30 m, length: 6.00 m	2027613	430.0	1



Alu trench bridge 4, 5 or 6 m
incl. statics calculation please
request separate.





This trench bridge complies with the workplace and ZTV-SA ordinance

Aluminium trench bridge

for safe crossing of ditches and canals, completely made of aluminium, with access ramp for wheelchairs, prams, etc., floor cover of anti-slip aluminium checker plate (3/4 mm) and skirting of square section and firmly bolted to the supporting construction. The side rails are equipped with red-white-red reflecting stripes and can be folded down for space saving transport and storage. Carry handles on both sides allow an ergonomical handling, 4 angles for stacking allow a safe transport and storage, bridges can be saved on ground by ground pegs, load: 200 kg/m²

	Part-No.	Kg	Unit
Width: 1.00 m, length: 1.70 m	20280	34.0	1
Width: 1.00 m, length: 2.20 m	20281	42.0	1
Width: 1.00 m, length: 2.70 m	20282	51.0	1
Width: 1.00 m, length: 3.20 m	20283	59.0	1

Additional grab handles can be ordered separately

	Part-No.	Kg	Unit
Grab handles	20280G	1.0	12



Aluminium trench bridge „Secure“

with safety handrail for safe crossing of ditches and canals, completely made of aluminium, with access ramp for wheelchairs, prams, etc., floor cover of anti-slip aluminium checker plate (3/4 mm) and skirting of square section and firmly bolted to the supporting construction. The side rails are equipped with red-white-red reflecting stripes and can be folded down for space saving transport and storage. Carry handles on both sides allow an ergonomic handling, 4 angles for stacking allow a safe transport and storage, bridges can be saved on ground by ground pegs, load: 200 kg /m²



This trench bridge complies with the workplace and ZTV-SA ordinance

	Part-No.	Kg	Unit
Width: 1.00 m, length: 2.20 m	20281-S	48.0	1
Width: 1.00 m, length: 2.70 m	20282-S	58.0	1
Width: 1.00 m, length: 3.20 m	20283-S	68.0	1

Additional grab handles can be ordered separately

	Part-No.	Kg	Unit
Grab handles	20280G	1.0	12

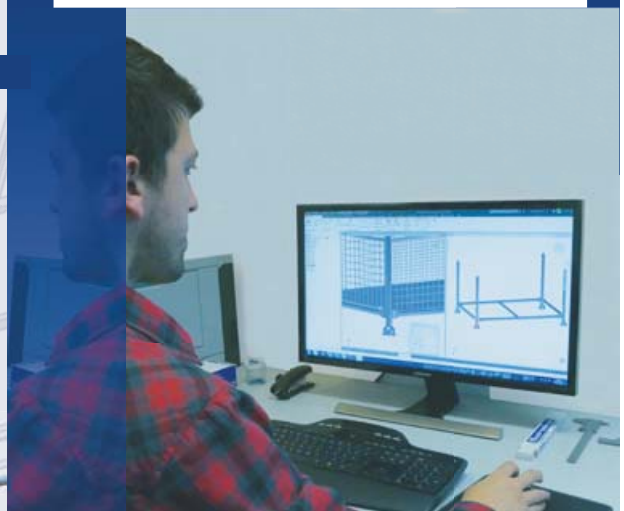


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Special shoring bridges to your individual requirements!

A standard solution for bridging ditches and shafts is often not enough for requirements on civil engineering sites.

We want to provide added value to our customers, no off-the-peg problem solutions but solutions tailored to the concrete requirements of your situation. To enable us to provide the optimum service, our experts invest their experience for your benefit to develop your individual shoring bridge together with you.



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The quick route to your individual shoring bridge:

1. You need a special solution for a temporary bridge construction.
2. Please contact our experts and explain your problem to them or simply mail us a rough sketch with your idea of what the bridge construction should look like.
3. We develop a convincing design and send you a technical design drawing.
4. You may want changes to be made to the design, and we will make the changes until the design is satisfactory to you.
5. We manufacture your special bridge construction in highest quality.

Please contact us!

Road construction

Event

Mobile fence

Building construction

Civil engineering

Storage equipment

Transport equipment

Transport securing device





Road construction

Event

Mobile fence

Building construction

Civil engineering

Storage equipment

Transport equipment

Transport securing device

**Stackable pallet**

for universal use for the storage of long goods, vertical tubes are made of Ø 57 mm round tube, cross tubes of Ø 48.3 mm round tube, inside dimensions: 0.90 m x 0.70 m x 0.70 m, the pallet can carry loads up to 1.5 t, can be moved by fork-lift truck, platform floor truck or crane, the tulip shape of the feet gives the pallet stack stability

Painted
Galvanized

Part-No.	Kg	Unit
50100	19.0	5
50102	20.0	5

**Stackable pallet**

for universal use for the storage of long goods, vertical tubes are made of Ø 57 mm round tube, cross tubes of Ø 48.3 mm round tube, inside dimensions: 1.30 m x 0.70 m x 0.70 m, with additional center welded cross tube, the pallet can carry loads up to 1.5 t, can be moved by fork-lift truck, platform floor truck or crane, the tulip shape of the feet gives the pallet stack stability

Painted
Galvanized

Part-No.	Kg	Unit
50110	25.0	5
50120	26.0	5



Stackable pallet

for universal use for the storage of long goods, vertical and cross tubes are made of Ø 48.3 mm round tube, inside dimensions: 1.43 m x 0.87 m x 0.70 m, with additional center welded cross tube, the pallet can carry loads up to 1.5 t, can be moved by fork-lift truck, platform floor truck or crane, the tulip shape of the feet gives the pallet stack stability

	Part-No.	Kg	Unit
Painted	50150	26.0	9
Galvanized	50160	27.0	9



Stackable pallet

for universal use for the storage of long goods, vertical and cross tubes are made of Ø 48.3 mm round tube, inside dimensions: 1.50 m x 0.87 m x 0.60 m, with 2 additional center welded cross tubes, the pallet can carry loads up to 1.5 t, can be moved by fork-lift truck, platform floor truck or crane, the tulip shape of the feet gives the pallet stack stability

	Part-No.	Kg	Unit
Painted	50200	27.0	9
Galvanized	50210	28.0	9



Stackable pallet for base plates

suitable for holding 21 base plates (3 base plates wide and 7 base plates high), vertical tubes and cross tubes made of 50 mm x 50 mm square tube, inside dimensions: 1.30 m x 0.63 m x 0.90 m, with additional center tube, can be handled by fork-lift truck, platform floor truck or crane, the tulip shape of the feet adds stability to the pallet stacks. Lashing strap for securing the base plates is part of the supply

	Part-No.	Kg	Unit
Painted	50380	32.0	1
Galvanized	50380V	32.0	1



Stackable pallet

for storage of scaffolding supports and formwork panels, with top-welded rings for transport by crane, inside dimensions: 0.68 m x 0.52 m x 1.00 m, the tulip shape of the feet gives the pallet stack stability

	Part-No.	Kg	Unit
Painted	50141	25.0	5
Galvanized	50142	26.0	5



Stackable pallet

for universal use for the storage of long goods, vertical and cross tubes are made of square tube 50 x 40 mm
inside dimensions: 1.20 m x 0.80 m x 0.70 m, with additional center welded offset cross tube, the pallet can carry load up to 1.0 t, can be moved by fork-lift, platform floor truck or crane, the tulip shape of the feet gives the pallet stack stability, vertical tubes can be taken out and placed in the holder

Painted
Galvanized

Part-No.	Kg	Unit
50400-1	25.0	5
50401-1	26.0	5



Transport and storage pallet

large version, with 2 additional cross tubes, vertical and cross tubes are made of Ø 48.3 m round tube, inside dimensions: 1.00 m x 1.45 m x 1.06 m, can be moved by fork-lift truck and platform floor truck, the tulip shape of the feet gives the pallet stack stability

Galvanized

Part-No.	Kg	Unit
50143	40.0	1



Stackable pallet for transportation of 20 panel fences

with removable cross tubes for simple of loading / unloading, fork opening on both sides, safe transport by 8 welded guides, the panel fences are placed on welded elevated cross tubes, suitable for transport by fork-lift truck or crane, the tulip shape of the feet adds stability to the pallet stacks.
Inside dimensions: 1.80 m x 1.10 m, cross tube height: 1.08 m

Galvanized

Part-No.	Kg	Unit
32001	67.0	5



**Stackable pallet**

stackable pallet made of square tube 60 mm x 60 mm
inside dimensions: 1.08 m x 0.68 m x 0.54 m

Galvanized

Part-No.	Kg	Unit
50118-1	38.0	1

**Stackable pallet**

stackable pallet made of square tube 60 mm x 60 mm
inside dimensions: 1.08 m x 0.68 m x 0.83 m

Galvanized

Part-No.	Kg	Unit
50118-2	44.0	1

**Mesh box pallet**

mesh box pallet made of square tube 60 mm x 60 mm
inside dimensions: 1.08 m x 0.68 m x 0.36 / 0.56 m

Galvanized

Part-No.	Kg	Unit
50118-3	60.0	1

**Storage and transport pallet**

storage and transport pallet for all common twine poles. Pallet frame welded of square tube 60 x 60 x 3 mm, solid welded wall pallet, galvanized.

Easy storage and removal of twine poles because of displaced layer formation. Suitable for transport by fork-lift or crane.

dimensions: 1200 mm x 800 mm x 820 mm, load: 1500 kg

Galvanized

Part-No.	Kg	Unit
50118-5	98.0	1





Road construction

Event

Mobile fence

Building construction

Civil engineering

Storage equipment

Transport equipment

Transport securing device



Stackable pallet of square tube 60 x 60 mm

stackable pallet specifically for storage and transport of formwork props.
Inside dimensions: 1.43 m x 0.87 m x 0.69 m, welded, of square tube 60 mm x 60 mm, with particularly robust construction of the crane hook for transportation by crane. Fork-lift truck entry from all sides in the storage hall or on the building site

	Part-No.	Kg	Unit
Galvanized	50115	52.0	1



Stackable pallet

for universal use for the storage of long goods, vertical and cross tubes are made of Ø 48.3 mm round tube,
inside dimensions: 4.00 m x 0.87 m x 0.60 m, with 4 additional center welded cross tubes, the pallet can carry loads up to 1.5 t, can be moved by fork-lift truck, platform floor truck or crane, the tulip shape of the feet gives the pallet stack stability

	Part-No.	Kg	Unit
Galvanized	50200-40	55.0	1



Pallet for crowd barriers

for easy transport, especially for crowd barriers, welded of solid square tube, vertical tubes can be taken out

Part-No. Kg Unit

Galvanized , dimensions: 1500 x 935 x 575 mm	419.05	23.5	1
Galvanized , dimensions: 1400 x 935 x 775 mm	419.06	32.5	1
Galvanized , dimensions: 1400 x 825 x 775 mm	419.07	28.5	1



Solid wall pallet

for versatile everyday use in industry and trade, very sturdy design for high loads, dimensions: 1.00 m x 0.80 m, load: 1.5 t

Part-No. Kg Unit

Painted	50180	51.0	1
Galvanized	50181	53.0	1



Solid wall pallet

for universal use in storage, vertical and cross tubes made of Ø 48.3 mm round tube, inside dimensions: 1.43 m x 0.87 m x 0.70 m, solid wall pallet can hold up to 1.5 t of load, suitable for transport by fork-lift truck, platform floor truck or crane, the shape of the feet adds stability to the stack, 4 containers are possible in a stack

Part-No. Kg Unit

Painted	50321	67.0	1
Galvanized	50322	69.0	1

Mesh box pallet

for universal use in storage, vertical tubes made of Ø 57 mm round tube, cross tubes of Ø 48.3 mm round tube, inside dimensions: 1.30 m x 0.70 m x 0.70 m, mesh box pallet can hold up to 1.5 t of load, suitable for transport by fork-lift truck, platform floor truck or crane, the shape of the feet adds stability to the mesh box pallet stack

Part-No. Kg Unit

Painted	50300	64.0	1
Galvanized	50310	66.0	1

Mesh box pallet

for universal use in storage, vertical tubes and cross tubes of Ø 48.3 mm round tube, inside dimensions: 1.43 m x 0.87 m x 0.70 m, mesh box pallet can hold up to 1.5 t of load, suitable for transport by fork-lift truck, platform floor truck or crane, the shape of the feet adds stability to the mesh box pallet stack

Part-No. Kg Unit

Painted	50320	67.0	1
Galvanized	50330	69.0	1



Mesh box pallet

for universal use in storage, vertical tubes and cross tubes of Ø 48.3 mm round tube, inside dimensions: 1.50 m x 0.87 m x 0.60 m, mesh box pallet can hold up to 1.5 t of load, suitable for transport by fork-lift truck, platform floor truck or crane, the shape of the feet adds stability to the mesh box pallet stack

Part-No. Kg Unit

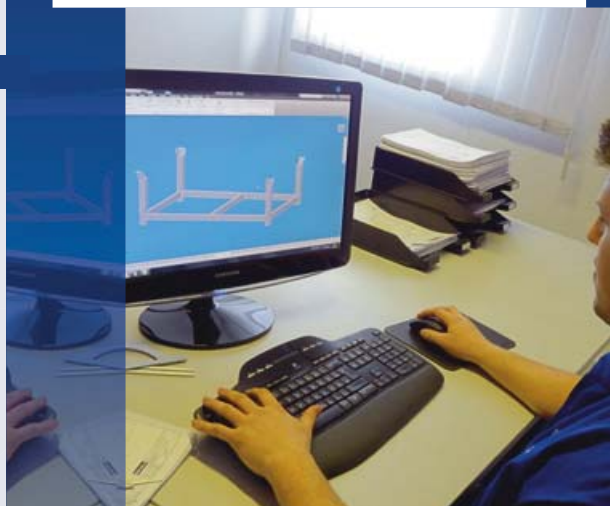
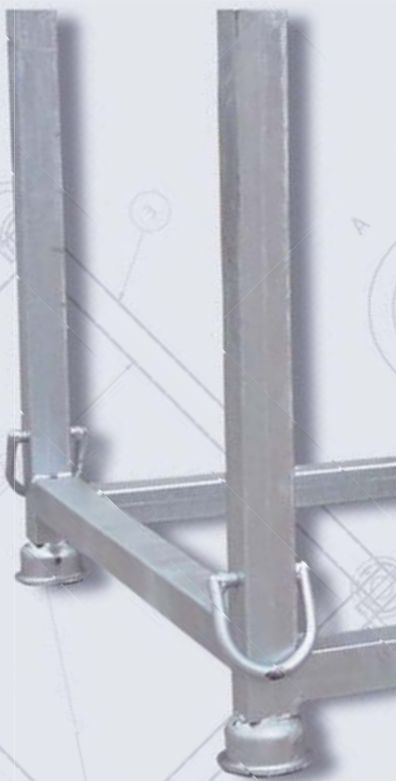
Painted	50340	69.0	1
Galvanized	50350	71.0	1

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We design and make your special pallet!

Our customers are active in many industries and other areas where they face different challenges. Versatile products and different applications entail individual requirements in storage equipment.

To enable us to develop the optimum storage equipment for you, our experts invest their experience for your benefit to develop a solution for you together with you.

**i**

The quick route to your individual storage solution

1. You have a special requirement for an individual storage solution.
2. Please contact our experts and explain your problem to them or simply mail us a rough sketch with your idea of what the pallet construction should look like.
3. We develop a convincing steel construction and send you a technical design drawing.
4. You may want changes to be made to the design, and we will make the changes until the design is satisfactory to you.
5. We manufacture your special construction in highest quality.

Please contact us!

Transport equipment



**Profi builder's wheelbarrow „Export“**

cross frame and barrow are welded to be resistant to torsion, steel tube Ø 34 mm, wall thickness 1.5 mm, foot reinforcement, galvanized 85-liter pan, metal thickness 1.2 mm, pan edge with rod insert all around, hand-friendly wooden handles

„Export“ assembled	Part-No.	Kg	Unit
- Inflatable tire 400/100 on steel rim, grooved ball bearings	50900EXKL	19.0	1
- Polyurethane wheel, grooved ball bearings	50900EXPU	19.0	1
- Inflatable tire 400/100 on steel rim, grooved ball bearings, bent handlebar	50900EXKLKI	19.0	1
- Inflatable tire 400/100 on steel rim, grooved ball bearings	51900EXKL	19.0	1

Accessories	Part-No.	Kg	Unit
Frame	50901GEX	8.0	1
Pan galvanized, 85 liters	50901MEX	7.0	1
Bent handlebar	50909	0.9	1
Accessories bag with:	5Z10314	0.7	1
- 5 pan screws			
- Axle complete			
- 2 wooden handles, cylindrical with 2 nails			

Wheelbarrow „Carry“

pan-supporting tubular steel frame, steel tube Ø 34 mm, wall thickness 1.5 mm, feet welded opposite each other, galvanized 85-liter pan, sheet metal thickness 1.00 mm, plastic handles

„Carry“ unassembled	Part-No.	Kg	Unit
- Inflatable tire 400/100 on steel rim, grooved ball bearings	51960CAKL	14.0	1

Accessories	Part-No.	Kg	Unit
Frame with handles	50961GCA	5.8	1
Pan galvanized, 85 liters	50961MCA	5.7	1
Pan galvanized, 120 liters	50972MPR	10.0	1
Double bottom	5D10119	1.5	1
Bent handlebar	50909	0.9	1
Accessories bag with:	5Z10316	0.6	1
- 4 pan screws			
- Axle complete			





Profi wheelbarrow „Praktica“

pan-supporting tubular steel frame, steel tube Ø 34 mm, wall thickness 1.5 mm, feet welded opposite each other, galvanized pan, metal thickness 1.00 mm, pan edge with rod insert all around, hand-friendly wooden handles



„Praktica“ 85 assembled

- Inflatable tire 400/100 on steel rim,
grooved ball bearings

Part-No.	Kg	Unit
50970PRKL	16.0	1

„Praktica“ 120 assembled

- Inflatable tire 400/100 on steel rim,
grooved ball bearings

50970PRKL12	19.0	1
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„Praktica“ 120 unassembled

- Inflatable tire 400/100 on steel rim,
grooved ball bearings

51970PRKL12	19.0	1
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Accessories

Frame
Pan galvanized, 85 liters
Pan galvanized, 120 liters
Pan galvanized, 150 liters
Accessories bag with:
- 4 pan screws
- Axle complete
- 2 wooden handles, tapered

Part-No.	kg	Unit
50971GPR	6.0	1
50985MPRCP	6.8	1
50972MPR	9.8	1
50973MPR	11.8	1
5Z10325	0.6	1



Profi deep wheelbarrow „Eurocar“

pan-supporting tubular steel frame with bent handlebar, steel tube Ø 34 mm, wall thickness 1.5 mm, feet welded opposite each other, with reinforcement, galvanized barrow, deep 100 liter pan, sheet metal thickness 1.00 mm, profiled beaded edge, front welded pan support, hand-friendly wooden handles



„Eurocar“ with galvanized pan, assembled

- Inflatable tire 400/100 on steel rim,
grooved ball bearings

Part-No.	Kg	Unit
50940EUKL	17.0	1

- Polyurethane yellow,
grooved ball bearings

50940EUPU	17.0	1
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Service parts

Spare wheel, inflatable, with
plastic plain bearings
grooved ball bearings

Part-No.	Kg	Unit
50989RGL	2.5	1
50988RKL	2.6	1

Spare wheel solid rubber with
roller bearings

Part-No.	Kg	Unit
50984	7.5	1

Spare wheel PU with
ball bearings

Part-No.	Kg	Unit
50974	3.2	1

Axle complete

Part-No.	Kg	Unit
50990A	0.3	1



**Angle iron pan „Matador“**

sturdy angle iron frame, welded and painted 85-liter pan, sheet metal thickness 1.25 mm, very sturdy pan support, reinforced welded edge, wooden handles

„Matador“ assembled

- Inflatable tire 400/100 on steel rim,
grooved ball bearings

Part-No.	Kg	Unit
50930MAKL	25.0	1

- Solid tire,
roller bearings

50930MARL	28.0	1
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Accessories

Frame
Pan
Support
Accessories bag with:
- 6 pan screws
- Axle complete
- 2 wooden handles, with screws

Part-No.	Kg	Unit
50931GMA	10.5	1
50931MMA	9.7	1
50983	1.0	1
5Z10381	0.8	1

**Wheelbarrow „Allcar“**

pan-supporting tubular steel frame, with bent feet and handlebar, galvanized pan, profiled beaded edge, sheet metal thickness 0.9 mm, steel tube Ø 34 mm, feet welded opposite each other, front pan support bolted, plastic handles

„Allcar 85“ assembled

- Inflatable tire 400/100 on steel rim,
grooved ball bearing

Part-No.	Kg	Unit
50910AL85KL	12.0	1

„Allcar 100“ montiert

- Inflatable tire 400/100 on steel rim,
grooved ball bearings

50910ALKL	14.0	1
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„Allcar 100“ assembled

- Inflatable tire 400/100 on steel rim,
grooved ball bearings

51910ALKL	14.0	1
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„Allcar 100 PP“ assembled

- Inflatable tire 400/100 on steel rim,
grooved ball bearings

50910ALPPKL	13.0	1
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Accessories

Frame with pan support
and handles
Pan galvanized, 85 liters
Pan galvanized, 100 liters
Pan, 100 liters, PP
Accessories bag with:
- 5 pan screws
- Axle complete

Part-No.	Kg	Unit
50911GAL	6.3	1
50911MAL85	4.9	1
50987MALGA	5.2	1
50986MPP	5.0	1
5Z10327	0.7	1



Tubular steel hand truck 250

carries 250 kg, steel rim, safety handles,
plate size: 335 mm x 200 mm

	Part-No.	Kg	Unit
- With inflatable tire 260 / 85	51902	8.0	1



Tubular steel hand truck 300

carries 300 kg, safety handles,
plate size: 400 mm x 160 mm, wheel guard

Versions	Part-No.	Kg	Unit
- Inflatable tire 260 / 85 on steel rim	51901	12.0	1
- Solid tire 250 / 50 on plastic rim	51901VO	12.0	1



Trolley for base plates

trolley with pneumatic tires for easy handling of base plates item-no. 31NOX
by underpinning the carry handle.

	Part-No.	Kg	Unit
Galvanized	51903	15.5	1

Crane and loading fork, automatic weight compensation

- The models comply with UVV accident prevention regulations, applicable norms and guide lines
- Weight is balanced automatically
- Adjustable forks and height adjustment
- Easy setting of forks to all pallet sizes
- Forks can be pushed together for transport of coils and rings
- 4 m long safety chain to latch the load is part of the supply



Operation:

With these models, the forks turn upward when the load is taken up.

In this way, the load cannot slip accidentally. The lifting eye is pivotably supported in a chassis sub-frame. When a load is taken up by the fork, a gas strut takes care of the automatic weight compensation. This ensures that the hang point is always at the center of gravity of the fork and the loads can be moved safely. The self-compensation function is only available if at least 20% of the carrying power is utilized.



Technical features:

Part-No.	Carrying power	Fork adjustment	Useful height	Fork length	Fork cross sectional area	Total height	Weight
1500	1500 kg	350 - 900 mm	1300 - 2000 mm	1000 mm	100 mm	1600 - 2300 mm	150 kg
2000	2000 kg	400 - 900 mm	1300 - 2000 mm	1000 mm	120 mm	1640 - 2340 mm	200 kg

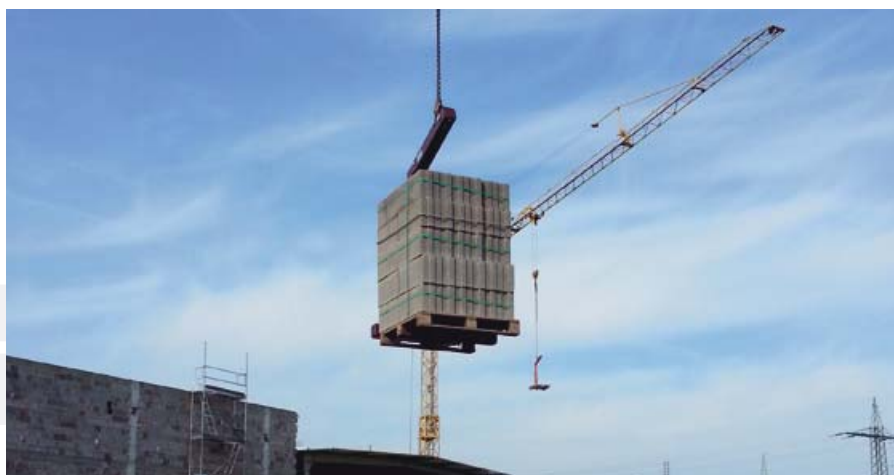


Crane and loading fork 1500

	Part-No.	Kg	Unit
Painted	50K15	150.0	1
Galvanized	50K15V	150.0	1

Crane and loading fork 2000

	Part-No.	Kg	Unit
Painted	50K20	200.0	1
Galvanized	50K20V	200.0	1



Road construction

Event

Mobile fence

Building construction

Civil engineering

Storage equipment

Transport equipment

Transport securing device

Transport securing device





Lashing strap, one-piece, with clamping lock

of polyester acc. to DIN EN 121965-2

Part-No.	Belt width	Traction/daN	Length	Kg	Unit
50251-4K	25.00 mm	200 / 400	4.00 m	0.19	25
50251-6K	25.00 mm	200 / 400	6.00 m	0.26	25
50251-8K	25.00 mm	200 / 400	8.00 m	0.33	25



Lashing strap, one-piece, with ratchet

of polyester acc. to DIN EN 121965-2

Part-No.	Belt width	Traction/daN	Length	Kg	Unit
50251-4	25.00 mm	250 / 500	4.00 m	0.30	25
50251-5	25.00 mm	250 / 500	5.00 m	0.32	25
50251-6	25.00 mm	250 / 500	6.00 m	0.35	25
50251-4P	25.00 mm	400 / 800	4.00 m	0.30	50
50251-6P	25.00 mm	400 / 800	6.00 m	0.35	50
50251-8P	25.00 mm	400 / 800	8.00 m	0.40	50
50251-4PP	25.00 mm	500 / 1000	4.00 m	0.32	25
50251-6PP	25.00 mm	500 / 1000	6.00 m	0.38	25
50251-8PP	25.00 mm	500 / 1000	8.00 m	0.44	25
50351-4	35.00 mm	1000 / 2000	4.00 m	0.68	10
50351-6	35.00 mm	1000 / 2000	6.00 m	0.80	10
50351-8	35.00 mm	1000 / 2000	8.00 m	0.92	10
50501-6	50.00 mm	2000 / 4000	6.00 m	1.60	10
50501-8	50.00 mm	2000 / 4000	8.00 m	1.81	10
50501-6P	50.00 mm	2500 / 5000	6.00 m	1.81	10
50501-8P	50.00 mm	2500 / 5000	8.00 m	2.05	10
50751-8	50.00 mm	5000 / 10000	8.00 m	5.91	5



Taking less than 1 unit on request



Lashing strap, 2-part, with ratchet

of polyester acc. to DIN EN 121965-2 ; Ergo = long-handle ratchet

Part-No.	Belt width	Traction/daN	Length	Kg	Unit
50252-4	25.00 mm	250 / 500	4.00 m	0.41	25
50252-5	25.00 mm	250 / 500	5.00 m	0.44	25
50252-6	25.00 mm	250 / 500	6.00 m	0.47	25
50252-4P1	25.00 mm	400 / 800	4.00 m	0.37	25
50252-6P1	25.00 mm	400 / 800	6.00 m	0.42	25
50252-8P1	25.00 mm	400 / 800	8.00 m	0.47	25
50252-4P2	25.00 mm	500 / 1000	4.00 m	0.46	25
50252-6P2	25.00 mm	500 / 1000	6.00 m	0.53	25
50252-8P2	25.00 mm	500 / 1000	8.00 m	0.59	25
50352-4	35.00 mm	1000 / 2000	4.00 m	0.96	10
50352-6	35.00 mm	1000 / 2000	6.00 m	1.08	10
50352-8	35.00 mm	1000 / 2000	8.00 m	1.20	10
50502-6	50.00 mm	2000 / 4000	6.00 m	2.19	10
50502-8	50.00 mm	2000 / 4000	8.00 m	2.40	10
50502-8ERGO	50.00 mm	2000 / 4000	8.00 m	2.76	8
50502-10ERGO	50.00 mm	2000 / 4000	10.00 m	2.97	8
50502-6P	50.00 mm	2500 / 5000	6.00 m	2.33	5
50502-8P	50.00 mm	2500 / 5000	8.00 m	2.60	5
50502-10P	50.00 mm	2500 / 5000	10.00 m	2.85	5
50502-8PERGO	50.00 mm	2500 / 5000	8.00 m	3.00	8
50502-10PERGO	50.00 mm	2500 / 5000	10.00 m	3.90	8
50752-8	75.00 mm	5000 / 10000	8.00 m	6.75	5



Taking less than 1 unit on request

Edge protection

protects from sharp edges and abrading surfaces

Model	Part-No.	Material	For belt width	Angle	Total width	Leg length	Kg	Unit
1	50KS01	PE	50.00 mm	90°	135 mm	90 mm	0.08	320
2	50KS02	PU	50.00 mm	flexible	100 mm	140mm	0.14	200
3	50KS03	PE	50.00 mm	90°	135 mm	90 mm	0.07	320
4	50KS05	PE	75.00 mm	100°	145 mm	179x131.5 mm	0.23	300
5	50KS07	PVC	50.00 mm	hose	75 mm	250 mm	0.084	360
6	50KS10	HDPE	all variations	90°	1000 mm	190 mm	2.15	70
7	50KS04	metal	65.00 mm	84°	125 mm	85x70 mm	0.34	300



Taking less than 1 unit on request





Anti-slip mats

reduces slipping of cargo on load platforms and at other places. A good anti-slip mat can provide up to 60% of safety of the loaded cargo.

- Made of highly compressed recycled material
- Secures the load due to a high dynamic friction coefficient > 0.6
- Temperature range -40°C to +115°C

Part-No.	Variation	Sizes	Thickness	Kg	Unit
50KS08	Packed in a roll	5 m / width: 250 mm	8.00 mm	8.20	1
50KS09	Pc.	200 mm x 100 mm	8.00 mm	0.13	168

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Taking less than 1 unit on request

Endless sling with double sheath

made of heavy-duty fabric – acc. to DIN 1492-2 safety factor: 7:1, material 100 % polyester, easy to handle, light-weight and insensitive to heat, cold and moisture; temperature range: -40°C to +100°C. For safe lifting of loads

Part-No.	Belt width	Lifting force	Circumference	Usable length	Kg	Unit
50001-12	37.00 mm	1000 kg	2.00 m	1.0 m	0.30	50
50001-1.5/3	37.00 mm	1000 kg	3.00 m	1.5 m	0.39	25
50001-24	37.00 mm	1000 kg	4.00 m	2.0 m	0.60	25
50001-2.5/5	37.00 mm	1000 kg	5.00 m	2.5 m	0.63	10
50001-36	37.00 mm	1000 kg	6.00 m	3.0 m	0.85	10
50001-48	37.00 mm	1000 kg	8.00 m	4.0 m	1.00	10
50002-12	37.00 mm	2000 kg	2.00 m	1.0 m	0.45	50
50002-1.5/3	37.00 mm	2000 kg	3.00 m	1.5 m	0.70	25
50002-24	37.00 mm	2000 kg	4.00 m	2.0 m	0.88	25
50002-2.5/5	37.00 mm	2000 kg	5.00 m	2.5 m	1.16	10
50002-36	37.00 mm	2000 kg	6.00 m	3.0 m	1.30	10
50002-48	37.00 mm	2000 kg	8.00 m	4.0 m	1.84	10
50003-12	44.00 mm	3000 kg	2.00 m	1.0 m	0.63	25
50003-1.5/3	44.00 mm	3000 kg	3.00 m	1.5 m	0.92	25
50003-24	44.00 mm	3000 kg	4.00 m	2.0 m	1.24	25
50003-2.5/5	44.00 mm	3000 kg	5.00 m	2.5 m	1.63	10
50003-36	44.00 mm	3000 kg	6.00 m	3.0 m	1.53	10
50003-48	44.00 mm	3000 kg	8.00 m	4.0 m	2.60	10



WLL 1.0 t
WLL 2.0 t
WLL 3.0 t
WLL 4.0 t
WLL 5.0 t
WLL 6.0 t
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WLL 10.0 t

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Taking less than 1 unit on request

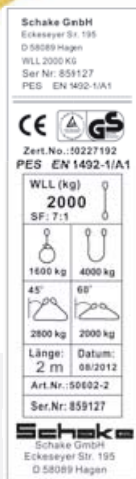


Color	One sling / one hoisting band					Two slings / two hoisting bands			
	Direct	Strung	Applied around, wound around			Direct	Strung	Direct	Strung
	0°	0°	0°	bis 45°	45° - 60°	bis 45°		45° - 60°	
Violet	1.000	800	2.000	1.400	1.000	1.400	1.120	1.000	800
Green	2.000	1.600	4.000	2.800	2.000	2.800	2.240	2.000	1.600
Yellow	3.000	2.400	6.000	4.200	3.000	4.200	3.360	3.000	2.400
Grey	4.000	3.200	8.000	5.600	4.000	5.600	4.480	4.000	3.200
Red	5.000	4.000	10.000	7.000	5.000	7.000	5.600	5.000	4.000
Brown	6.000	4.800	12.000	8.400	6.000	8.400	6.720	6.000	4.800
Blue	8.000	6.400	16.000	11.200	8.000	11.200	8.960	8.000	6.400
Orange	10.000	8.000	20.000	14.000	10.000	14.000	11.200	10.000	8.000



Lifting band

with reinforced eyes at the ends – acc. to DIN 1492-1 safety factor: 7:1, material 100 % polyester with special reinforcement – reduced elongation. Easy to handle, light weight and insensitive to heat, cold or moisture; temperature range: -40°C bis +100°C, for safe lifting of load



WLL 1,0 t
WLL 2,0 t
WLL 3,0 t
WLL 4,0 t
WLL 5,0 t
WLL 6,0 t
WLL 8,0 t
WLL 10,0 t

Part-No.	Belt width	Lifting force	Usable length	Kg	Unit
50301-1	30 mm	1000 kg	1.00 m	0.23	25
50301-2	30 mm	1000 kg	2.00 m	0.40	25
50301-3	30 mm	1000 kg	3.00 m	0.58	25
50301-4	30 mm	1000 kg	4.00 m	0.77	10
50301-5	30 mm	1000 kg	5.00 m	0.93	10
50301-6	30 mm	1000 kg	6.00 m	1.10	10
50301-8	30 mm	1000 kg	8.00 m	1.43	10
50602-1	60 mm	2000 kg	1.00 m	0.44	25
50602-2	60 mm	2000 kg	2.00 m	0.85	25
50602-3	60 mm	2000 kg	3.00 m	1.14	25
50602-4	60 mm	2000 kg	4.00 m	1.55	10
50602-5	60 mm	2000 kg	5.00 m	1.90	10
50602-6	60 mm	2000 kg	6.00 m	2.25	10
50602-8	60 mm	2000 kg	8.00 m	2.50	10
50903-1	90 mm	3000 kg	1.00 m	0.69	10
50903-2	90 mm	3000 kg	2.00 m	1.24	10
50903-3	90 mm	3000 kg	3.00 m	1.79	10
50903-4	90 mm	3000 kg	4.00 m	2.45	10
50903-5	90 mm	3000 kg	5.00 m	2.98	5
50903-6	90 mm	3000 kg	6.00 m	3.53	5
50903-8	90 mm	3000 kg	8.00 m	4.63	5



Taking less than 1 unit on request



Covering net

made of polypropylene, no knots; mesh width: 45 mm, with rubber cord all around, rope Ø 3 mm, color: green. Particularly suitable for the safe transportation of small items, bulk material and bulky goods on platforms and car trailers



Dekra-certified

Part-No.	Sizes	Kg	Unit
501522	1.50 x 2.20 m	0.83	28
502025	2.00 x 2.50 m	1.20	20
502030	2.00 x 3.00 m	0.95	10
502035	2.00 x 3.50 m	1.63	20
502535	2.50 x 3.50 m	1.45	16
502540	2.50 x 4.00 m	2.35	8
503035	3.00 x 3.50 m	1.70	15
503040	3.00 x 4.00 m	1.90	12



Taking less than 1 unit on request

Covering net

made of polypropylene, firm edge; mesh width: 45 mm, (without rubber cord), rope Ø 3 mm, color: green



Dekra-certified

Part-No.	Sizes	Kg	Unit
503050	3.00 x 5.00 m	2.40	10
503060	3.00 x 6.00 m	2.90	5
503070	3.00 x 7.00 m	3.40	5
503080	3.00 x 8.00 m	3.85	8
503550	3.50 x 5.00 m	2.82	10
503570	3.50 x 7.00 m	3.95	5



Taking less than 1 unit on request

Mobile fence set 1 with storage and transport tie-bar

consisting of

- 29 pcs. Mobile fence „Light“ item-no. 3B2035L
- 30 pcs. Base plate of recycled plastic material item-no. 3F110
- 1 pc. Storage and transport tie-bar for fences item-no. 3B211
- 1 pc. Storage and transport tie-bar for feet item-no. 3B215

Part-No.	Kg	Unit
3B211-SET1	1185.0	1

Mobile fence set 2 with storage and transport tie-bar

consisting of

- 29 pcs. Mobile fence „Standard“ item no. 3B2035
- 30 pcs. Base plate of recycled plastic material item-no. 3F110
- 1 pc. Storage and transport tie-bar for fences item-no. 3B211
- 1 pc. Storage and transport tie-bar for feet item-no. 3B215

Part-No.	Kg	Unit
3B211-SET2	1317.0	1

Mobile fence set 3 with storage and transport tie-bar

consisting of

- 29 pcs. Mobile fence „Profi“ item-no. 3B2036H
- 30 pcs. Base plate of recycled plastic material item-no. 3F110
- 1 pc. Storage and transport tie-bar for fences item-no. 3B211
- 1 pc. Storage and transport tie-bar for feet item-no. 3B215

Part-No.	Kg	Unit
3B211-SET3	1313.0	1

Mobile fence set 1 with combi pallet and connecting clamp

consisting of:

- 30 pcs. Mobile fence „Light“ item-no. 3B2035L
- 31 pcs. Base plate of recycled plastic material item-no. 3F110L
- 1 pc. Combi pallet for fences and feet item-no. 3B211K
- 30 pcs. Connecting clamp item-no. 3VB10

Part-No.	Kg	Unit
3B211K-SET1	1079.0	1

Mobile fence set 2 with combi pallet and connecting clamp

consisting of

- 30 pcs. Mobile fence „Standard“ item-no. 3B2035
- 31 pcs. Base plate of recycled plastic material item-no. 3F110L
- 1 pc. Combi pallet for fences and feet item-no. 3B211K
- 30 pcs. Connecting clamp item-no. 3VB10

Part-No.	Kg	Unit
3B211K-SET2	1217.0	1

Mobile fence set 3 with combi pallet and connecting clamp

consisting of

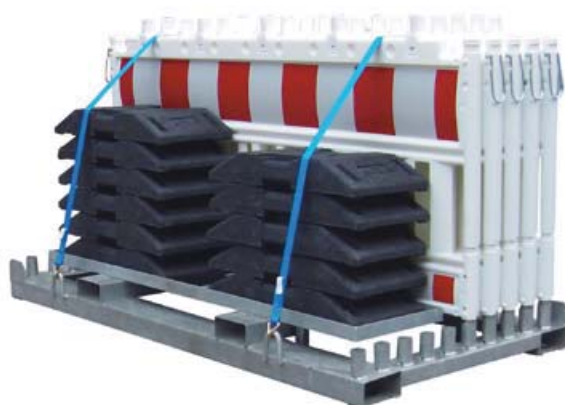
- 30 pcs. Mobile fence „Profi“ item-no. 3B2036H
- 31 pcs. Base plate of recycled plastic material item-no. 3F110
- 1 pc. Combi pallet for fences and feet item-no. 3B211K

Part-No.	Kg	Unit
3B211K-SET3	1344.0	1

Panel fence set 1 with storage and transport tie-bar, base plate cross member and lashing straps without lamp adapters

consisting of:

- 1 pc. Storage and transport tie-bar for fences item-no. 32000
- 1 pc. Base plate cross member for K1 feet item-no. 32000-A
- 10 pcs. Schake-Euro1 panel fence, without lamp adapters item-no. 33420K
- 11 pcs. TL base plate to K1, 30 kg, item-no. 31991
- 2 pcs. Lashing strap, 2 parts, with clamping lock item-no. 50352-4



Part-No.	kg	Unit
33420K-SET1	549.0	1

Panel fence set 1 with storage and transport tie-bar, base plate cross member and lashing straps with assembled lamp adapters

consisting of:

- 1 pc. Storage and transport tie-bar for fences item-no. 32000
- 1 pc. Base plate cross member for K1 feet item-no. 32000-A
- 10 pcs. Schake-Euro1 panel fence, with lamp adapters item-no. 33420KA
- 11 pcs. TL base plate to K1, 30 kg, item-no. 31991
- 2 pcs. Lashing strap, 2 parts, with clamping lock item-no. 50352-4

Part-No.	Kg	Unit
33420KA-SET1	556.0	1

Panel fence set 2 with storage and transport tie-bar for panel fences and feet without lamp adapters

consisting of:

- 1 pc. Storage and transport tie-bar for fences item-no. 32000
- 20 pcs. Schake-Euro1 panel fence, without lamp adapters item-no. 33420K
- 21 pcs. TL base plate to K1, 30 kg, item-no. 31991
- 1 pc. Storage and transport tie-bar for feet item-no. 3B214



Part-No.	Kg	Unit
33420K-SET2	1035.0	1

Panel fence set 2 with storage and transport tie-bar for panel fences and feet with assembled lamp adapters

consisting of:

- 1 pc. Storage and transport tie-bar for fences item-no. 32000
- 20 pcs. Schake-Euro1 panel fence, with lamp adapters item-no. 33420KA
- 21 pcs. TL base plate to K1, 30 kg, item-no. 31991
- 1 pc. Storage and transport tie-bar for feet item-no. 3B214

Part-No.	Kg	Unit
33420KA-SET2	1042.0	1

The „new“ Schake Imprint service

**The thievery on building areas increases more and more.
But how to protect?**

For sure there is no panacea, but by imprinting your goods, you could place a little barrier. In addition to mark your property, you can also use this imprinting for advertisement. This service gives you the option to imprint texts, logos and QR codes in different styles of writing

Long-living imprints

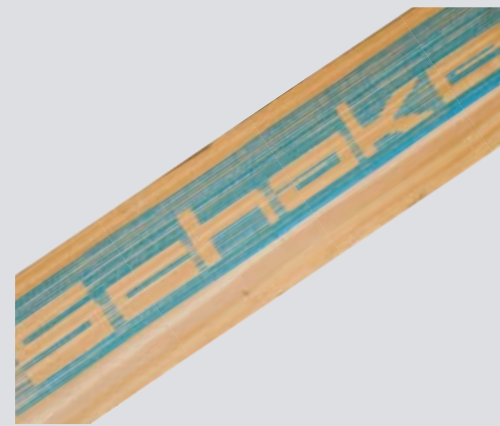
The ink we use is especially long-living and stable. Extensive tests from the producer confirm a perennial lasting on wood, plastic and galvanized metall - so all material we use.

Fixed permanently with the material

The advantage is clear - by printing directly on the material the removal is hindered. A sticker in contrast could be removed easily. Even a relative solvent resistance is warranted.

Price conscious advertising

The imprinting will be made directly in our warehouse. We would like to make you an offer to our imprinting service for your ordered products



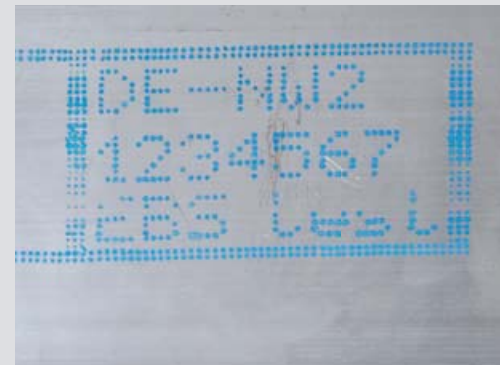
Imprinting on wood

Optimal results will be achieved on wood, like formwork beams

Imprinting on plastic

Also on plastic e.g. panel fences we can reach optimal results

Next to imprinting with letters in different styles, we can also make custom-made Logo printing.



Imprinting on metal

Let your building equipment been printed. All galvanized goods can be imprinted optimal. Our system works with high end ink, which is long lasting.





Rental products for distributors

Renting instead of buying



The Schake rental concept offers an economical alternative in case of large projects and the right solution for construction site safety measures and construction site installation.

We offer you an excellent product availability with high flexibility.

As a strong partner on your side you benefit not only from the constant high quality of our products, but also especially from our full service package, with a service of complete order processing- from delivery to pick-up.



Why renting?

Your advantages

- Best availability and flexibility
- Better to calculate, no risk of an investment
- Economical alternative in large projects
- Different opportunities to use and fast allocation
- Transparent costs without capital commitment
- Constant high product quality



Sample posts type 4702

- 1. Ornamental bollard of round steel tube \varnothing 82 mm**
type 485FB, removable, with triangular lock
- 2. Barrier post of steel tube 70 x 70 mm**
type 470UZH, foldable with Euro profile cylinder
- 3. Barrier post of steel tube 70 x 70 mm**
type 470FBOH, removable with triangular lock
- 4. Barrier post of round steel tube \varnothing 60 mm**
type 460FBOH, removable with triangular lock
- 5. Barrier post of steel tube 70 x 70 mm**
type 470FUB, foldable with triangular lock
- 6. Ornamental bollard of aluminium**
type 490B, stationary for casting in concrete
- 7. Car park barrier**
type 472Z, foldable with Euro profile cylinder lock to be fixed by plugs



Selling box 4707

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

Product liability:

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

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Barrier posts

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Stainless steel

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Barrier elements

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Barrier gates

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Outdoor equipment

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Work site protection



Plastic films for posts, hoops, etc.

Till tube Ø 60 mm

Plastic film, reflecting red 100 x 200 mm

Plastic film, black 100 x 200 mm

Plastic film, yellow 100 x 200 mm

Plastic film, reflecting white 100 x 200 mm

Part-No.

430.19

430.191

430.191G

430.191W

Till tube Ø 89 mm / square tube 70 x 70 mm

Plastic film, reflecting red 110 x 285 mm

Plastic film, black 110 x 285 mm

Plastic film, yellow 110 x 285 mm

Plastic film, reflecting white 110 x 285 mm

430.18

430.181

430.181G

430.181W

Till tube Ø 102 mm

Plastic film, reflecting red 110 x 330 mm

Plastic film, black 110 x 330 mm

430.182R

430.182S

Till tube Ø 108 mm

Plastic film, reflecting red 110 x 350 mm

Plastic film, black 110 x 350 mm

430.183R

430.183S

Till tube Ø 152 mm / square tube 100 x 100 mm

Plastic film, reflecting red 110 x 500 mm

Plastic film, black 110 x 500 mm

430.184R

430.184S

Till tube Ø 193 mm

Plastic film, reflecting red 110 x 620 mm

Plastic film, black 110 x 620 mm

Plastic film, yellow 110 x 620 mm

430.186R

430.186S

430.186G

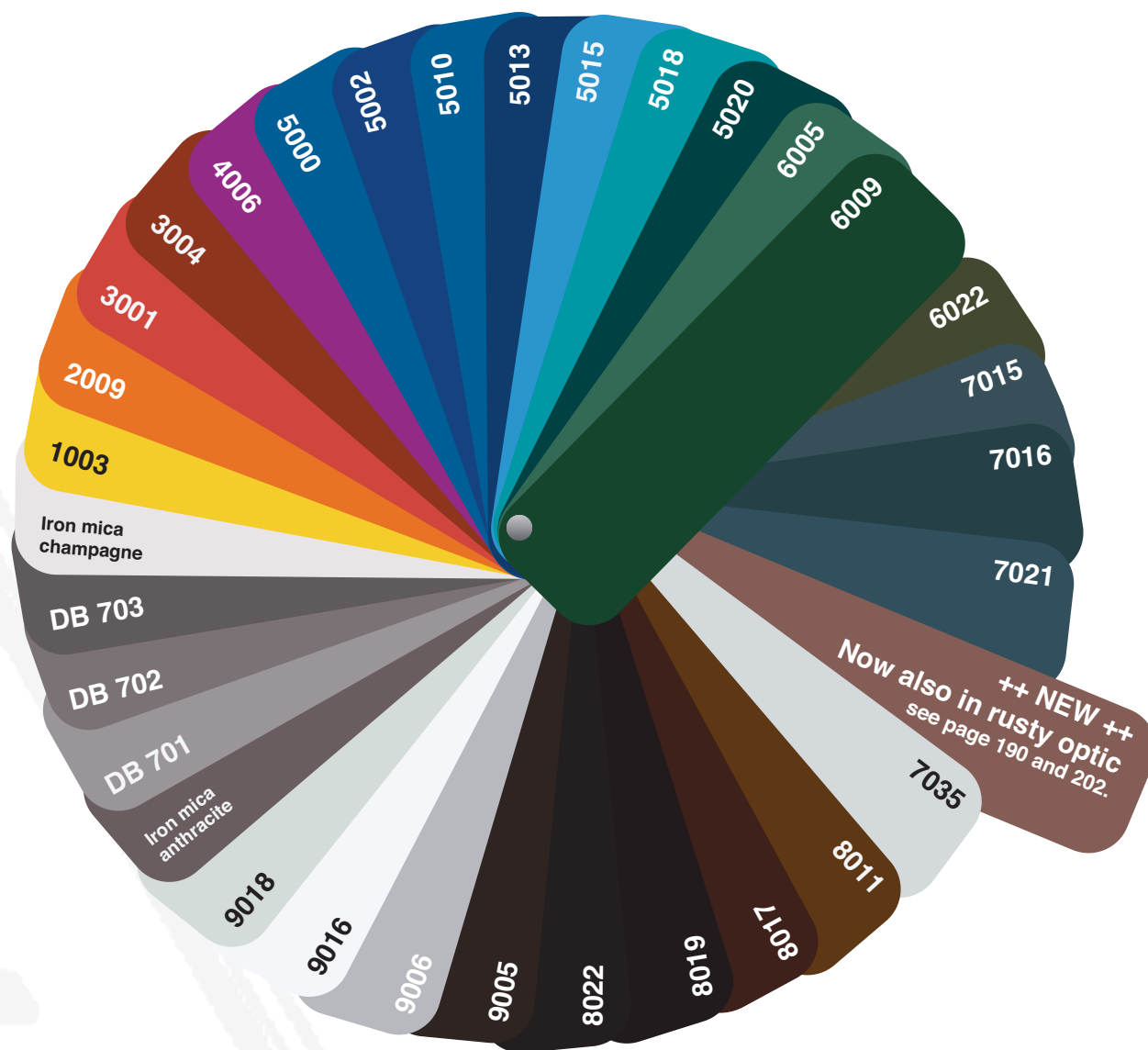
Till tube Ø 275 mm

Plastic film, reflecting red 110 x 890 mm

Plastic film, black 110 x 890 mm

430.187R

430.187S



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.



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.



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

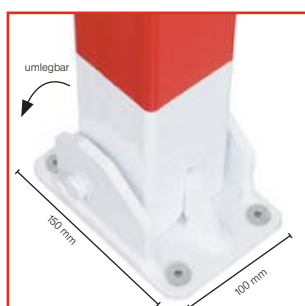
Installed in Ø 60 mm
Barrier post 460ZB



Base plate

for plugging or bolting to
ground socket

Hole pitch: 70 x 122 mm



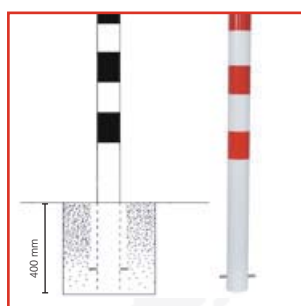
Hinged base plate

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



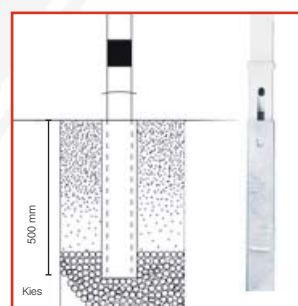
Ground socket

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.



1. Barrier posts



1.1 Barrier posts	126 - 157
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Diameter in mm											Square in mm	
Standard version		42	60	76	89	102	108	152	193	273	70x70	100x100

Stationary for casting in concrete	Catalog page	127	128	133	137	138	139	140	142	144	146	157
Stationary for plugging down			128	133	137	138	139	140	142	144	146	157
Removable with triangular locking mechanism			129	134	137	138	139	141	142	144	146	157
Removable with Euro profile cylinder lock			129	134				141			149	
Foldable with triangular locking system			130	135							148	
Foldable with Euro profile cylinder lock			130	135							149	

Special versions

Stationary to drive in	Catalog page	127										
Stationary tiltable				136								
Fire brigade guide post stationary			132									
Removable without locking system			132					141	143			
Removable for padlock			131									
Removable with top inside triangular locking mechanism											150	
Foldable with top inside triangular locking mechanism											150	
Foldable with lifting and tilting mechanism											153	
Foldable 500 mm above ground											156	
Foldable for padlock			131								152	
Foldable and removable											152	
Removable with 8 mm triangular lock											155	
With triangular look and Euro profile cylinder											151	
Fully retractable											154	

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

Barrier posts

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



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

Stationary, for casting in concrete

total length: 1300 mm

Hot-dip galvanized

Approx.kg	Part-No.
Without eyelet 2.3	4042
With 1 eyelet 2.3	4042/1
With 2 eyelets 2.3	4042/2

Hot-dip galvanized and white coated with
red reflecting stripes

Without eyelet 2.3	4042B
With 1 eyelet 2.3	4042B/1
With 2 eyelets 2.3	4042B/2



4042B/2

Stationary, to be fixed by plugs

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

Hot-dip galvanized

Without eyelet 2.0	4042P
With 1 eyelet 2.0	4042P/1
With 2 eyelets 2.0	4042P/2

Hot-dip galvanized and white coated
with red reflecting stripes

Without eyelet 2.0	4042PB
With 1 eyelet 2.0	4042PB/1
With 2 eyelets 2.0	4042PB/2



4042PB/2

Stationary, drive-in

with drive-in tip
total length: 1300 mm

Hot-dip galvanized

Without eyelet 2.5	4042E
With 1 eyelet 2.5	4042E/1
With 2 eyelets 2.5	4042E/2

Hot-dip galvanized and white coated
with red reflecting stripes

Without eyelet 2.5	4042EB
With 1 eyelet 2.5	4042EB/1
With 2 eyelets 2.5	4042EB/2



4042E/2



Barrier post of steel tube Ø 60 mm

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

Barrier posts

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



460B/2



460PB

Stationary, for casting in concrete

with ground anchor

Total length: 1300 mm

Hot-dip galvanized

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

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

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

Barrier posts

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



460FB



460ZB

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

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



**Barrier posts**

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



460FUB 470.60

Foldable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock

To be fixed by plugs

with base plate 100 x 150 mm

Hot-dip galvanized

6.5 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

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



460UZB 470.60



Barrier post also available with eyelets – add the following to the article number:
+1 for one eyelet or +2 for two eyelets; see page 164. The posts can also be supplied for
simultaneous locking or as master key system 165.
Other color finishes on request; see page 123.

Barrier posts

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



460VB

Removable, for padlock

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

Hot-dip galvanized

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



460UVB

470.60



Barrier post of steel tube Ø 60 mm



Barrier posts

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



460HB

Removable, without locking mechanism

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

Hot-dip galvanized

	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

Fire brigade guide posts

Steel tube Ø 60 x 2.5 mm
500 mm above ground

Stationary, for casting in concrete

with ground anchor
Total length: 900 mm

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

3.5 4061B



4061B

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
total length: 900 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



All posts also in just white available. Other colors on request and on page 123.



Barrier posts

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



476FB



476ZB

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

Removable, with Euro profile cylinder lock

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

Hot-dip galvanized

12.0

476Z

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

12.0

476ZB



Barrier posts also available with eyelets; add the following to the part-no.: +1 for one eyelet
or +2 for two eyelets; see pag 164. The posts can also be supplied for simultaneous locking or
as master key system, see page 165.
Other color finishes on request; see page 123.

Barrier posts

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



476FUB 470.60

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



476UZB 470.60

Foldable, with Euro profile cylinder lock

three keys, self-engaging lock

To be fixed by plugs

with base plate 100 x 150 mm

Hot-dip galvanized

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

9.5 476UZHB



Barrier posts

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



4076PB

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

Hot-dip galvanized

Approx.kg

Part-No.

4076P

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

6.5

4076PB



470.60

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



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 164.
Other color finishes on request; see page 123.

Barrier posts

Steel tube Ø 89 x 2.9 mm
with welded steel cap
900 mm above ground



489PB

489B

489FB

Stationary, for casting in concrete

with ground anchor

Total length: approx. 1300 mm

Hot-dip galvanized

7.5

489

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

7.5

489B

Stationary to be fixed by plugs

with base plate 100 x 150 mm

Hot-dip galvanized

7.5

489P

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

7.5

489PB

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

13.0

489F

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

13.0

489FB



Barrier posts also available with eyelets; see page 164.

**Barrier posts**

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

Approx.kg Part-No.

Stationary, for casting in concrete

with ground anchor
Total length: approx. 1300 mm

Hot-dip galvanized

10.0

491

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

10.0

491B

Stationary, to be fixed by plugs

with base plate 200 x 200 mm

Hot-dip galvanized

10.0

491P

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

10.0

491PB

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

13.5

491F

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

13.5

491FB



491B



491PB



491FB



Barrier posts also available with eyelets; see page 164.

Barrier posts

Steel tube Ø 108 x 2.9 mm
with welded steel cap
900 mm above ground

**Stationary, for casting in concrete**

with ground anchor

Total length: approx. 1300 mm

Hot-dip galvanized

Approx.kg 11.0

Part-No. 493

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

Approx.kg 11.0

Part-No. 493B

Stationary, to be fixed by plugs

with base plate 200 x 200 mm

Hot-dip galvanized

Approx.kg 11.0

Part-No. 493P

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

Approx.kg 11.0

Part-No. 493PB

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

Approx.kg 14.0

Part-No. 493F

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

Approx.kg 14.0

Part-No. 493FB



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



40151B

Steel tube bollards Ø 152 x 3.2 mm Stationary, for casting in concrete
with welded steel cap

	Total length in mm	1200	1500	2000
	Approx.kg	15.0	17.0	23.0
Hot-dip galvanized	Part-No.	40150	40151	40152
Hot-dip galvanized and white coated with three red reflecting stripes	Part-No.	40150B	40151B	40152B

**Steel cap for bolting**

Replaces welded steel cap

Add letter **L** to the Part-No.**Steel cap with concrete anchor**

Replaces welded steel cap

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

40153B

Steel tube bollards Ø 152 x 3.2 mm For plugging down, with base plate 220 x 220 mm
with welded steel cap

	Total length in mm	1000
	Approx.kg	14.0
Hot-dip galvanized	Part-No.	40153
Hot-dip galvanized and white coated with three red reflecting stripes	Part-No.	40153B



Set of mounting bolts see page 171.

Steel tube bollards removable

for temporary removable



40151HB

Steel tube bollards Ø 152 x 3.2 mm

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

Hot-dip galvanized

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

Removable, without locking mechanism

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



40151FB

Steel tube bollards Ø 152 x 3.2 mm

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

Hot-dip galvanized

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

Hot-dip galvanized

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

Removable, with triangular lock

Approx.kg	26.0
Part-No.	40151F
Part-No.	40151FB
Part-No.	40151ZB

Removable, with Euro profile cylinder lock three keys

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



Steel tube bollard Ø 193 mm

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



40191B



40193B

Steel tube bollards Ø 193 x 3.6 mm Stationary, for casting in concrete with welded steel cap

	Total length in mm	1200	1500	2000
	Approx.kg	21.0	26.0	35.0
Hot-dip galvanized	Part-No.	40190	40191	40192
Hot-dip galvanized and white coated with three red reflecting stripes	Part-No.	40190B	40191B	40192B



Steel cap for bolting
Replaces welded steel cap

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

Steel cap with concrete anchor
Replaces welded steel cap

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

Steel tube bollards Ø 193 x 3.6 mm For plugging down, with base plate 360 x 360 mm with welded steel cap

	Total length in mm	1000
	Approx.kg	25.0
Hot-dip galvanized	Part-No.	40193
Hot-dip galvanized and white coated with three red reflecting stripes	Part-No.	40193B



Set of mounting bolts see page 171.

Steel tube bollards removable

for temporary removable

**Steel tube bollard Ø 193 x 3.6 mm**

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

Removable, without locking mechanism

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

Approx.kg	32.0	42.0
Part-No.	40191H	40192H

Hot-dip galvanized

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

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



40191HB



40191FB

**Steel tube bollard Ø 193 x 3.6 mm**

with welded steel cap,
height above ground 1000 mm
including ground socket part-no. 40191.10
approx. 500 mm below ground

Removable, with triangular lock

Approx.kg	38.0
Part-No.	40191F

Hot-dip galvanized

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

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



Also available in yellow / black; see work site protection



Steel tube bollard Ø 273 mm



40271

Steel tube bollards Ø 273 x 5.0 mm Stationary, for casting in concrete with welded steel cap

	Total length in mm	1500	2000
Hot-dip galvanized	Approx.kg	50.0	68.0
	Part-No.	40271	40272
Hot-dip galvanized and white coated with three red reflecting stripes	Part-No.	40271B	40272B



Steel cap with concrete anchor Replaces welded steel cap

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



40273B

Steel tube bollards Ø 273 x 5.0 mm Stationary, for casting in concrete with welded steel cap

	Total length in mm	1500
Hot-dip galvanized	Approx.kg	60.0
	Part-No.	40273
Hot-dip galvanized and white coated with three red reflecting stripes	Part-No.	40273B



Set of mounting bolts see page 171.

Suggestion for mounting

casting in concrete of posts or ground sockets

1.

Excavation for concrete basis

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

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

2.

Gravel fill (drainage)
(for removable posts)

3.

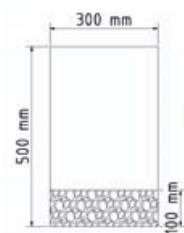
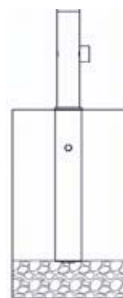
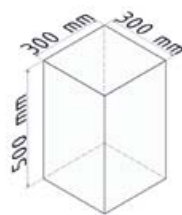
Post and socket are put central in basis hole
top edge ground socket same as top edge ground

4.

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

5.

Hardening and prove locking



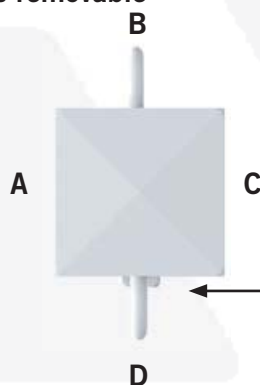
Position of eyelets

Standard positions:

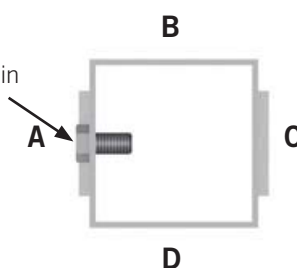
Posts with 1 eyelet: Position D

Posts with 2 eyelets: Positions D+B Eyelets are installed 35 mm from the top

Posts removable

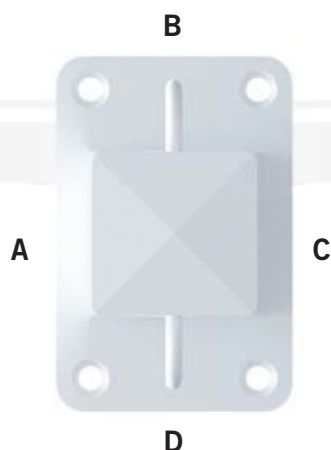


Adjustment of post in ground socket position A



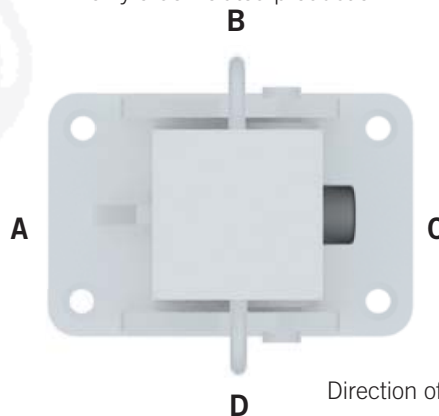
Position of the closure device (triangular or cylinder) position D

Stationary posts with base plate



Posts foldable

only order-related production



Direction of tilting →



Barrier post of steel tube 70 x 70 mm

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



Barrier posts

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



470B

Stationary, for casting in concrete

with ground anchor
Total length: 1300 mm

Hot-dip galvanized

	Approx.kg	Part-No.
Without eyelet	7.0	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

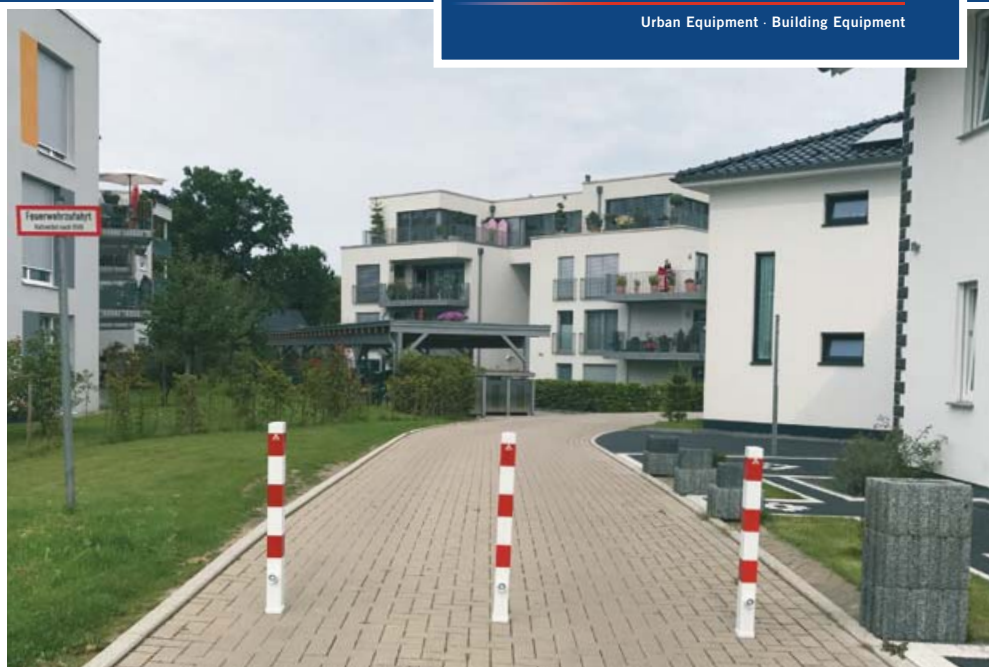
Without eyelet	6.0	470PB
With 1 eyelet	6.0	470PB/1
With 2 eyelets	6.0	470PB/2

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



470FB

Removable, with triangular locking mechanism

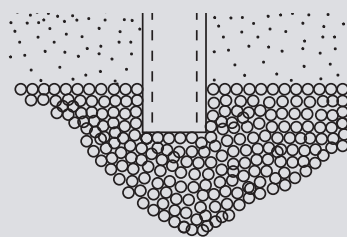
acc. with DIN 3223, self-engaging lock,
with ground socket part-no. 470.10, approx. 500 mm long

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



Instructions for mounting

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

Do not install in standing water.



For further accessories, see pages 162-167.



Barrier post of steel tube 70 x 70 mm

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



Barrier posts

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



470FUB



470.60

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

6.5

470FU

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

6.5

470FUB

For casting in concrete

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

Hot-dip galvanized

8.5

470FUH

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

8.5

470FUHB



Set of mounting bolts see page 171.

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

Barrier posts

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



470UZB



470.60



470ZB

Foldable, with Euro profile cylinder lock

three keys, self-engaging lock

To be fixed by plugs

with base plate 100 x 150 mm

Hot-dip galvanized

7.0

470UZ

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

7.0

470UZB

For casting in concrete

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

Hot-dip galvanized

9.5

470UZH

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

9.5

470UZHB

Removable, with Euro profile cylinder lock

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

Hot-dip galvanized

13.0

470Z

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

13.0

470ZB



The posts can also be supplied for simultaneous locking or as master key system;
see page 165.



Barrier post of steel tube 70 x 70 mm

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

Barrier posts

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



470DB



470UDB

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

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

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.

Barrier posts

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



470FZB



470FUZB

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



Barrier post of steel tube 70 x 70 mm

Barrier posts

Stainless steel

Barrier elements

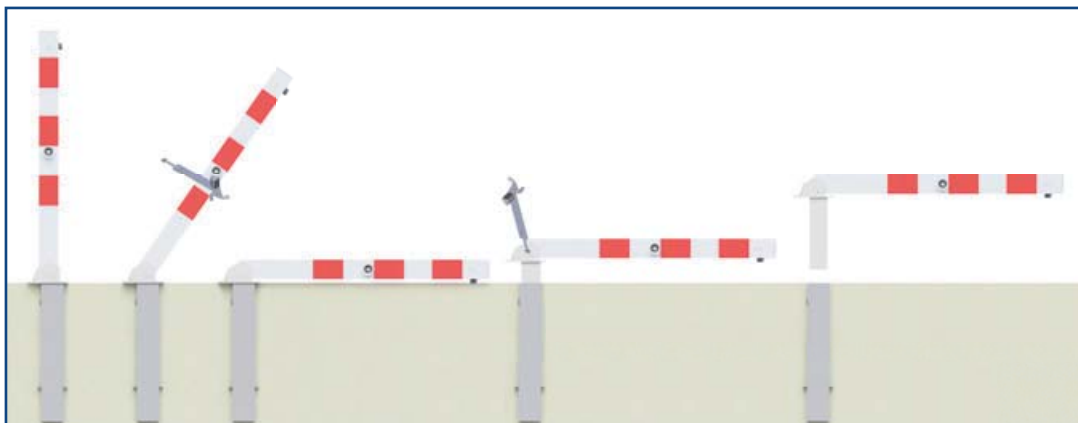
Barrier gates

Outdoor equipment

Work site protection

Barrier posts

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



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



4701FUZHB



470UVB

Foldable and removable

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

Hot-dip galvanized

With triangular locking mechanism

12.0

4701FUH

With Euro profile cylinder lock

12.0

4701UZH

With triangular and Euro profile cylinder lock

12.0

4701FUZH

Hot-dip galvanized and white

coated with three red reflecting stripes

With triangular locking mechanism

12.0

4701FUHB

With Euro profile cylinder lock

12.0

4701UZHB

With triangular and Euro profile cylinder lock

12.0

4701FUZHB

Multipurpose wrench



470.40

0.4 470.40

Foldable, for padlock

self-engaging lock

To be fixed by plugs

with base plate 100 x 150 mm

Hot-dip galvanized

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

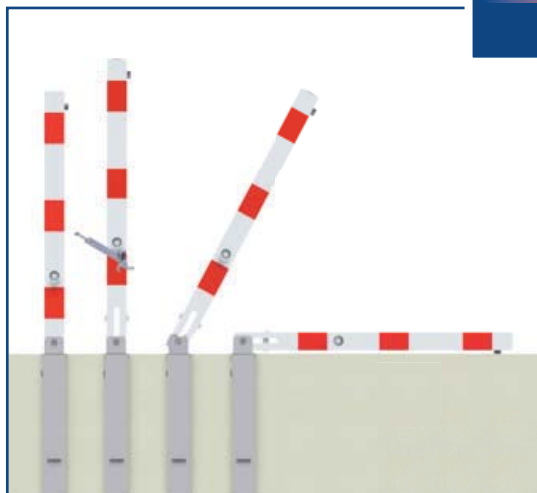
coated with three red reflecting stripes

11.0

470UVHB

Barrier posts

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



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

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

Hot-dip galvanized

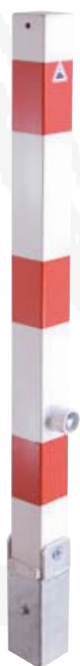
11.0

470FUKH

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

11.0

470FUKHB



470FUKHB



**Lifting and
tilting
mechanism**

Foldable, with Euro profile cylinder lock
acc DIN 3223 **with lifting and tilting mechanism**
with flat spring, self locking
with ground socket

Hot-dip galvanized

11.0

470UZKH

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

11.0

470UZKHB



470UZKHB



Barrier post of steel tube 70 x 70 mm

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

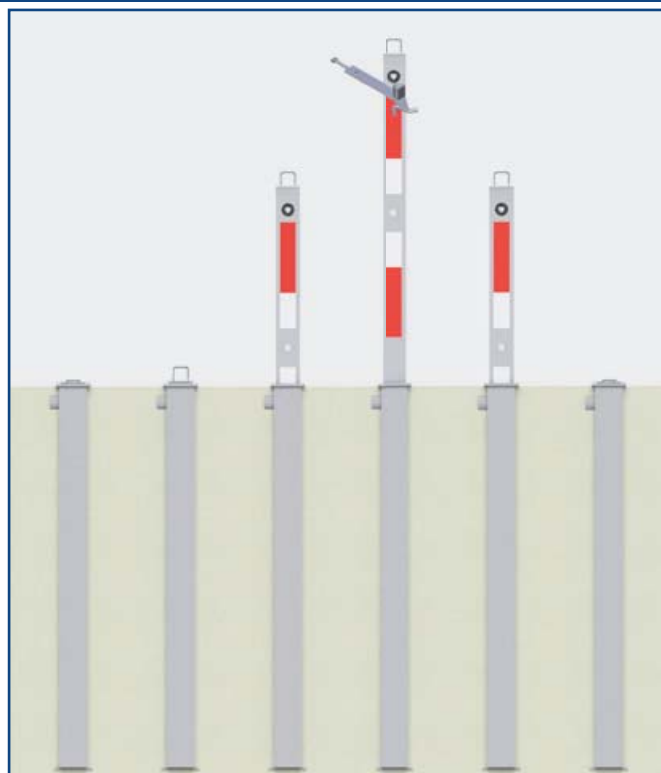
Work site protection

Barrier post

steel tube 70 x 70 mm
900 mm above ground



470DL



Approx.kg

Part-No.

Fully retractable with triangular locking system

acc. DIN 3223, ground socket 80 x 80 x 3 mm
over all length: approx. 1100 mm

Hot-dip galvanized
with white / red reflecting stripes

16.5

470DL



470ZL



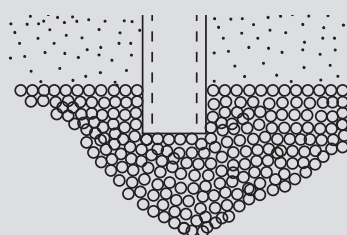
Fully retractable, with Euro profile cylinder lock

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



Instructions for mounting

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

Do not install in standing water.

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



Barrier posts

Steel tube 70 x 70 mm
900 mm above ground



With 8 mm triangular lock

470NB

Removable, with 8 mm triangular lock

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

Hot-dip galvanized

12.0

470N

Hot-dip galvanized

and red coated with white reflecting stripes

12.0

470NB

Foldable, with 8 mm triangular lock

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

To be fixed by plugs

with base plate 100 x 150 mm

Hot-dip galvanized

9.0

470UN

Hot-dip galvanized

and red coated with white reflecting stripes

9.0

470UNB

For casting in concrete

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

Hot-dip galvanized

11.0

470UNH

Hot-dip galvanized

and red coated with white reflecting stripes

11.0

470UNHB



4039

8 mm triangular lock key

key for opening the posts

4039



Barrier post of steel tube 70 x 70 mm

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



Barrier posts

Steel tube 70 x 70 mm
500 mm above ground



4715FUB

Foldable, with triangular locking mechanism

acc. 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

6.0

4715FU

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

6.0

4715FUB



4715UZB

Foldable, with Euro profile cylinder lock

with three keys, self-engaging lock

To be fixed by plugs

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

Hot-dip galvanized

6.0

4715UZ

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

6.0

4715UZB



470.60

Ground socket for casting in concrete

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

2.5

470.60

A heavy, sturdy barrier post for special purposes.

Barrier posts

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



40100B



40100PB



40100FB

Stationary, for casting in concrete

with ground anchor
Total length: 1250 mm

Hot-dip galvanized

Approx.kg 13.0

Part-No. 40100

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

Approx.kg 13.0

Part-No. 40100B

Stationary, to be fixed by plugs

with base plate 200 x 200 mm

Hot-dip galvanized

Approx.kg 11.0

Part-No. 40100P

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

Approx.kg 11.0

Part-No. 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

Approx.kg 16.0

Part-No. 40100F

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

Approx.kg 16.0

Part-No. 40100FB



4711PB

4711PB+1

470PB/1



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



470PB/1



470.60

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



Barrier chains see pages 162-163.



460KB

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

Chain post, 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 white coated with three red reflecting stripes,
foot plate of recycled material
400 x 400 x 100 mm, black, removable

Approx.kg

Part-No.

15.0

460KB



4040KB

Plastic chain post

lightweight chain post of plastic material for fast installation of barriers, including triangular plastic foot, side length 300 mm,
filled with concrete, plastic tube 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

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



Also available in yellow/black, see work site protection. Barrier chains see pages 162-163.



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

750
1.32
412212

450
0.93
412214

300
0.69
412215

Flexipost white
with red reflecting
stripes



Heightn mm	1000
Approx.kg	1.48
Part-No.	412221

750
1.32
412222

450
0.93
412224

300
0.69
412225

Flexipost black
with white stripes



Height in mm	1000
Approx.kg	1.48
Part-No.	412221BS

750
1.32
412222BS

450
0.93
412284BS

300
0.69
412282BS



Also available in yellow/black, see page 277.

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 © Poller Ø 60 mm



With ground plate for plugging

White with red reflecting stripes
Yellow with black stripes

With ground socket type for casting in concrete

White with red reflecting stripes
Yellow with black stripes

With ground plate for plugging Quick Release for quick removal of the KICKBACK © bollards incl. locking bolt type 470_426

White with red reflecting stripes
Yellow with black stripes



Approx.kg	Part-No.
2.5	4260B
2.5	4260BG
2.5	4260HB
2.5	4260HBG
2.5	4261B
2.5	4261BG
0.5	470.426
2.0	4S470.60MH

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



Latching pin

for Quick Release base plate

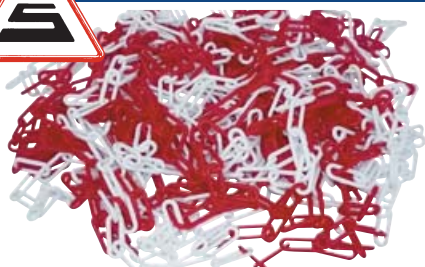


Separate ground socket

of steel, hot-dip galvanized, length 400 mm



Steel chains



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 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

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



430.11

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



430.09

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



430.12

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



430.13



Prices for larger quantities on request.



Prices for larger quantities on request.

Plastic barrier chain

6 mm thick

Red / white, packing unit 25 m

Yellow / black, packing unit 25 m

Approx.kg/VPE

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/VPE

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.

0.4

470.40

**Triangular standard wrench**

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

0.2

470.50

**Triangular socket wrench**

acc. with DIN 3223

0.2

470.30

**Square socket wrench, 6 mm**

for litter bin part-no. 4027

4037

**Triangular socket wrench, 8 mm**

for litter bin, galvanized

4038

**Triangular wrench, 8 mm**

handy wrench for opening the litter bins

4039

**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



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

1.3

478RB

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

1.3

4084RB

Extra charge for locking systems

for products with profile cylinder, incl. 3 keys
 profile cylinder in exchange, incl. 3 keys

	Part-No.
Profile cylinder different lockings (without security card)	
Profile cylinder 10/30	E4Z10/30
Profile cylinder 30/30	E4Z30/30
Profile cylinder 10/40	E4Z10/40
Profile cylinder simultaneously locking (without security card) extra price (respectify the article number)	Part-No. +ZGL
Profile cylinder 10/30	E4Z10/30ZGL
Profile cylinder 30/30	E4Z30/30ZGL
Profile cylinder 10/40	E4Z10/40ZGL
Profile cylinder with security card, different locking initial order extra price (respectify the article number)	Part-No. +ZSI
Profile cylinder 10/30	E4Z10/30ZSI
Profile cylinder 30/30	E4Z30/30ZSI
Profile cylinder 10/40	E4Z10/40ZSI
Profile cylinder with security card, simultaneously locking (initial order) extra price (respectify the article number)	Part-No. +ZSIGL
Profile cylinder 10/30	E4Z10/30ZSIGL
Profile cylinder 30/30	E4Z30/30ZSIGL
Profile cylinder 10/40	E4Z10/40ZSIGL
Profile cylinder for master key system with security card different locking extra price (respectify the article number)	Part-No. +ZHS
Profile cylinder 10/30	E4Z10/30ZHS
Profile cylinder 30/30	E4Z30/30ZHS
Profile cylinder 10/40	E4Z10/40ZHS
Profile cylinder for master key system with security card simultaneously locking extra price (respectify the article number)	Part-No. +ZHSGl
Profile cylinder 10/30	E4Z10/30ZHSGl
Profile cylinder 30/30	E4Z30/30ZHSGl
Profile cylinder 10/40	E4Z10/40ZHSGl
Additional key for profile cylinder (without security card)	470.55
Additional key for profile cylinder (with security card)	470.55SI
Additional key for profile cylinder for master key system (with security card)	470.55SIHS
Master key	470.56HS



Measures of profile cylinder

Profile cylinder 10/30 mm for posts 70 x 70 mm, car-park barriers and barrier poles

Profile cylinder 30/30 mm for posts Ø 60 mm,

Profile cylinder 10/40 mm for posts Ø 76 mm, Ø 82 mm



Ground socket for Ø 60 mm tubes

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

	Approx.kg	Part-No.
- For barrier posts with bottom part Ø 60 mm without locking mechanism	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 for Ø 60 mm tubes

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

0.8	460.20
-----	--------

Cover for Ø 60 mm tubes

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

1.0	460.21
-----	--------

Ground socket for Ø 76 mm tubes

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

- For barrier posts with bottom part Ø 76 mm without locking mechanism	3.0	476.10
--	-----	--------

- For removable barrier posts with bottom part Ø 76 mm with our type of locking mechanism	3.2	476.40
---	-----	--------

Cover for Ø 76 mm tubes

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

1.2	476.20
-----	--------

Cover for Ø 76 mm tubes

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

1.3	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

Approx.kg

Part-No.

3.0

470.15

**Ground socket**

of square tube 80 x 80 mm, hot-dip galvanized, with ground anchor

for removable barrier post with bottom part 70 x 70 mm
with our type of locking mechanism, length 500 mm

3.0

470.10

**Cover for square tube 70 x 70 mm**without locking mechanism, suitable for ground sockets
part-no. 470.10 and 470.15, hot-dip galvanized

1.0

470.20

**Cover for square tube 70 x 70 mm**suitable for ground socket part-no. 470.10, with spring-loaded
locking mechanism for opening by multipurpose wrench part-no. 470.40,
hot-dip galvanized

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:

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



Ground socket

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

300 mm long

2.5

473.31

500 mm long

3.7

473.51

Example of use





Blank plug

Ground socket for Ø 48 mm tubular post

of grey-cast iron, with threaded and tightening ring

300 mm long

Tightening ring

Threaded ring

Blank plug

Approx.kg

Part-No.

3.5

443.61

0.1

443.65

0.8

443.66

0.8

443.67



Steel wrench

Steel wrench

Hot-dip galvanized for Ø 48 mm

2.0

443.68



Blank plug

Ground socket for Ø 60 mm tubular post

of grey-cast iron, with threaded and tightening ring

300 mm long

500 mm long

Tightening ring

Threaded ring

Blank plug

5.0

463.61

7.0

463.62

0.1

463.65

0.8

463.66

0.8

463.67



Blank plug

Ground socket for Ø 76 mm tubular post

of grey-cast iron, with threaded and tightening ring

300 mm long

500 mm long

Tightening ring

Threaded ring

Blank plug

7.0

473.61

9.5

473.62

0.1

473.65

0.8

473.66

0.8

473.67



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

**Steel tube sign post**

hot-dip galvanized, with plastic cap and ground anchor

Wall thickness 2 mm

Length	Ø 60 mm		Ø 76 mm	
	Approx.kg	Part-No.	Approx.kg	Part-No.
2500 mm	6.5	463.25	9.0	473.25
3000 mm	7.8	463.30	10.5	473.30
3500 mm	9.0	463.35	12.0	473.35
4000 mm	10.4	463.40	14.0	473.40
4500 mm	11.5	463.45	15.8	473.45

Plastic cover

464.05

474.05



464.50

Tube clips

for tubular post, hot-dip galvanized



464.07

Hole pitch	Unit	Approx.kg pc.	Part-No.	Approx.kg pc.	Part-No.
70 mm	50	0.30	464.07	0.50	474.07
350 mm	25	0.40	464.35	0.60	474.35
500 mm	25	0.50	464.50	0.70	474.50
700 mm	25	0.55	464.70	0.75	474.70
900 mm	25	0.60	464.90	0.80	474.90

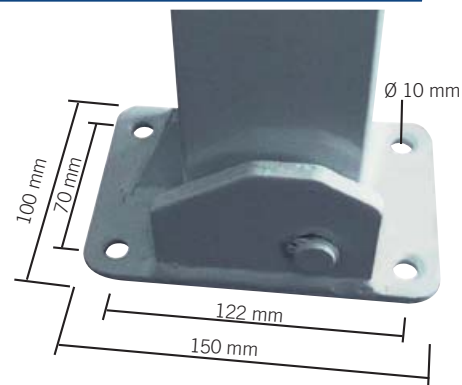
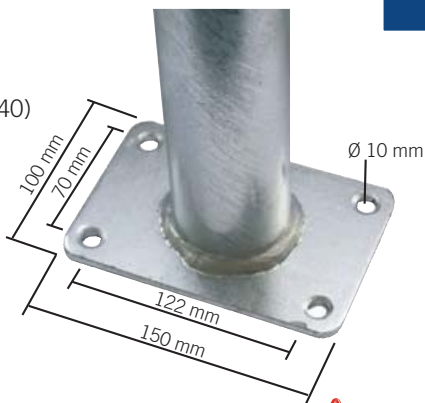


Larger quantities on request.

Set of mounting bolts type 1

4 bolts 8 x 80 mm, galvanized (bit T 40)
with plastic plugs Ø 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

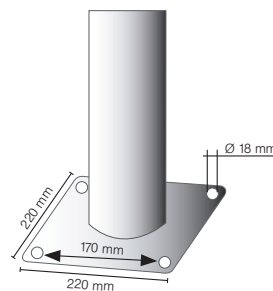
bit T 40, length 26 mm

Part-No.
470.75

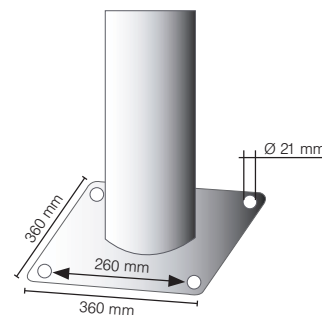
Set of mounting bolts type 2

4 bolts, fixing anchor M16 x 150 mm, galvanized

Part-No.
470.72

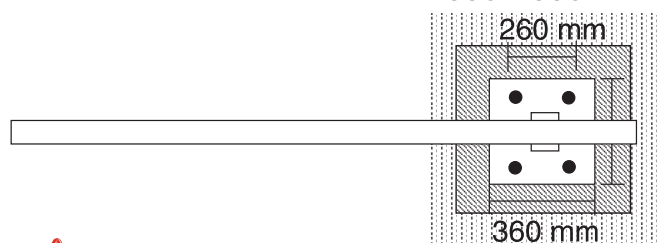


Foundation: 400 x 400 mm



Foundation: 550 x 550 mm

**Foundation
550 x 550 mm**



For bollards and barriers with main support.

Set of mounting bolts type 3

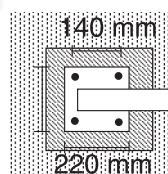
8 bolts, fixing anchor M16 x 150 mm, galvanized

Part-No.
470.73

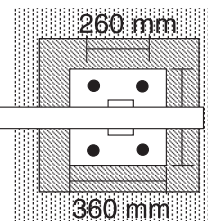


Foundation size depends on ground characteristics

**Foundation
400 x 400 mm**



**Foundation
550 x 550 mm**



For barriers with main- and supporting post.



Passage and car-park barriers, above ground 900 mm

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Passage and car-park barriers

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



471ZB



470.10

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

14.5

471F

Hot-dip galvanized and white coated with
red reflecting stripes

14.5

471FB

Removable, with Euro profile cylinder lock

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

Hot-dip galvanized, with red reflecting stripes

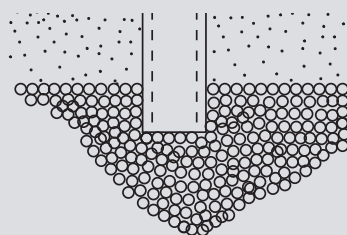
14.5

471Z

Hot-dip galvanized and white coated with
red reflecting stripes

14.5

471ZB



Assembly instructions

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

Separate ground socket

for casting in concrete

3.0

470.10



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

Passage and car-park barriers

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



471UZ

Foldable, with triangular locking mechanism
acc. 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

Approx.kg 11.5

Part-No. 471FU

Hot-dip galvanized and white coated with
red reflecting stripes

Approx.kg 11.5

Part-No. 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

Approx.kg 11.5

Part-No. 471UZ

Hot-dip galvanized and white coated with
red reflecting stripes

Approx.kg 11.5

Part-No. 471UZB

Ground socket

for casting in concrete

Approx.kg 2.5

Part-No. 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 barriers, above ground 500 mm

Barrier posts

Stainless steel

Barrier elements

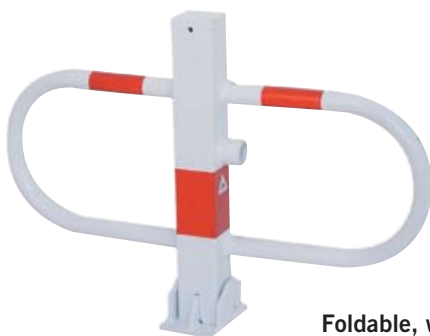
Barrier gates

Outdoor equipment

Work site protection

Car-park barrier

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



4709FUB

Foldable, with triangular locking mechanism

acc. 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



4709UZH

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

4709UZH



470.60

Ground socket

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

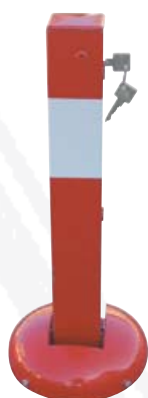
2.5

470.60



Flexible!

Crash-proof!



40215UZH

Crash-proof barrier post

Flexible to impact and thrust
Square tube 70 x 70 mm
Above ground 500 mm
Pass-over height approx. 95 mm

Foldable, with Euro profile cylinder lock

three keys, self-engaging lock

To be fixed by plugs

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

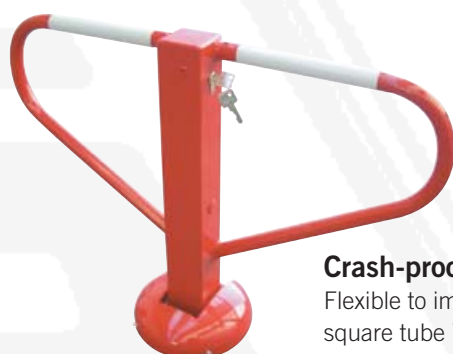
Hot-dip galvanized and red coated with white
reflecting stripes

Approx.kg

Part-No.

9.0

40215UZH



40220UZH

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

Foldable, with Euro profile cylinder lock

three keys, self-engaging lock

To be fixed by plugs

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

Hot-dip galvanized and red coated with white
reflecting stripes

11.0

40220UZH



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



Car-park barriers, above ground 500 mm

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Car-park barrier, foldable

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



Round cylinder



Foldable, with round cylinder
three keys, self-engaging lock

40770

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



40771B

For casting in concrete

with welded ground anchor
approx. 300 mm underfloor

Hot-dip galvanized with red reflecting stripes

9.5

40771

Hot-dip galvanized and white coated with
red reflecting stripes

9.5

40771B

Car-park barrier, foldable

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



8 mm triangular lock



Foldable, with 8 mm triangular lock
white 8 mm triangular wrench

To be fixed by plugs

with base plate 100 x 150 mm

40772B

Hot-dip galvanized with red reflecting stripes

approx.kg 9.0

Part-No. 40772

Hot-dip galvanized and red coated with white reflecting stripes

9.0

40772B



40773B

For casting in concrete

with welded ground anchor
approx. 300 mm underfloor

Hot-dip galvanized with red reflecting stripes

9.5

40773

Hot-dip galvanized and red coated with white reflecting stripes

9.5

40773B



4039

Handy triangular wrench 8 mm

for barrier post, car-park barriers, galvanized

4039



Car-park barrier, foldable

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



40660

Foldable, with Euro profile cylinder lock

three keys, self-engaging lock

Hot-dip galvanized with red reflecting stripes
including fastening material

Approx.kg

Part-No.

9.0

40660



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

**Car park barrier**

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



472V

Foldable, with padlock
three keys

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

Approx.kg Part-No.

5.5 472V



472Z

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

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

5.5 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

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

5.5 472ZP



Holding device for parking signage

Holding device for parking signage 2 support posts

steel tube 40 x 40 x 2.0 mm,
galvanized, with screwed parking
signage (inclusive)
height above ground 350 mm
total width approx. 520 mm



For casting in concrete
Total height 500 mm

Approx.kg **Part-No.**

2.5 4045

To be fixed by plugs
Total height 350 mm

2.5 4045P

Round hoops for parking sign

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



For casting in concrete

Approx.kg **Part-No.**

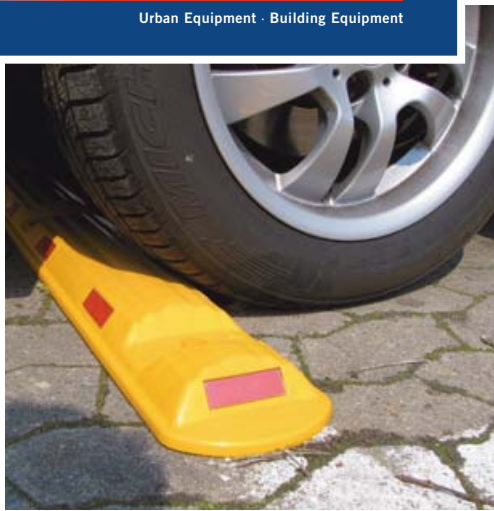
8.0 449.66SE

To be fixed by plugs

8.0 449.66PSE

**Park and guide barrier
made of recycled
material**

with reflectors 1170 mm x 150
mm x 50 mm
with 3 bolts and plugs



	Approx.kg	Part-No.
White	2.3	412202SW
Yellow	2.3	412202SO

Drive-in rod

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

Hot-dip galvanized

3.5 4043

4043



Drive-in rod

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

Hot-dip galvanized

4.0 4044

4044



Recycling-material post

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



Recycling-material post square post 140 x 140 mm

Total length 1400 mm



	Approx.kg	Part-No.
Bollards without milled groove and reflectors Color black	17.0	4014140
Bollards with 2 milled grooves 15 mm wide and 2 reflecting bands, red on top, white at bottom	17.0	4014141

Recycling-material post hemispherical head Ø 150 mm

(hollow section)

Total length 1500 mm



	Approx.kg	Part-No.
Bollard without milled grooves and reflecting bands Color brown	14.0	4014150
Bollards with 2 milled grooves 15 mm wide and 2 reflecting bands, red on top, white at bottom	14.0	4014151
Bollard with white reflective strips (sunk) 2x round, opposite 1x rectangular	14.0	4014152





Work site protection

Outdoor equipment

Barrier gates

Barrier elements

Stainless steel

Barrier posts



Ornamental bollards - overview types of head

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Ø 60 mm
Series 465
Page 186



Ø 60 mm
Series 466
Page 186



Ø 76 mm
Series 475
Page 188



Ø 82 mm
Series 484
Page 192



Ø 82 mm
Series 485
Page 193



Ø 89 mm
Series 488
Page 194

Ø 76 mm
Series 474
Page 188

Ø 76 mm
Series 478
Page 189

Ø 102 mm
Series 492
Page 195



Ø 60 mm
Series 468
Page 187



Ø 60 mm / Ø 82 mm
Series 464 / 482
Pages 187 / 192



Ø 82 mm
Series 480
Page 191



Ø 82 mm
Series 481
Page 191



Ø 76 mm
Series 477
Page 190



Ø 76 mm
Series 4074
Page 190

Ø 89 mm
Series 487
Page 194

Ø 150 mm / Ø 193 mm
Series 40155 / 40195
Page 198

Ø 102 mm
Series 496
Page 195

Ø 89 mm
Series 4084
Page 194

Ø 102 mm
Series 494
Page 195

Ø 100 mm
Series 40101
Page 199

Ø 120 mm
Series 40120 / 40121
Page 199



Ø 60 / 110 mm
Series 490
Page 201



Ø 72 / 160 mm
Series 495
Pages 200 / 201



Ø 76 / 100 mm
Series 479
Page 189



Ø 76 / 102 mm
Series 40102
Page 196



Ø 96 / 168 mm
Series 40168
Page 196



Ø 108 mm
Series 497
Page 197



Ø 140 mm
Series 40140
Page 197



70 x 70 mm
Series 473
Page 204



70 x 70 mm
Series 4073
Page 202

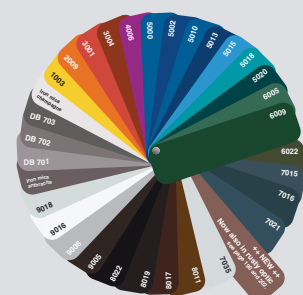


70 x 70 mm
Series 40731
Page 202



70 x 70 mm
Series 4071
Page 203

100 x 100 mm
Series 4075
Page 203



Color finishes of our barrier products

Other RAL colors and special paint finished on request; see page 123

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Ornamental bollard of steel tube Ø 60 mm

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Ornamental bollard

of steel tube Ø 60 mm

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

Color:

Series 465B: RAL 7016

Series 466B: RAL 7016

Approx.kg Part-No.

Part-No.

Stationary, for casting in concrete

with ground anchor, total length approx. 1400 mm

5.5

465B

466B

Stationary, to be fixed by plugs

with base plate 100 x 150 mm

5.5

465PB

466PB

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

7.5

465FB

466FB

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

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

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



Ornamental bollard of steel tube Ø 60 mm

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

Color:

Series 464B: DB703

Series 468B: RAL 7016

Stationary, for casting in concrete

with ground anchor, total length approx. 1400 mm

Approx.kg

Part-No.

Part-No.

5.5

464B

468B

Stationary, to be fixed by plugs

with base plate 100 x 150 mm

5.5

464PB

468PB

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

7.5

464FB

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

464FUB

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

464FUHB

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

464ZB

Foldable, with Euro profile cylinder lock

three keys, self-engaging lock,
to be fixed by plugs, with base plate

7.0

464UZH

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

464UZH



Other color finishes, see
page 123.



Ornamental bollard of steel tube Ø 76 mm



Ornamental bollard

of steel tube Ø 76 mm

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

Color:

Series 474: RAL 7016

Series 475: RAL 7016

Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

Approx.kg

Part-No.

Part-No.

7.5

474B

475B

Stationary, to be fixed by plugs

with base plate 100 x 150 mm

6.0

474PB

475PB

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

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

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

10.5

474FUHB

475FUHB

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

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

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

474UZH

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

Color:

Series 478: RAL 7016

Series 479: RAL 7016

**Stationary, for casting in concrete**

with ground anchor, total length approx. 1300 mm

Approx.kg

Part-No.

Part-No.

7.5

478B

479B

Stationary, to be fixed by plugs

with base plate 100 x 150 mm

6.0

478PB

479PB

Removable, with triangular locking mechanismacc. 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 mechanismacc. 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 mechanismacc. 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



Other color finishes, see
page 123. Also available
with eyelets. Expand part-
no. with +1 or +2 see page
164.



Ornamental bollard of steel tube Ø 76 mm

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

New: rusty optic!

Color:

Series 477: RAL 7016

Series 4074: DB703

Approx.kg Part-No.

Part-No.

Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm 7.5 477B

4074B

Stationary, to be fixed by plugs

with base plate 100 x 150 mm 6.0 477PB

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 477FB

4074FB

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 477FUB

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 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 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 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 477UZHB

**Ornamental bollard****of steel tube Ø 82 mm**approx. 800 mm above ground,
hot-dip galvanized and coated

Color:

Series 480: RAL 7016

Series 481: RAL 7016

**Stationary, for casting in concrete**

with ground anchor, total length approx. 1300 mm

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 mechanismacc. 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 lockthree 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

*Other color finishes, see
page 123.**Also available with eyelets
Part-No. expand with +1
respectively +2**Accessories ground rosette
see page 164.*



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: RAL 9005 matt
(jet black)

Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

Stationary, to be fixed by plugs

with base plate 100 x 150 mm

Removable, 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

Foldable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock,

to be fixed by plugs,

with base plate 100 x 150 mm

Foldable, with triangular locking mechanism

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

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

Foldable, with Euro profile cylinder lock

three keys, self-engaging lock,

to be fixed by plugs,

with base plate 100 x 150 mm

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

Approx.kg Part-No.

10.0 482B

7.5 482PB

13.5 482FB

10.5 482FUB

13.0 482FUHB

13.5 482ZB

10.5 482UZB

13.0 482UZHB

Part-No.

484B

484PB

484FB

484FUB

484FUHB

484ZB

484UZB

484UZHB

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

Color:

Series 485: RAL 9005 matt
(jet black)

Series 40180: DB703

Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

Stationary, to be fixed by plugs

with base plate 100 x 150 mm

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

Foldable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock,

for casting in concrete,with hot-dip galvanized ground part-no. 470.60,
approx. 400 mm below ground**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**Foldable, with Euro profile cylinder lock**

three keys, self-engaging lock,

to be fixed by plugs,

with base plate 100 x 150 mm

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

Approx.kg Part-No.

10.0 485B

7.5 485PB

13.5 485FB

10.5 485FUB

13.0 485FUHB

13.5 485ZB

10.5 485UZB

13.0 485UZHB

Part-No.

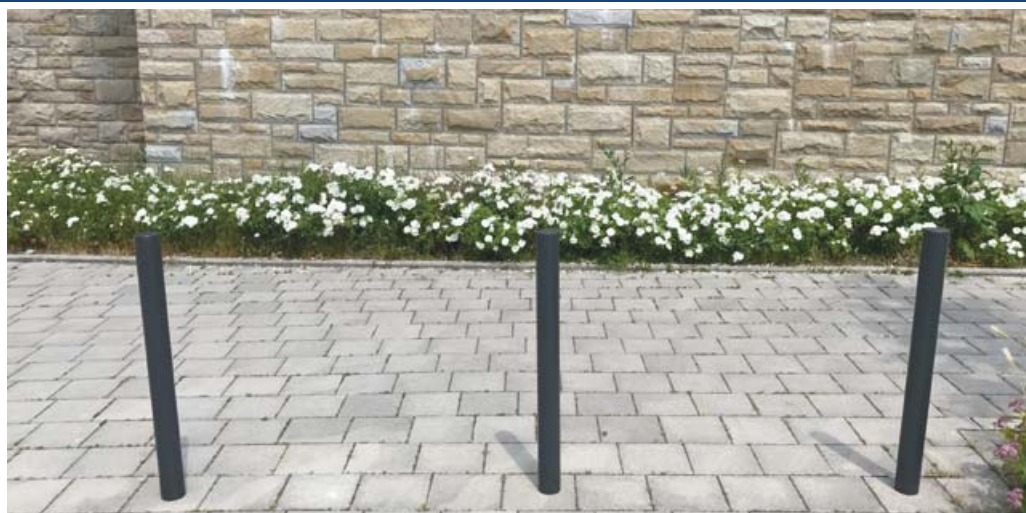
40180B

40180PB

40180FB

40180ZB

*Other color finishes, see
page 123.**Also available with eyelets
Part-No. expand With +1
respectify +2**Accessories ground rosette
see page 164.*

**Ornamental bollard****of steel tube Ø 89 mm**

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



487B



488B



4084B

With hemisphere head

Color: RAL 7016

Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

Approx.kg

8.0

Part-No.

487B

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

With globe head

Color: RAL 7016

Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

8.0

488B

Removable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock,

with hot-dip galvanized ground socket part-no. 470.10

13.5

488FB

With flat head

Color: DB 703

Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

8.0

4084B

Removable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock,

with hot-dip galvanized ground socket part-no. 470.10

13.5

4084FB

Ornamental bollard**of steel tube Ø 102 mm**

approx. 950 mm above ground,

hot-dip galvanized and coated



494B

With hemispherical head

Color: RAL 7016

Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

Approx.kg**Part-No.**

9.0

494B

Removable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock,

with hot-dip galvanized ground socket part-no. 470.10

15.0

494FB



492B

With globe head

Color: RAL 7016

Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

9.0

492B

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



496B

With hemispherical head

Color: RAL 7016

Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

9.0

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

496FB



Ornamental bollard of steel tube

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



40102B



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

	Approx.kg	Part-No.
Stationary, for casting in concrete with ground anchor, total length approx. 1200 mm	8.0	40102B
Stationary, to be fixed by plugs with base plate Ø 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 Ø168 / 96 mm
with ornamental cap, approx.
750 mm above ground,
hot-dip galvanized and
RAL 8019



	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

Steel tube Ø 108 mm,
with ornamental rings hot-dip galvanized
and coated (RAL 7016)



497B



	Height above ground 750 mm Total length approx. 1100 mm		Height above ground 950 mm Total length approx. 1300 mm	
	Approx.kg	Part-No.	Approx.kg	Part-No.
Stationary, for casting in concrete with ground anchor	10.0	4971B	11.0	497B
Stationary, to be fixed by plugs with base plate Ø 180 mm	9.0	4971PB	10.0	497PB
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	4971FB	17.0	497FB

Ornamental bollard of steel tube

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



40140B/2

	Approx.kg	Part-No.
Stationary, for casting in concrete with ground anchor Total length: 1400 mm	12.0	40140B/2
Removable, with triangular locking mechanism acc. with DIN 3223, self-engaging lock, with hot-dip galvanized ground socket	20.0	40140FB/2



**Ornamental bollard of steel tube
Ø 152 mm** with aluminium head and
decorative ring, approx. 950 mm above
ground, hot-dip galvanized and coated DB703



40155B



Stationary, for casting in concrete
with ground anchor

Approx.kg

15.0

Part-No.

40155B

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

20.0

40155FB

Ornamental bollard of steel tube Ø 193 mm
with aluminium head and decorative ring, approx. 950 mm
above ground, hot-dip galvanized and coated DB703



40195B

Stationary, for casting in concrete
with ground anchor

25

40195B

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

30

40195FB

Bollard of thick-walled aluminium Ø 100 mm

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



40101B

Stationary, for casting in concrete
with ground anchor

Approx.kg

7.0

Part-No.

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

**Bollard of thick-walled aluminium Ø 120 mm**

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



40121FB

Height above ground 750 mm Height above ground 900 mm
Total length approx. 1050 mm Total length approx. 1200 mm

Stationary, for casting in concrete
with ground anchor

7.0 40120B

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

10.0 40120FB

13.0 40121FB



Other color finishes, see page 123.



Aluminium ornamental bollard

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



Example of use as chain post



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

460 mm



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

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

Ornamental protective railing

Assembled from prefabricated parts
on site. The hinge joints make these
railings very flexible to set up. The
hinge joints can be set up vertically or
horizontally up to 90°.
Powder-coated in common RAL colors,
see page color finishes.



495.11B



495.12B

Aluminium ornamental bollard

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

End post for top bar	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
-----	---------

Joint element

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

0.5	495.24B
-----	---------



495.24B



Ornamental bollard of square steel tube 70 x 70 mm

with flat bar steel top, approx. 950 mm above ground, hot-dip galvanized and DB703 coated



	Approx.kg	Part-No.
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

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



New: rusty optic!

Stationary, for casting in concrete with ground anchor, total length approx. 1300 mm	9.0	40731B
Stationary, to be fixed by plugs with base plate 100 x 150 mm	7.5	40731PB
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	40731FB

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

**Stationary, for casting in concrete**

with ground anchor, total length approx. 1300 mm

Approx.kg

Part-No.

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 100 x 100 mm

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

**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



Ornamental bollard 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

Stationary, for casting in concrete

with ground anchor, total length approx. 1400 mm

Approx.kg

9.0

Part-No.

473B

Stationary, to be fixed by plugs

with base plate 100 x 150 mm

7.5

473PB

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

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

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 123. Bollards also available with chain eyelets; see page 164.



2. Stainless steel



- | | |
|-----------------------------------|-----------|
| 2.1 Stainless steel barrier posts | 206 - 209 |
| 2.2 Stainless steel bollards | 210 - 211 |
| 2.3 Stainless steel hoops | 212 - 214 |

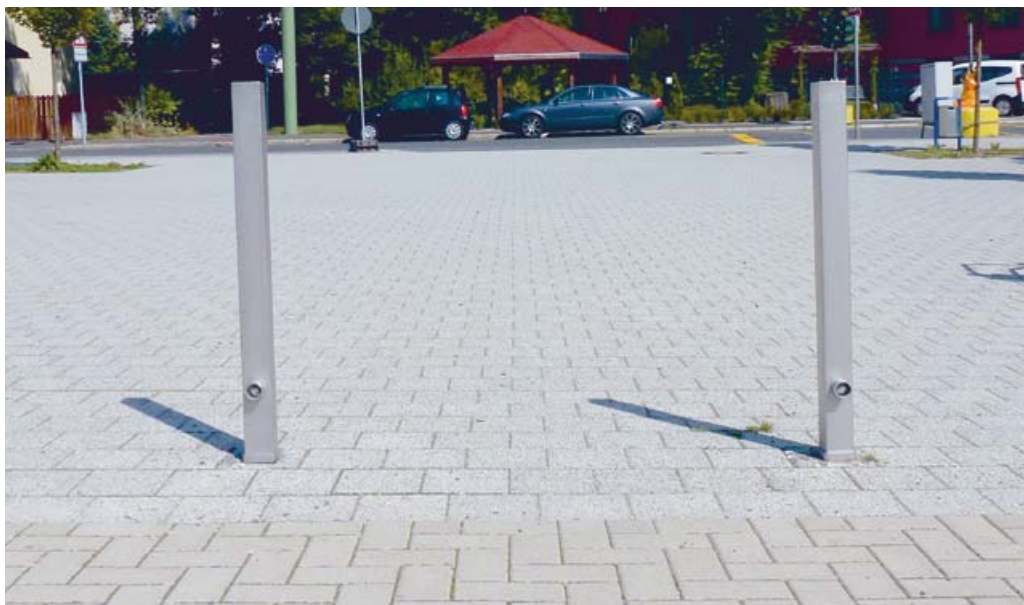




Barrier post of stainless steel

Stainless steel post 70 x 70 mm

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



4070FU

	Approx.kg	Part-No.
Stationary, for casting in concrete total length: 1200 mm	6.0	4070
Stationary, to be fixed by plugs with base plate	6.0	4070P
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
Removable, with Euro profile cylinder lock three keys, self-engaging lock, with hot-dip galvanized ground socket	12.0	4070Z
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

**Stainless steel post
Ø 60 mm**

grinded, above ground
approx. 900 mm, convex head



	Approx.kg	Part-No.
Stationary, for casting in concrete total length: 1200 mm	3.5	4062
Stationary, to be fixed by plugs with base plate Ø 120 x 5 mm	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	7.0	4062F
Removable, with Euro profile cylinder lock three keys, self-engaging lock, with hot-dip galvanized ground socket	7.0	4062Z

Accessories

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

Extra charge per eyelet

Barrier chain of stainless steel Ø 5 mm

Connecting links

Chain bolting mechanism

430.55

430.56

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 post



Stainless steel post Ø 76 mm

grinded, convex head
above ground approx. 900 mm



4072



4272

	Approx.kg	Without decorative ring Part-No.	With decorative ring Part-No.
Stationary, for casting in concrete Total length: 1200 mm	5.0	4072	4272
Stationary, to be fixed by plugs with base plate Ø 150 x 5 mm	5.5	4072P	4272P
Removable, with triangular locking mechanism acc. with DIN 3223, self-engaging lock, with hot-dip galvanized ground socket approx. 400 mm below ground	10.0	4072F	4272F
Removable, with Euro profile cylinder lock three keys, self-engaging lock, with hot-dip galvanized ground socket	10.0	4072Z	4272Z
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	6.0	4072FU	4272FU
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	8.5	4072FUH	4272FUH
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	4072UZ	4272UZ
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	9.0	4072UZH	4272UZH

**Stainless steel post**

grinded, convex head
above ground approx. 900 mm



4089



40103P

Stationary, for casting in concrete

Total length: 1200 mm

Stationary, to be fixed by plugs

with base plate Ø 150 x 6 mm

Removable, with triangular locking mechanism

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

Removable, with Euro profile cylinder lock

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

Ø 89 mm
Approx.kg Part-No.

5.5 4089

5.5 4089P

11.0 4089F

11.0 4089Z

Ø 102 mm
Approx.kg Part-No.

6.0 40103

6.0 40103P

12.0 40103F

12.0 40103Z



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



Stainless steel post

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



Stainless steel post Ø 154 mm

grinded, with flat head,
stationary



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



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

Total length in mm	Approx. 900	Approx. 1200	Approx. 600	Approx. 900
Approx.kg	8.50	11.00	9.00	11.50
Part-No.	40154	40155	40154P	40155P

Removable

self-engaging lock,
with hot-dip galvanized ground socket part-no. 470.10
above ground approx. 900 mm

Removable, with triangular locking mechanism
acc. with DIN 3223

Approx.kg	14.0
Part-No.	40154F

Removable, with Euro profile cylinder lock
three keys

Approx.kg	14.0
Part-No.	40154Z

*Timeless and massive
stainless steel post*



Stainless steel post Ø 204 mm

grinded, with flat head,
stationary



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

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

Total length in mm	Approx. 900	Approx. 1200	Approx. 600	Approx. 900
Approx.kg	10.00	12.00	11.00	13.0
Part-No.	40204	40205	40204P	40205P

Removable

self-engaging lock,
with hot-dip galvanized ground socket part-no. 470.10
above ground approx. 900 mm

Removable, with triangular locking mechanism
acc. with DIN 3223

Approx.kg	15.5
Part-No.	40204F

Removable, with Euro profile cylinder lock
three keys

Approx.kg	15.5
Part-No.	40204Z



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



Stainless steel hoop Ø 48 mm

Barrier posts

Stainless steel

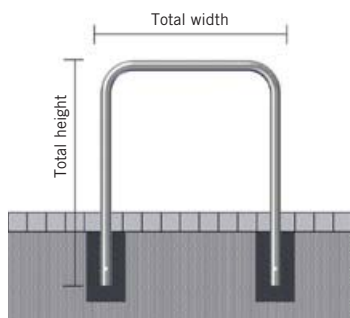
Barrier elementse

Barrier gates

Outdoor equipment

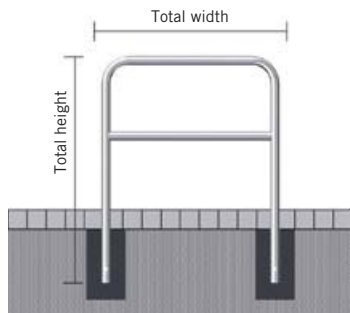
Work site protection

Stainless steel hoop Ø 48 mm grinded surface



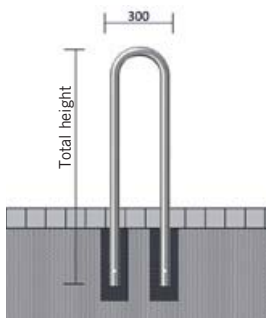
Without cross bar, for casting in concrete

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



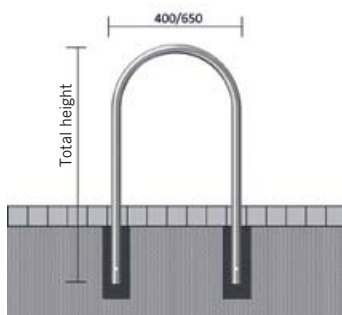
With cross bar, for casting in concrete

Total width	Total height	Approx.kg	Part-No.
800 mm	1200 mm	9.5	449.21
1000 mm	1200 mm	11.0	449.22
1200 mm	1200 mm	12.0	449.23



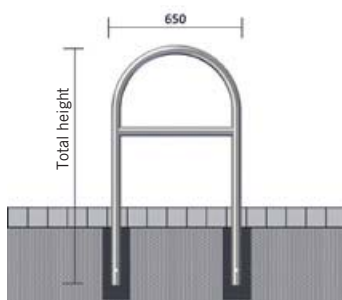
Universal hoop, for casting in concrete

Total width	Total height	Approx.kg	Part-No.
300 mm	1200 mm	5.5	449.30



Round hoop, for casting in concrete

Total width	Total height	Approx.kg	Part-No.
460 mm	1200 mm	6.0	449.46
650 mm	1200 mm	7.0	449.65

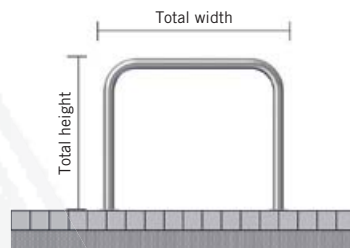


Round hoop with cross bar, for casting in concrete

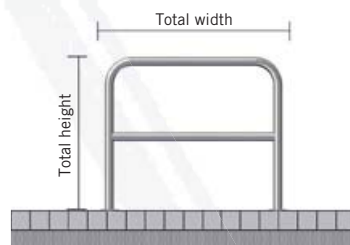
Total width	Total height	Approx.kg	Part-No.
650 mm	1200 mm	8.0	449.66

**Stainless steel hoop
Ø 48 mm**

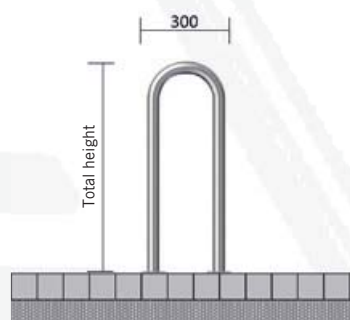
grinded surface,
for plugging down, with base plate Ø 120 x 5 mm

**Without cross bar, for plugging down**

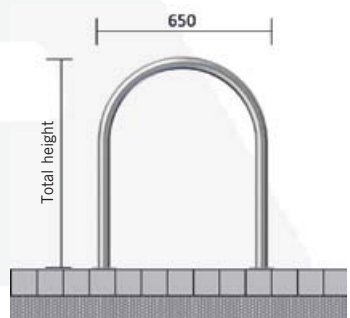
Total width	Total height	Approx.kg	Part-No.
800 mm	800 mm	8.5	449.09P
1000 mm	800 mm	9.0	449.12P
1200 mm	800 mm	9.5	449.13P

**With cross bar, for plugging down**

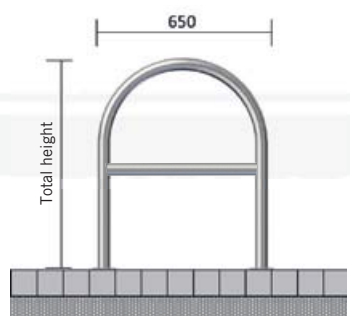
Total width	Total height	Approx.kg	Part-No.
800 mm	800 mm	9.5	449.21P
1000 mm	800 mm	11.0	449.22P
1200 mm	800 mm	12.0	449.23P

**Universal hoop, for plugging down**

Total width	Total height	Approx.kg	Part-No.
300 mm	800 mm	5.5	449.30P

**Round hoop, for plugging down**

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

**Round hoop with cross bar, for plugging down**

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



Prices for larger quantities on request. Stainless steel hoops are manufactured to order. Orders cannot be cancelled, hoops cannot be returned.



Stainless steel hoop Ø 48 mm



Stainless steel bicycle lean-on hoop Ø 48 mm

very attractive and functional design
Ground surface

Total width approx. 1400 mm
Height above ground approx. 850 mm

For casting in concrete

Approx.kg Part-No.

9.0 449.50

For plugging down

with base plate Ø 120 mm
Pitch circle Ø 115 mm,
3 holes Ø 14 mm

9.0 449.50P

Stainless steel bicycle lean-on hoop Ø 48 mm

miter-welded, for casting in concrete
Ground surface



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

3. Barrier elements



Schaka

Urban Equipment · Building Equipment



3.1 Tubular hoops	216 - 223
3.2 Access barriers	224 - 227
3.3 Height restriction barriers	228 - 231
3.4 Protective railing	232 - 237
3.5 City fence	238 - 240



Barrier posts

Stainless steel

Barrier elementse

Barrier gates

Outdoor equipment

Work site protection

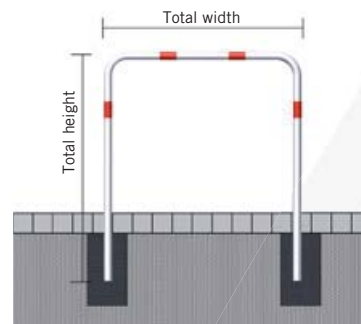
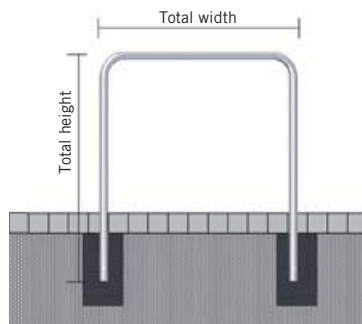


Hoops of steel tube Ø 48 mm

- Tubular hoop serves as bicycle stand
- Stable
- Offers support on both sides
- Optimum theft protection
- Powder-coated in common colors



Steel tube Ø 48 x 2.5 mm



Without cross bar, for casting in concrete

Total width	Total height	Approx.kg
1000 mm	1000 mm	7.5
1500 mm	1000 mm	8.5
2000 mm	1000 mm	10.0
700 mm	1200 mm	7.5
1000 mm	1200 mm	8.5
1200 mm	1200 mm	9.0
500 mm	1400 mm	8.0
1000 mm	1400 mm	9.5
1500 mm	1400 mm	11.0
2000 mm	1400 mm	12.0
2500 mm	1400 mm	13.5

Hot-dip galvanized

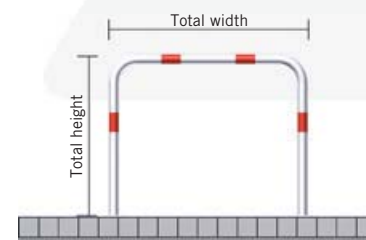
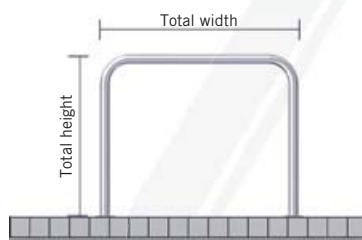
Part-No.

448.06
448.07
448.08
448.11
448.12
448.13
448.09
448.10
448.15
448.20
448.25

Galvanized and white coated with red reflecting stripes

Part-No.

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



Without cross bar, for plugging down

1000 mm	1000 mm	8.5
1500 mm	1000 mm	9.5
2000 mm	1000 mm	10.5

448.52
448.53
448.54

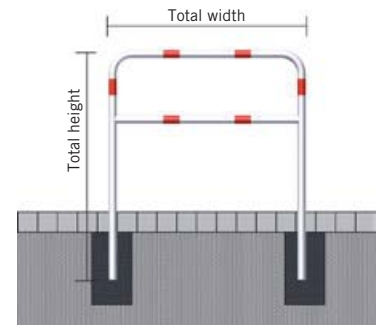
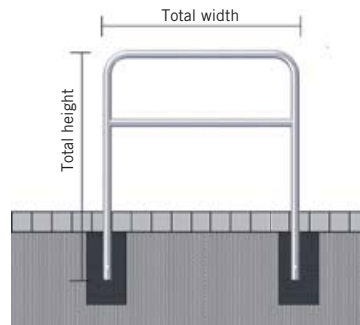
448.52B
448.53B
448.54B



For other colors, see page 123. Other dimensions and large quantities available on request.
Powder-coats are made to order. Orders cannot be cancelled or shipments returned.



Steel tube Ø 48 x 2.5 mm



With cross bar, for casting in concrete

Total width	Total height	Approx.kg
700 mm	1200 mm	9.0
1000 mm	1200 mm	11.0
1200 mm	1200 mm	12.0
500 mm	1400 mm	9.5
1000 mm	1400 mm	12.0
1500 mm	1400 mm	15.0
2000 mm	1400 mm	17.0
2500 mm	1400 mm	20.0

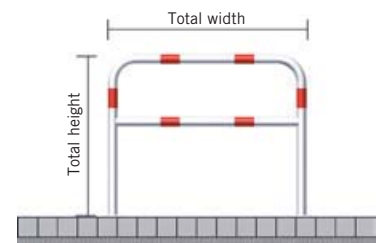
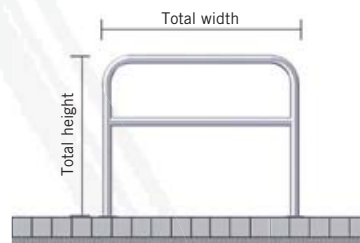
Hot-dip galvanized

Part-No.

448.21
448.22
448.23

Galvanized and white coated with
red reflecting stripes
Part-No.

448.21B
448.22B
448.23B



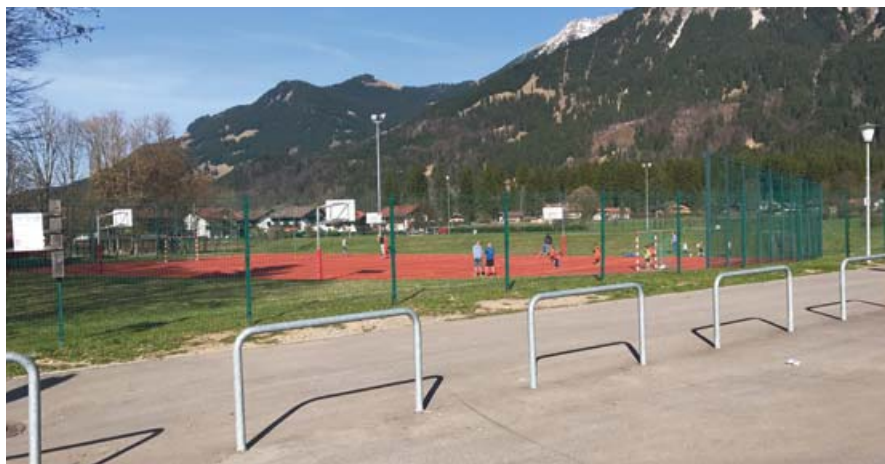
With cross bar, for plugging down

1000 mm	1000 mm	11.0	448.62
1500 mm	1000 mm	13.0	448.63
2000 mm	1000 mm	15.5	448.64

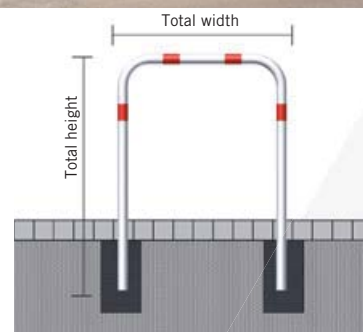
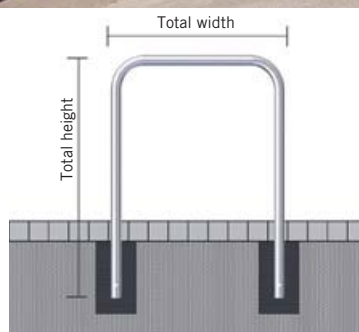
448.62B
448.63B
448.64B



Hoops of steel tube Ø 60 mm



Steel tube Ø 60 x 2.5 mm



Without cross bar, for casting in concrete

Total width	Total height	Approx.kg
1000 mm	1000 mm	9.5
1500 mm	1000 mm	11.5
2000 mm	1000 mm	13.0
700 mm	1200 mm	8.5
1000 mm	1200 mm	11.0
1200 mm	1200 mm	11.5
500 mm	1400 mm	10.0
1000 mm	1400 mm	12.5
1500 mm	1400 mm	14.0
2000 mm	1400 mm	16.0
2500 mm	1400 mm	17.5

Hot-dip galvanized

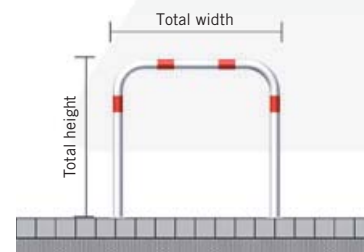
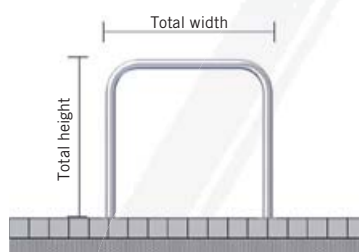
Part-No.

465.06
465.07
465.08
465.11
465.12
465.13
465.09
465.10
465.15
465.20
465.25

Galvanized and white coated with red reflecting stripes

Part-No.

465.06B
465.07B
465.08B
465.11B
465.12B
465.13B
465.09B
465.10B
465.15B
465.20B
465.25B



Without cross bar, for plugging down

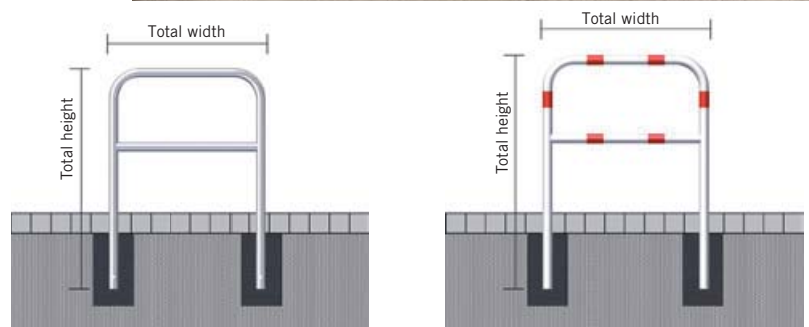
1000 mm	1000 mm	10.0
1500 mm	1000 mm	11.5
2000 mm	1000 mm	13.0

465.52
465.53
465.54

465.52B
465.53B
465.54B



Steel tube Ø 60 x 2.5 mm



With cross bar, for casting in concrete

Total width	Total height	Approx.kg
700 mm	1200 mm	10.0
1000 mm	1200 mm	11.5
1200 mm	1200 mm	13.0
500 mm	1400 mm	10.0
1000 mm	1400 mm	13.0
1500 mm	1400 mm	16.5
2000 mm	1400 mm	20.0
2500 mm	1400 mm	23.5

Hot-dip galvanized

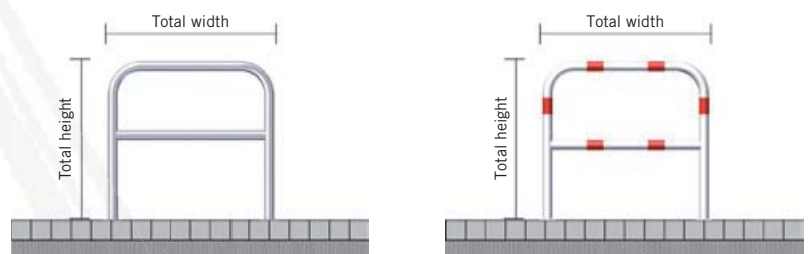
Part-No.

465.21
465.22
465.23
465.31
465.32
465.33
465.34
465.35

Galvanized and white coated with red reflecting stripes

Part-No.

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



With cross bar, for plugging down

1000 mm	1000 mm	13.0
1500 mm	1000 mm	16.5
2000 mm	1000 mm	19.0

465.62
465.63
465.64

465.62B
465.63B
465.64B

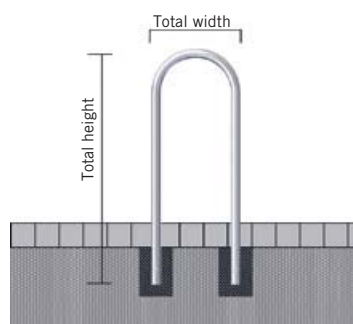


Other dimensions, quantities available on request.

Powder-coats are made to order. Orders cannot be cancelled or deliveries returned



Round hoops of steel tube
Ø 48 X 2.5 mm



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

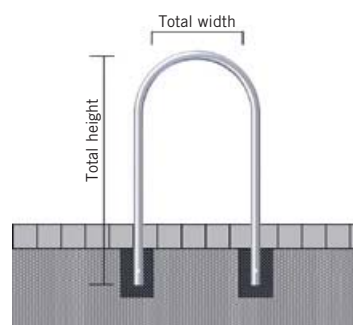
7.0

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

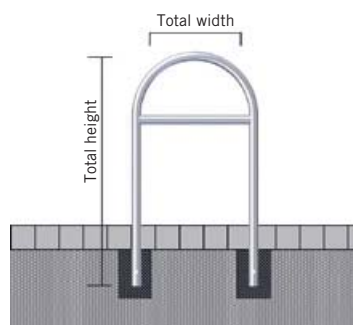
7.0

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

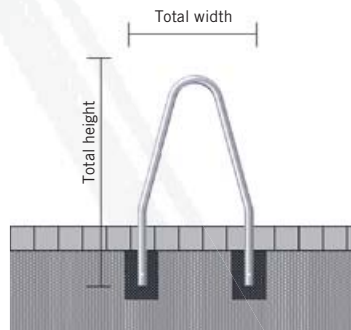
Special designs

Lean-on and blocking car park barriers also available with base plate 100 x 150 mm for plugging down (The total height changes to 900 mm).

For plugging down: Add the letter **P** to the article number.

Tree guard hoops

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.



For casting in concrete

Steel tube Ø 48 x 2.5 mm

Total width: approx. 750 mm

Total height: approx. 1400 mm

Approx.kg Part-No.

Steel tube Ø 60 x 2.5 mm

Total width: approx 800 mm

Total height: approx. 1450 mm

Approx.kg Part-No.

Hot-dip galvanized

8.0

443.00

10.0

463.00

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

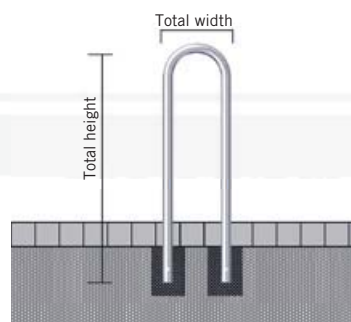
8.0

443.00B

10.0

463.00B

Universal hoop



For casting in concrete

Steel tube Ø 48 mm

Total width: approx. 300 mm

Total height: approx. 1400 mm

Steel tube Ø 60 mm

Total width: approx. 400 mm

Total height: approx. 1400 mm

Hot-dip galvanized

6.0

448.70

8.5

465.70

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

6.0

448.70B

8.5

465.70B



**Anti-nudge hoop for trees and posts**

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

**For casting in concrete**

Total width	Total depth	Height above ground	Approx.kg
600 mm	600 mm	650 mm	22.0
800 mm	800 mm	800 mm	24.0

Hot-dip galvanized**Part-No.**

465.066
465.068

Galvanized and white coated with red reflecting stripes**Part-No.**

465.066B
465.068B

**For plugging down**

Total width	Total depth	Height above ground	Approx.kg
600 mm	600 mm	650 mm	20.5
800 mm	800 mm	800 mm	22.5

Hot-dip galvanized**Part-No.**

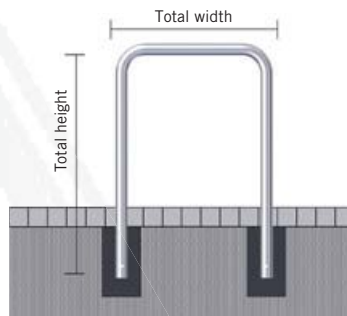
465.066P
465.068P

Galvanized and white coated with red reflecting stripes**Part-No.**

465.066PB
465.068PB

**Guard hoops,**

Steel tube Ø 76 x 2.6 mm

**Without cross bar, for casting in concrete****Hot-dip galvanized****Galvanized and white coated with red reflecting stripes**

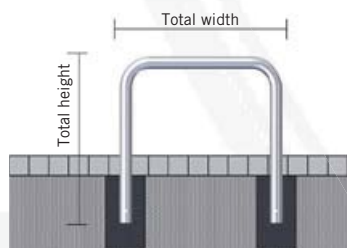
Total width	Total height	Approx.kg	Part-No.
1000 mm	1500 mm	16.5	475.10
1500 mm	1500 mm	19.0	475.15
2000 mm	1500 mm	21.5	475.20
2500 mm	1500 mm	23.5	475.25

Part-No.

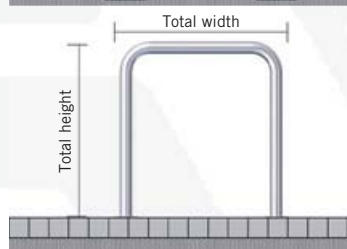
475.10B
475.15B
475.20B
475.25B

Anti-nudge hoop

Round steel tube Ø 76 x 2.6 mm

**For casting in concrete**

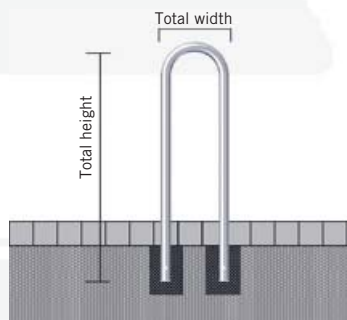
750 mm	1000 mm	8.0	477.05	477.05B
1000 mm	1000 mm	10.0	477.06	477.06B
750 mm	1500 mm	15.0	477.08	477.08B

**For plugging down**

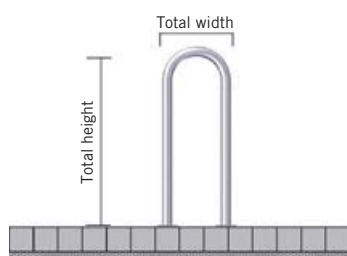
750 mm	650 mm	8.0	477.05P	477.05PB
1000 mm	650 mm	10.0	477.06P	477.06PB
750 mm	1150 mm	15.0	477.08P	477.08PB
1000 mm	1150 mm	16.0	477.09P	477.09PB

Universal hoop

steel tube Ø 76 x 2.6 mm

**For casting in concrete**

400 mm	1000 mm	8.0	477.04	477.04B
400 mm	1500 mm	10.0	477.07	477.07B

**For plugging down**

400 mm	650 mm	8.0	477.04P	477.04PB
400 mm	1150 mm	10.0	477.07P	477.07PB

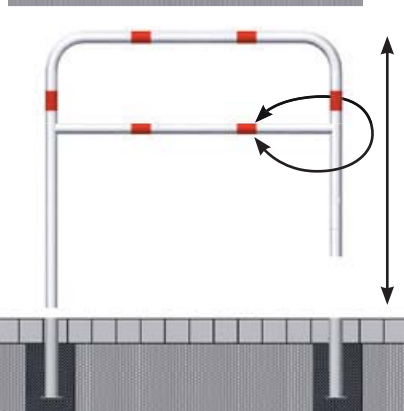
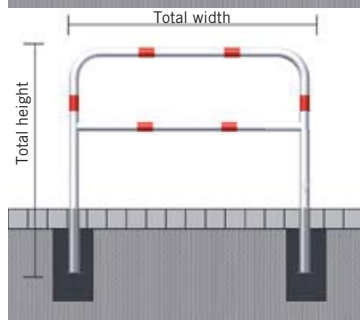
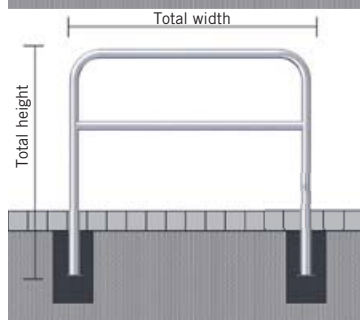
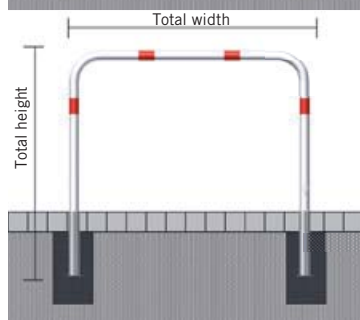
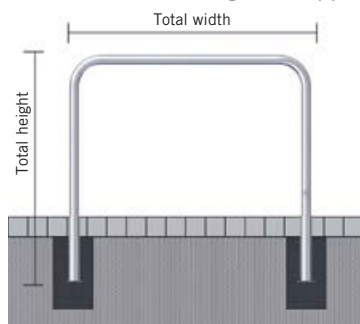


Access barriers

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



Without quarter-bent bar



Total width in mm	1000	1500	2000	2500
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Hot-dip galvanized

Part-No.	465.10F	465.15F	465.20F	465.25F
Approx.kg	16.5	18.5	20.5	22.5

Hot-dip galvanized and white coated with red reflecting stripes

Part-No.	465.10FB	465.15FB	465.20FB	465.25FB
Approx.kg	16.5	18.5	20.5	22.5

With quarter-bent bar

Hot-dip galvanized

Part-No.	465.32F	465.33F	465.34F	465.35F
Approx.kg	20.0	23.5	27.0	30.5

Hot-dip galvanized and white coated with red reflecting stripes

Part-No.	465.32FB	465.33FB	465.34FB	465.35FB
Approx.kg	20.0	23.5	27.0	30.5



Other color finishes, see page 123.

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

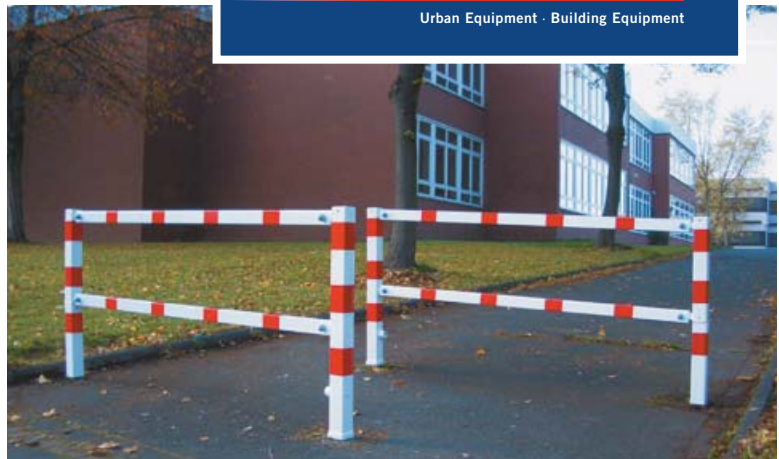
mechanism DIN 3223, square tube 70 x 70 mm,

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



Barrier posts

Stainless steel

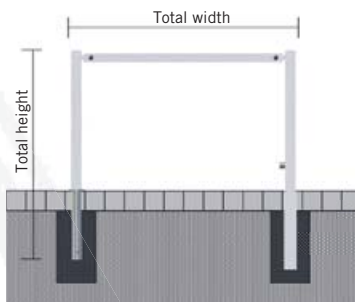
Barrier elements

Barrier gates

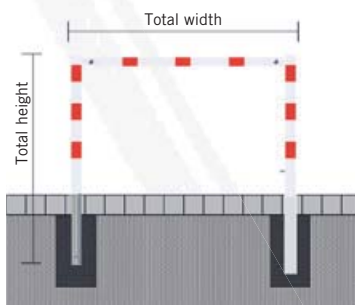
Outdoor equipment

Work site protection

With top bar

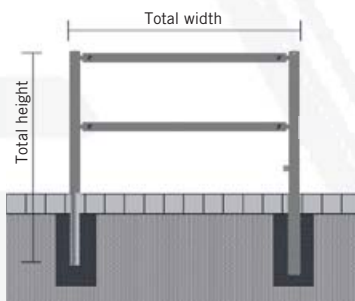


Total width in mm	1500	2000	2500	3000
Hot-dip galvanized				
Part-No.	410.15	410.20	410.25	410.30
Approx.kg	25.5	27.5	29.5	31.5

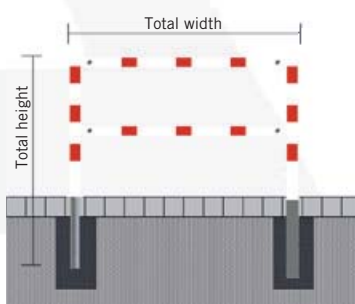


Hot-dip galvanized and white coated with red reflecting stripes				
Part-No.	410.15B	410.20B	410.25B	410.30B
Approx.kg	25.5	27.5	29.5	31.5

With top and quarter-bent bar

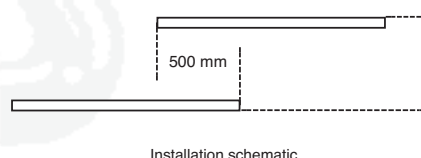
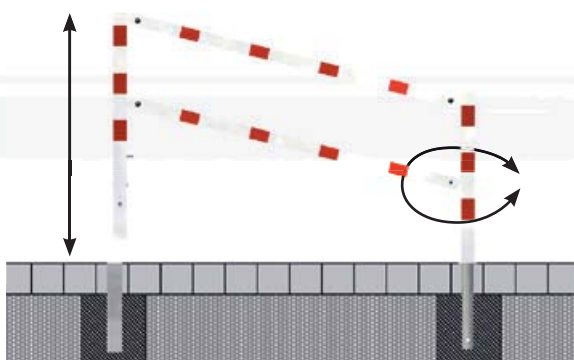


Hot-dip galvanized				
Part-No.	412.15	412.20	412.25	412.30
Approx.kg	30.5	34.5	38.5	42.5



Hot-dip galvanized and white coated with red reflecting stripes				
Part-No.	412.15B	412.20B	412.25B	412.30B
Approx.kg	30.5	34.5	38.5	42.5

Note for your order: additional ground sockets (type 460_10) for settling the barrier ordered directly (extra charge)



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 123.



Stationary access barriers

Stationary access barriers

For bolting on site, including bolts, consists of:

2 stationary posts

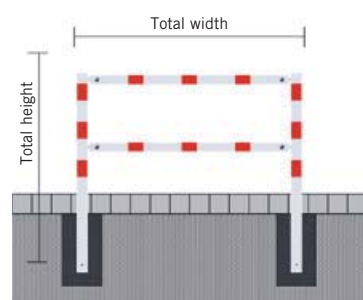
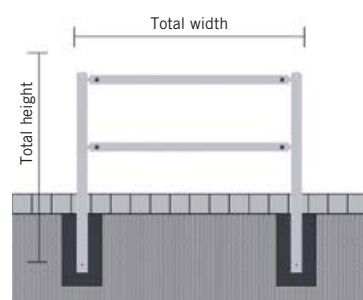
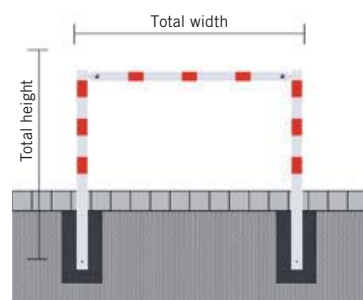
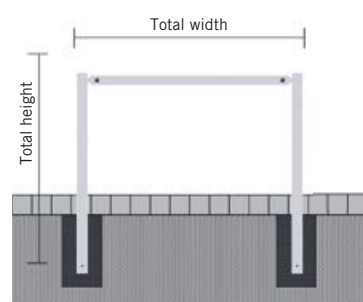
square tube 70 x 70 mm, above ground 900 mm with ground anchor, below ground 400 mm

1 top bar

square tube 60 x 40 mm



With top bar



Total width in mm	1500	2000	2500	3000
Hot-dip galvanized				
Part-No.	414.15	414.20	414.25	414.30
Approx.kg	19.5	21.5	23.5	25.5

Hot-dip galvanized and white coated with red reflecting stripes

Part-No.	414.15B	414.20B	414.25B	414.30B
Approx.kg	19.5	21.5	23.5	25.5

With top and quarter-bent

Hot-dip galvanized

Part-No.	416.15	416.20	416.25	416.30
Approx.kg	25.5	29.0	32.5	36.0

Hot-dip galvanized and white coated with red reflecting stripes

Part-No.	416.15B	416.20B	416.25B	416.30B
Approx.kg	25.5	29.0	32.5	36.0

Stationary access barriers

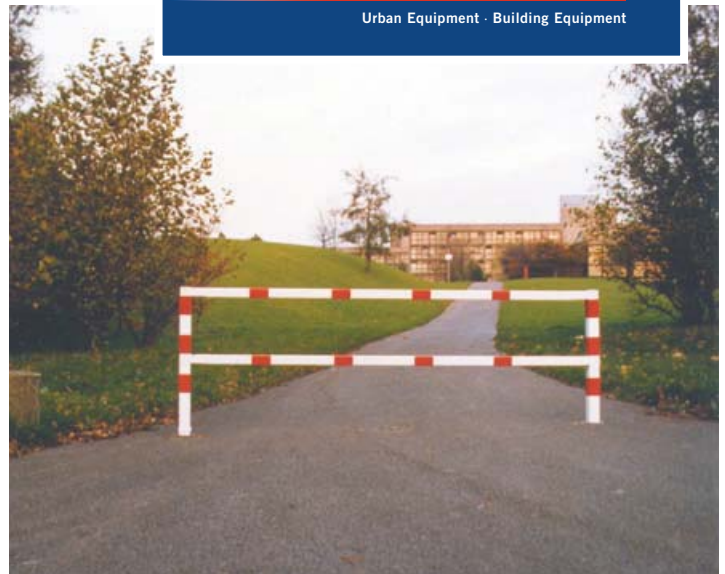
For bolting on site, cluding bolts, consists of:

2 stationary posts

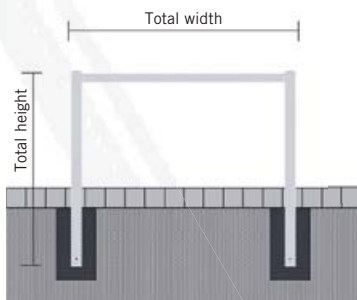
square tube 70 x 70 mm, above ground 900 mm
with ground anchor, below ground 400 mm

1 cross bar

square tube 60 x 40 mm



With top bar

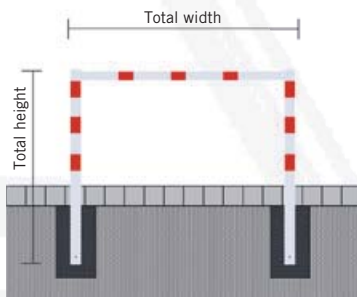


Total width in mm	1500	2000	2500
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Hot-dip galvanized

Part-No.	4014.15	4014.20	4014.25
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Approx.kg	19.5	21.5	23.5
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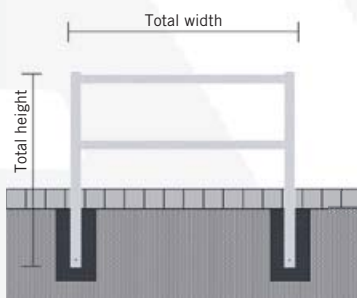


Hot-dip galvanized and white coated with red reflecting stripes

Part-No.	4014.15B	4014.20B	4014.25B
----------	----------	----------	----------

Approx.kg	19.5	21.5	23.5
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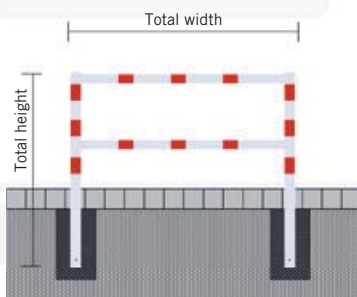
With top and quarter-bent



Hot-dip galvanized

Part-No.	4016.15	4016.20	4016.25
----------	---------	---------	---------

Approx.kg	24.0	28.0	32.0
-----------	------	------	------



Hot-dip galvanized and white coated with red reflecting stripes

Part-No.	4016.15B	4016.20B	4016.25B
----------	----------	----------	----------

Approx.kg	24.0	28.0	32.0
-----------	------	------	------



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



Height restriction barriers

Height restriction barrier for casting in concrete

stationary, with cable pull

Vertical clearance variably turnable

1800 - 2800 mm

Height above ground

approx. 3000 mm

2 square posts

steel tube Ø 102 mm

hot-dip galvanized and white coated

Cross bar

aluminium 100 x 50 mm

white coated with red reflecting stripes



Cross tube length	Approx.kg	Part-No.
3000 mm	88.5	417.302B
4000 mm	90.0	417.402B
5000 mm	91.5	417.502B
6000 mm	93.0	417.602B
7000 mm	94.0	417.702B
8000 mm	96.0	417.802B
9000 mm	97.5	417.902B

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.

Additionally available:

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

Barrier of aluminium tube

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

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



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

Height restriction barrier for casting in concrete

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

Vertical clearance variably turnable

1800 - 2800 mm

Height above ground

approx. 3000 mm

1 piece

Revolving post

steel tube Ø 102 mm

hot-dip galvanized and white coated

Cross bar

aluminium 100 x 50 mm

white coated with red reflecting stripes



Cross tube length	Approx.kg	For padlock Part-No.	Triangular lock Part-No.	Euro profile cylinder lock Part-No.
2000 mm	45.0	417.201VB	417.201FB	417.201ZB
2500 mm	46.5	417.251VB	417.251FB	417.251ZB
3000 mm	48.0	417.301VB	417.301FB	417.301ZB
3500 mm	49.5	417.351VB	417.351FB	417.351ZB
4000 mm	51.0	417.401VB	417.401FB	417.401ZB
4500 mm	52.5	417.451VB	417.451FB	417.451ZB

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..

Additionally available:

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

Holding for signs

flat steel with universal holding

for mounting on cross-bar of height restriction barrier, for sign Ø420 mm



hot-dip galvanized, white coated

Approx.kg

1.2

Part-No.

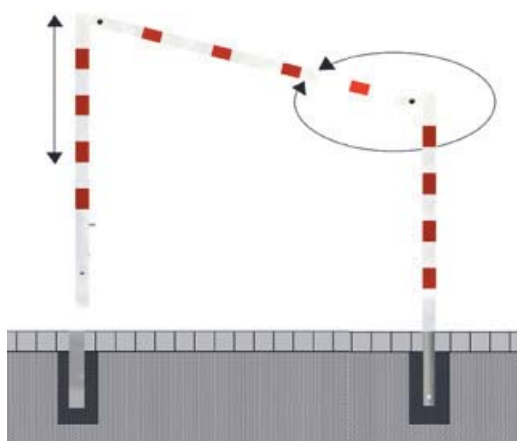
417.98



Height restriction barriers

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

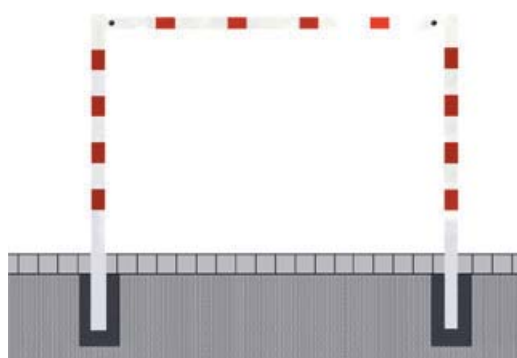
1 post 70 x 70 mm square tube, removable, with triangular locking mechanism

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	Approx.kg	Part-No.
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	Approx.kg	Part-No.
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.



Other heights and widths on request.

Clear height of traffic sign to be provided by buyer

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

Barrier

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



	Length	Approx.kg	Part-No.
Reflecting one-sided	2000 mm	3.5	4117.20B
	3000 mm	5.0	4117.30B
	4000 mm	6.5	4117.40B
	5000 mm	7.5	4117.50B
	6000 mm	8.5	4117.60B
Reflecting both-sided	2000 mm	3.5	4217.20B
	3000 mm	5.0	4217.30B
	4000 mm	6.5	4217.40B
	5000 mm	7.5	4217.50B
	6000 mm	8.5	4217.60B



Holder for sign

flat steel, with borings,
screw-on for sign Ø 450 mm
galvanized and white coated

417.98





Protective railing

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

Protective railing

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



Fixed post 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

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

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°

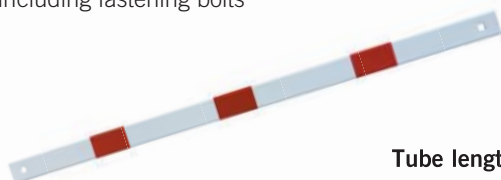
7.0

4273P

4273PB

Cross bar

steel tube 60 x 40 mm
including fastening bolts



Tube length

Approx.kg

Hot-dip galvanized

Part-No.

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

800 mm

3.0

4208

4208B

1300 mm

5.0

4213

4213B

1800 mm

7.0

4218

4218B

2300 mm

8.5

4223

4223B

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

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

Protective railing

Steel tube Ø 48 mm

variable plugging,
height 1000 mm above ground

For casting in concrete



For plugging down
with base plate 100 x 150 mm



Cross bar
Steel tube Ø 48 mm



Tube length

Grid site Approx.kg

500 mm
1000 mm
1500 mm

1000 mm
1500 mm
2000 mm

1.5
3.0
4.5

Hot-dip galvanized

Part-No.

448.42
448.43
448.44

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

448.42B
448.43B
448.44B



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Set of fastening bolts, see page 171. Protective railings are manufactured to order, also
available in yellow / black design, see work site protection. Orders cannot be cancelled,
protective railings cannot be returned.

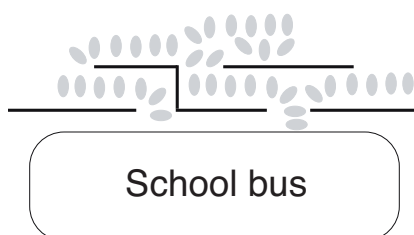


Safety fencing

Safety fencing

for exposed areas of danger

Example of use:



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

Fence panel

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



418.15BR

Hot-dip galvanized

Center spacing	Approx.kg	Part-No.
750 mm	12.5	418.07
1500 mm	20.0	418.15
2000 mm	25.0	418.20

Hot-dip galvanized and coated white

750 mm	13.0	418.07BW
1500 mm	20.5	418.15BW
2000 mm	25.0	418.20BW

Hot-dip galvanized and coated red

750 mm	13.0	418.07BR
1500 mm	20.5	418.15BR
2000 mm	25.0	418.20BR



418.00

418.02

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	6.0	418.00
Hot-dip galvanized and white coated	6.0	418.00B

End post with 2 connecting clips

Hot-dip galvanized	6.0	418.02
Hot-dip galvanized and white coated	6.0	418.02B



Available in the following colors: traffic red / orange / white. Other dimensions and designs on request; see page 123.

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

For casting in concrete

	Approx.kg	Hot-dip galvanized	Hot-dip galvanized and coated (RAL 7016)
		Part-No.	Part-No.
Steel tube Ø 60 mm, with aluminium ball head, total length approx. 1500 mm			
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

For casting in concrete

End post for top and quarter-bent bar	5.0	467.11	467.11B
Middle post for top and quarter-bent bar	5.0	467.12	467.12B
Corner post for top and quarter-bent bar	5.0	467.13	467.13B

Fixed post for border railings

For casting in concrete

Steel tube Ø 60 mm, with aluminium ball head			
Total length approx. 800 mm			
End post	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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Barriers / security fence

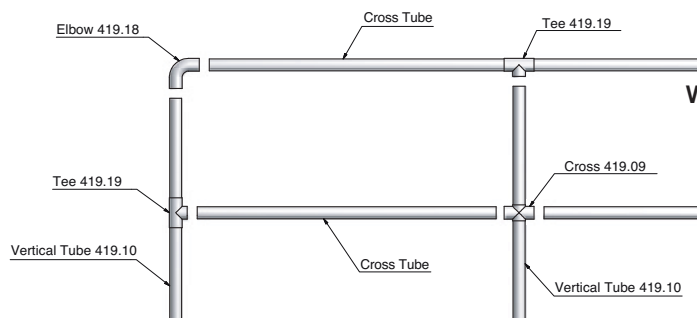
Barriers

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



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		
Aluminium-Corner	0.4	419.08
2 half shells with 2 bolts and nuts		

Safety fence

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

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



418.35

Hot-dip galvanized	12.5	418.35
Hot-dip galvanized and white coated	12.5	418.35B

Fixed post

steel tube Ø 60 mm
total length: approx. 1500 mm

End post with 2 connecting clips

Hot-dip galvanized	5.0	418.42
Hot-dip galvanized and white coated	5.0	418.42B

Middle post with 4 connecting clips

Hot-dip galvanized	5.0	418.44
Hot-dip galvanized and white coated	5.0	418.44B

418.42

418.44

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 123).

**Fixed post**

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

	Length	Approx.kg	Part-No.	Hot-dip galvanized	Hot-dip galvanized and white coated
With cover	1500 mm	5.0	419.600		419.600B
With ball head	1500 mm	5.0	419.602		419.602B

Fixed post

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

With cover	1000 mm	5.0	419.601	419.601B
With ball head	1000 mm	5.0	419.603	419.603B

Cross tube

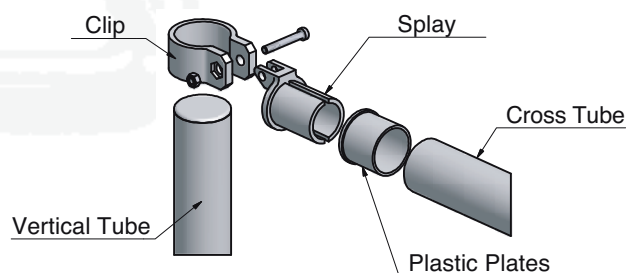
steel tube Ø 60 mm, including connection elements

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

Connection element

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

0,3	419.699	419.669B
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Coated products are made to order. Orders cannot be cancelled, coated products cannot be returned.



City fence

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



	Approx.kg	With flat head Part-No.	With ornamental head Part-No.
Middle post with 4 connecting clips	6.0	418.7804B	418.7814B
End post with 2 connecting clips	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.

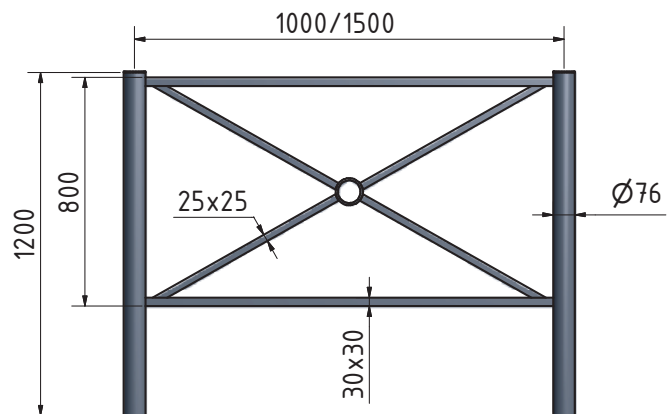
Special color RAL 3004

City fence

for safety in town, perfect layout, unobtrusive

City fence element

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



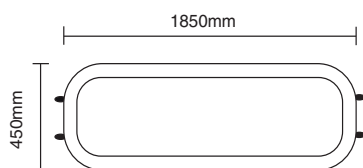
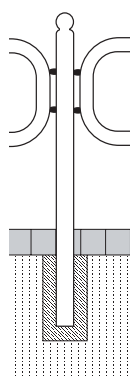
	Length	Approx.kg	Part-No.
With flat head	1000 mm	21.0	418.7040B
With flat head	1500 mm	25.0	418.7045B
With ball head	1000 mm	21.0	418.7440B
With ball head	1500 mm	25.0	418.7445B





Safety barriers

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



Fixed post

steel tube Ø 76 mm, part no. 478B, see page 273, with ball head, hot-dip galvanized and coated RAL 7016, total length approx. 1300 mm

Approx.kg

Part-No.

End post with 2 connecting clips	8.0	478.02B
Middle post with 4 connecting clips	8.0	478.04B
Ground rosette bolts		478RB

Frame element

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

Hot-dip galvanized and coated RAL 7016	8.0	478.20B
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Border railing with cross bar made of flat bar steel

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



Fixed post

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

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



4. Barrier gates



- | | |
|---------------------|----------------|
| 4.1 Swing barriers | 242 - 245, 250 |
| 4.2 Access barriers | 246 - 247 |
| 4.3 Manuel barriers | 248 - 249 |

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Swiveling gates

Swiveling gates

can be swiveled horizontally, no supporting post. Locking mechanism can be closed or opened using a locking pin, fitted for a padlock or triangular locking mechanism acc. 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

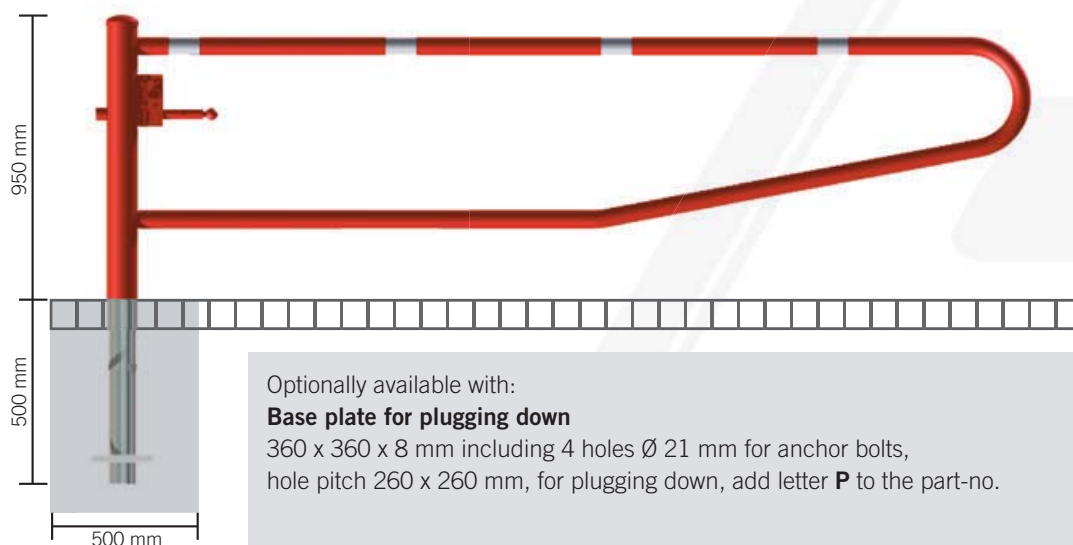


For casting in concrete, hot-dip galvanized

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.



Recommended foundation depth: 900 mm

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

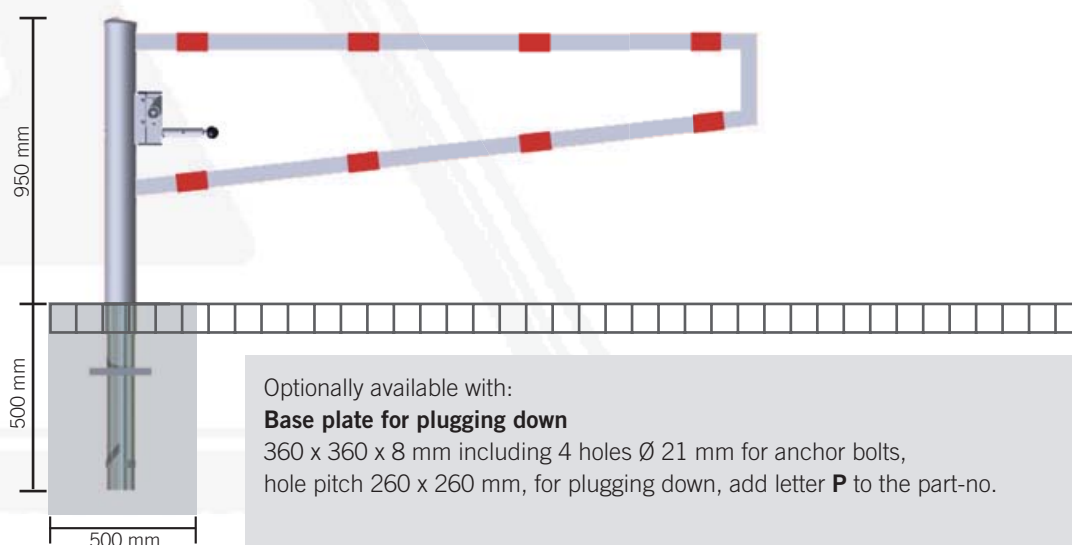


For casting in concrete, hot-dip galvanized

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.



Recommended foundation depth: 900 mm



Swing barrier with aluminium barrier

Swing barrier

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

Swiveling post: Steel tube Ø 102 mm, hot-dip galvanized and coated red

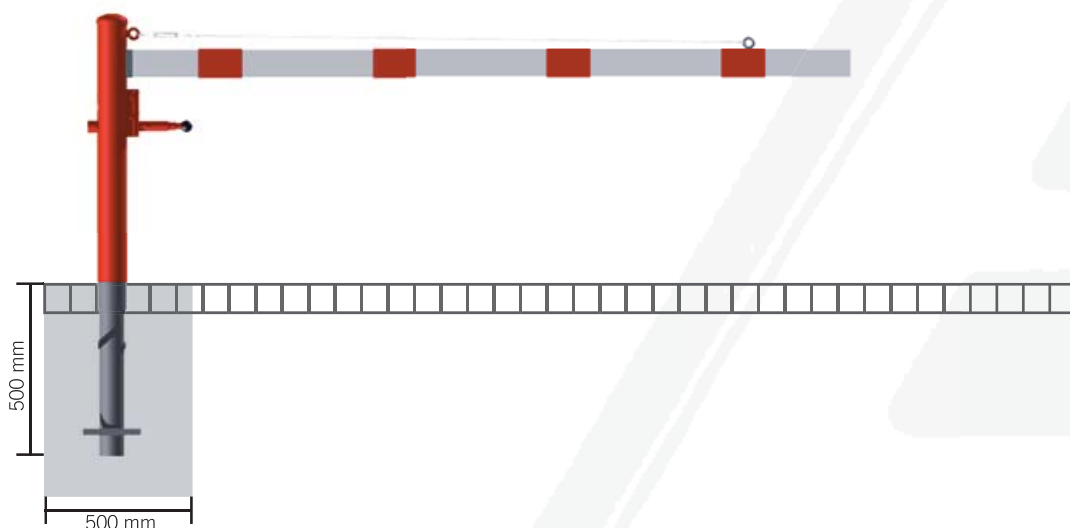
Barrier arm: Aluminium tube 100 x 50 mm, coated white with red reflecting stripes

Height: Approx. 950 mm above ground



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.



Recommended foundation depth: 900 mm

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

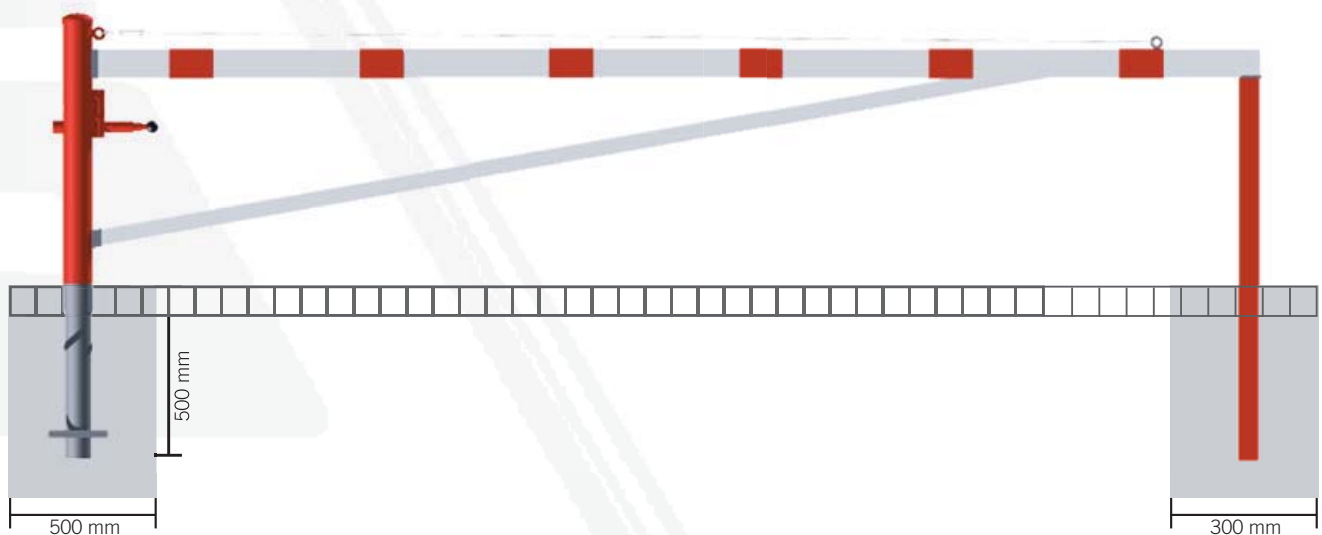
Supporting post: Steel tube 70 x 70 mm, hot-dip galvanized and white coated (2 piece)

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.



Recommended foundation depth: 900 mm



Access barrier with counterweight and supporting post

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

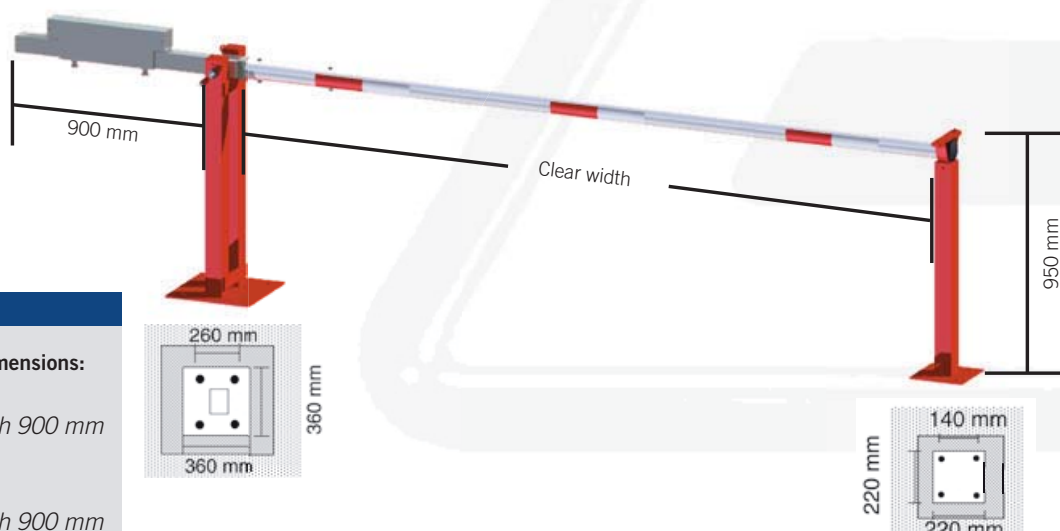
Set of ground sockets

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



Recommended foundation dimensions:

Main support

Width 550 x 550 mm, depth 900 mm

Supporting post

Width 400 x 400 mm, depth 900 mm

Access barrier

Main support: Steel construction
70 x 70 mm square tube with ground plate
360 x 360 x 8 mm for plugging down,
including 4 holes 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

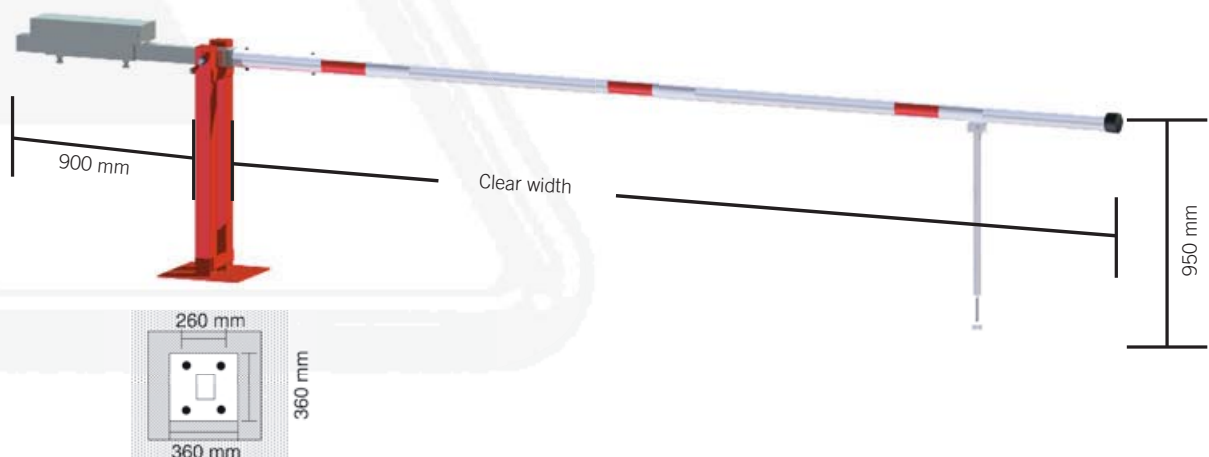


Clear width	Approx.kg	For padlock Part-No.	With triangular lock Part-No.	With Euro profile cylinder lock Part-No.
3000 mm	50.0	411.31VPB	411.31FPB	411.31ZPB
4000 mm	70.0	411.41VPB	411.41FPB	411.41ZPB
5000 mm	90.0	411.51VPB	411.51FPB	411.51ZPB
6000 mm	110.0	411.61VPB	411.61FPB	411.61ZPB
7000 mm	125.0	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	16.0	411.91
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Pull rope reinforcement		411.95
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Manual barrier with gas pressure spring and supporting post

Manual barrier

with pneumatic spring and fixed pole support

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

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

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

Locking mechanism at the post support

Total width: Clear width + approx. 180 mm

Height: Approx. 950 mm above ground



Clear width	Approx. kg	For padlock Part-No.	With triangular lock Part-No.
3000 mm	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

Clear width	Approx. kg	Part-No.	Triangular locking mechanism and Euro profile cylinder lock at the main support 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

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

Approx. kg Part-No.
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



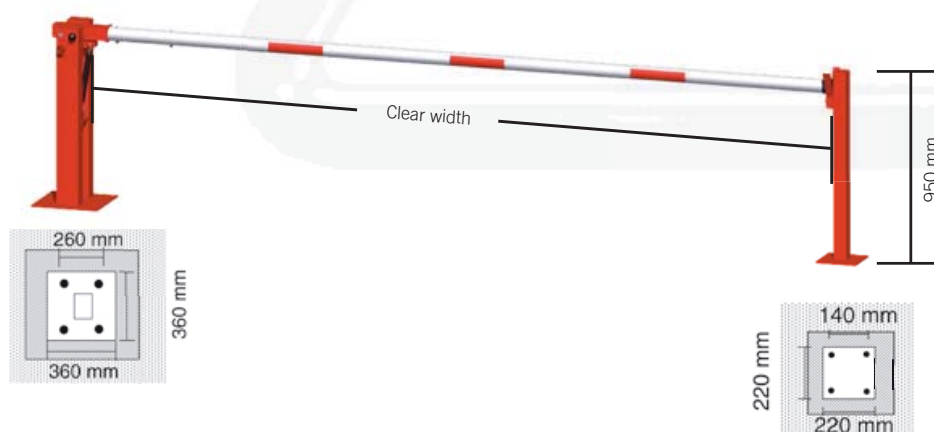
Recommended foundation dimensions:

Main support

Width 550 x 550 mm, depth 900 mm

Supporting post

Width 400 x 400 mm, depth 900 mm



Manual barrier**with pneumatic spring and hinged pole support****Main support:** Steel construction

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

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

Clear width	Approx. kg	For padlock Part-No.	With triangular lock 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 Part-No.	Triangular lock and Euro profile cylinder lock 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

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

Approx. kg

Part-No.

470.72

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

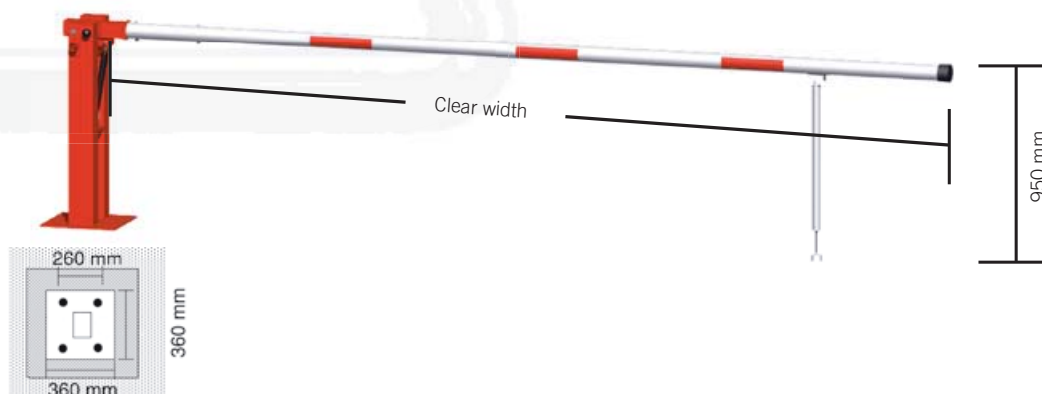
12.0

415.91

Euro profile cylinder lock with forced closing
Pull rope reinforcement

415.96

415.95





Swing barrier

Swing barrier

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

Swiveling post: Steel tube Ø 102 mm

Barrier arm: Steel tube 60 x 40 mm

Supporting post: Steel tube 70 x 70 mm

Height: Approx. 950 mm above ground

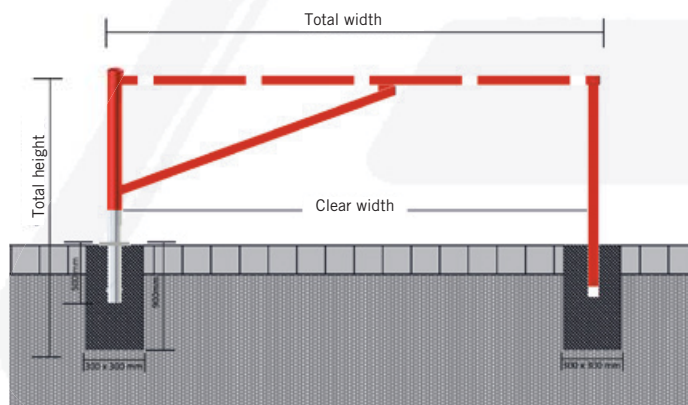
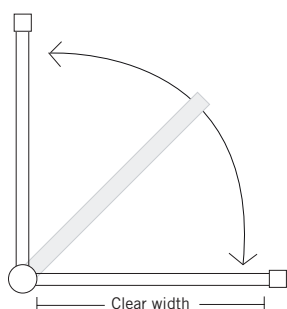


For casting in concrete, hot-dip galvanized

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 stripes

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 Ø 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 part no.

5. Outdoor equipment



Schake

Urban Equipment · Building Equipment



5.1 Bicycle stands / lean-on hoops	252 - 262
5.2 Laundry drying stands	263
5.4 Litter bins	264 - 265
5.5 Planters	266



Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Bicycle rack

Sturdy and space-saving due to alternating high and low racks. Racks can be bolted to form a serial system, with boreholes for anchoring or plugging.

Bicycle parking rack

Frame of angular section
Hoop 19 mm round tube
Height: approx. 510 mm
Alternating high and low racks
Bicycle wheel width up to 55 mm
Low rack one side: approx. 500 mm
Two-side depth: approx. 600 mm



One-sided rack, hot-dip galvanized

space between bicycles 350 mm

	Length	Approx.kg	Part-No.
3 Bicycles	1050 mm	10.0	420.30
4 Bicycles	1400 mm	13.0	420.40
5 Bicycles	1750 mm	15.0	420.50
6 Bicycles	2100 mm	18.0	420.60

Two-sided rack, hot-dip galvanized

2 x 3 Bicycles	1050 mm	15.0	420.32
2 x 5 Bicycles	1750 mm	24.0	420.52
2 x 6 Bicycles	2100 mm	27.0	420.62

Bicycle stand with lean-on hoop

Frame of angular section
Hoop Ø 19 mm
round tube, high and low rack
Bicycle wheel width up to 55 mm
Lean-on hoop Ø 26.9 mm round tube
with reinforced side and
eyelet, hoop with plastic coating
Height: approx. 850 mm
Depth: approx. 950 mm

One-sided rack, hot-dip galvanized

with lean-on hoop, space between bicycles 350 mm

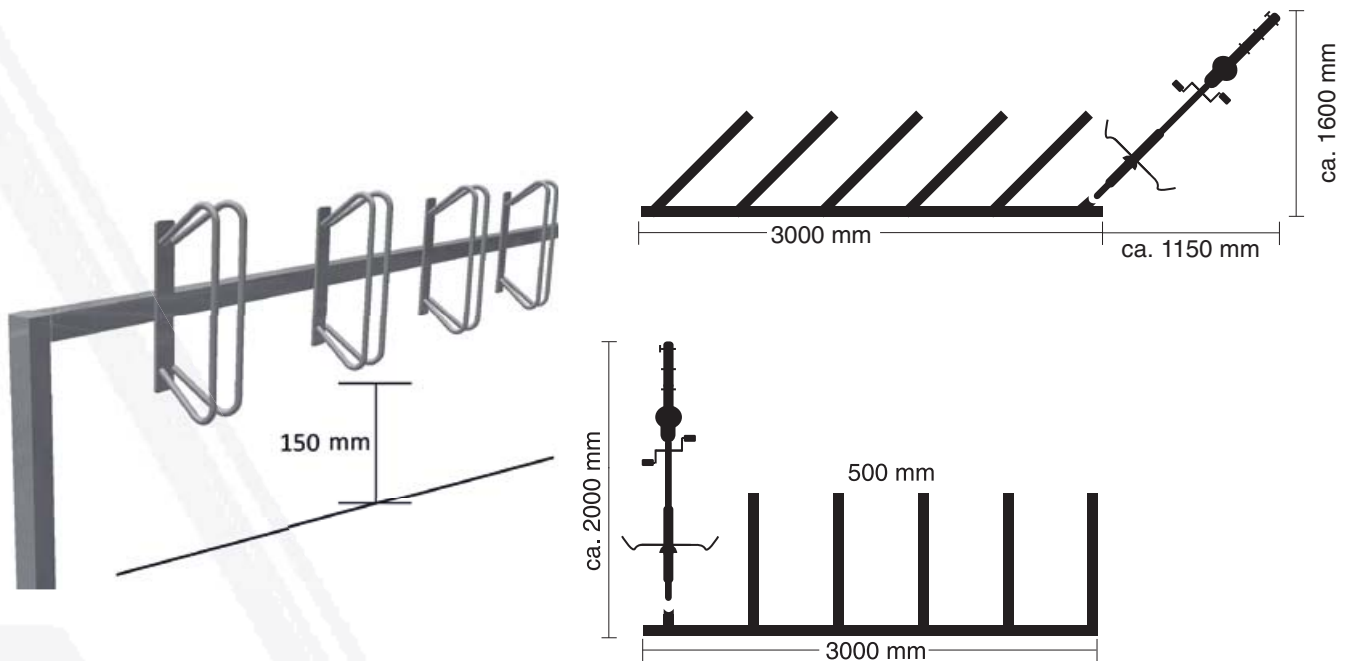
2 Bicycles	700 mm	15.5	420.20H
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Figure: 2 racks 420.20H

Bicycle rack – serial parking**Sturdy and weatherproof**

parking rack made of Ø 12 mm round steel with welded square tube strut 40 x 40 mm. Vertical tube can be fixed by bolts. Height approx. 500 mm above ground, for bicycle wheel width up to 55 mm, hot-dip galvanized



Model	Stand-alone construction for casting in concrete		Stand-alone construction for plugging down		Wall brackets for plugging down	
Element length	3000		3000		3000	
Total length With vertical tube approx. mm	3100 One-side		3100 One-side		3100 One-side	
Bicycle positioning	Straight 90°	Left or right 45°	Straight 90°	Left or right 45°	Straight 90°	Left or right 45°
Number of spaces	6	6	6	6	6	6
Spacing mm	500	500	500	500	500	500
Depth of stand approx. mm	2000	1600	2000	1600	2000	1600
Approx.kg	20.0	20.0	20.0	20.0	20.0	20.0
Part-No.	421.02	421.03	421.04	421.05	421.16	421.17



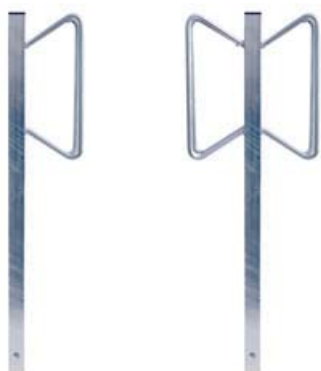
Bicycle rack

Individual stands

stand of Ø 12 mm round steel welded to vertical tube 40 x 40 mm height approx. 500 mm above ground, hot-dip galvanized



Individual stand for casting in concrete



One-side parking
Two-side parking

Approx. kg Part-No.

3.5 421.51
4.0 421.52

Individual stand for plugging down

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



One-side parking
Two-side parking

4.0 421.53
4.5 421.54

Individual stand for wall mounting



Straight positioning 90°
Angled positioning 45°

3.5 421.55
3.5 421.56

Lean-on hoop

easy and safe bicycle rack

**Lean-on hoop stand for casting in concrete, hot-dip galvanized**

steel tube Ø 42 mm

Stand opening approx. 100 mm
 Total width approx. 200 mm
 Total length approx. 1600 mm
 Total height approx. 850 mm

Approx. kg

Part-No.

10.0

422.01

Individual stand

stable, easy bicycle rack

**Individual stand for casting in concrete**

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

Height approx. 530 mm above ground

4.0

421.60



Lean-on and blocking car park barriers, steel tube Ø 48 mm

Barrier posts

Stainless steel

Barrier elements

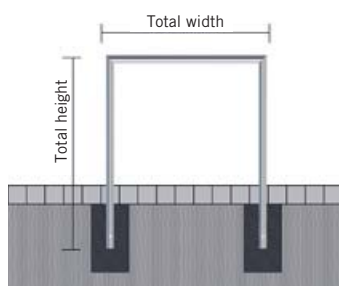
Barrier gates

Outdoor equipment

Work site protection

Lean-on and blocking car park barriers

steel tube Ø 48 x 2.5 mm,
on miter-welded



Without cross bar, for casting in concrete

Hot-dip galvanized

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

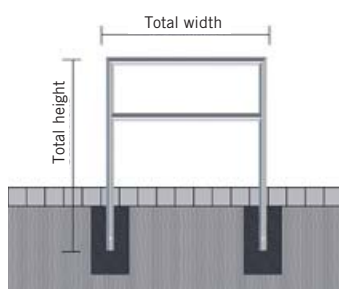
Total width	Total height	Approx. kg	Part-No.
500 mm	1200 mm	7.0	447.09
700 mm	1200 mm	7.5	447.11
1000 mm	1200 mm	8.5	447.12
1200 mm	1200 mm	9.0	447.13

447.09B

447.11B

447.12B

447.13B



With cross bar, for casting in concrete

Hot-dip galvanized

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

Total width	Total height	Approx. kg	Part-No.
500 mm	1200 mm	9.5	447.19
700 mm	1200 mm	10.0	447.21
1000 mm	1200 mm	12.0	447.22
1200 mm	1200 mm	13.0	447.23

447.19B

447.21B

447.22B

447.23B

Bicycle lean-on rack

consists of three lean-on hoops
of steel tube Ø 48 mm welded
on flat bar 100 x 8 mm,
1800 mm long, with holes for
plugging down.

Total width approx. 700 mm

Hoop spacing approx. 600 mm

Height approx. 700 mm

Approx.kg

Part-No.

Hot-dip galvanized

38.0

422.30



Easy parking of bicycles, theft proof locking, simple installation, high stability

Bicycle lean-on hoop

steel tube Ø 60 x 2.5 mm
with cross tubes Ø 42 x 2.5 mm
Total width 800 mm
Total height 1300 mm



With flat head, for casting in concrete

	Approx.kg	Part-No.
Hot-dip galvanized	12.0	422.60
Hot-dip galvanized and coated DB 703	12.0	422.60B



With ball head, for casting in concrete

Hot-dip galvanized	12.0	422.61
Hot-dip galvanized and coated DB 703	12.0	422.61B



Lean-on hoop, for casting in concrete

can be used on both sides
vertical steel tubes Ø 60 mm
tubular frame Ø 48 mm
total length approx. 1425 mm
height above ground approx. 900 mm
completely welded, hot-dip galvanized

Hot-dip galvanized	20.0	422.10
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Special designs

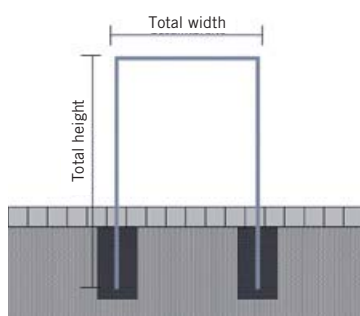
Lean-on and blocking hoops also available with base plate 100 x 150 mm for plugging down (The total height changes to 800 mm).

For plugging down: Add the letter P to the article number.



Lean-on hoop made of steel tube

for casting in concrete,
hot-dip galvanized
and optionally powder-coated
in DB 703 Total height
approx. **1200 mm**



Square tube 80 x 20 mm

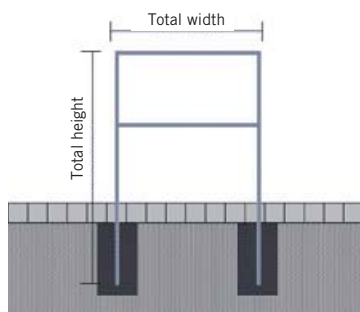
Without cross bar

Hot-dip galvanized

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

Total width	Approx.kg	Part-No.
450 mm	8.5	458.045
750 mm	9.5	458.075
1000 mm	10.0	458.100

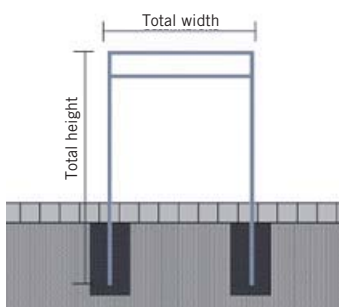
458.045B
458.075B
458.100B



With cross bar

450 mm	10.0	459.045
750 mm	11.5	459.075
1000 mm	13.0	459.100

459.045B
459.075B
459.100B



With cross bar (small distance)

450 mm	10.0	459.145
750 mm	11.5	459.175
1000 mm	13.0	459.110

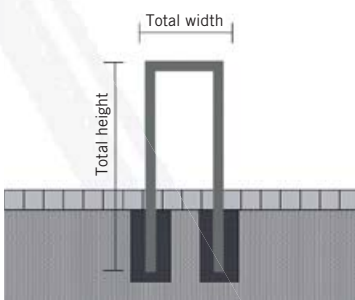
459.145B
459.175B
459.110B



Bicycle lean-on hoops are manufactured to order. Orders cannot be cancelled, hoops cannot be returned.

Lean-on hoop made of steel tube

for casting in concrete, hot-dip galvanized or optionally powder-coated in DB 703 total height approx. **1200 mm**

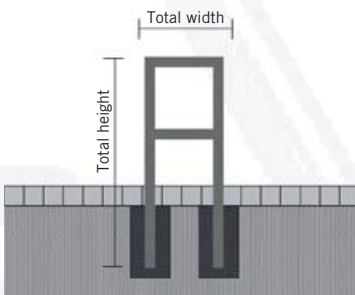
**Square tube 60 x 60 mm****Without cross bar****Total width****Approx.kg****Hot-dip galvanized****Part-No.****Hot-dip galvanized and coated DB 703
Part-No.**

450 mm
750 mm
1000 mm

12.5
14.0
15.0

454.045
454.075
454.100

454.045B
454.075B
454.100B

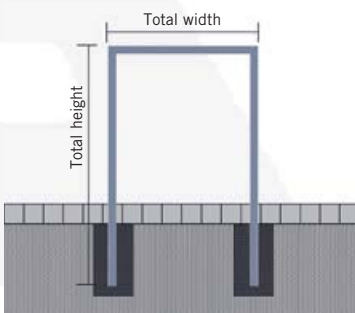
**With cross bar**

450 mm
750 mm
1000 mm

14.5
17.5
19.0

455.045
455.075
455.100

455.045B
455.075B
455.100B

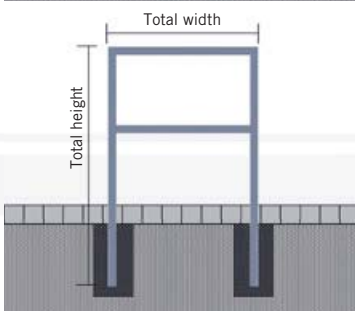
**Square tube 60 x 40 mm****Without cross bar**

450 mm
750 mm
1000 mm

10.0
11.5
12.5

456.045
456.075
456.100

456.045B
456.075B
456.100B

**With cross bar**

450 mm
750 mm
1000 mm

12.0
14.0
13.0

457.045
457.075
457.100

457.045B
457.075B
457.100B

Special designs

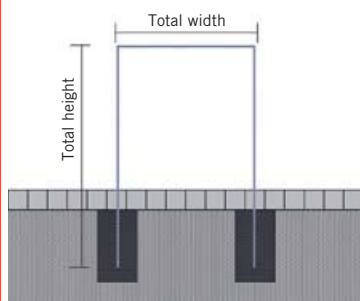
Lean-on and blocking hoops also available with base plate 100 x 150 mm for plugging down (The total height changes to 800 mm).

For plugging down: Add the letter P to the article number.



Lean-on hoop of flat bar steel

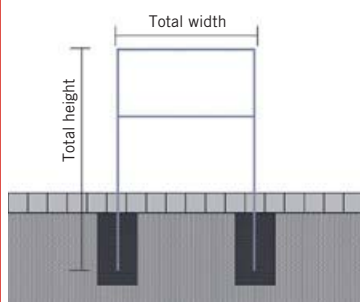
for casting in concrete, hot-dip galvanized and optionally powder-coated in DB 703 Total height approx. **1200 mm**



Flat bar steel 50 x 12 mm

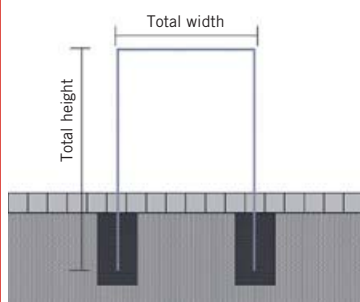
Without cross bar

Total width	Approx.kg	Hot-dip galvanized Part-No.	Hot-dip galvanized and coated DB 703 Part-No.
450 mm	13.0	450.045	450.045B
750 mm	14.5	450.075	450.075B
1000 mm	16.0	450.100	450.100B



With cross bar

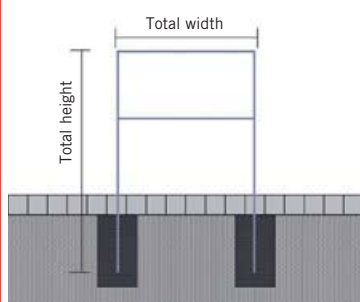
450 mm	15.0	451.045	451.045B
750 mm	18.0	451.075	451.075B
1000 mm	20.5	451.100	451.100B



Flat bar steel 80 x 12 mm

Without cross bar

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

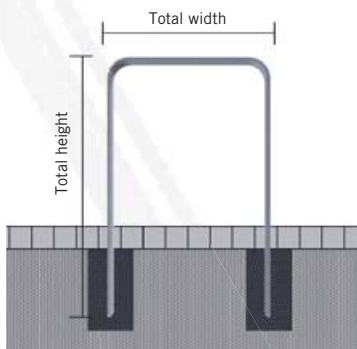


With cross bar

450 mm	24.0	453.045	453.045B
750 mm	28.5	453.075	453.075B
1000 mm	33.0	453.100	453.100B

Lean-on hoop of flat bar steel curved layout

for casting in concrete
hot-dip galvanized and optionally
powder-coated in DB 703
over all height approx. 1200 mm



Flat bar steel 50 x 12 mm

Without cross bar

Total width

Approx.kg

Hot-dip galvanized

Part-No.

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

750 mm

14.0

4050.075

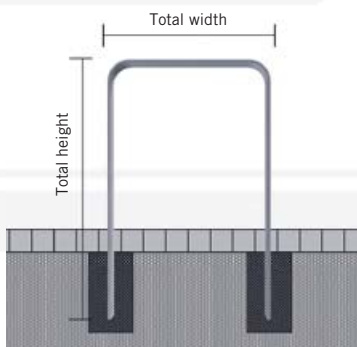
4050.075B

1000 mm

15.0

4050.100

4050.100B



Flat bar steel 80 x 12 mm

Without cross bar

750 mm

23.0

4052.075

4052.075B

1000 mm

25.5

4052.100

4052.100B

Special designs

Lean-on and blocking hoops also available with base plate 100 x 150 mm for plugging down (The total height changes to 800 mm).

For plugging down: Add the letter P to the article number.



Bicycle lean-on hoops

Bicycle lean-on hoop

steel tube Ø 48 mm
Total width approx. 1400 mm
Height above ground approx.
850 mm



For casting in concrete

Hot-dip galvanized
Hot-dip galvanized and coated DB 703

Approx.kg	Part-No.
8.0	422.50
8.0	422.50B

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

Hot-dip galvanized
Hot-dip galvanized and coated DB 703

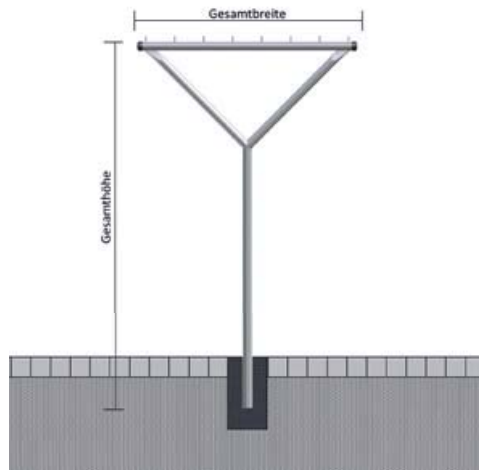
8.0	422.51
8.0	422.51B

Lean-on post with tube ring

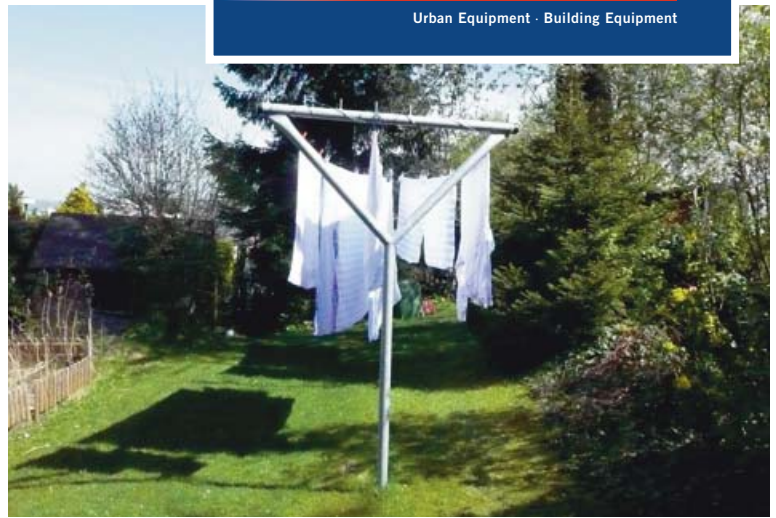
for plugging down, tube ring outside diameter 300 mm
made of steel tube Ø 48 mm, vertical post steel tube
Ø 60 mm, with base plate Ø 180 mm and four
Ø 12 mm holes. Total height approx. 900 mm



Hot-dip galvanized and coated DB 703	5.5	422.55PB
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Laundry drying stand Y-shape, made of steel tube Ø 60 mm



Cross tube with 8 round pins Ø 10 x 40 mm

Total width: 1500 mm

Approx.kg

Part-No.

Total height: 2500 mm

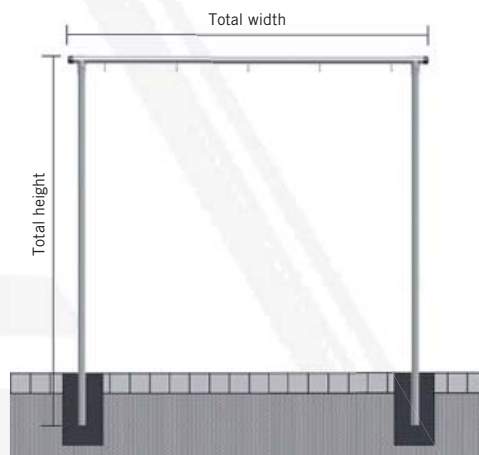
with ground anchor, hot-dip galvanized

14.0

419.400

Laundry drying stand consisting of:

2 fixed posts with ground anchor, total height 2500 mm, cross tube with welded, bent hooks, hot-dip galvanized, spacing approx. 500 mm 2 T-connectors, 2-part with bolt M10, 2 plastic caps



Approx.kg

Steel tube Ø 48 mm Part-No.

Steel tube Ø 60 mm Part-No.

Cross tube 2500 mm

5 hooks, one-sided 24.5

419.4425

419.4625

Cross tube 3000 mm

6 hooks, one-sided 26.0

419.4430

419.4630

Cross tube 3500 mm

7 hooks, one-sided 27.5

419.4435

419.4635

Cross tube 4000 mm

8 hooks, one-sided 29.0

419.4440

419.4640



Extra charge for additional hooks

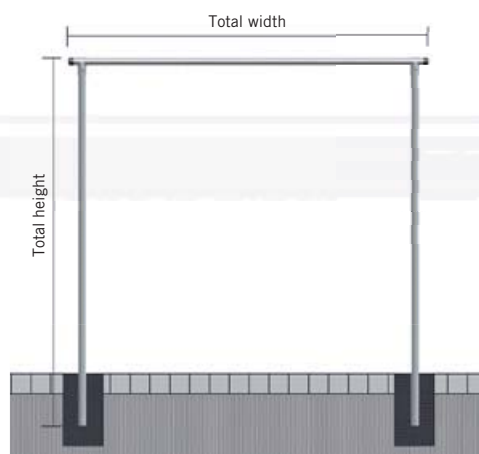
Part-No.

Each bent hook, pc.

419.460

Carpet beater frame

like laundry drying stand, but without hooks



Approx.kg

Steel tube Ø 48 mm Part-No.

Steel tube Ø 60 mm Part-No.

Cross tube 2500 mm 22.0

419.4525

419.4725

Cross tube 3000 mm 23.5

419.4530

419.4730

Cross tube 3500 mm 25.0

419.4535

419.4735

Cross tube 4000 mm 26.5

419.4540

419.4740



Litter bins for fixing on walls or posts



Litter bin, kidney shape

wire, height approx. 430 mm, content approx. 27 l, Ø approx. 210 x 400 mm, complete with rail bracket and square wrench part-no. 4037

Approx.kg Part-No.

Hot-dip galvanized	3.2	4027
Fixed to post Ø 60 x 1300 mm	8.2	4127



Litter bin, oval

content approx. 45 l, complete with bracket and wrench height approx. 600 mm, depth 260 mm, width 410 mm, lockable bottom flap for emptying, optional „nice guy“ sticker

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



Litter bin approx. 35 l

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

Hot-dip galvanized	4.5	4030
Fixed to post Ø 60 x 1300 mm	9.5	4130
Hot-dip galvanized and coated DB 703	4.5	4030B
Fixed to post Ø 60 x 1300 mm	9.5	4130B



Litter bin approx. 40 l, with ashtray

including bracket and wrench, height approx. 530 mm, width 340 mm, depth 380 mm, two side openings, lockable bottom flap for emptying

Hot-dip galvanized	9.0	4024
Fixed to post Ø 60 x 1300 mm	15.0	4124
Hot-dip galvanized and coated DB 703	9.0	4024B
Fixed to post Ø 60 x 1300 mm	15.0	4124B



Free-standing litter bin, approx. 50 l

with lid, Ø 360 mm, height 500 mm, with mounting post 60 x 60 x 1500 mm and triangular wrench (without inside container)

Hot-dip galvanized	15.0	4034
Hot-dip galvanized and coated DB 703	15.0	4034B

Inside container

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

Hot-dip galvanized	4034E
--------------------	-------

Litter bins for fixing on walls or posts



Square litter bin with cover

no perforation, content approx. 40 l, complete with brackets and wrench container size: 440 x 310 x 310 mm

	Approx.kg	Part-No.
Hot-dip galvanized	13.0	4036
Fixed to post Ø 60 x 1300 mm	18.0	4136
Hot-dip galvanized and coated RAL 6005	13.0	4036B
Fixed to post Ø 60 x 1300 mm	18.0	4136B



Square litter bin with cover

no perforation, content approx. 40 l, **including ashtray**, complete with bracket and wrench, container size: 440 x 310 x 310 mm

Hot-dip galvanized	13.5	4035
Fixed to post Ø 60 x 1300 mm	18.5	4135
Hot-dip galvanized and coated RAL 6005	13.5	4035B
Fixed to post Ø 60 x 1300 mm	18.5	4135B



Round ashtray for fixing on walls or posts

with bracket, wrench and sticker, content approx. 4 l, Ø 200 mm, height 135 mm

Hot-dip galvanized with perforated bottom for water drainage	3.0	4066
Fixed to post Ø 60 x 1300 mm	8.0	4166
Hot-dip galvanized and coated DB 703	3.0	4066B
Fixed to post Ø 60 x 1300 mm	8.0	4166B



Round ashtray with cover for fixing on walls or posts

with bracket, wrench and sticker, content approx. 4 l, Ø 200 mm, height 290 mm

Hot-dip galvanized with perforated bottom for water drainage	4.5	4067
Fixed to post Ø 60 x 1300 mm	9.5	4167
Hot-dip galvanized and coated DB 703	4.5	4067B
Fixed to post Ø 60 x 1300 mm	9.5	4167B



Square wrench 6 mm

for litter bin part-no. 4027

4037

Triangular socket wrench 8 mm

4038

Triangular wrench 8 mm

4039

„Nice guy“ sticker, black

translucent / black

4021

„Nice guy“ sticker, white

translucent / white

4022

Universal fastening tape (1 unit = 2 pieces)

each bin requires 2 tapes, galvanized

4023





Planters

Planters

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

Planters

Vertical round tubes Ø 60 mm
horizontal steel tube 30 x 30 mm
with side sheet steel and bottom plate
hot-dip galvanized and coated DB 703

Outside dimension: 640 x 640 mm
Inside dimension: 520 x 520 mm
Depth: 500 mm (container)
Height: With ball head 680 mm
With flat head 600 mm



Approx.kg

Part-No.

With ball head	31.0	4025.10B
With flat head	31.0	4025.20B

Planters

Vertical round tubes Ø 76 mm
with side sheet steel and bottom plate
hot-dip galvanized and coated DB 703

Outside dimension: 880 x 880 mm
Inside dimension: 700 x 700 mm
Depth: 500 mm (container)
Height: With ball head 680 mm



Approx.kg

Part-No.

43.0	4025.70PB
------	-----------





6. Work site protection



6.1 Barrier posts	268 - 276
6.2 Flexible plastic posts	277
6.3 Car park barriers	278 - 284
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Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



Barrier posts of steel tube Ø 60, 76 mm

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection

Barrier posts

Steel tube Ø 60, Ø 76 mm

with welded steel cap,
approx. 900 mm above ground,
hot-dip galvanized and yellow coated with black
stripes

Stationary, for casting in concrete

With ground anchor

Hot-dip galvanized and coated yellow
with three black stripes

Diameter in mm

Approx.kg

Part-No.



Ø 60

4.5

460BG



Ø 76

6.0

476BG



Stationary, to be fixed by plugs

With base plate 100 x 150 mm
Total length: 900 mm

Hot-dip galvanized and coated yellow
with three black stripes

Diameter in mm

Approx.kg

Part-No.



Ø 60

4.5

460PBG



Ø 76

5.5

476PBG

Set of mounting bolts type 1

Part-No.

470.71

Barrier posts**Steel tube Ø 89, 70 x 70 mm**

with welded steel cap
approx. 900 mm above ground,
hot-dip galvanized and yellow coated with
black stripes

Stationary, for casting in concrete

with ground anchor

Hot-dip galvanized and coated yellow
with three black stripes

Diameter in mm

Approx. kg

Part-No.



Ø 89



70 x 70

9.0

7.5

489BG

470BG

**Stationary, to be fixed by plugs**

with base plate 100 x 150 mm,
total length: 900 mm

Hot-dip galvanized and coated yellow
with three black stripes

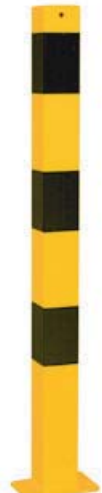
Diameter in mm

Approx. kg

Part-No.



Ø 89



70 x 70

7.5

6.5

489PBG

470PBG

Set of mounting bolts type 1

Part-No.

470.71



Barrier posts of steel tube Ø 76, 89, 70 x 70 mm

Barrier posts

Steel tube Ø 76, Ø 89, 70 x 70 mm
with welded steel cap,
approx. 1000 mm above ground
hot-dip galvanized and coated yellow



Crash-proof – tiltable!



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	Ø 76	Ø 89	70 x 70 mm
Approx. kg	8.0	9.0	9.0
Part-No.	476NPBG	489NPBG	470NPBG

Cover Ø 200 mm for barrier post, tiltable

Part-No. 477.10BG

Set of mounting bolts type 2

Part-No. 470.72

Barrier posts

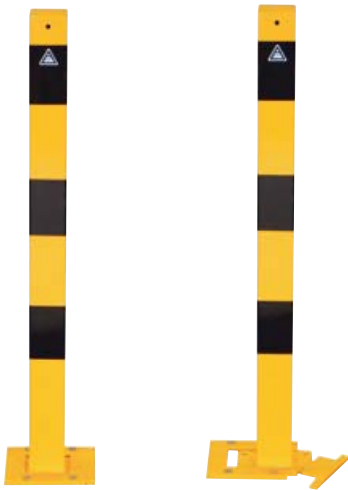
Steel tube Ø 76, Ø 89, 70 x 70 mm
with welded steel cap,
approx. 1000 mm above ground
hot-dip galvanized and coated yellow



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	Ø 76	Ø 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

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



40151BG

Steel tube bollards Ø 152 x 3.2 mm with welded steel cap

Stationary, for casting in concrete

	Total length in mm	1200	1500	2000
Hot-dip galvanized	Approx.kg	15.0	17.0	23.0
	Part-No.	40150	40151	40152
Hot-dip galvanized and coated yellow with three black stripes	Part-No.	40150BG	40151BG	40152BG



Steel cap, bolted

Replaces welded steel cap

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



Steel cap with concrete anchor

Replaces welded steel cap

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



40153BG

Steel tube bollards Ø 152 x 3.2 mm with welded steel cap

For plugging, down with base plate 220 x 220 mm

	Total length in mm	1000
Hot-dip galvanized	Approx.kg	14.0
	Part-No.	40153
Hot-dip galvanized and coated yellow with three black stripes	Part-No.	40153BG



Set of mounting bolts see page 171.



40151HBG

Steel tube bollards Ø 152 x 3.2 mm

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

Hot-dip galvanized

Hot-dip galvanized and coated yellow
with three black stripes

Removable without locking mechanism

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

Approx.kg	26.0	32.0
Part-No.	40151H	40152H

Part-No.	40151HBG	40152HBG
----------	----------	----------



40151FBG

Steel tube bollards Ø 152 x 3.2 mm

with welded steel cap,
height above ground 1000 mm
incl. ground socket Part-No. 470.10
approx. 500 mm above ground

Hot-dip galvanized

Hot-dip galvanized and coated yellow
with three black stripes

Removable with triangular lock

Approx.kg	26.0
Part-No.	40151F

Part-No.	40151FBG
----------	----------



40153NPBG

**Flexible, tiltable
Steel tube bollards Ø 152 x 3.2 mm**

with welded steel cap

Hot-dip galvanized

Hot-dip galvanized and coated yellow
with three black stripes

For plugging, down with base plate 360 x 360 mm

Total length in mm	1000
--------------------	------

Approx.kg	18.0
Part-No.	40153NP

Part-No.	40153NPBG
----------	-----------



Steel tube bollards Ø 193 mm

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



Steel tube bollards Ø 193 x 3.6 mm Stationary, for casting in concrete with welded steel cap

Hot-dip galvanized

Total length in mm	1200	1500	2000
--------------------	------	------	------

Approx.kg	22.0	25.0	34.5
Part-No.	40190	40191	40192

Hot-dip galvanized and coated yellow
with three black stripes

Part-No.	40190BG	40191BG	40192BG
----------	---------	---------	---------



40191BG



Steel cap, bolted

Replaces welded steel cap

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



Steel cap with concrete anchor

Replaces welded steel cap

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

Steel tube bollards Ø 193 x 3.6 mm For plugging down, with base plate 360 x 360 mm with welded steel cap

Hot-dip galvanized

Total length in mm	1000
--------------------	------

Approx.kg	25.0
Part-No.	40193

Hot-dip galvanized and coated yellow
with three black stripes

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



40193BG



Set of mounting bolts see page 171.

Steel tube bollards removable

for temporary detach



40191HBG



Steel tube bollards Ø 193 x 3.6 mm

with welded steel cap
incl. ground socket Part-No. 40191.10
approx. 500 mm above ground

Hot-dip galvanized

Hot-dip galvanized and coated yellow
with three black stripes

Removable without locking mechanism

Total length in mm **1500** **2000**

Approx.kg 32.0 42.0
Part-No. 40191H 40192H

Part-No. 40191HBG 40192HBG

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



40191FBG



Steel tube bollards Ø 193 x 3.6 mm

with welded steel cap
height above ground 1000 mm
incl. ground socket Part-No. 470.10
approx. 500 mm above ground

Hot-dip galvanized

Hot-dip galvanized and coated yellow
with three black stripes

Removable with triangular lock

Approx.kg 32.0
Part-No. 40191F

Part-No. 40191FBG



Steel tube bollards Ø 273 x 5.0 mm Stationary, for casting in concrete with welded steel cap

	Total length in mm	1500	2000
	approx.kg	50.0	68.0
Hot-dip galvanized	Part-No.	40271	40272
Hot-dip galvanized and coated yellow with three black stripes	Part-No.	40271BG	40272BG



40271



Steel cap with concrete anchor

Replaces welded steel cap

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

Steel tube bollards Ø 273 x 5.0 mm For plugging down, with base plate 360 x 360 mm with welded steel cap

	Total length in mm	1500
	Approx.kg	60.0
Hot-dip galvanized	Part-No.	40273
Hot-dip galvanized and coated yellow with three black stripes	Part-No.	40273BG



40273BG



Set of mounting bolts see page 171.

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

Flexipost yellow

Ø 80 mm, PUR,
black stripes,
incl. 3 bolts and plugs

Height in mm**Approx.kg****Part-No.**

1000

1.48

412441BG



750

1.32

412442BG



450

0.93

412444BG



300

0.69

412445BG

Flexipost black

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

Height in mm**Approx.kg****Part-No.**

1000

1.48

412221BG



750

1.32

412222BG



450

0.93

412284BG



300

0.69

412282BG



Also available in red/white and in white/red. Bigger quantities on request.

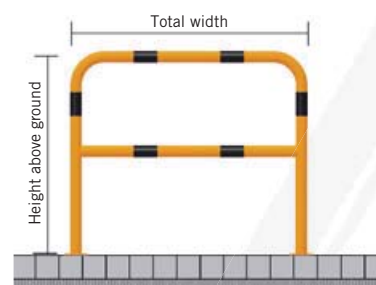
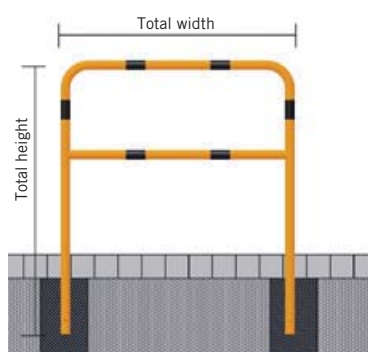


Barrier hoop

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

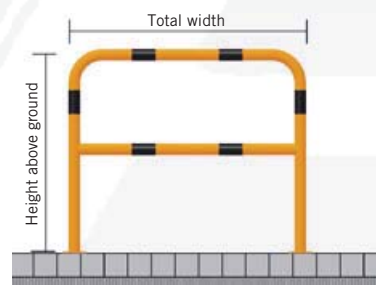
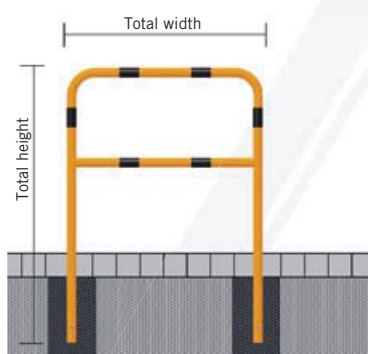


Protective hoop with quarter-bent bar round steel tube Ø 48 x 2.5 mm



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

Protective hoop with quarter-bent bar round steel tube Ø 60 x 2.5 mm



Total width	Height above ground	approx.kg	For casting in concrete Part-No.	For plugging down Part-No.
1000 mm	1000 mm	13.0	465.32BG	465.62BG
1500 mm	1000 mm	16.5	465.33BG	465.63BG
2000 mm	1000 mm	20.0	465.34BG	465.64BG



Other dimensions on request. Powder coatings are made to order.
No cancellation, no return.

Safety protection especially
for ramps



Protective hoop with quarter-bent bar

round steel tube Ø 48.3 x 2.5 mm
for wall-mounting, incl. 2 tube sockets
type 443.15W for plugging down, removable,
without locking mechanism

Hot-dip galvanized

Total width	Height above ground	Approx.kg	Part-No.
700 mm	1000 mm	11.5	448.21W
1000 mm	1000 mm	13.5	448.22W
1200 mm	1000 mm	14.5	448.23W

Hot-dip galvanized and coated yellow with black stripes

Total width	Height above ground	Approx.kg	Part-No.
700 mm	1000 mm	11.5	448.21WBG
1000 mm	1000 mm	13.5	448.22WBG
1200 mm	1000 mm	14.5	448.23WBG

Protective hoop with quarter-bent bar

round steel tube Ø 60 x 2.50 mm
for wall-mounting, incl. 2 tube sockets
Type 460.15W for plugging down, removable,
without locking mechanism

Hot-dip galvanized

Total width	Height above ground	Approx.kg	Part-No.
700 mm	1000 mm	14.5	465.21W
1000 mm	1000 mm	16.5	465.22W
1200 mm	1000 mm	18,0	465.23W

Hot-dip galvanized and coated yellow with black stripes

Total width	Height above ground	Approx.kg	Part-No.
700 mm	1000 mm	14.5	465.21WBG
1000 mm	1000 mm	16.5	465.22WBG
1200 mm	1000 mm	18.0	465.23WBG



Anti-nudge hoops 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.

Anti-nudge hoop

Steel tube Ø 76 mm

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



Stationary, for casting in concrete

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



For plugging down

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

For protecting warehouse floor
(when crashed, fixation will not pull out)

Anti-nudge hoop flexible, tiltable

Steel tube Ø 76 mm

hoop with base plate 220 x 220 mm,
hot-dip galvanized, powder-coated yellow,
with black warning stripes



For plugging down

Flexible tiltable		For plugging down		Approx.kg	Part-No.
		Total width	Height above ground		
		400 mm	650 mm	12.0	477.04NPBG
		750 mm	650 mm	15.0	477.05NPBG
		1000 mm	650 mm	17.0	477.06NPBG
		400 mm	1150 mm	12.0	477.07NPBG
		750 mm	1150 mm	15.0	477.08NPBG
		1000 mm	1150 mm	17.0	477.09NPBG

For temporary opening/closing of entrances.
Locked with hexagon socket screws, the hoop
can be detached from the plates and inserted as
needed.


Anti-nudge hoop removable

Steel tube Ø 76 mm

with base plate 160 x 180 mm,
hot-dip galvanized, powder-coated yellow,
with black warning stripes



For plugging down

Removable		For plugging down		Approx.kg	Part-No.
		Total width	Height above ground		
		400 mm	650 mm	12.0	477.04APBG
		750 mm	650 mm	15.0	477.05APBG
		1000 mm	650 mm	17.0	477.06APBG
		400 mm	1150 mm	12.0	477.07APBG
		750 mm	1150 mm	15.0	477.08APBG
		1000 mm	1150 mm	17.0	477.09APBG



Anti-nudge hoops Ø 76 mm

Anti-nudge hoop 90° equal-sided

Steel tube Ø 76 mm

hot-dip galvanized and coated
yellow with black stripes



Stationary, for casting in concrete

Total width	Height above ground	Approx.kg	Part-No.
350 mm	650 mm	13.0	477.30BG
350 mm	1150 mm	19.0	477.31BG
600 mm	650 mm	16.0	477.60BG
600 mm	1150 mm	22.0	477.61BG

For plugging down

350 mm	650 mm	13.0	477.30PBG
350 mm	1150 mm	19.0	477.31PBG
600 mm	650 mm	16.0	477.60PBG
600 mm	1150 mm	22.0	477.61PBG

Anti-nudge hoop

Double hoop

Steel tube Ø 76 mm

hot-dip galvanized and coated
yellow with black stripes

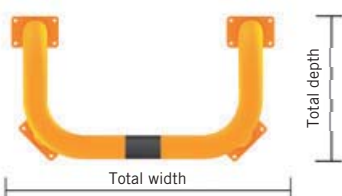
Stationary, for casting in concrete

Total width	Total depth	Height above ground	Approx.kg	Part-No.
750 mm	400 mm	650 mm	18.0	477.68BG
750 mm	400 mm	1150 mm	26.5	477.69BG
1000 mm	400 mm	650 mm	19.0	477.70BG
1000 mm	400 mm	1150 mm	29.5	477.71BG



For plugging down

750 mm	400 mm	650 mm	18.0	477.68PBG
750 mm	400 mm	1150 mm	26.5	477.69PBG
1000 mm	400 mm	650 mm	19.0	477.70PBG
1000 mm	400 mm	1150 mm	29.5	477.71PBG

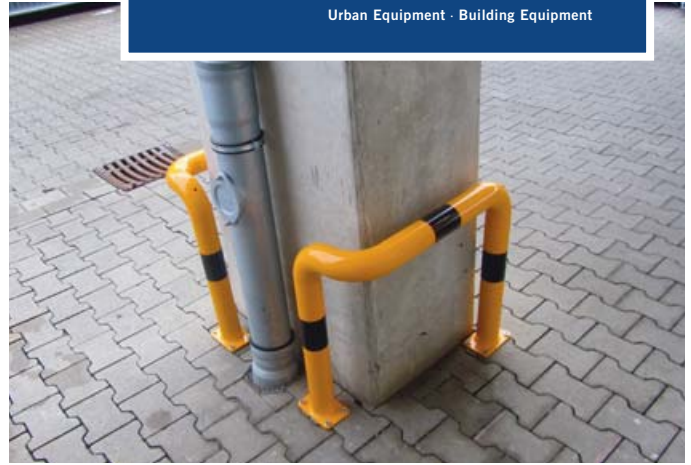


Anti-nudge hoop 90°

One sided, deep version

Steel tube Ø 76 mm

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



Total width	Total depth	Height above ground	Approx.kg	Part-No.
Stationary, for casting in concrete				
One side, right				
600 mm	350 mm	650 mm	10.5	477.76BG
600 mm	350 mm	1150 mm	15.0	477.77BG

For plugging down

One side, right				
600 mm	350 mm	650 mm	10.5	477.76PBG
600 mm	350 mm	1150 mm	15.0	477.77PBG



Stationary, for casting in concrete

One side, left				
600 mm	350 mm	650 mm	10.5	477.78BG
600 mm	350 mm	1150 mm	15.0	477.79BG

For plugging down

One side, left				
600 mm	350 mm	650 mm	10.5	477.78PBG
600 mm	350 mm	1150 mm	15.0	477.79PBG

Anti-nudge hoop double-sided, deep version

Steel tube Ø 76 mm

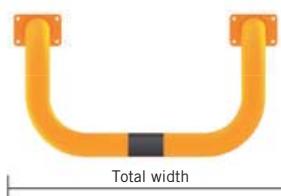
hot-dip galvanized and coated
yellow with black stripes

Stationary, for casting in concrete

Total width	Total depth	Height above ground	Approx.kg	Part-No.
750 mm	350 mm	650 mm	11.0	477.72BG
1000 mm	350 mm	650 mm	12.0	477.73BG
750 mm	350 mm	1150 mm	15.5	477.74BG
1000 mm	350 mm	1150 mm	16.5	477.75BG



For plugging down



For plugging down				
750 mm	350 mm	650 mm	11.0	477.72PBG
1000 mm	350 mm	650 mm	12.0	477.73PBG
750 mm	350 mm	1150 mm	15.5	477.74PBG
1000 mm	350 mm	1150 mm	16.5	477.75PBG



Crash guard

Safety protection for posts, pillars, poles, etc.

Anti-nudge hoop for posts

steeltube construction with 2 hoops Ø 60 mm with welded-on cross-bars for nesting for plugging down, with base plates 100 x 150 mm, hot-dip galvanized, powder-coated yellow, with black warning stripes



For plugging down

Total width	Total depth	Height above ground	Approx.kg	Part-No.
600 mm	600 mm	650 mm	20.5	465.066PBG
800 mm	800 mm	800 mm	22.5	465.068PBG

Crash guard with underrun guard

prevents underrunning of platform floor trucks and protects from fork trucks



Protection hoops, Steel tube Ø 76 mm

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

For plugging down

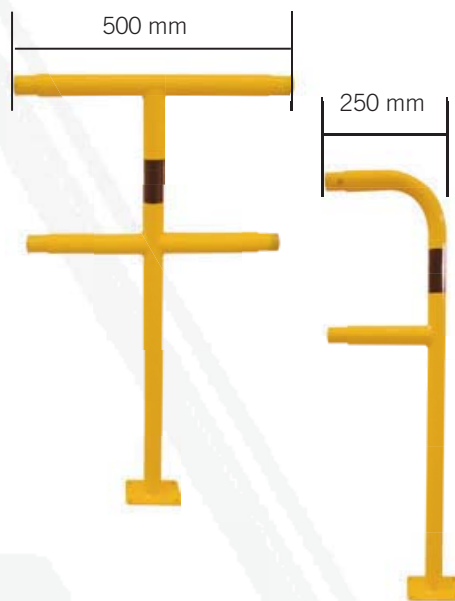
Total width	Height above ground	Approx.kg	Part-No.
750 mm	650 mm	12.0	477.32BG
1000 mm	650 mm	16.5	477.33BG

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

Protective railing

Steel tube Ø 48 mm

variable connection, for plugging down,
Base plate 100 x 150 mm,
Height 1000 mm, hot-dip galvanized,
powder-coated yellow, with black warning
stripes



Approx.kg

Part-No.

End post	3.5	448.80PBG
Middle post	4.0	448.81PBG
Corner post	4.0	448.815PBG

Cross bar

Steel tube Ø 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 mounting bolts see page 171. Protective railings are manufactured to order. Orders cannot be cancelled, posts cannot be returned.



Protective hoops

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



4270PBG



4271PBG



4273PBG

End post for top and knee bar
Middle post for top and knee bar
Corner post for top and knee bar 90°

Approx.kg

6.5
7.0
7.0

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

4270PBG
4271PBG
4273PBG

Cross bar

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



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



The crossbars are simply placed in the fixed post holders and bolted together (can also be used as temporary protection without bolts) also available in white/red; see barrier elements.

Protective railing, tiltable, elastic compensates impacts without being torn out of the floor

Protective railing for plugging down flexible, tiltable, with top and knee bars

Fixed post Steel tube 70 x 70 mm, with base plate 220 x 220 mm, hot-dip galvanized and coated yellow with black stripes height above ground 1000 mm



4270NPBG 4271NPBG



	Approx.kg	Part-No.
End post for top and knee bar	9.5	4270NPBG
Middle post for top and knee bar	10.0	4271NPBG

Protective railing for plugging down removable for temporary opening of access routes

Fixed post
Steel tube 70 x 70 mm,
Base plate for temporary opening
150 x 180 mm, hot-dip galvanized and
coated yellow with black stripes
height above ground 1000 mm



4270APBG 4271APBG 4273APBG



	Approx.kg	Part-No.
End post for top and knee bar	9.5	4270APBG
Middle post for top and knee bar	10.0	4271APBG
Corner post for top and knee bar 90°	10.0	4273APBG

Cross bar

Steel tube 60 x 40 mm,
hot-dip galvanized and coated yellow with black stripes
incl. fastening bolts
see also page 286



Crash guard

To protect shelves and storage racks. The new crash guard can be tilted 15°. This compensates impacts from fork trucks or other vehicles without damage or being torn out of the floor (*up to 400Nm pressure*).

Crash guard angle

acc. to BGR234

for individual use

(warehouse equipment, rack or shelf supports, etc.)



*Compensates impacts from fork lift trucks.
Bolts will not tear out of the floor.*



Crash guard, flexible

Steel plate 5 mm thick, yellow powder-coated with black stripes, for plugging down, height 400 mm
leg length 160 mm
tilting angle 15°

Approx.kg

Part-No.

6.0

477.89BG

Crash guard angle

Steel plate 5 mm thick, powder-coated yellow with black stripes (loose supply), for plugging down, leg length 160 mm



Height 200 mm
Height 400 mm
Height 800 mm
Height 1200 mm



Approx.kg

Part-No.

3.5

477.84B

4.5

477.85B

9.0

477.86B

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



Height 400 mm
Height 800 mm
Height 1200 mm



Approx.kg

6.0
11.0
17.0



Part-No.

477.90B
477.96B
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



Height 400 mm

11.5

477.91B



Anti-nudge bar

Secures transportation routes.
Stops and protects.

Anti-nudge bar

Round steel tube Ø 76 mm,
for plugging down
with chamfered ends,
base plates 200 x 50 x 10 mm,
powder-coated yellow with black
stripes, stops and protects



Total width	Height above ground	Approx.kg	Part-No.
400 mm	86 mm	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

Corner - anti- nudge bar

Round steel tube Ø 76 mm,
for plugging down
base plates 200 x 50 x 10 mm,
powder-coated yellow with black
stripes



Total width	Height above ground	Approx.kg	Part-No.
700 x 700 mm	86 mm	11.0	477.50BG

Anti-nudge hoop

Round steel tube Ø 60 mm,
for plugging down
base plates 100 x 150 mm,
powder-coated yellow with black
stripes



Total width	Height above ground	Approx.kg	Part-No.
400 mm	115 mm	3.0	477.34BG
1000 mm	115 mm	5.5	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 width	Height above ground	Approx.kg	Part-No.
400 mm	150 mm	7.0	477.44BG
800 mm	150 mm	14.0	477.45BG
1000mm	150 mm	18.0	477.46BG
1200 mm	150 mm	21.5	477.47BG
1500 mm	150 mm	27.0	477.48BG

Safety handles

Steel tube Ø 48 mm,

for openings in walls and staircase areas

**U-shape hoop**

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

Height	Depth	Approx.kg	Part-No.
1200 mm	250 mm	5.5	477.801BG
2000 mm	250 mm	7.5	477.802BG



Articles are manufactured by order.



Chain post

Barrier posts

Stainless steel

Barrier elements

Barrier gates

Outdoor equipment

Work site protection



460KBS

Movable chain post as temporary barrier, with high stability for quick setup, can be used outdoors or indoors. Post easy to separate from foot. Simple installation and space-saving storage.

Chain post, heavy

of 60 mm round tube with welded steel cap and eyelets for attaching the chain, height 900 mm, hot-dip galvanized and yellow coated with three black stripes, with foot plate of recycled material 400 x 400 x 100 mm, removable

Approx.kg

Part-No.

15.0

460KBS



4040KBS

Plastic chain post

Light-weight chain post of plastic material for quick barrier installation, including triangular plastic foot, side length 300 mm, filled with concrete. Plastic tube Ø 40 mm, height 900 mm, with 4 chain holders integrated in the cap

Yellow / black

3.0

4040KBS



4041KBS

Plastic chain post

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

Yellow / black

2.0

4041KBS

Chain post set

Version: 6 plastic posts Ø 40 mm, with 4 chain holders integrated in the cap, 10 m plastic chain, 10 connecting links, with concrete filled triangular plastic 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

For outdoor or indoor



Also available in red/white and in white/red; see Barrier posts / barrier chains page 162.

Barrier chain of steel, unwelded

Wire thickness 7 mm, packing unit 10 m



Hot-dip galvanized	Approx.kg/m	Part-No.
Galvanized and yellow / black coated	0.9	430.10
	0.9	430.20B

S hook

Galvanized	430.11
Galvanized and yellow coated	430.11BG
Galvanized and black coated	430.11BS

Connection link

Galvanized	430.09
Galvanized and yellow coated	430.09BG
Galvanized and black coated	430.09BS

Shackle

Galvanized	430.12
Galvanized and yellow coated	430.12BG
Galvanized and black coated	430.12BS

Plastic barrier chain

6 mm thick, packing unit 25 m



Approx.kg/Unit	Part-No.
Yellow / black	430.06

Plastic connection link

Yellow, 6 mm thick	430.07G
Black, 6 mm thick	430.07S

Plastic hook link

Yellow, 6 mm thick	430.08G
Black, 6 mm thick	430.08S

Plastic barrier chain

8 mm thick, packing unit 25 m



Approx.kg/Unit	Part-No.
Yellow / black	430.30

Plastic connection link

Yellow, 8 mm thick	430.16G
Black, 8 mm thick	430.16S

Plastic hook link

Yellow, 8 mm thick	430.17G
Black, 8 mm thick	430.17S





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.

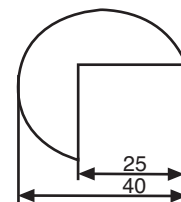
Warning and protection profiles yellow / black – 1000 mm / 5000 mm

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	
Type R50	4114	

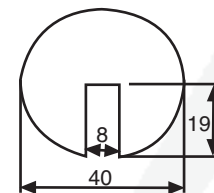
Corner protections for black warning and protection profiles

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

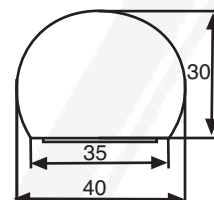
Corner protection type A



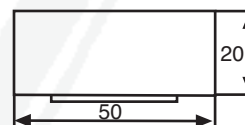
Edge protection type B



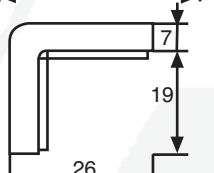
Area protection type C



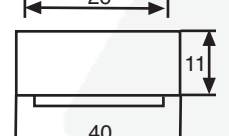
Area protection type D



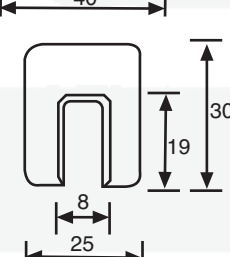
Corner protection type E



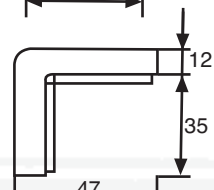
Area protection type F



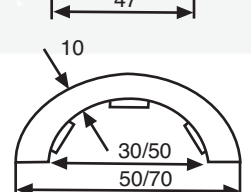
Edge protection type G



Corner protection type H



Tube protection type R30
Internal size 30 mm



Barrier posts

Stainless steel

Barrier elements

Barrier Gates

Outdoor equipment

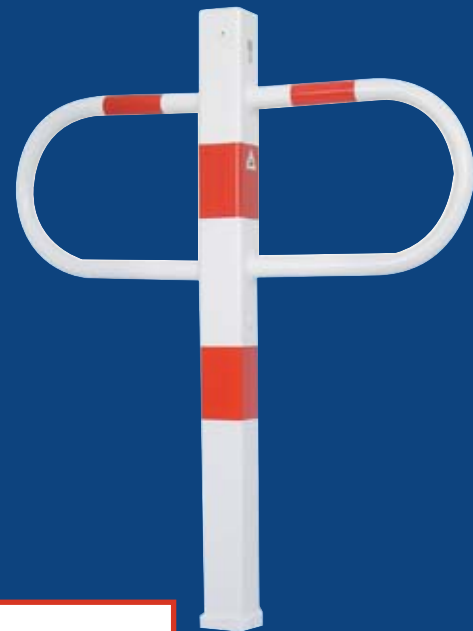
Work Site Protection

Schake

Urban Equipment · Building Equipment



Building Equipment



Urban Equipment

Schake

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