





## The Company

The traditional company Schake GmbH was founded as a blacksmith and cart smithy by Johann Schake in Wetter Volmarstein in 1908. The manufacture of building hardware started already in the early years of the company. The founder's son, Alfred Schake, took over the firm in 1938 and expanded the smithy and the manufacture of accessory items for the installation of water hydrants. In the early 1960s the sons reorganized the traditional company and focused on the production of building equipment and blocking technology.

For many years, the firm was managed and expanded as a family enterprise by the grandsons of the founder. The fourth generation took over in 2008 and continues the successful combination of tradition and progress.

The Company's name is a synonym of progress, customer focus and quality. After 50 years, the company moved from Wetter to a new site in Gevelsberg, where the production area was expanded. The sites in Gevelsberg were maintained for almost 30 years, until 1990. In that year, the whole firm moved once more, to Hagen because there was a chance of using further production and warehousing areas.

To this day, the headquarters of Schake GmbH have been in Hagen. In the last five years, more storage halls were built at the original site of the company in Wetter Volmarstein. These were necessary to comply with the needs of the modern market.

We have to put up with changes that we cannot control every day, but we also expect that many features of a company should better remain the way they have always been.

We as producer live up to what we do, rely on production based in Germany, develop and manufacture for individual requirements. We come in where these requirements are not run-of-the mill, where our customers expect professional advice on which they can rely.

There is more to a good product than just technology; it needs the right people with the right competences in different areas, who join hands with our partners and are ready to take over responsibility.

Many products we make at the different production sites are firmly integrated in the market. However, as the safety requirements within towns and cities, on cycle paths and footpaths and on construction sites are becoming increasingly more complex and require a high level of professionalism, we make our experience and flexible capabilities available to our customers to develop perfect solutions quickly.

## Schake -Process-management-system:

### Development

An idea for the needs of the business partner is the starting point of any product development. With the focus on the customers, we search for solutions for the different applications and a sophisticated market. The constantly growing and changing requirements are motivation for us to move ahead and not allow innovation to stop.

### Production

In-house production is a typical feature of this company. Our core competence is production with strong focus on the customer. The rapid requirements of the market are a major stimulus for the company and Germany as production site. We invest in most up-to-date production equipment because Germany occupies a central place as source of supply and plays an important part as driver of production in the European states.

### Warehousing

Prompt delivery is often the decisive basis for long-term business relations today. Distributors can rely on an ever wider range of products from Schake. Not only the availability of finished goods is important to customers, also stocks of components and semi-finished products are built in time to be able to deliver orders for special design products.



# Building equipment

Page 04-119

Road construction  
Event  
Mobile fence  
Building construction  
Civil engineering  
Storage technology  
Transport equipment  
Transport securing



# Blocking technology

Page 120-244

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



## Consultation

Contact partner with competence and friendliness encourages customers to establish lasting business relations. Our employees are versed in technical details and can provide extensive consultation services. We like talking to customers on phone; meeting them personally is what we appreciate even more. Extensive qualification and training courses are organized for our sales partners to enable field service staff to respond to questions they are asked quickly and competently.

## Transportation

Today, many consignments are shipped from the factory directly to the target site; this saves time and cost. Close co-operation with leading forwarding agents and the possibility of transporting goods by our own trucks make it possible to deliver truckloads to customers within shortest time. All general cargo shipments are traced electronically so that we can tell you at any time where the goods are and when they will arrive.

## After-sales-service

We are open to questions and suggestions also after the goods have been shipped from the factory. Our staff is by your side also after the goods have been sold to you. This company wants to establish and maintain relations with customers and suppliers on a long-term basis as this benefits all involved. Besides, the information you give us is important so that we can ensure the continuity of relations through targets we share with you.



## Road construction - pages 06 - 41

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



## Event - pages 42 - 49

Crowd barrier  
Police barrier  
Walkway system



## Mobile fences - pages 50 - 63

Mobile fence  
Mobile fence base plate  
Storage and transport pallet  
Accessories



## Building construction - pages 64 - 87

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**

Trench shoring  
Wooden trench bridge  
Aluminium trench bridge  
Special construction

**Storage technology - pages 96 - 101**

Stackable pallet  
Solid wall pallet  
Mesh box  
Special construction

**Transport equipment - pages 102 - 111**

Wheelbarrow  
Hand truck  
Crane and loading fork

**Transport securing device - pages 112 - 118**

Lashing strap  
Endless sling  
Lifting sling  
Covering net



## Road construction - pages 06 - 41

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





## ... our advantages

### The Schake-Euro1 panel fence

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

The competence of this company has grown from tradition. The improvement of products and service 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 satisfy the requirements of TL barrier fences, including fall arresters.

### Rely on our experience.



**Higher stability and less weight due to optimum input of materials**



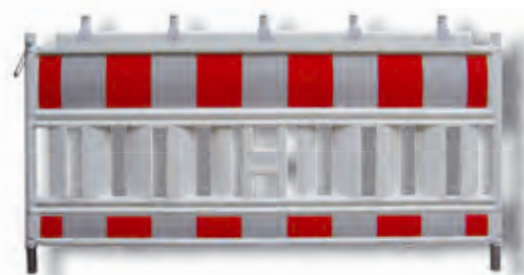
**Integrated carrying handle for better handling**



**Larger advertising area for customer logos**  
Size of the advertising area:  
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

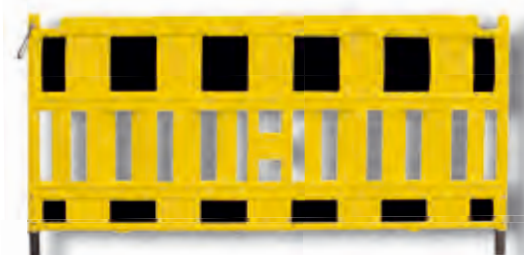
tested according to TL blocking technology 97,  
length 2.00 m, complies with ZTV-SA requirements,  
optionally with assembled lamp adapters

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   |

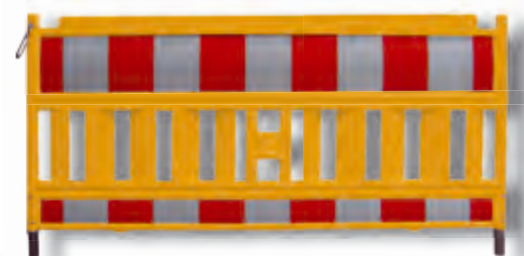
| Film RA2                                 | Part-No. | kg   | Unit |
|--|----------|------|------|
| without lamp adapter, red / white        | 33420K2  | 14.5 | 20   |
| with assembled lamp adapter, red / white | 33420KA2 | 16.0 | 20   |



## Schake-Euro1 panel fence, type INDUSTRIE

of ultraviolet-resistant, impact resistant plastic  
with film RA1 (no TL test)

| Part-No.                                      | kg       | Unit       |
|---|----------|------------|
| without lamp adapter, yellow RAL 1003 / black | 33420K-I | 14.5<br>20 |



## Schake-Euro1 panel fence, type BASIC ORANGE

of ultraviolet-resistant, impact resistant plastic  
with film RA1 (no TL test)

| Part-No.                              | kg       | Unit       |
|---------------------------------------|----------|------------|
| without lamp adapter, orange RAL 1003 | 33420K-O | 14.5<br>20 |



## Schake-Euro1 panel fence, type MEDIUM

of ultraviolet-resistant, impact resistant plastic  
with film RA1 (no TL test)

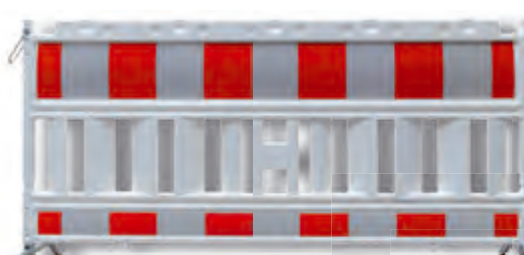
| Part-No.      | kg     | Unit       |
|---------------|--------|------------|
| Length 2.00 m | 33520K | 12.0<br>20 |



## Schake-Euro1 panel fence, type LIGHT

of ultraviolet-resistant, impact resistant plastic  
with film RA1 (no TL test)

| Part-No.      | kg     | Unit       |
|---------------|--------|------------|
| Length 2.00 m | 33620K | 11.0<br>20 |

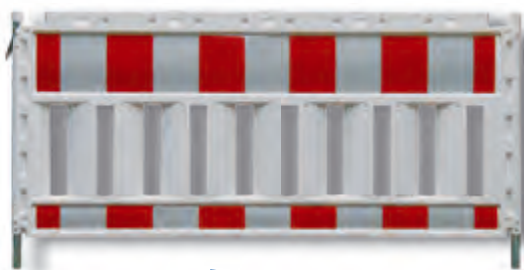


## Schake-Euro1 panel fence, 2.00 m, with steel foot, pivotable

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

| Part-No.      | kg      | Unit       |
|---------------|---------|------------|
| Length 2.00 m | 33420KF | 18.0<br>10 |





### 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

| with film RA1               | Part-No. | kg   | Unit |
|-----------------------------|----------|------|------|
| Length: 1.20 m              | 33312K   | 8.0  | 20   |
| Length: 1.60 m              | 33316K   | 10.0 | 20   |
| Length: 2.40 m (no TL test) | 33324K   | 14.0 | 20   |

| with film RA2               | Part-No. | kg   | Unit |
|-----------------------------|----------|------|------|
| Length: 1.20 m              | 33312K2  | 8.0  | 20   |
| Length: 1.60 m              | 33316K2  | 10.0 | 20   |
| Length: 2.40 m (no TL test) | 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

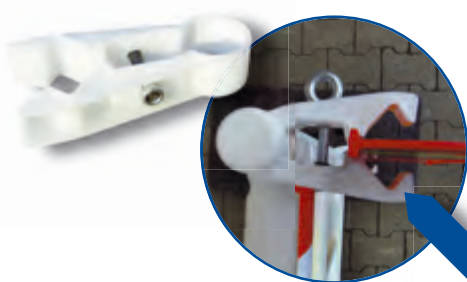
|                | Part-No.  | kg   | Unit |
|----------------|-----------|------|------|
| without film   | 33320KRF  | 12.5 | 10   |
| with film RA 1 | 33320KDRF | 13.0 | 10   |



### Adapter for panel fence to TL

for all common lamp types, incl. locking screw

|         | Part-No. | kg   | Unit |
|---------|----------|------|------|
| Plastic | 33325    | 0.12 | 5    |



### Connecting clamp (patented)

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

| Part-No. | kg  | Unit |
|----------|-----|------|
| 3VB20    | 0.5 | 1    |

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    |

Film dimensions: 800 x 200 mm

Traffic panel dimensions: 1000 x 230 mm

Panel fence



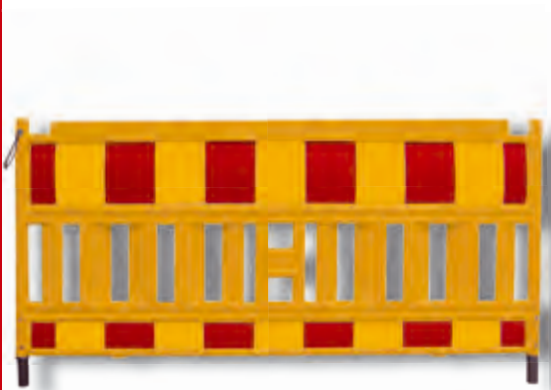
Schake-Euro1 panel fence, type BASIC

of ultraviolet-resistant, impact resistant plastic, length 2.00 m

| Film RA 1                                 | 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 BASIC ORANGE

of ultraviolet-resistant, impact resistant plastic, length 2.00 m

| Film RA1                                  | Part-No.    | kg   | Unit |
|---|-------------|------|------|
| without lamp adapter, red / yellow        | 33420KSK-O  | 14.5 | 20   |
| with assembled lamp adapter, red / yellow | 33420KASK-O | 16.0 | 20   |

| Film RA2                                  | Part-No.     | kg   | Unit |
|---|--------------|------|------|
| without lamp adapter, red / yellow        | 33420K2SK-O  | 14.5 | 20   |
| with assembled lamp adapter, red / yellow | 33420KA2SK-O | 16.0 | 20   |

| Film RA3                                  | Part-No.     | kg   | Unit |
|---|--------------|------|------|
| without lamp adapter, red / yellow        | 33420K3SK-O  | 14.5 | 20   |
| with assembled lamp adapter, red / yellow | 33420KA3SK-O | 16.0 | 20   |



Schake-Euro1 panel fence, type SK

of ultraviolet-resistant, impact resistant plastic, length 1.20 m or 1.60 m

| Film RA1       | color        | Part-No. | kg   | Unit |
|----------------|--------------|----------|------|------|
| Length: 1.20 m | red / yellow | 33312KSK | 8.0  | 20   |
| Length: 1.60 m | red / yellow | 33316KSK | 10.0 | 20   |
| Length: 2.40 m | red / yellow | 33324KSK | 14.0 | 20   |

| Film RA2       | Part-No.  | kg   | Unit |
|----------------|-----------|------|------|
| Length: 1.20 m | 33312K2SK | 8.0  | 20   |
| Length: 1.60 m | 33316K2SK | 10.0 | 20   |
| Length: 2.40 m | 33324K2SK | 14.0 | 20   |



Traffic panel flat (also for mobile fence)

film on both sides, made of plastic  
traffic panel dimensions: 1000 mm x 230 mm  
film dimensions: 800 mm x 200 mm

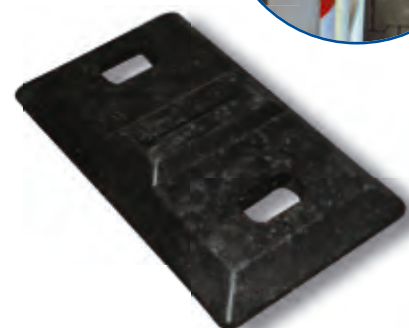
| Film RA1     | Part-No.  | kg  | Unit |
|--------------|-----------|-----|------|
| red / yellow | 36050SK   | 1.5 | 1    |
| Film RA2     | Part-No.  | kg  | Unit |
| red / yellow | 36050/2SK | 1.5 | 1    |
| Film RA3     | Part-No.  | kg  | Unit |
| red / yellow | 36050/3SK | 1.5 | 1    |



**Connecting clamp (patented)**

for all types of traffic panels, incl. screw closure, plastic

| Part-No. | kg  | Unit |
|----------|-----|------|
| 3VB20    | 0.5 | 1    |

**SK base plate**

for setting up flat markers. Made of recycled plastic material, with carrying handle for easy handling, pockets: 1 slot for flat traffic panels, width: 6 mm, length: 230 mm, dimensions: width: 395 mm, length: 685 mm, height: 100 mm

| Part-No. | kg   | Unit |
|----------|------|------|
| 31995    | 17.0 | 50   |

**Plastic traffic panel type 60**

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

| Film RA1, hatched                     | Part-No. | kg  | Unit |
|---------------------------------------|----------|-----|------|
| on both sides indicating right / left | 36055SK  | 2.0 | 60   |

| Film RA2, hatched                     | Part-No.  | kg  | Unit |
|---------------------------------------|-----------|-----|------|
| on both sides indicating right / left | 36055/2SK | 2.0 | 60   |

| Film RA3, hatched                     | Part-No.  | kg  | Unit |
|---------------------------------------|-----------|-----|------|
| on both sides indicating right / left | 36055/3SK | 2.0 | 60   |

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

for fencing off and securing event sites, galvanized steel construction of Ø 33.7 mm round tube, several elements can be connected with each other, two feet ensure high stability of the fence, total height: 1.10 m, sturdy vertical bars for safe fencing off, with an extra riveted metal panel with red / yellow adhesive film marking

|                                  | Part-No.   | kg   | Unit |
|----------------------------------|------------|------|------|
| Film RA1 Length: 2.00 m, 14 bars | 419.011SK  | 16.0 | 10   |
| Film RA1 Length: 2.50 m, 18 bars | 419.010SK  | 18.0 | 10   |
| Film RA2 Length: 2.00 m, 14 bars | 419.011SK2 | 16.0 | 10   |
| Film RA2 Length: 2.50 m, 18 bars | 419.010SK2 | 18.0 | 10   |

**Crowd barrier type D**

for fencing off and securing event sites, galvanized steel construction of Ø 33.7 mm round tube, several elements can be connected with each other, two removable flat steel feet for easy positioning of the fence, total height: 1.10 m, sturdy vertical bars for safe fencing off, with an extra riveted metal panel with red / yellow adhesive film marking

|                                  | Part-No.     | kg   | Unit |
|----------------------------------|--------------|------|------|
| Film RA1 Length: 2.00 m, 14 bars | 419.001SESK  | 16.0 | 25   |
| Film RA1 Length: 2.50 m, 18 bars | 419.00SESK   | 18.0 | 25   |
| Film RA2 Length: 2.00 m, 14 bars | 419.001SESK2 | 16.0 | 25   |
| Film RA2 Length: 2.50 m, 18 bars | 419.00SESK2  | 18.0 | 25   |

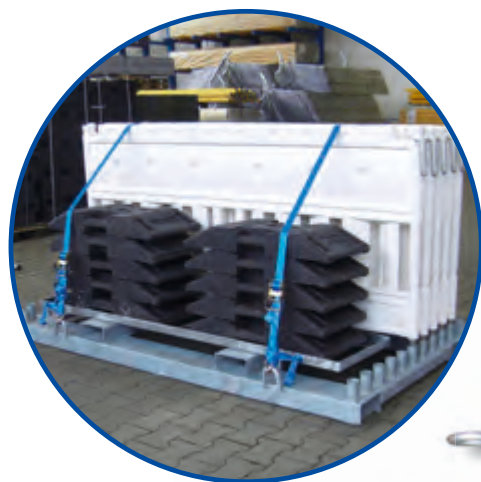


### Foot plate cross member

sturdy steel construction, use in combination with the storage and transport pallet (Part-No. 32000). Easy to install, no screws. The cross member holds up to 16 K1 foot plates (Part-No.: 31991). When the cross member is installed, the storage capacity of the storage and transport pallet is reduced to 10 panel fences. The 10 panel fences positively hold the top part 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    |



### Complete set

consisting of: 1 storage and transport pallet (Part-No. 32000), 1 base plate cross member (Part-No. 32000-A), 10 Schake Euro1 panel fence, type BASIC (Part-No. 33420K), 11 TL-base plate to K1 (Part-No. 31991), 2 lashing strap, 2-parts, with clamping lock (Part-No. 50352-4), delivered complete packed.

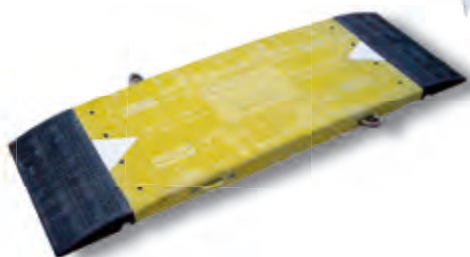
|     | Part-No.   | kg    | Unit |
|-----|------------|-------|------|
| Set | 33420KSET1 | 575.0 | 1    |



### Snow iron

for snow pole with welded tip, incl. retaining rings, inside diameter Ø 50 mm with allen screw 715 mm long

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 301407V  | 1.5 | 10   |



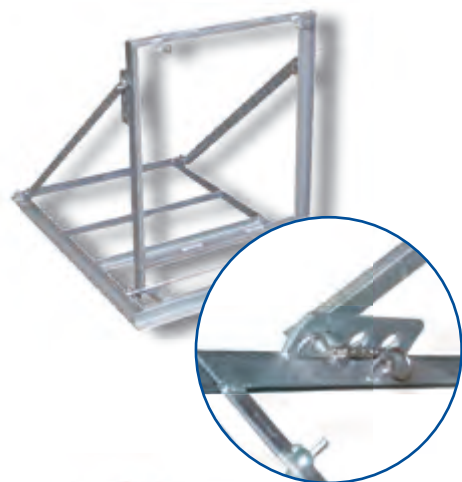
### Plastic trench bridge

Plastic trench bridge element, 1500 mm x 500 mm, suitable for up to 44 t load, several elements can be connected by steel clamps, single-wheel load: 6 t with 700 mm trench width, anti-skid surface for safety

|              | Part-No. | kg   | Unit |
|--------------|----------|------|------|
| Center piece | 20260    | 44.0 | 20   |
| End piece    | 20260E   | 23.0 | 20   |





**Battens stand, galvanized**

sturdy welded steel construction, foldable for space-saving transport and storage, position fixed by chain and split pin, wood battens can be inserted vertically in the hoops, width: 750 mm, length: 1025 mm, set-up height: 835 mm, the wood battens can be fixed by screws, with welded hooks for site lamps

|                        | Part-No. | kg   | Unit |
|------------------------|----------|------|------|
| for 3 vertical battens | 35306    | 24.0 | 14   |
| for 4 vertical battens | 35307    | 27.0 | 14   |

**Stand for cordoning battens, galvanized**

made of steel tube Ø 42.4 x 2 x 990 mm with welded hoops for the battens. Site lamps can be hung in notched plate

|               | Part-No. | kg  | Unit |
|---------------|----------|-----|------|
| for 2 battens | 11279V   | 2.3 | 50   |
| for 6 battens | 11280V   | 3.2 | 50   |

**Batten post Ø 20 x1400 mm**

reinforcing steel with welded tipp for driving into the ground, for fencing off site areas together with barrier tape or wooden battens

|  | Part-No.  | kg  | Unit |
|--|-----------|-----|------|
| without batten holder painted red        | 302214R   | 2.4 | 250  |
| with 1 batten holder painted red / white | 302214RH1 | 2.6 | 250  |
| with 2 batten holder painted red / white | 302214RH2 | 2.8 | 250  |
| with 2 hooks, galvanized                 | 302214V2  | 2.8 | 250  |

**Sign board stand with lamp holder and foot grate, galvanized**

steel construction of round tube Ø 33.7 mm, with sturdy flat irons, suitable for sign board posts, with welded pipe socket Ø 42.4 x 2.9 x 200 mm with winged screw for fastening sign boards, including lamp holder, foldable for transport

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 353041   | 7.0 | 25   |

**Sign holder**

used together with sign board stand and a sign tube, the wing screw fixes the sign holder to the tube, 1 sign holder above and below the sign maintain the sign in the required position.

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 31310S   | 0.5 | 25   |

# Panel fence



## Plastic panel fence Euro

of ultraviolet-resistant, impact resistant plastic with film RA1  
length 1.20 m to 2.00 m, tested according to TL blocking technology 97,  
complies with ZTV-SA requirements, test number 333/04K

|                                  | Part-No.  | kg   | Unit |
|----------------------------------|-----------|------|------|
| Length: 1.20 m, indicating right | 33312KSBR | 8.0  | 20   |
| Length: 1.60 m, indicating right | 33316KSBR | 10.0 | 20   |
| Length: 2.00 m, indicating right | 33320KSBR | 12.0 | 20   |
| Length: 2.40 m, indicating right | 33324KSBR | 14.0 | 20   |
| Length: 1.20 m, indicating left  | 33312KSBL | 8.0  | 20   |
| Length: 1.60 m, indicating left  | 33316KSBL | 10.0 | 20   |
| Length: 2.00 m, indicating left  | 33320KSBL | 12.0 | 20   |
| Length: 2.40 m, indicating left  | 33324KSBL | 14.0 | 20   |



## Plastic panel fence Euro

of ultraviolet-resistant, impact resistant plastic with film RA1,  
length 1.20 m to 2.00 m, tested according to TL blocking technology 97,  
complies with ZTV-SA requirements, test number 333/04K

|                                  | Part-No. | kg   | Unit |
|----------------------------------|----------|------|------|
| Length: 1.20 m, indicating right | 33312KBR | 8.0  | 20   |
| Length: 1.60 m, indicating right | 33316KBR | 10.0 | 20   |
| Length: 2.00 m, indicating right | 33320KBR | 12.0 | 20   |
| Length: 2.40 m, indicating right | 33324KBR | 14.0 | 20   |
| Length: 1.20 m, indicating left  | 33312KBL | 8.0  | 20   |
| Length: 1.60 m, indicating left  | 33316KBL | 10.0 | 20   |
| Length: 2.00 m, indicating left  | 33320KBL | 12.0 | 20   |
| Length: 2.40 m, indicating left  | 33324KBL | 14.0 | 20   |

## Barricade panel to TL

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



|                               | Part-No. | kg  | Unit |
|-------------------------------|----------|-----|------|
| Length: 1.20 m, Height 100 mm | 32012    | 1.5 | 2    |
| 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: 1.20 m, Height 250 mm | 33122    | 4.0 | 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    |

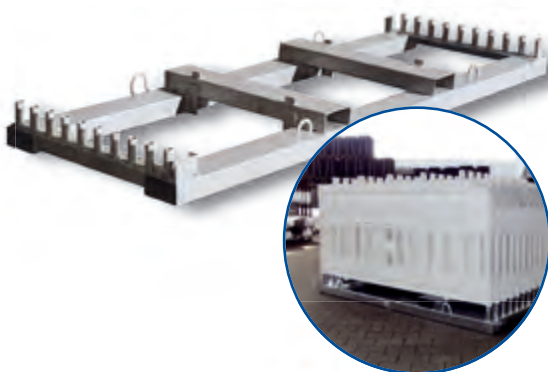
## Panel fence to TL

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   |

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 truck 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    |



### Stackable pallet for transportation of 20 panel fence

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

|            | Part-No. | kg   | Unit |
|------------|----------|------|------|
| galvanized | 32001    | 67.0 | 5    |



### TL base plate to K1 30 kg

for installation of panel fences, vertical tubes or site fences. Made of recycled plastic material, with lateral carrying handles for ease of handling:

1 pocket: 40 mm x 40 mm, 1 pocket: 60 mm x 60 mm and 2 pockets: Ø 42 mm, Dimensions: Width: 400 mm, length: 800 mm, height: 120 mm

|                   | Part-No. | kg   | Unit |
|-------------------|----------|------|------|
| Plastic recycling | 31991    | 30.0 | 30   |

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



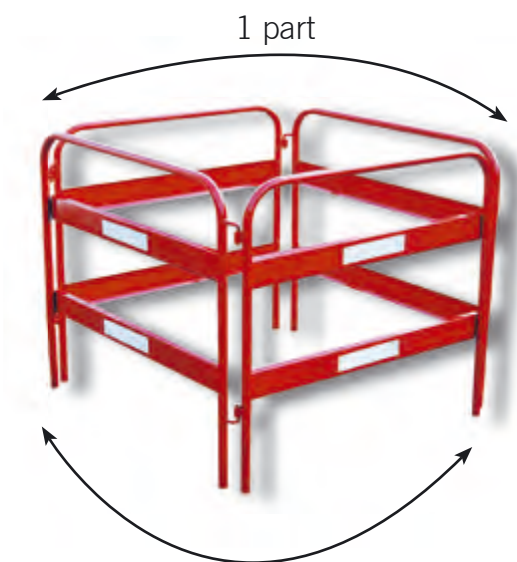
### Stackable pallet for base plates

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 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 foot plates is part of the supply

|            | Part-No. | kg   | Unit |
|------------|----------|------|------|
| painted    | 50380    | 32.0 | 1    |
| galvanized | 50380V   | 32.0 | 1    |



Shaft safety guard



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 of grating 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 of grating is possible simply by adding further elements.

|                         | Part-No. | kg    | Unit |
|-------------------------|----------|-------|------|
| 1.00 m x 1.00 m, 2-part | 34600    | 68.0  | 1    |
| 1.60 m x 1.60 m, 2-part | 34601    | 86.0  | 1    |
| 2.00 m x 2.00 m, 2-part | 34602    | 104.0 | 1    |

1 element (part) consists of two foldable grates connected by hinges



Folding barrier

designed for universal use, simple and set up immediately, space-saving storage by folding the riveted flat bars (30 mm x 5 mm) together, for warning, 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 | 35500    | 24.0 | 1    |
| can be extended to 3.50 m | 35510    | 26.0 | 1    |



Warning sign holder

for use in road traffic, traffic signs can be fastened by bolts, for round traffic signs available 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

|            | Part-No. | kg   | Unit |
|------------|----------|------|------|
| coated red | 35100    | 9.5  | 5    |
| galvanized | 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 should make available and new regulations easier to understand and help their interpretation. To make 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 make using the manual easier.

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.

## 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 28.



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

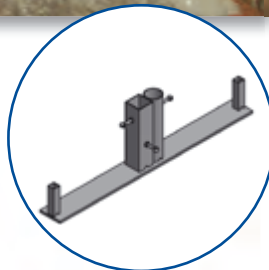
[www.schake.info](http://www.schake.info)

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

| Part-No. | kg  | Unit |
|----------|-----|------|
| 3RSA     | 0.5 | 1    |



# Sign holder

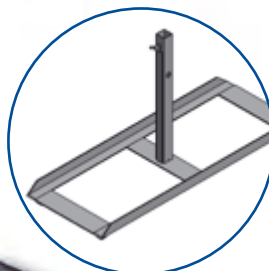


## Sign holder type W

tube holders for shaft tubes of 40 mm x 40 mm and 60 mm x 60 mm as well as round tubes up to Ø 60 mm. Very easy handling due to light weight and small size. Several tubes can be held securely by adjusting screws. The base plates can be put on the pipe socket right or left. Two foot plates can be fitted. Basic size: 960 mm x 100 mm

galvanized

| Part-No. | kg   | Unit |
|----------|------|------|
| 35304W   | 11.0 | 1    |

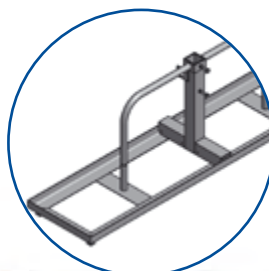


## Sign holder to TL type K

for shaft tubes of 40 mm x 40 mm. Several tubes can be held securely by 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 securely the vertical bar. Basic size: 1200 mm x 450 mm. Weight class K4. For installation, please refer to ZTV-SA

galvanized

| Part-No. | kg   | Unit |
|----------|------|------|
| 35304    | 16.4 | 1    |



## 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

galvanized

| Part-No. | kg   | Unit |
|----------|------|------|
| 35301    | 23.0 | 1    |

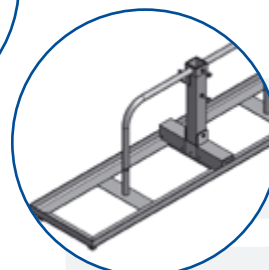


## Sign holder to TL type U

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

galvanized

| Part-No. | kg   | Unit |
|----------|------|------|
| 35305    | 24.0 | 1    |



Base plates are not part of the delivery. Please order foot plates separately.



**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 permits 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 fixed by the frame. Can hold up to 6 foot plates. Basic size: 880 mm x 990 mm

galvanized

| Part-No. | kg   | Unit |
|----------|------|------|
| 35304S   | 32.0 | 1    |

**Sign holder type T2**

sign holder for round tubes up to Ø 60 mm. Collapsible construction for simple and space-saving transportation and very compact storage. The bottom foot plate on each side is held by the angle iron frame. Holds up to 2 foot plates. Basic size: 920 mm x 820 mm.

galvanized

| Part-No. | kg   | Unit |
|----------|------|------|
| 353012   | 17.0 | 1    |

**Sign holder type T4**

sign holder for round tubes up to Ø 60 mm. Collapsible construction for simple and space-saving transportation and very compact storage. The two bottom foot plates lying side by side are held by the angle iron frame. Holds up to 4 foot plates. Basic size: 1720 mm x 820 mm

galvanized

| Part-No. | kg   | Unit |
|----------|------|------|
| 353014   | 28.0 | 1    |

Foot plates are not part of the delivery.  
Please order foot plates separately.

**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. Total height: 2.10 m

galvanized

| Part-No. | kg   | Unit |
|----------|------|------|
| 35300    | 11.0 | 1    |

**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. Total height: 2.10 m

galvanized

| Part-No. | kg   | Unit |
|----------|------|------|
| 35312    | 10.0 | 1    |

## Sign holder

**Ground peg type standard 40 to TL**

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

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 35302    | 5.0 | 1    |

**Ground peg type standard 60 to TL**

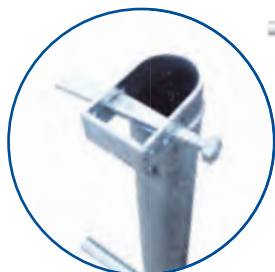
for inserting 60 mm x 60 mm shaft tubes and Ø 60 mm sign pole. Pointed T profile, with welded plate for driving the peg in the ground. Troughed sheet protects the peg from torsion. 2 adjusting screws hold the shaft tube in the peg. Driving depth: 460 mm

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 35303    | 8.0 | 1    |

**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 | 1    |



**Ground peg type C1**

galvanized stand Ø 26 x 1000 mm, sleeve holder: Ø 42.4 mm für Ø 33.7 mm sign tube. Grub screw holds the sign tube in the peg. 2 plates protect the stand from torsion.

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 35309C1  | 8.0 | 1    |

**Ground peg type C2**

same as type C1, but with sleeve holder: Ø 48.3 mm for Ø 42.4 mm sign tube

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 35309C2  | 8.0 | 1    |

**Ground peg type H**

Ground peg with hollow part. For insertion of 40 mm x 40 mm shaft tubes. Pointed angle iron, with welded hollow part for driving in the ground. Drive-in angle offset from the holding socket. Driving depth: 350 mm

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 353022   | 6.0 | 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.

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 35304A   | 2.0 | 1    |

**Stackable pallet for signs**

Stackable pallet for 30 signs of Ø 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 removal quickly 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.

|            | Part-No. | kg   | Unit |
|------------|----------|------|------|
| galvanized | 50190    | 69.0 | 1    |



# Shaft tube



## Combination post to TL

of square tube 40 mm x 40 mm, with flanges for installation of TL barriers, 1.20 m long, tested acc. to TL Device installation

|                            | Part-No. | kg  | Unit |
|----------------------------|----------|-----|------|
| galvanized, with 2 flanges | 30340F   | 2.5 | 25   |
| galvanized, with 4 flanges | 30344F   | 2.7 | 25   |

## Panel pole holder

for mounting barrier poles, galvanized steel construction with welded flanges for universal holders at the barrier poles, height: 1.10 m

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 35110    | 5.0 | 10   |

## TL shaft tube

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

|                | Part-No. | kg  | Unit |
|----------------|----------|-----|------|
| Length: 1.20 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

galvanized, made of round tube, Ø 42 mm

|                | Part-No. | kg  | Unit |
|----------------|----------|-----|------|
| Length: 1.20 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 |
|---------|----------|-----|------|
| Ø 42 mm | 34042    | 0.1 | 100  |

**Tube shoe**

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

|                           | Part-No. | kg  | Unit |
|---------------------------|----------|-----|------|
| 40 mm x 40 mm und Ø 42 mm | 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**

made of plastic, suitable for round tubes Ø 35 mm

|         | Part-No. | kg   | Unit |
|---------|----------|------|------|
| Plastic | 31313-35 | 0.12 | 100  |

# Sign clamp



## Sign clamp

for square tube 40 mm x 40 mm and round tube Ø 42 mm, with eyebolt and V2A nut, bends open

|         | Part-No. | kg   | Unit |
|---------|----------|------|------|
| Plastic | 31300    | 0.12 | 100  |



## Sign clamp

universal, for round tube Ø 48 mm - Ø 60 mm, for mounting Allform signs

|         | Part-No. | kg  | Unit |
|---------|----------|-----|------|
| Plastic | 34860    | 0.2 | 10   |



## 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 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 barriers

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 31312    | 0.3 | 25   |





### Signal light for TL traffic panel

with LED technology, for mounting 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 exists on one side, yellow   | 312112G  | 0.9 | 10   |
| Light exists on both sides, yellow | 312113G  | 0.9 | 10   |
| Light exists on one side, red      | 312112R  | 0.9 | 10   |
| Light exists on both sides, red    | 312113R  | 0.9 | 10   |



### Signal light for TL traffic panel

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

|                                    | Part-No. | kg  | Unit |
|------------------------------------|----------|-----|------|
| Light exists on one side, yellow   | 312114G  | 1.0 | 10   |
| Light exists on both sides, yellow | 312115G  | 1.0 | 10   |
| Light exists on one side, red      | 312114R  | 1.0 | 10   |
| Light exists on both sides, red    | 312115R  | 1.0 | 10   |



### Building site warning light

with LED technology, flash-constant 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   |



### Spare key for building site warning light

|         | Part-No. | kg  | Unit |
|---------|----------|-----|------|
| Plastic | 31211S   | 0.1 | 10   |



### 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



**BAST tested**  
**Test number: 1121**

**Approval with base plate 31992 (p. 29)**

**Approval with signal light for TL traffic panel (p. 25), System test number: 1121J45**

| <b>Film RA1, hatched</b>              | <b>Part-No.</b> | <b>kg</b> | <b>Unit</b> |
|---------------------------------------|-----------------|-----------|-------------|
| 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          |
| <b>Film RA2, hatched</b>              |                 |           |             |
| 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          |

### 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



| <b>Film RA1, hatched</b>              | <b>Part-No.</b> | <b>kg</b> | <b>Unit</b> |
|---------------------------------------|-----------------|-----------|-------------|
| 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          |
| <b>Film RA2, hatched</b>              |                 |           |             |
| 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          |
| <b>Film RA3, hatched</b>              |                 |           |             |
| on both sides indicating right / left | 36055/3         | 2.0       | 60          |
| <b>Film RA1, arrowed</b>              |                 |           |             |
| 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          |
| <b>Film RA2, arrowed</b>              |                 |           |             |
| 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          |



### 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 |
|--------------------------|----------|-----|------|
| <b>Film RA1, hatched</b> | 36055W1  | 2.0 | 60   |
| <b>Film RA2, hatched</b> | 36055W2  | 2.0 | 60   |
| <b>Film RA3, hatched</b> | 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

| <b>Film RA1, hatched</b>              | 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   |

| <b>Film RA2, hatched</b>              |           | 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   |

| <b>Film RA3, hatched</b>              |         | kg  | Unit |
|---------------------------------------|---------|-----|------|
| on both sides indicating right / left | 36045/3 | 2.0 | 60   |

| <b>Film RA1, arrowed</b>              |          | 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   |

| <b>Film RA2, arrowed</b>              |            | 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   |

### 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    |





## Base plate



### TL base plate to K1 30 kg

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 pocket: 40 mm x 40 mm, 1 pocket: 60 mm x 60 mm and 2 pockets: Ø 42 mm, size: width: 400 mm, length: 800 mm, height: 120 mm



Plastic recycling

| Part-No. | kg   | Unit |
|----------|------|------|
| 31991    | 30.0 | 30   |

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

## 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**

dimensions: 770 mm long, 400 mm wide, 100 mm high,  
with pockets 40 mm x 40 mm, 42 mm, 60 mm x 60 mm, Ø 48 mm

|                   | Part-No. | kg   | Unit |
|-------------------|----------|------|------|
| Plastic recycling | 31994    | 38.0 | 30   |

**TL traffic panel base plate 32 kg**

for installation of barrier fences, shaft tubes or building site fences, made of re-cycled 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

|                   | Part-No. | kg   | Unit |
|-------------------|----------|------|------|
| Plastic recycling | 31992    | 32.0 | 30   |

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

**Base plate 25 kg**

for installation of barrier fences, shaft tubes or building site fences, made of re-cycled 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: 400 mm, length: 800 mm, height: 100 mm

|                   | Part-No. | kg   | Unit |
|-------------------|----------|------|------|
| Plastic recycling | 31993    | 25.0 | 30   |

**Stackable pallet for base plates**

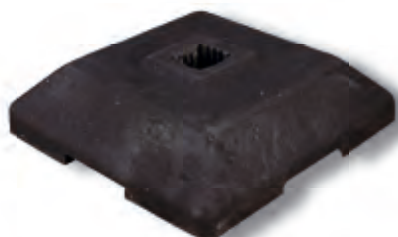
Stackable pallet for 21 base plates (3 base plates wide and 7 base plates high). Vertical tubes and cross bars are made of square tube 50 mm x 50 mm, inside dimensions: 1.30 x 0.63 x 0.90 m, with additional center bar, suitable for transport by fork-lift truck, platform floor truck or crane, the shape of the feet adds stability to the stack, 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    |

**Traffic panel stand base plate 12 kg**

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

|                           | Part-No. | kg   | Unit |
|---------------------------|----------|------|------|
| with pocket 60 mm x 60 mm | 38000    | 12.0 | 25   |
| with pocket 40 mm x 40 mm | 38040    | 12.0 | 25   |



**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**

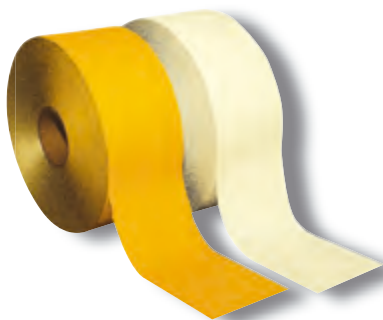
suitable for 2 x 6 Volt batteries

|         | Part-No. | kg  | Unit |
|---------|----------|-----|------|
| Plastic | 3B30     | 0.5 | 1    |

**Atmospheric oxygen battery 6V / 120AH (120000 milliampere-hours)**

High load, constant light up to 1850 hrs.

|                            | Part-No. | kg  | Unit |
|----------------------------|----------|-----|------|
| Atmospheric oxygen battery | 3LS614   | 2.0 | 1    |

**Marking film**for road marking, 12 cm thin-layer, **BAST tested**

|        | Part-No. | kg  | Unit  |
|--------|----------|-----|-------|
| yellow | 3M120G   | 4.0 | 100 m |
| white  | 3M120W   | 4.0 | 100 m |

for road marking, 15 cm thin-layer, **BAST tested**

|        | Part-No. | kg  | Unit  |
|--------|----------|-----|-------|
| yellow | 3M150G   | 5.0 | 100 m |
| white  | 3M150W   | 5.0 | 100 m |

**Primer for marking film**

for improved bond between road surface and marking film

|              | 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**

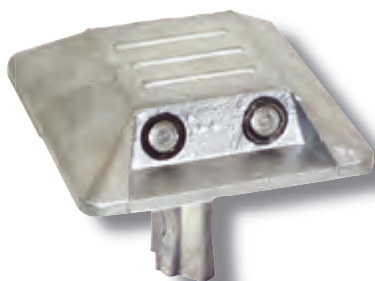
for gluing

|  | Part-No. | kg  | Unit |
|--|----------|-----|------|
| without reflecting lenses  | 39120    | 0.2 | 50   |
| with shaft for installation<br>without reflecting lenses                 | 39129    | 0.2 | 50   |
| with shaft for driving in ground<br>without reflecting lenses<br>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   |

**The marking nails are also available with color reflectors (yellow, red).****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   |

**The marking nails are also available 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)

|  | Part-No. | kg   | Unit |
|--|----------|------|------|
|  | 39112    | 10.0 | 1    |

Speed bumps



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    |

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



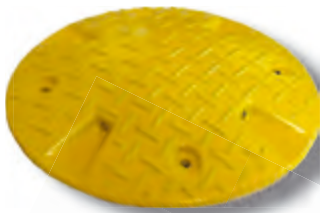


### Speed bump

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"**



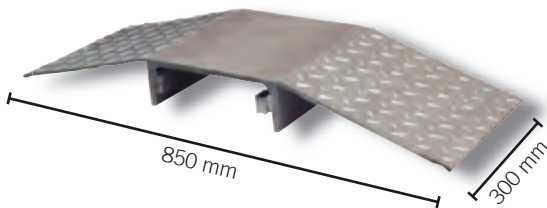




Cable bridge

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

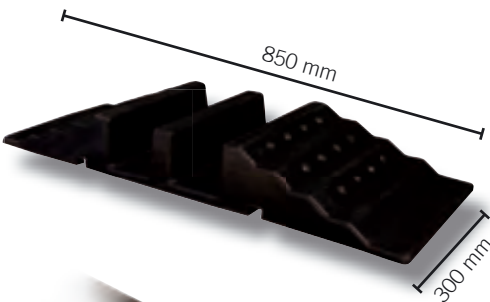
|                                     | Part-No. | kg   | Unit |
|-------------------------------------|----------|------|------|
| Cable bridge without insert, black  | 339380   | 24.6 | 30   |
| Cable bridge without insert, yellow | 339381   | 24.6 | 30   |
| Insert, black                       | 339382   | 4.8  | 30   |



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 80 mm

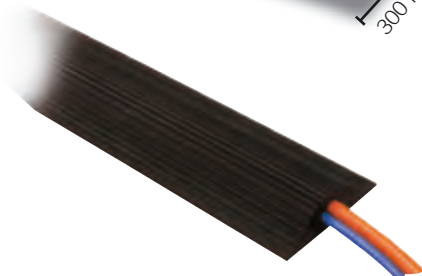
|            | Part-No. | kg   | Unit |
|------------|----------|------|------|
| galvanized | 33931    | 24.0 | 1    |



Hose and cable bridge

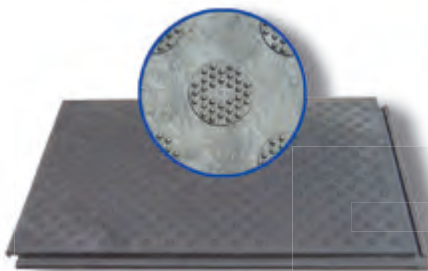
contains 2 ducts for hoses up to 3 inches, including connecting elements, suitable for extension to any length, visible in the dark by reflectors, dimensions of passage duct: 90 mm x 300 mm x 90 mm, outer dimensions: 850 mm x 300 mm x 90 mm

|     | Part-No. | kg   | Unit |
|-----|----------|------|------|
| PVC | 33933    | 11.0 | 1    |



Rubber ramp system, open underside  
(Dimensions in mm)

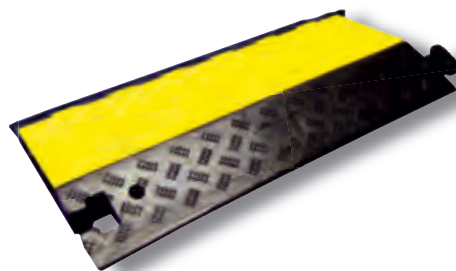
| Passage | Length | Width | Part-No. | kg  | Unit |
|---------|--------|-------|----------|-----|------|
| Ø 55    | 1500   | 200   | 339323   | 9.0 | 1    |



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 | 30   |

**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 cats-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



## 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 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 BAST tested to TL

weight class 3 of TL, film RA1, red / white fully reflecting, acc. to STVO, base plate made of recycled material, extremely 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 color: orange / black, barrier strap color optional:

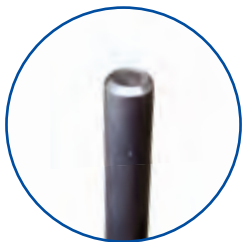
|                | Part-No. | kg  | Unit |
|----------------|----------|-----|------|
| red / white    | 3A350RW  | 0.3 | 1    |
| yellow / black | 3A350GS  | 0.3 | 1    |
| blue / white   | 3A350BW  | 0.3 | 1    |

**Barrier strap**

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

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





including bevel



with square tip

Twine pole

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

| Diameter 14 mm | Part-No. | kg  | Unit |
|----------------|----------|-----|------|
| 1000 mm        | 301410   | 1.2 | 10   |
| 1200 mm        | 301412   | 1.5 | 10   |
| Diameter 16 mm |          |     |      |
| 800 mm         | 301608   | 1.3 | 10   |
| 1000 mm        | 301610   | 1.6 | 10   |
| 1200 mm        | 301612   | 1.9 | 10   |
| Diameter 18 mm |          |     |      |
| 800 mm         | 301808   | 1.6 | 10   |
| 1000 mm        | 301810   | 2.0 | 10   |
| 1200 mm        | 301812   | 2.4 | 10   |
| Diameter 20 mm |          |     |      |
| 800 mm         | 302008   | 2.0 | 10   |
| 1000 mm        | 302010   | 2.5 | 10   |
| 1200 mm        | 302012   | 3.0 | 10   |

Other dimensions on request.

Mushroom impact guard, of impact-resistant plastic material

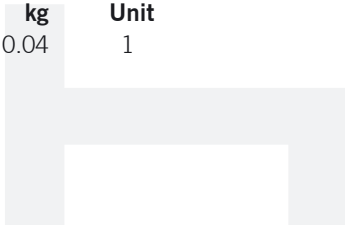
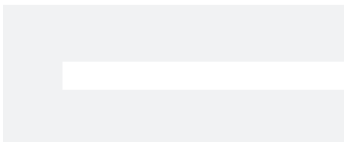
inside 20 mm tapered, for twine pole Ø 16 - 20 mm

|     | Part-No. | kg   | Unit |
|-----|----------|------|------|
| red | 301823   | 0.04 | 1    |

Mushroom impact guard, of impact-resistant plastic material

inside 35 mm tapered, for twine pole Ø 20 - 35 mm

|     | Part-No. | kg   | Unit |
|-----|----------|------|------|
| red | 301824   | 0.04 | 1    |



# Twine pole – for use in road construction

Standard twine poles are available in sizes 14, 16, 18, 20 mm diameter placed in layers of 100 posts on the pallet (5 layers each with 100 posts, see illustration).

The complete pallet weighs about 1 t and can be handled easily.

Advantage:

Number of twine poles is quickly ascertained, bundles cannot drop to the ground, safe stacking, including other materials

It is also possible to position the twine poles only in one direction on the pallet. (see illustration)

Advantage:

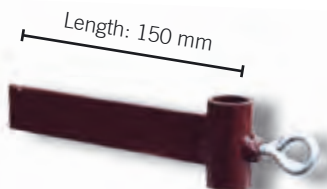
Space-saving stacks in pallet racks

Twine poles are forged, which adds hardness to the top of the twine pole.

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







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 |
|---------|----------|-----|------|
| painted | 301820   | 0.4 | 1    |



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 | 1    |



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), dimension: 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 |
|----------|----------|-----|------|
| painting | 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 in the ground, length: 1.25 m

|             | Part-No. | kg  | Unit |
|-------------|----------|-----|------|
| red painted | 31551    | 1.0 | 10   |

**Lamp iron**

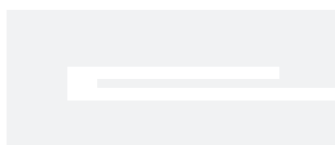
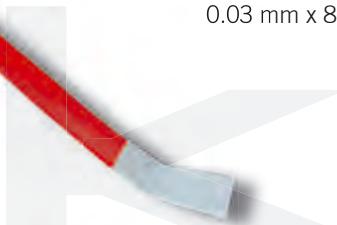
for versatile use in road construction, red painted, made of Ø 12 mm fluted bar, with welded U shackle for holding tapes, cables, lines, etc., with forged tip for easy driving in the ground, length: 1.25 m

|             | Part-No. | kg  | Unit |
|-------------|----------|-----|------|
| red painted | 315522   | 1.0 | 10   |

**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    |





**Event - pages 42 - 49**

Crowd barrier  
Police barrier  
Walkway system





**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 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   |



Pallet for crowd barriers, see page 45

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

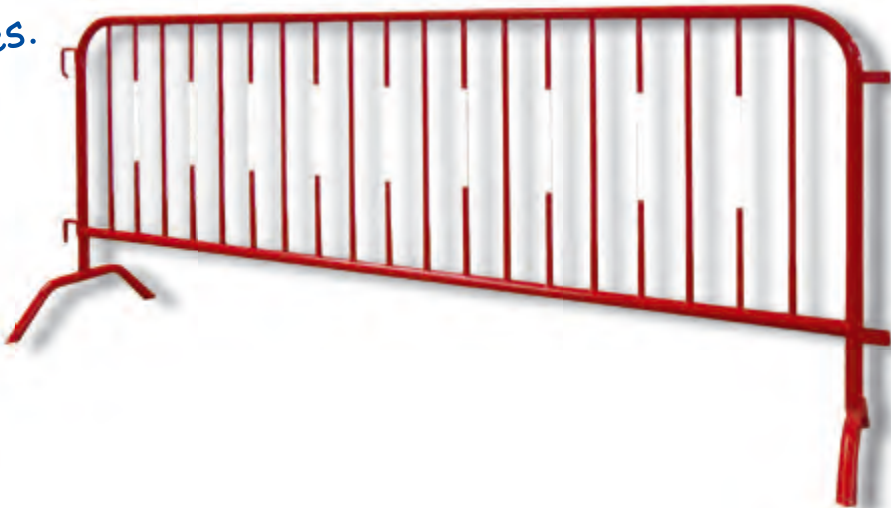




Bild: istockphoto.de

## 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 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

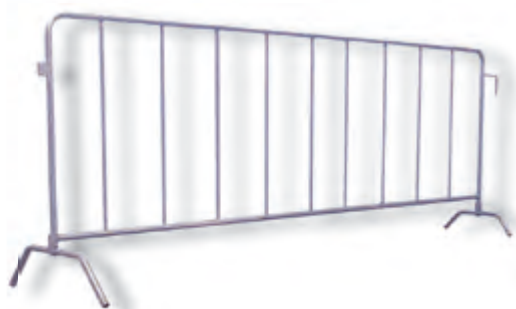
|        | Part-No. | kg  | Unit |
|--------|----------|-----|------|
| Typ SE | 206181   | 2.0 | 10   |

## 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   |



**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

9 bars

| Part-No. | kg   | Unit |
|----------|------|------|
| 419.00L  | 11.0 | 25   |

**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

galvanized

| Part-No. | kg   | Unit |
|----------|------|------|
| 419.05   | 46.0 | 1    |

**Police barrier**

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

galvanized

| Part-No. | kg   | Unit |
|----------|------|------|
| 419.012  | 48.0 | 5    |

**Square tube stackable pallet for police barrier**

suitable for transportation and storage of 10 police barriers (article 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

galvanized

| Part-No. | kg   | Unit |
|----------|------|------|
| 50195    | 88.0 | 1    |



Simple to load -  
perfect staples.





### Fence element

galvanized fence element with bracket and cross struts of Ø 33.7 mm round tube, 18 bars of Ø 16 mm round tube, with hooks and eyes on the sides for safe connection with other fence elements, width: 2.50 m, total height: 1.10 m

|  | Part-No.  | kg   | Unit |
|--|-----------|------|------|
| galvanized   | 206180    | 16.0 | 1    |
| Other widths and lengths available. Price on request |           |      |      |
| Bolts for connecting frame and bar                   | E1Y0855   | 0.1  | 1    |
| Bolts for connecting frame and bar                   | E1M8STOPV | 0.1  | 1    |

Fence element and the bar are connected by hexagon head bolts M8x55 (Part-No.: E1Y0855) and nuts M8 (Part-No.: E1M8STOPV). 2 sets of bolts are needed for fastening one element.

### Walkway system "Basic"

The walkway system "Basic" is designed for general use during events. A simple connecting system permits the quick setup of multiple access walkways which can be used in different ways. Three fence elements (Part-No.: 206180) can be set up with 2 mounting bars (Part-No.: 20284) and be linked firmly by bolts and nuts. In addition, small sluice gates (Part-No.: 20285) can be hung transversely to the fence frame to set up cross barriers, e.g., for security staff.

These gates can also be mounted by bolted adapter eyes (Part-No.: 20280S) so they can be removed or remounted very quickly. The sluice can be combined with all common crowd barrier types by the adapter eye or a hook and eye connection.



**Mounting bar**

of sturdy flat-bar iron and welded pipe sockets, suitable for crowd barrier frames, length: 2.05 m, tube pitch: 1.00 m, tube of the socket: Ø 42.4 mm x 2 mm, including fastening material

galvanized

| Part-No. | kg  | Unit |
|----------|-----|------|
| 20284    | 6.0 | 1    |

**Sluice gate**

Cross barrier for integration in the sluice system, mounted in the eyes of the crowd barrier frame or in adapter eyes, width: approx. 1.0 m, height: approx. 0.90 m

galvanized

| Part-No. | kg  | Unit |
|----------|-----|------|
| 20285    | 6.5 | 1    |

**Adapter eye**

for bolting to the fence element or other round tube frame for fixing the hooks of sluice gates

galvanized

| Part-No. | kg  | Unit |
|----------|-----|------|
| 20280S   | 0.5 | 1    |

**Crowd barrier oblique**

galvanized steel construction specially for use during sport events, oblique position of the frame surface, one-sided reach of the feet, for secure combination with hook-and-eye connections, with special mounting bar for banners and advertising panels, length: approx. 3.00 m, height: approx. 1.10 m

galvanized

| Part-No. | kg   | Unit |
|----------|------|------|
| 419.003  | 22.0 | 1    |

**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 |
|----------|-----|------|
| 206181-A | 2.0 | 1    |

**Foot for fence element**

including fastening material

galvanized

| Part-No. | kg  | Unit |
|----------|-----|------|
| 206181   | 2.0 | 10   |

One fence element -  
two ways of setting it up.



# Walkway system "PREMIUM"



## Routing element of aluminium

for the secure and smooth routing of people in open terrain, base construction of sturdy welded square tube, handrail made of welded Ø 33.7 mm round tube, with aluminium side boards, floor of anti-slip aluminium checker plate (4/5 mm), side railing with reflecting stripes, the routing element can be collapsed and several elements stacked on top of each other for space-saving transportation and storage, insertion holes are provided for linking several elements or to an access ramp

|                               | Part-No. | kg   | Unit |
|-------------------------------|----------|------|------|
| Width: 1.00 m, Length: 1.50 m | 20280    | 35.0 | 1    |
| Width: 1.00 m, Length: 2.00 m | 20281    | 40.0 | 1    |
| Width: 1.00 m, Length: 2.50 m | 20282    | 65.0 | 1    |

Other widths and lengths are available.

Elements can be connected with each other by wing bolts M10x25 mm and washers. 4 bolts and washers are needed for one spacer, 2 bolts and washers for an access ramp. All accessory parts include fastening material.

## Walkway system "Premium"

The walkway system "Premium" is designed specially for routing persons to a particular destination. The system components can be combined in many ways for different applications. The three routing elements of lengths 1.50 m (Part-No.: 20280), 2.00 m (Part-No.: 20281), 2.50 m (Part-No.: 20282) form the backbone of the system.

They can be combined to any length with spacers so that even long distances can be covered easily. Besides, end parts (Part-No. 202805) form 90-degree bends so that even corners around buildings or difficult terrain can be handled without problem. Separate access ramps (Part-No.: 20280A) which can be attached to each routing element are provided for comfortable and safe access.

To set up sluices for focusing expansive areas on the routing elements, crowd barrier (Part-No.: 419.00BE) can easily and quickly be combined with the routing elements. Fences can be built by setting up the routing elements in parallel and connecting them to sluice gate (Part-No.: 20285) and adapter eyes (Part-No.: 20280S). Special gate elements (Part-No.: 20280T), which open by turning the gate, can be used for diversions and emergency exits. A routing element can be connected to the open door element by adapter (Part-No.: 20280DT).

## Applications:

- Events
- Building sites
- Disaster control

## Sample applications:

- Extended trench bridges as required
- Guiding streams of people in open terrain
- Bridging complex ditches and shafts
- Compensation of level differences in terrain or in cities

## Advantages of the system:

- Very flexible application
- Safe and clean routing of people
- Simple and quick setting up by lateral connecting elements
- Safe movement of wheelchairs and prams
- Can be reused in the system for different applications
- Very robust construction





**Access ramp**

separate access ramp with bolted aluminium checker plate, mounted in routing element by welded nut, firm connection to routing element by wing bolt, including fastening material

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 20280A   | 7.0 | 1    |



**Spacer**

made of square tube and flat-bar steel with welded nut, for connecting 2 routing elements, spacer can be inserted in the routing elements and connected firmly by wing bolts, including fastening material

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 20280D   | 4.0 | 1    |



**Adapter for door mounting**

for transversal connection (90°) of routing elements, door elements can assist the systematic handling of streams of people, firm connection to the routing element by wing bolts, including fastening material

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 20280DT  | 7.5 | 1    |



**Corner piece**

for connecting 2 routing elements at 90° angle, bolted aluminium checker plate, 2 side handrails with reflecting stripes and side board, with plug-type lugs for connection to routing elements, firm connection to the routing element by wing bolts, including fastening material, width: 1.00 m, length: 1.00 m

|            | Part-No. | kg   | Unit |
|------------|----------|------|------|
| galvanized | 202805   | 45.0 | 1    |



**Door element, single, 1.00 m wide, 2-wing 2.00 m wide**

for mounting in the basic construction of the 2.00 m routing element, can be replaced by normal handrail and side board to set up alternative or emergency routes, firmly bolted and hinged in routing element, turns in both directions, door contains 2 door elements with a padlock for locking the door, transversal barriers on alternative routes can also be set up, including fastening material, width: 2.00 m

|            | Part-No. | kg   | Unit |
|------------|----------|------|------|
| galvanized | 20280T   | 13.0 | 1    |



## Mobile fences - pages 50 - 63

Mobile fence  
Mobile fence base plate  
Storage and transport pallet  
Accessories

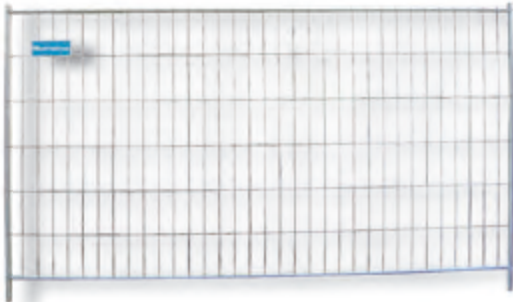






**Mobile fence "Standard"**

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

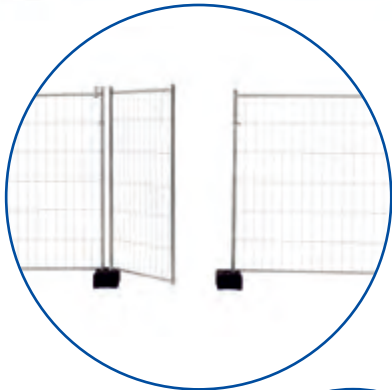


| Element                       | Part-No. | kg   | Unit |
|-------------------------------|----------|------|------|
| Width: 3.50 m, Height: 2.00 m | 3B2035   | 16.0 | 35   |

|                                    |         |      |    |
|------------------------------------|---------|------|----|
| <b>Element with hooks and eyes</b> |         |      |    |
| Width: 3.50 m, Height: 2.00 m      | 3B2035H | 16.0 | 35 |

|                               |        |      |    |
|-------------------------------|--------|------|----|
| <b>Compensation element</b>   |        |      |    |
| Width: 2.20 m, Height: 2.00 m | 3B2022 | 11.5 | 35 |

|                               |        |     |    |
|-------------------------------|--------|-----|----|
| <b>Door element</b>           |        |     |    |
| Width: 1.20 m, Height: 2.00 m | 3B2012 | 7.0 | 10 |



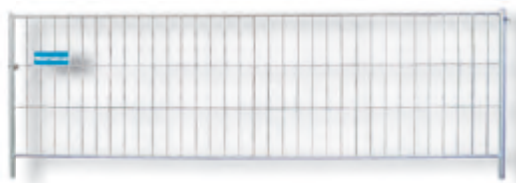
Can be used with clamp-type traffic panels and connecting clamp. (see page 9)





**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 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 |
|-------------------------------|---------|------|----|

**Compensation element**

|                               |        |     |    |
|-------------------------------|--------|-----|----|
| Width: 2.20 m, Height: 1.20 m | 3B1222 | 8.0 | 35 |
|-------------------------------|--------|-----|----|

**Door element**

|                               |        |     |    |
|-------------------------------|--------|-----|----|
| Width: 1.20 m, Height: 1.20 m | 3B1212 | 6.5 | 10 |
|-------------------------------|--------|-----|----|

**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 |
|------------------------|------------|-----|------|
| white                  | 3FB35      | 0.8 | 5    |
| green                  | 3FB35G     | 0.8 | 5    |
| black                  | 3FB35S     | 0.8 | 5    |
| blue                   | 3FB35B     | 0.8 | 5    |
| white with Schake Logo | 3FB35 Logo | 0.8 | 5    |

**Screen tarpaulins, white**

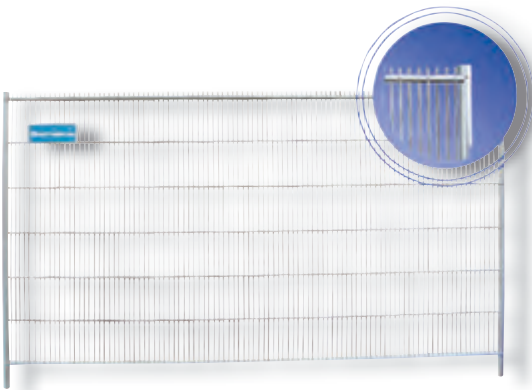
same as above, but reels for 2.00 m high mobile site fence, length: 20 m

|       | Part-No. | kg  | Unit |
|-------|----------|-----|------|
| white | 3FBR35   | 5.0 | 1    |

**Mobile fence net**

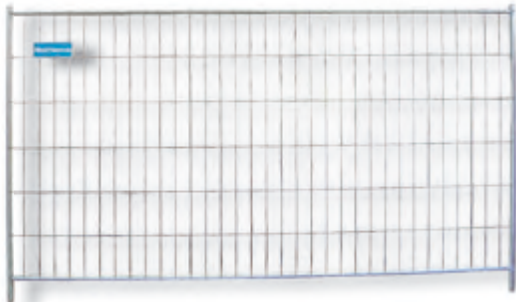
for spreading out on all mobile site fences 3.50 m x 2.00 m, including cable strap to fix the net to the site fence, wind permeability: approx. 12 %

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



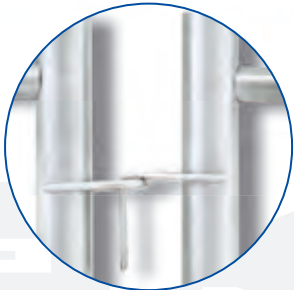
**Mobile fence "Secure"**  
as fence around construction sites, mobile site fence pre-galvanized, with tubular frame all around, vertical tubes Ø 42.4 mm, horizontal tubes Ø 26.9 mm, mesh size: vertical: 30 mm, horizontal: 300 mm, wire size vertical: 3.0 mm, wire size horizontal: 3.8 mm, 68 vertical 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 "Leicht"**  
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   |

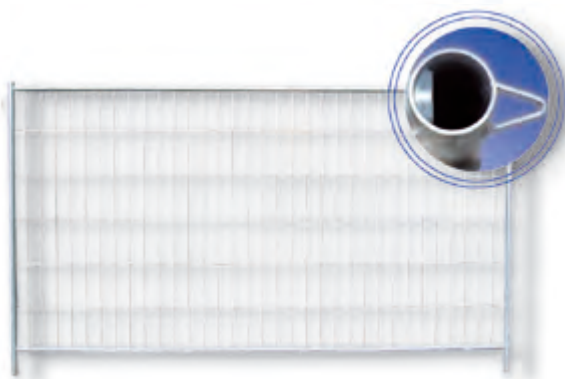


| Element with hooks and eyes   | Part-No. | kg   | Unit |
|-------------------------------|----------|------|------|
| Width: 3.50 m, Height: 2.00 m | 3B2035LH | 13.0 | 35   |



**Mobile fence "Profi"**

as fence around construction sites, mobile site fence sendzimir 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   | 21.7 | 35   |

**Compensation element**

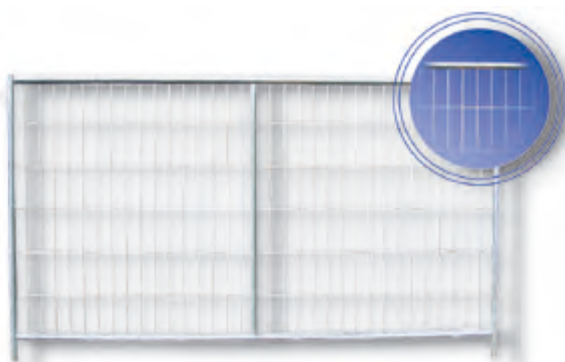
|                               |        |      |    |
|-------------------------------|--------|------|----|
| Width: 2.20 m, Height: 2.00 m | 3B2023 | 18.1 | 35 |
|-------------------------------|--------|------|----|

**Door element**

|                               |        |      |    |
|-------------------------------|--------|------|----|
| Width: 1.20 m, Height: 2.00 m | 3B2012 | 10.5 | 10 |
|-------------------------------|--------|------|----|

**Mobile fence "Profi M"**

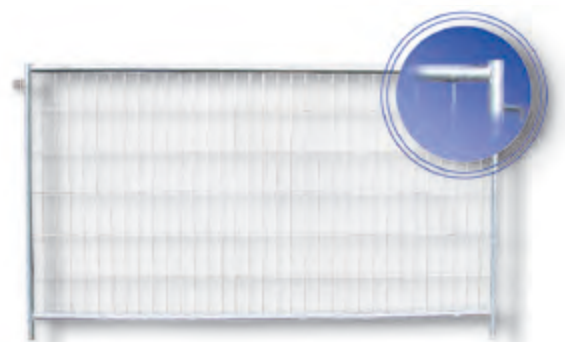
as fence around construction sites, mobile site fence hot-dip galvanized, with tubular frame all around, vertical tubes Ø 42.4 mm, horizontal tubes Ø 26.9 mm, mesh size: vertical: 100 mm, horizontal: 300 mm, wire size vertical: 4 mm, wire size horizontal: 5 mm, 44 vertical wires, 7 horizontal wires. Additional stability provided by welded center vertical tube, hooks and eyes are welded to the sides of the vertical tubes for connecting mobile site fences, width: 3.50 m, height: 2.00 m



| Element                | Part-No. | kg   | Unit |
|------------------------|----------|------|------|
| with hooks and eyes    | 3B2036M  | 29.0 | 35   |
| without hooks and eyes | 3B2036M1 | 28.5 | 35   |

**Mobile fence "Profi S"**

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 42.4 mm, mesh size: vertical: 100 mm, horizontal: 300 mm, wire size vertical: 3 mm, wire size horizontal: 4 mm, 33 vertical wires, 7 horizontal wires, hooks and eyes are welded to the sides of the vertical tubes for connecting mobile site fences



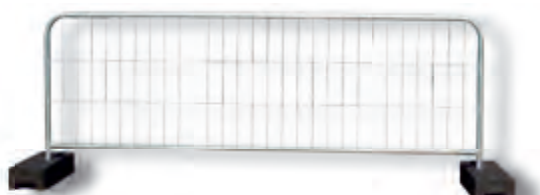
| Element                       | Part-No. | kg   | Unit |
|-------------------------------|----------|------|------|
| Width: 3.50 m, Height: 2.00 m | 3B2036S  | 24.0 | 35   |





### 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 42.4 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



|            | Part-No. | kg   | Unit |
|------------|----------|------|------|
| galvanized | 3B1230   | 10.5 | 35   |

### Mobile fence "Screen 1.20 m"

as barrier fence especially during events, mobile fence 2.20 m x 1.20 m, galvanized steel frame with panel of profiled sheet metal, vertical tubes of round tube Ø 42 mm, cross tubes of 60 mm x 40 mm section, can be linked by clamp part-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   |

### Mobile fence "Screen 2.00 m"

as barrier fence especially during events, mobile fence 2.20 m x 2.00 m, galvanized steel frame with panel of profiled sheet metal, vertical tubes of round tube Ø 42 mm, cross tubes of 60 mm x 40 mm section, can be linked by clamp part-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   |

| Part-No. | Designation                                       | Dimensions<br>in mm (WxH) | Mesh size in<br>mm | Wire Ø<br>horizontal | Wire Ø<br>vertical | Weight<br>in kg |
|----------|---|---------------------------|--------------------|----------------------|--------------------|-----------------|
| 3B1235   | Standard H: 1.2 m                                 | 3454 x 1200               | 100 x 300          | 3.0                  | 3.0                | 10.50           |
| 3B1235H  | Standard with hooks H: 1.2 m                      | 3454 x 1200               | 100 x 300          | 3.0                  | 3.0                | 10.50           |
| 3B1222   | Standard H: 1.2 m compensation element            | 2200 x 1200               | 100 x 300          | 3.0                  | 3.0                | 8.00            |
| 3B1212   | Standard H: 1.2 m door element                    | 1200 x 1200               | 100 x 300          | 3.0                  | 3.0                | 6.50            |
| 3B1230   | Event   | 2999 x 1200               | 99 x 290           | 3.3                  | 3.3                | 10.50           |
| 3B2035L  | Light   | 3454 x 2000               | 100 x 300          | 3.0                  | 2.5                | 13.00           |
| 3B2035LH | Light with hooks                                  | 3454 x 2000               | 100 x 300          | 3.0                  | 2.5                | 13.00           |
| 3B2035   | Standard H: 2.0 m                                 | 3454 x 2000               | 100 x 300          | 3.8                  | 3.4                | 16.00           |
| 3B2035H  | Standard with hooks H: 2.0 m                      | 3454 x 2000               | 100 x 300          | 3.8                  | 3.4                | 16.00           |
| 3B2022   | Standard H: 2.0 m compensation element            | 2200 x 2000               | 100 x 300          | 3.8                  | 3.4                | 11.50           |
| 3B2022H  | Standard with hooks H: 2.0 m compensation element | 2200 x 2000               | 100 x 300          | 3.8                  | 3.4                | 11.50           |
| 3B2012   | Standard H: 2.0 m door element                    | 1200 x 2000               | 100 x 300          | 3.8                  | 3.4                | 7.00            |
| 3B2035S  | Secure  | 3454 x 2000               | 30 x 350           | 3.8                  | 3.0                | 25.00           |
| 3B2036   | Profi   | 3454 x 2000               | 100 x 300          | 3.5                  | 3.5                | 21.70           |
| 3B2023   | Profi compensation element                        | 2200 x 2000               | 100 x 300          | 3.5                  | 3.5                | 18.10           |
| 3B2036M  | Profi M   | 3454 x 2000               | 100 x 300          | 5.0                  | 4.0                | 29.00           |
| 3B2036S  | Profi S   | 3454 x 2000               | 100 x 300          | 4.0                  | 3.5                | 24.00           |







**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 recycled plastic material**

for stability of mobile fences, dimensions: width: 250 mm, length: 700 mm, height: 160 mm, with 6 holes Ø 42 mm for inserting the site fence tubes

|                   | Part-No. | kg   | Unit |
|-------------------|----------|------|------|
| Recycled material | 3F112    | 26.0 | 50   |

**Base plate of recycled plastic material**

for stability of mobile fences, dimensions: width: 250 mm, length: 700 mm, height: 160 mm, with 6 holes Ø 42 mm for inserting the site fence tubes

|                   | Part-No. | kg   | Unit |
|-------------------|----------|------|------|
| Recycled material | 3F110    | 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 | 50   |

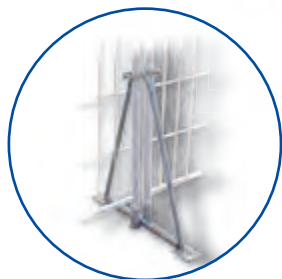




### Mobile fence stand

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

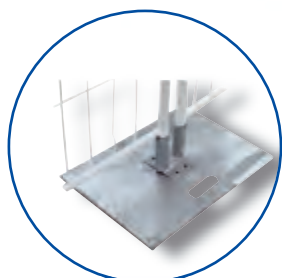
|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 3B150    | 4.5 | 50   |



### 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

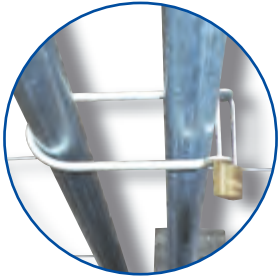
|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 3B152    | 2.0 | 10   |



### Barbed wire holder Y-shape

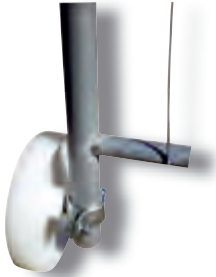
Y-piece for insertion in site fences. Made of Ø 26.9 mm round tube, with 2 holes for fixing the barbed wire to the legs of the Y piece

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 3B156    | 1.3 | 1    |

**Fence lock**

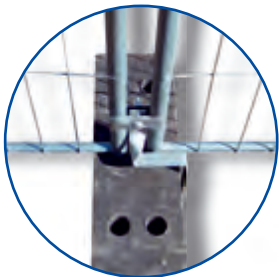
U-shackle, with padlock

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 3B1213   | 0.5 | 1    |

**Roller**

for site fence door element, including pipe bracket

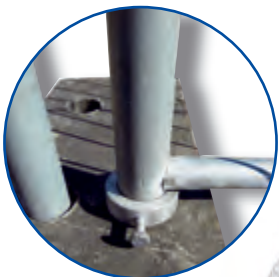
|          | Part-No. | kg  | Unit |
|----------|----------|-----|------|
| Ø 200 mm | 3R116    | 1.5 | 1    |

**Lift-off guard**

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



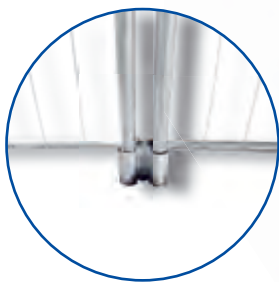
|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 3B155    | 0.5 | 10   |

**Door shaft collar**

suitable for all elements, with locking screw



|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 3B116    | 0.6 | 1    |



### 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    |





**Pivot joint**

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

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 3B115    | 1.0 | 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 (Part-No.: 3VB10) for fastening to site fence and ground peg (Part-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 (Part-No.:3VB10) for fastening to site fence and ground peg (Part-No.: 30W80) for fixing the support inclusive, height: approx. 1.00 m

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| galvanized | 3B1541   | 3.5 | 10   |





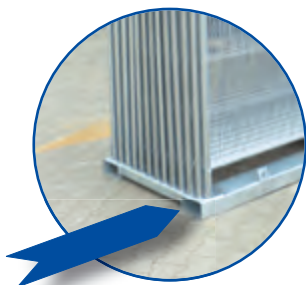
### "Combi" pallet

for transport and storage of mobile fence elements ( 3.50 m long ) and base plate, 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

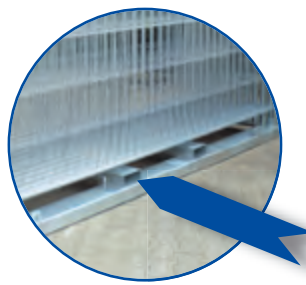
|                                     | Part-No. | kg    | Unit |
|-------------------------------------|----------|-------|------|
| galvanized, for 30 mats and 31 feet | 3B211K   | 185.0 | 1    |

**Fences and feet can be unloaded together and set up directly.**

Suitable for concrete feet and feet of recycled plastic material.

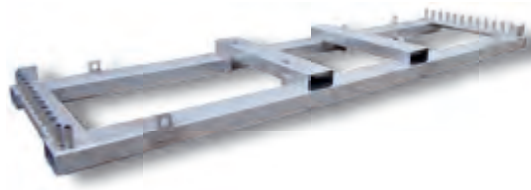


Fork-lift truck can approach from both sides.



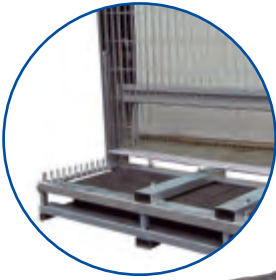
### Storage and transport pallet for mobile fences

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 Part-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    |

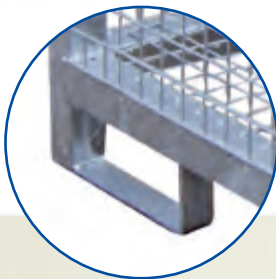
Suitable for base plates of concrete or recycled plastic material.



**Transport box for base plates**

Mesh box, for storage and transport of all kinds of site 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    |





**Building construction - pages 64 - 87**

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





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**

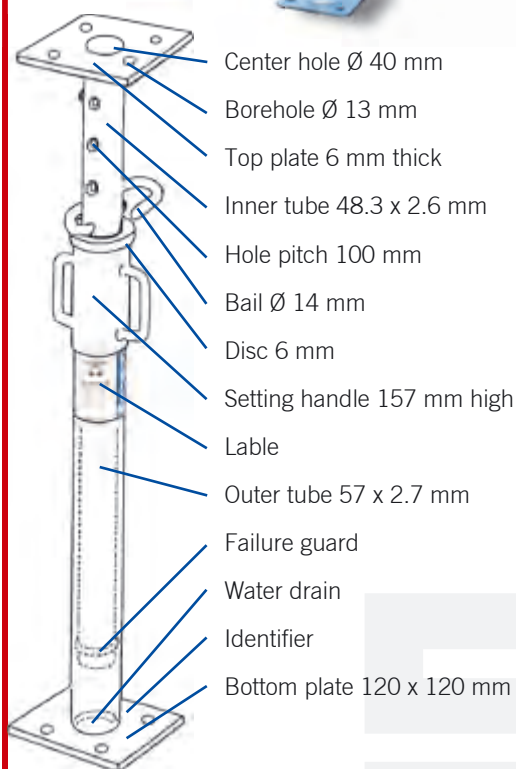
|            |                                | Part-No. | kg   | Unit |
|------------|--------------------------------|----------|------|------|
| <b>B25</b> | extent length: 1.54 m - 2.50 m | 117291   | 12.0 | 80   |
| <b>B30</b> | extent length: 1.87 m - 3.00 m | 117301   | 14.0 | 80   |
| <b>B35</b> | extent length: 2.07 m - 3.50 m | 117311   | 16.0 | 80   |
| <b>B40</b> | extent length: 2.37 m - 4.00 m | 117321   | 18.0 | 80   |

**galvanized, with inner thread**

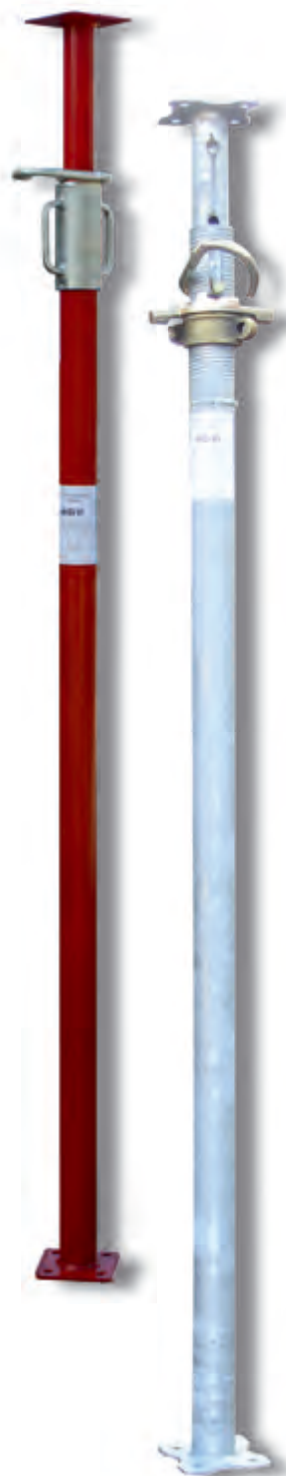
|            |                                | Part-No. | kg   | Unit |
|------------|--------------------------------|----------|------|------|
| <b>B25</b> | extent length: 1.54 m - 2.50 m | 117291IV | 12.0 | 80   |
| <b>B30</b> | extent length: 1.87 m - 3.00 m | 117301IV | 14.0 | 80   |
| <b>B35</b> | extent length: 2.07 m - 3.50 m | 117311IV | 16.0 | 80   |
| <b>B40</b> | extent length: 2.37 m - 4.00 m | 117321IV | 18.0 | 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

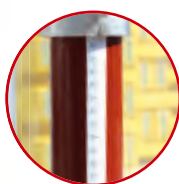
|   | Part-No. | kg   | Unit |
|---|----------|------|------|
| <b>B/D25</b> extent length: 1.54 m - 2.50 m | 11829    | 12.0 | 72   |
| <b>B/D30</b> extent length: 1.87 m - 3.00 m | 11830    | 14.0 | 72   |
| <b>B/D35</b> extent length: 2.07 m - 3.50 m | 11831    | 16.0 | 63   |
| <b>B/D40</b> extent length: 2.37 m - 4.00 m | 11832    | 18.0 | 63   |



All props marked by type class and load table.



Test number marked on the foot.



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



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

#### painted, with outer thread simple and quick handling by triple thread

|   | Part-No. | kg   | VPE |
|---|----------|------|-----|
| <b>B/D25</b> extent length: 1.45 m - 2.50 m | 11829P   | 12.0 | 63  |
| <b>B/D30</b> extent length: 1.70 m - 3.00 m | 11830P   | 14.0 | 48  |
| <b>B/D35</b> extent length: 1.96 m - 3.50 m | 11831P   | 16.0 | 48  |
| <b>B/D40</b> extent length: 2.20 m - 4.00 m | 11832P   | 18.0 | 48  |

#### galvanized, with outer thread simple and quick handling by triple thread

|   | Part-No. | kg   | VPE |
|---|----------|------|-----|
| <b>B/D25</b> extent length: 1.45 m - 2.50 m | 11829V   | 12.0 | 63  |
| <b>B/D30</b> extent length: 1.70 m - 3.00 m | 11830V   | 14.0 | 48  |
| <b>B/D35</b> extent length: 1.96 m - 3.50 m | 11831V   | 16.0 | 48  |
| <b>B/D40</b> extent length: 2.20 m - 4.00 m | 11832V   | 18.0 | 48  |

**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 |
|---|----------|------|------|
| <b>C/E25</b> extent length: 1.45 m - 2.50 m | 11929V   | 18.0 | 48   |
| <b>C/E30</b> extent length: 1.70 m - 3.00 m | 11930V   | 20.0 | 48   |
| <b>C/E35</b> extent length: 1.96 m - 3.50 m | 11931V   | 26.0 | 48   |
| <b>C/E40</b> extent length: 2.20 m - 4.00 m | 11932V   | 28.8 | 48   |
| <b>C/E45</b> extent length: 2.45 m - 4.50 m | 11933V   | 31.5 | 48   |
| <b>C/E55</b> extent length: 2.96 m - 5.50 m | 11934V   | 42.5 | 42   |



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   | Inner-Ø     | Outer-Ø     | Load at 45° (kN) |         |
|----------|-----------------|------|-------------|-------------|------------------|---------|
|          |                 |      |             |             | Compressive      | Tensile |
| 11789    | 150 cm - 261 cm | 15.9 | 48 x 3.5 mm | 57 x 2.5 mm | 34.5 - 20.0      | 32      |
| 11790    | 180 cm - 292 cm | 16.9 | 48 x 3.5 mm | 57 x 2.5 mm | 34.5 - 17.5      | 32      |
| 11791    | 210 cm - 371 cm | 19.1 | 48 x 3.5 mm | 57 x 2.5 mm | 34.5 - 14.0      | 32      |
| 11792    | 242 cm - 403 cm | 20.3 | 48 x 3.5 mm | 57 x 2.5 mm | 34.5 - 12.5      | 32      |
| 11793    | 260 cm - 461 cm | 22.9 | 48 x 3.5 mm | 57 x 2.5 mm | 34.5 - 10.0      | 32      |
| 11794    | 304 cm - 535 cm | 25.3 | 48 x 3.5 mm | 57 x 2.5 mm | 34.5 - 7.5       | 32      |

## Slanted prop galvanized

with outer thread, pivot joint at both ends

| Part-No. | Adjusting range | kg   | Inner-Ø     | Outer-Ø     | Load at 45° (kN) |         |
|----------|-----------------|------|-------------|-------------|------------------|---------|
|          |                 |      |             |             | Compressive      | Tensile |
| 11790V   | 180 cm - 292 cm | 16.9 | 48 x 3.5 mm | 57 x 2.5 mm | 34.5 - 17.5      | 32      |
| 11792V   | 242 cm - 403 cm | 20.3 | 48 x 3.5 mm | 57 x 2.5 mm | 34.5 - 12.5      | 32      |
| 11794V   | 304 cm - 535 cm | 25.3 | 48 x 3.5 mm | 57 x 2.5 mm | 34.5 - 7.5       | 32      |
| 11795V   | 412 cm - 623 cm | 30.7 | 48 x 3.5 mm | 57 x 2.5 mm | 34.5 - 5.0       | 32      |

## Bail

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

galvanized

| Part-No. | kg  | Unit |
|----------|-----|------|
| 2051533  | 0.5 | 1    |

## Slanted props

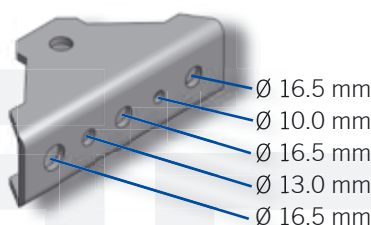
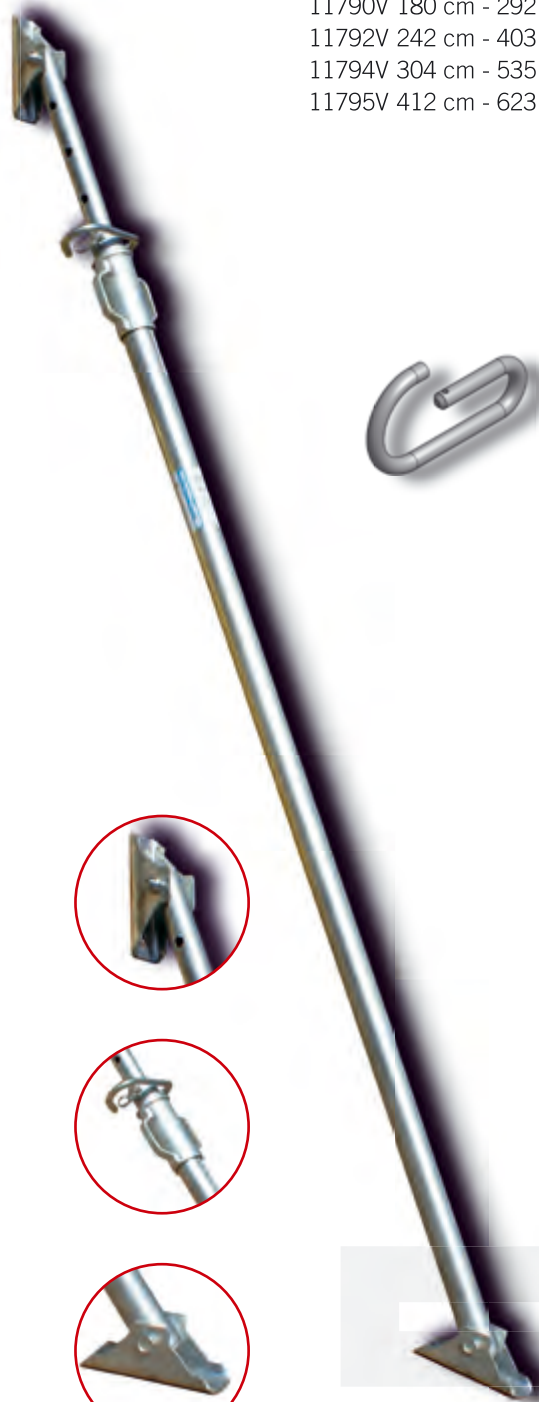
as tensile or compression props for versatile application on construction sites, for example:

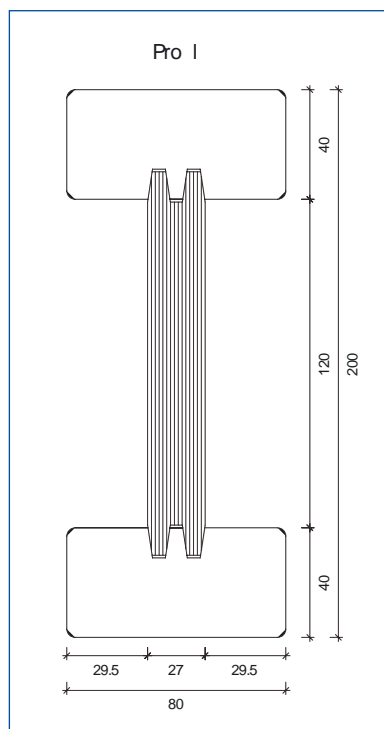
- propping different types of system formwork
- adjusting and propping prefabricated concrete parts, particularly hollow walls and or triple sheeting walls
- propping column or pillar formwork

## 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: 2450 mm, Height: 200 mm | 102024   | 13.4 | 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)

### Properties:

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

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



### Window prop

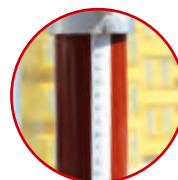
with galvanized threaded socket, suitable for all common window sizes, for individual application in building construction, simple handling, with hand crush and failure guards as required by the applicable accident prevention regulations, a label affixed to the window prop marks the adjusting range at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



|   | Part-No. | kg   | Unit |
|---|----------|------|------|
| Length: 0.90 m - 1.50 m <b>painted</b>    | 11102    | 10.0 | 60   |
| Length: 0.90 m - 1.50 m <b>galvanized</b> | 111981   | 10.0 | 60   |
| Length: 1.20 m - 2.00 m <b>painted</b>    | 11103    | 13.0 | 60   |
| Length: 1.20 m - 2.00 m <b>galvanized</b> | 111983   | 13.0 | 60   |



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, disc and the bail are galvanized also on painted form-work props.



Window prop also with hand crush guard

### Window prop also with hand crush guard

Cross-bracing clamp for all pops 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

| 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   |

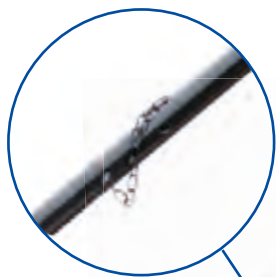
For the same applications, but **heavier** design with square tube

| 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





### 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 |
|-------|----------|------|------|
| paint | 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 |
|------------|----------|------|------|
| paint      | 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 |
|------------|----------|-----|------|
| paint      | 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 |
|-------|----------|------|------|
| paint | 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 |
|-------------|----------|-----|------|
| red 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

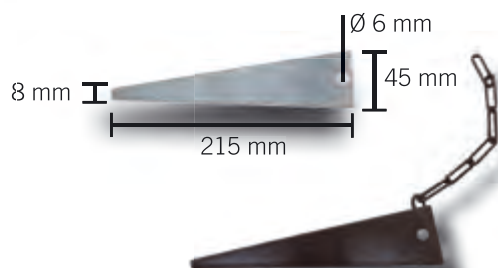
|                              | Part-No. | kg  | Unit |
|------------------------------|----------|-----|------|
| Formwork length: 0 - 750 mm  | 111951   | 5.0 | 10   |
| Formwork length: 0 - 900 mm  | 111952   | 5.2 | 10   |
| Formwork length: 0 - 1150 mm | 111953   | 5.5 | 10   |



### 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

|                          | Part-No. | kg  | Unit |
|--------------------------|----------|-----|------|
| untreated, without chain | 101951   | 0.3 | 1    |
| painted, with chain      | 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

|                           | Part-No. | kg  |
|---------------------------|----------|-----|
| untreated, Length: 6.20 m | 11310    | 9.3 |

|                            |        |     |
|----------------------------|--------|-----|
| galvanized, Length: 6.20 m | 11310V | 9.3 |
|----------------------------|--------|-----|

| 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 Pperm. 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 Pperm. 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 |
|--------------------------------|---------|------|---|

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

**brown painted**

| Part-No. | kg  | Unit |
|----------|-----|------|
| 112773   | 4.0 | 1    |

**galvanized**

|        |     |   |
|--------|-----|---|
| 112774 | 4.0 | 1 |
|--------|-----|---|

**Corner railing post**

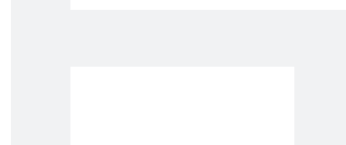
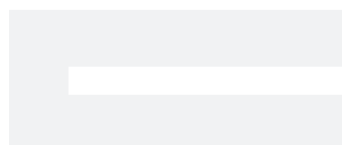
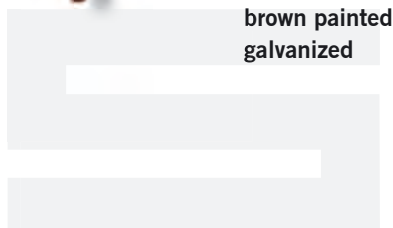
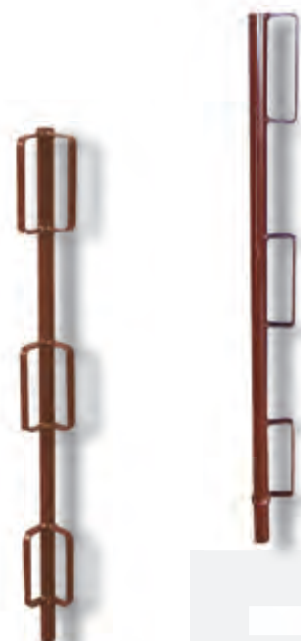
Corner railing posts have double the number of brackets welded in a 90° angle to each other so fall arresters can be installed around corners. Height of the corner railing post: 1.00 m above ground

**brown painted**

| Part-No. | kg  | Unit |
|----------|-----|------|
| 112777   | 4.0 | 1    |

**galvanized**

|        |     |   |
|--------|-----|---|
| 112778 | 4.0 | 1 |
|--------|-----|---|







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

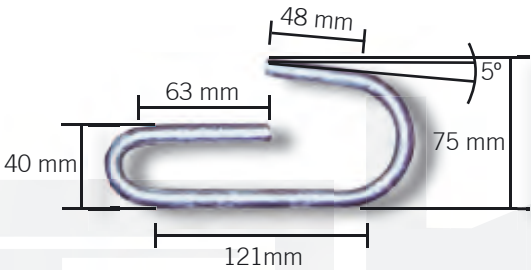
|                   | Part-No. | kg   | Unit |
|-------------------|----------|------|------|
| <b>painted</b>    | 10127S   | 44.0 | 5    |
| <b>galvanized</b> | 10127VS  | 44.0 | 5    |

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 |
|-------------------|----------|-----|------|
| <b>galvanized</b> | 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 |
|-------------------|----------|------|------|
| <b>painted</b>    | 10128    | 30.0 | 1    |
| <b>galvanized</b> | 10128V   | 31.0 | 1    |

Width: 1.20 m

Height: 0.65 m - 1.10 m

|                   | Part-No. | kg   | Unit |
|-------------------|----------|------|------|
| <b>painted</b>    | 101281   | 26.0 | 1    |
| <b>galvanized</b> | 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 |
|-------------------|----------|------|------|
| <b>painted</b>    | 10130    | 42.0 | 1    |
| <b>galvanized</b> | 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 |
|---------------|----------|-----|------|
| brown 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 |
|---------------|----------|-----|------|
| brown painted | 11278    | 4.0 | 1    |
| galvanized    | 11278V   | 4.0 | 1    |

12 cm



### Scaffolding stand "Standard"

solid steel construction for universal use in building construction, consists of a three-legged base with welded outside tube Ø 51 mm and extensible inner tube Ø 42 mm with welded U-head for square timber; different height settings by captive pin

|                                | Part-No. | kg  | Unit |
|--------------------------------|----------|-----|------|
| brown painted                  |          |     |      |
| Size 1 Height: 0.60 m - 0.90 m | 10111    | 6.0 | 10   |
| Size 2 Height: 0.90 m - 1.50 m | 10112    | 7.0 | 10   |
| Size 3 Height: 1.10 m - 1.80 m | 10113    | 8.0 | 10   |
| Size 4 Height: 1.25 m - 2.05 m | 10114    | 8.5 | 10   |

**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<br>Height: 0.55 m - 0.90 m | 10140    | 25.5 | 5    |

**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<br>Height: 0.55 m - 0.90 m | 10141    | 11.0 | 5    |

**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 |
|-------------------------------|----------|------|------|
| <b>2 steps:</b>               |          |      |      |
| Width: 1.00 m, Height: 0.70 m | 10150    | 13.5 | 1    |
| Width: 0.60 m, Height: 0.70 m | 10151    | 10.5 | 1    |
| <b>3 steps:</b>               |          |      |      |
| Width: 0.60 m, Height: 1.20 m | 10152    | 16.0 | 1    |
| Width: 1.00 m, Height: 1.20 m | 10154    | 20.0 | 1    |

**Rubber feet**

for ladder steps

|  | Part-No. | kg  | Unit |
|--|----------|-----|------|
|  | 10153    | 0.2 | 1    |





### 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 bracket

as fall arrester when working at a height. The bracket makes the guard rail clamp particularly suitable for work on staircases. 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. Clamping range up to 40 cm

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| painted    | 111931   | 7.5 | 10   |
| galvanized | 111941   | 8.0 | 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    |

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



## Bracket scaffolding hanger

|  | Part-No. | kg  | Unit |
|--|----------|-----|------|
| galvanized                                 | 11293    | 6.4 | 1    |
| galvanized,<br>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,<br>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   |



## Side protection

for bracket scaffold

|            | Part-No. | kg   | Unit |
|------------|----------|------|------|
| galvanized | 11292    | 11.0 | 1    |

# 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 avoid accident 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.**

In this respect, our distributors, building contractors and individual builders are our customers. We put the human factor in the focus of all we do.

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 - pages 88 - 95**

Trench shoring  
Wooden trench bridge  
Aluminium trench bridge  
Special construction







**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.



|         |  | <b>Part-No.</b> | <b>kg</b> | <b>Unit</b> |
|---------|--|-----------------|-----------|-------------|
| Size 1  | 0.50 m - 0.80 m<br>39.90 kN - 37.20 kN | 20211           | 5.2       | 1           |
| Size 1a | 0.60 m - 0.90 m<br>39.90 kN - 34.10 kN | 20212           | 5.5       | 1           |
| Size 2  | 0.80 m - 1.10 m<br>39.50 kN - 29.40 kN | 20213           | 6.2       | 1           |
| Size 3  | 1.10 m - 1.40 m<br>37.70 kN - 29.30 kN | 20214           | 7.0       | 1           |
| Size 4  | 1.40 m - 1.70 m<br>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.

**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



|        |                                       | <b>Part-No.</b> | <b>kg</b> | <b>Unit</b> |
|--------|---------------------------------------|-----------------|-----------|-------------|
| Size 1 | 0.70 m - 1.17 m<br>65.50 kN- 61.10 kN | 20231           | 8.0       | 1           |
| Size 2 | 0.90 m - 1.50 m<br>65.50 kN- 59.90 kN | 20232           | 10.0      | 1           |
| Size 3 | 1.20 m - 2.10 m<br>60.10 kN- 51.70 kN | 20233           | 13.0      | 1           |

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



**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<br>100.00 kN - 100.00 kN | 20241    | 17.0 | 1    |
| Size 2 | 1.40 m - 2.00 m<br>100.00 kN - 96.90 kN  | 20242    | 20.0 | 1    |
| Size 3 | 1.90 m - 2.50 m<br>98.80 kN - 83.90 kN   | 20243    | 23.0 | 1    |
| Size 4 | 2.40 m - 3.00 m<br>80.80 kN - 75.30 kN   | 20244    | 26.0 | 1    |

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

**Conditions for using trench shorings and shaft heads**

- 1.) Reinforcement materials may only be used in accordance with the regulations.
- 2.) Before reinforcement materials are used their condition must be checked.
- 3.) 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.
- 4.) 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.
- 5.) 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.
- 6.) 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.
- 7.) 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.
- 8.) 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.
- 9.) 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.
- 10.) Adjustable support plate angles in trench shoring must be set so that the braces are loaded in the centre.
- 11.) It is imperative to ensure that the corrosion protection applied is maintained. Threaded parts must be well greased.



**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  |



**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 |
|---------------------------|----------|------|------|
| paintred, 150 mm x 150 mm | 101911   | 10.0 | 1    |
| paintred, 200 mm x 200 mm | 10191    | 12.0 | 1    |





### 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 / m<sup>2</sup>

|                               | Part-No. | kg    | Unit |
|-------------------------------|----------|-------|------|
| Width: 1.00 m. Length: 1.70 m | 20250    | 45.0  | 5    |
| Width: 1.00 m. Length: 2.20 m | 20251    | 55.0  | 5    |
| Width: 1.00 m. Length: 2.70 m | 20252    | 70.0  | 5    |
| Width: 1.00 m. Length: 3.20 m | 20254    | 100.0 | 5    |



Anti-slip cover



Impregnation

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







## 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.

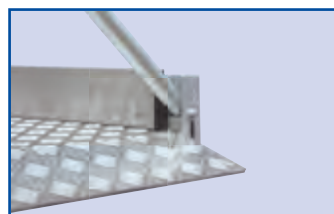
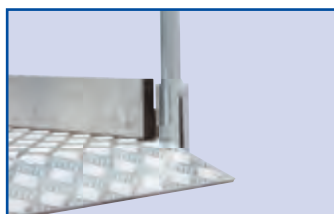
Load: 200 kg /m<sup>2</sup>

|                               | 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  | 92.0  | 1    |
| Width: 1.20 m, Length: 3.20 m | 2027312  | 116.0 | 1    |

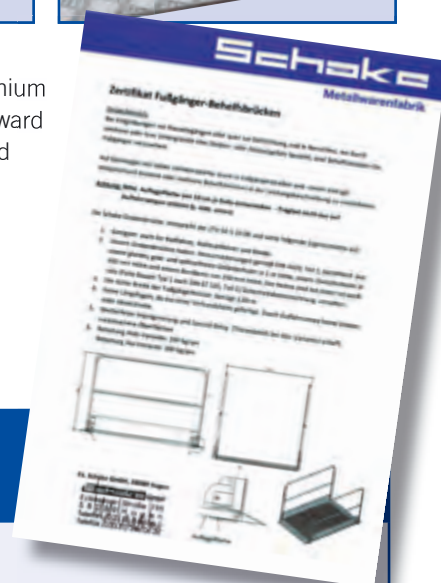
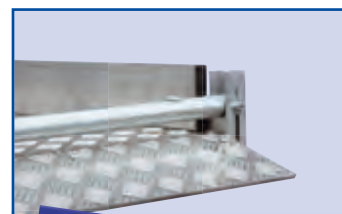
Other widths and lengths available.



The red-white-red reflection stripes on the side rails provide more safety in at dusk/dawn or at night.



The side railings of the aluminium ditch bridge can be folded inward for space-saving transport and storage.



## Temporary pedestrian bridges

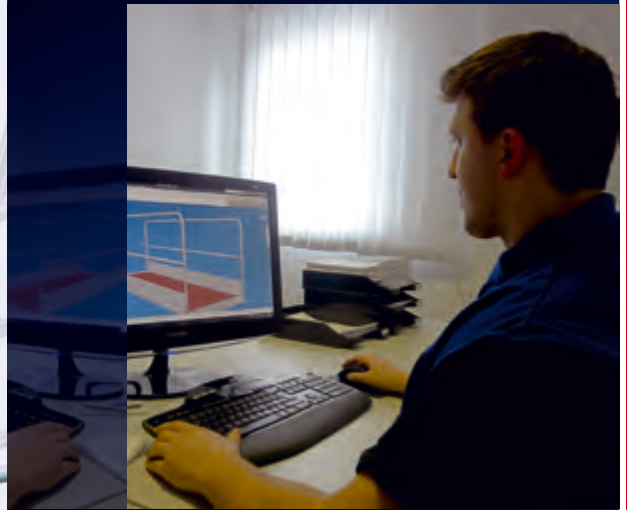
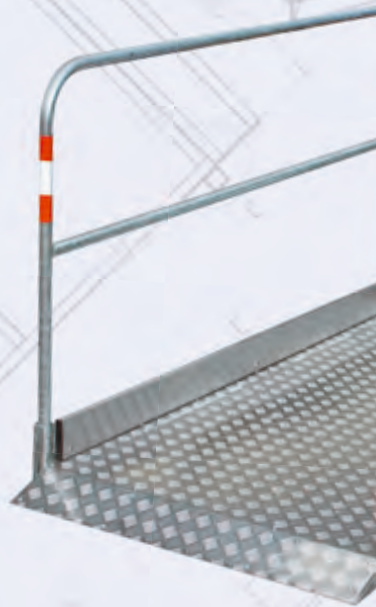
### Instructions for installation and use:

1. If excavations are being done in front of house entrances or across footpaths and in areas where there is a danger of tripping or falling due to uneven or loose earth, temporary pedestrian bridges must be provided.
2. Pedestrian bridges must also be suitable for cyclists, wheelchair users and the blind.
3. If the excavations are small or if the soil is loose or uneven, steel plates can also be used.
4. Pedestrian bridges must have safety barriers in accordance with DIN 4420 part 1, consisting of smooth, ridge and splinter-free rail beams 1 m high. Cross beams 500 mm high and a safety board form 250 mm high or, deviating from DIN 4420 part1, barricade touch panels for blind people in the form of a barricade panel 100 mm high (lower edge 150 mm high). The beams must have a red – white - red (design type 1 foil compliant with DIN 67520 part 2) or bright orange (RAL 2005) – white safety marking. Barricade panels can also be used as beams.
5. Pedestrian bridges must have a clearance of at least 1 m.
6. On busy footpaths or in pedestrian streets and precincts a appropriately large number of wider pedestrian bridges should be agreed in the performance specifications.
7. The flooring must not have longitudinal joints more than 10 m wide. Gaps of more than 15 mm from the ground must be ramped.
8. Slip-free surfaces must be agreed in the performance specifications.

# 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.



## 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.



## Storage technology - pages 96 - 101

Stackable pallet  
Solid wall pallet  
Mesh box  
Special construction







### Stackable pallet

for universal use for the storage of long goods, vertical tubes are made of  $\varnothing 57$  mm round tube, cross tubes of  $\varnothing 48.3$  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

|            | Part-No. | kg   | Unit |
|------------|----------|------|------|
| paint      | 50100    | 19.0 | 5    |
| galvanized | 50102    | 20.0 | 5    |

### Stackable pallet

for universal use for the storage of long goods, vertical tubes are made of  $\varnothing 57$  mm round tube, cross tubes of  $\varnothing 48.3$  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

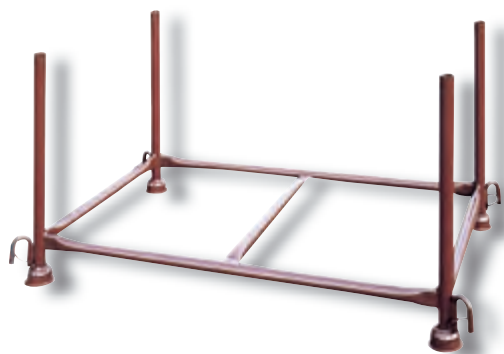
|                                   | Part-No. | kg   | Unit |
|-----------------------------------|----------|------|------|
| paint                             | 50110    | 25.0 | 5    |
| galvanized                        | 50120    | 26.0 | 5    |
| paint, with closed ring eyes      | 501101   | 25.0 | 5    |
| galvanized, with closed ring eyes | 501201   | 26.0 | 5    |

### Stackable pallet

for universal use for the storage of long goods, vertical tubes are made of 60 mm x 60 mm square tube, 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, "robust design for special heavy loads."

|                          | Part-No. | kg   | Unit |
|--------------------------|----------|------|------|
| paint                    | 50111    | 36.0 | 5    |
| 1.30 m x 0.70 m x 0.70 m | 501111   | 37.0 | 5    |
| 1.43 m x 0.87 m x 0.70 m |          |      |      |



**Stackable pallet**

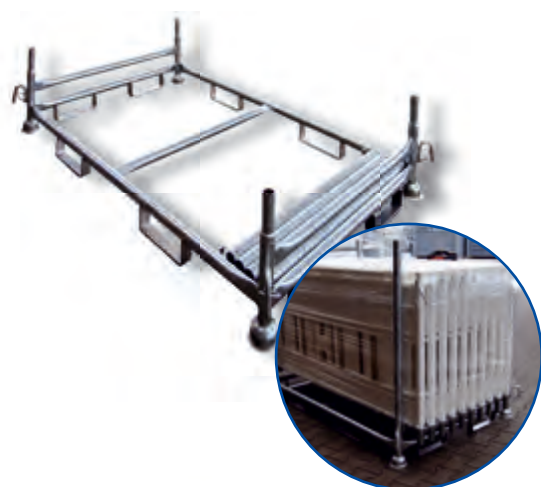
for universal use for the storage of long goods, vertical and cross tubes are made of Ø 48.3 mm round tube, inside dimensions: 1.43 m x 0.87 m x 0.70 m, with additional center welded cross tube, the pallet can carry loads up to 1.5 t, can be moved by fork-lift truck, platform floor truck or crane, the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

|            | Part-No. | kg   | Unit |
|------------|----------|------|------|
| paint      | 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 |
|------------|----------|------|------|
| paint      | 50200    | 27.0 | 9    |
| galvanized | 50210    | 28.0 | 9    |

**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

|            | Part-No. | kg   | Unit |
|------------|----------|------|------|
| galvanized | 32001    | 67.0 | 5    |

**Board retainer**

suitable for pallets with vertical tubes Ø 48.3 mm, for longitudinal and transversal boards for side loading on the pallet

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| paint      | 50103    | 2.0 | 1    |
| galvanized | 50101    | 2.0 | 1    |

**Board retainer**

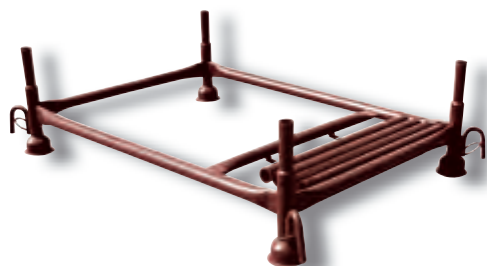
suitable for pallets with vertical tubes Ø 57 mm, for longitudinal and transversal boards for side loading on the pallet

|            | Part-No. | kg  | Unit |
|------------|----------|-----|------|
| paint      | 50114    | 2.0 | 1    |
| galvanized | 50112    | 2.0 | 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 |
|--------|----------|------|------|
| paint  | 50141    | 25.0 | 5    |
| galvan | 50142    | 26.0 | 5    |

**Stackable pallet**

for universal use for the storage of long goods, vertical and cross tubes are made of Ø 48.3 m round tube, inside dimensions: 1.20 m x 0.80 m x 0.70 m, with additional center welded offset cross tube, the pallet can carry loads up to 1.0 t, can be moved by fork-lift truck, 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

|        | Part-No. | kg   | Unit |
|--------|----------|------|------|
| paint  | 50400    | 25.0 | 5    |
| galvan | 50401    | 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

|        | Part-No. | kg   | Unit |
|--------|----------|------|------|
| galvan | 50143    | 40.0 | 1    |

**Stackable pallet of square tube 60 x 60**

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 |
|--------|----------|------|------|
| galvan | 50115    | 52.0 | 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 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 |
|--------|----------|------|------|
| paint  | 50380    | 32.0 | 1    |
| galvan | 50380V   | 32.0 | 1    |







## Pallet for crowd barrier

for easy transport, specifically for crowd barriers, of sturdy square tube, vertical tubes can be taken out

|            | Part-No. | kg   | Unit |
|------------|----------|------|------|
| galvanized | 419.05   | 46.0 | 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    |



# 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.



## 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.

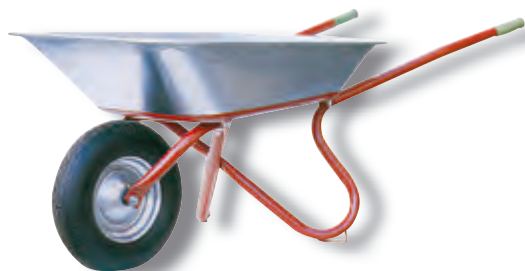


## Transport equipment - pages 102 - 111

Wheelbarrow  
Hand truck  
Crane and loading fork







### 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,<br><b>plastic plain bearings</b>                   | 50900EXGL   | 19.0 | 1    |
| - Inflatable tire 400/100 on steel rim,<br><b>grooved ball bearings</b>                    | 50900EXKL   | 19.0 | 1    |
| - <b>Polyurethane wheel,</b><br>grooved ball bearings                                      | 50900EXPU   | 19.0 | 1    |
| - Inflatable tire 400/100 on steel rim,<br>grooved ball bearings,<br><b>bent handlebar</b> | 50900EXKLKI | 19.0 | 1    |

#### "Export" unassembled

|  |           |      |   |
|--|-----------|------|---|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 51900EXGL | 19.0 | 1 |
| - Inflatable tire 400/100 on steel rim,<br><b>grooved ball bearings</b>  | 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<br>with 2 nails |          |     |      |



### 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

| Part-No.   | kg             | Unit |
|--|----------------|------|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 50970PRGL 16.0 | 1    |
| - Inflatable tire 400/100 on steel rim,<br><b>grooved ball bearings</b>  | 50970PRKL 16.0 | 1    |

#### "Praktica" 85 unassembled

|  |                |   |
|--|----------------|---|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 51970PRGL 16.0 | 1 |
|--|----------------|---|



#### "Praktica" 120 assembled

| Part-No.   | kg               | Unit |
|--|------------------|------|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 50970PRGL12 19.0 | 1    |
| - Inflatable tire 400/100 on steel rim,<br><b>grooved ball bearings</b>  | 50970PRKL12 19.0 | 1    |

#### "Praktica" 120 unassembled

|  |                  |   |
|--|------------------|---|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 51970PRGL12 19.0 | 1 |
| - Inflatable tire 400/100 on steel rim,<br><b>grooved ball bearings</b>  | 51970PRKL12 19.0 | 1 |



#### "Praktica" 150 assembled

| Part-No.   | kg               | Unit |
|--|------------------|------|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 50970PRGL15 21.0 | 1    |

#### "Praktica" 150 unassembled

|  |                  |   |
|--|------------------|---|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 51970PRGL15 21.0 | 1 |
|--|------------------|---|

#### Accessories

| Part-No.                   | kg             | Unit |
|----------------------------|----------------|------|
| Frame                      | 50971GPR 6.0   | 1    |
| Pan galvanized, 85 liters  | 50985MPRCP 6.8 | 1    |
| Pan galvanized, 120 liters | 50972MPR 9.8   | 1    |
| Pan galvanized, 150 liters | 50973MPR 11.8  | 1    |
| Accessories bag with:      | 5Z10325 0.6    | 1    |

- 4 pan screws
- Axle complete
- 2 wooden handles, tapered



**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**

|  | Part-No.  | kg   | Unit |
|--|-----------|------|------|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 50940EUGL | 17.0 | 1    |
| - Inflatable tire 400/100 on steel rim,<br><b>grooved ball bearings</b>  | 50940EUKL | 17.0 | 1    |
| - <b>Polyurethane yellow,</b><br>grooved ball bearings                   | 50940EUPU | 17.0 | 1    |

**"Eurocar"****with galvanized pan, unassembled**

|  |           |      |   |
|--|-----------|------|---|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 51940EUGL | 17.0 | 1 |
| - Inflatable tire 400/100 on steel rim,<br><b>grooved ball bearings</b>  | 51940EUKL | 17.0 | 1 |

**"Eurocar" PP pan,  
yellow, assembled**

|  | Part-No.    | kg   | Unit |
|--|-------------|------|------|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 50940EUPPGL | 17.0 | 1    |

**"Eurocar" PP pan,  
yellow, unassembled**

|  |             |      |   |
|--|-------------|------|---|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 51940EUPPGL | 17.0 | 5 |
|--|-------------|------|---|

**Accessories**

|                             | Part-No. | kg  | Unit |
|-----------------------------|----------|-----|------|
| Frame                       | 50941GEU | 6.0 | 1    |
| Pan galvanized, 100 liters  | 50941MEU | 6.8 | 1    |
| Pan, 100 liters, PP         | 50986MPP | 5.0 | 1    |
| Accessories bag with:       | 5Z10318  | 0.7 | 1    |
| - 5 pan screws              |          |     |      |
| - Axle complete             |          |     |      |
| - 2 wooden handles, tapered |          |     |      |

**Spare wheel, inflatable, with**

|                        | Part-No. | kg  | Unit |
|------------------------|----------|-----|------|
| plastic plain bearings | 50989RGL | 2.5 | 1    |
| grooved ball bearings  | 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

| <b>"Matador" assembled</b>   | <b>Part-No.</b> | <b>kg</b> | <b>Unit</b> |
|--|-----------------|-----------|-------------|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 50930MAGL       | 25.0      | 1           |
| - Inflatable tire 400/100 on steel rim,<br><b>grooved ball bearings</b>  | 50930MAKL       | 25.0      | 1           |
| - Solid tire,<br>roller bearings   | 50930MARL       | 28.0      | 1           |

**"Matador" unassembled**

|  |           |      |   |
|--|-----------|------|---|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 51930MAGL | 25.0 | 1 |
|--|-----------|------|---|

| <b>Accessories</b>              | <b>Part-No.</b> | <b>kg</b> | <b>Unit</b> |
|---------------------------------|-----------------|-----------|-------------|
| Frame                           | 50931GMA        | 10.5      | 1           |
| Pan                             | 50931MMA        | 9.7       | 1           |
| Support                         | 50983           | 1.0       | 1           |
| Accessories bag with:           | 5Z10381         | 0.8       | 1           |
| - 6 pan screws                  |                 |           |             |
| - Axle complete                 |                 |           |             |
| - 2 wooden handles, with screws |                 |           |             |

**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



| <b>"Carry" assembled</b>   | <b>Part-No.</b> | <b>kg</b> | <b>Unit</b> |
|--|-----------------|-----------|-------------|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 50960CAGL1      | 14.0      | 1           |
| <b>"Carry" unassembled</b>   |                 |           |             |
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 51960CAGL       | 14.0      | 1           |
| - Inflatable tire 400/100 on steel rim,<br><b>grooved ball bearings</b>  | 51960CAKL       | 14.0      | 1           |

**"Carry" "S"****with additional sheet metal bottom, assembled**

|  |            |      |   |
|--|------------|------|---|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 50960CAGL2 | 14.0 | 1 |
|--|------------|------|---|

| <b>Accessories</b>         | <b>Part-No.</b> | <b>kg</b> | <b>Unit</b> |
|----------------------------|-----------------|-----------|-------------|
| 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            |                 |           |             |



### Wheelbarrow "Becker 85"

stackable welded frame with steel sheet bottom, steel tube Ø 34 mm, wall thickness 1.5 mm, galvanized 85 liter pan, with wire reinforcement all around, plastic handles



#### "Becker 85" assembled

- Inflatable tire 400/100 on steel rim,  
**plastic plain bearings**

| Part-No.   | kg   | Unit |
|------------|------|------|
| 50920BEG L | 14.0 | 1    |

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

|           |      |   |
|-----------|------|---|
| 50920BEKL | 14.0 | 1 |
|-----------|------|---|

#### "Becker 85" unassembled

- Inflatable tire 400/100 on steel rim,  
**plastic plain bearings**

|            |      |   |
|------------|------|---|
| 51920BEG L | 14.0 | 1 |
|------------|------|---|

#### Accessories

Frame  
Pan, 85 liters  
Accessories bag with:  
- 4 pan screws  
- Axle complete

| Part-No. | kg  | Unit |
|----------|-----|------|
| 50921GBE | 6.2 | 1    |
| 50921MBE | 7.0 | 1    |
| 5Z10415  | 0.6 | 1    |

## Large stock – quick shipment:

### Stocks

Prompt delivery is often the decisive basis for long-term business relations today. Traders can rely on an ever wider range of products from Schake. We always have a large number of wheelbarrows and accessories in stock to serve distributors with our delivery service as the long arm of logistics.



**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**

|  | Part-No.    | kg   | Unit |
|--|-------------|------|------|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 50910AL85GL | 12.0 | 1    |
| - Inflatable tire 400/100 on steel rim,<br><b>grooved ball bearings</b>  | 50910AL85KL | 12.0 | 1    |

**"Allcar 85" unassembled**

|  |             |      |   |
|--|-------------|------|---|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 51910AL85GL | 12.0 | 1 |
|--|-------------|------|---|

**"Allcar 100" assembled**

|  |           |      |   |
|--|-----------|------|---|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 50910ALGL | 14.0 | 1 |
| - Inflatable tire 400/100 on steel rim,<br><b>grooved ball bearings</b>  | 50910ALKL | 14.0 | 1 |

**"Allcar 100" unassembled**

|  |           |      |   |
|--|-----------|------|---|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 51910ALGL | 14.0 | 1 |
| - Inflatable tire 400/100 on steel rim,<br><b>grooved ball bearings</b>  | 51910ALKL | 14.0 | 1 |

**"Allcar 100 PP" assembled**

|  |             |      |   |
|--|-------------|------|---|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 50910ALPPGL | 13.0 | 1 |
| - Inflatable tire 400/100 on steel rim,<br><b>grooved ball bearings</b>  | 50910ALPPKL | 13.0 | 1 |

**"Allcar 100 PP" unassembled**

|  |             |      |   |
|--|-------------|------|---|
| - Inflatable tire 400/100 on steel rim,<br><b>plastic plain bearings</b> | 51910ALPPGL | 13.0 | 1 |
|--|-------------|------|---|

**Accessories**

|                                    | Part-No.   | kg  | Unit |
|------------------------------------|------------|-----|------|
| Frame with pan support and handles | 50911GAL   | 6.3 | 1    |
| Pan galvanized, 85 liters          | 50911MAL85 | 4.9 | 1    |
| Pan galvanized, 100 liters         | 50987MALGA | 5.2 | 1    |
| Pan, 100 liters, PP                | 50986MPP   | 5.0 | 1    |
| Accessories bag with:              | 5Z10327    | 0.7 | 1    |

- 5 pan screws
- Axle complete







### 2-wheelbarrow "DUO 85 L"

pan-supporting tubular steel frame, steel tube Ø 34 mm, wall thickness 1.5 mm, feet welded opposite each other, galvanized 85-liter pan, pan edge with reinforcing wire all round, sheet metal thickness 1.00 mm, plastic handles, 2 inflatable tires 400/100 on steel rim, precision grooved ball bearings



#### „DUO 85 L“

- assembled
- unassembled

| Part-No.  | kg   | Unit |
|-----------|------|------|
| 50980CPKL | 19.0 | 1    |
| 51980CPKL | 19.0 | 1    |

#### Accessories

- Accessories bag with:
- 4 countersunk head screws 118
  - 4 hexagon nuts 118
  - 4 washers A 17
  - 4 circlips A 17

| Part-No. | kg  | Unit |
|----------|-----|------|
| 5Z10380  | 0.8 | 1    |

### Heavy-duty tilting wheelbarrow "Compact"

angle iron frame with plastic handles, tilts material completely, easy tilting, tilts 180°, total width: 78 cm, inflatable tire 400 / 100 on steel rim, crane eyes, **shipped assembled only**



- 150 ltr
- 200 ltr
- 250 ltr

| Part-No.   | kg   | Unit |
|------------|------|------|
| 50950KIRL1 | 40.0 | 1    |
| 50950KIRL2 | 46.0 | 1    |
| 50950KIRL3 | 51.0 | 1    |

#### Accessories

- Frame for heavy-duty tilting wheelbarrow 150 liters
- Frame for heavy-duty tilting wheelbarrow 200/250 liters
- Pan, 150 liters
- Pan, 200 liters
- Pan, 250 liters
- Accessories bag with:
- 2 pins 16H11,
  - 1 pin 18H11,
  - 2 split pins 3.2 x 3.2,
  - 1 split pins 2 x 20,
  - 2 washers 1124,
  - 1 lock

| Part-No. | kg   | Unit |
|----------|------|------|
| 50951GKI | 14.0 | 1    |
| 50952GKI | 15.0 | 1    |
| 50951MKI | 22.5 | 1    |
| 50952MKI | 28.5 | 1    |
| 50953MKI | 32.0 | 1    |
| 5Z10310  | 0.8  | 1    |

**Tubular steel hand truck 200**

carries 200 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<br>steel rim | 51901    | 12.0 | 1    |
| - Solid tire 250 / 50 on<br>steel rim      | 51901VO  | 12.0 | 1    |

**Aluminium hand truck**

carries 200 kg, inflatable tire 260/85 on plastic rim, safety handles, plate size:  
400 mm x 175 mm, height 1.080 mm

|                                 | Part-No. | kg  | Unit |
|---------------------------------|----------|-----|------|
| - with inflatable tire 260 / 85 | 51902A   | 6.0 | 1    |

# Crane and loading fork, automatic weight compensation

- The models comply with UVV accident prevention regulations, applicable norms and guidelines
- 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 |
|----------|----------------|-----------------|----------------|-------------|---------------------------|----------------|--------|
| 50K15    | 1500 kg        | 350 - 900 mm    | 1300 - 2000 mm | 1000 mm     | 100 mm                    | 1600 - 2300 mm | 150 kg |
| 50K20    | 2000 kg        | 400 - 900 mm    | 1300 - 2000 mm | 1000 mm     | 120 mm                    | 1640 - 2340 mm | 200 kg |



Crane and loading fork 1500

| Model 1500 | Part-No. | kg    | Unit |
|------------|----------|-------|------|
|            | 50K15    | 150.0 | 1    |

Crane and loading fork 2000

| Modell 2000 | Part-No. | kg    | Unit |
|-------------|----------|-------|------|
|             | 50K20    | 200.0 | 1    |





## Transport securing device - pages 112 - 118

Lashing strap  
Endless sling  
Lifting sling  
Covering net





### Lashing strap, one-piece, with clamping lock

of polyester acc. to DIN EN 121965-2

| Part-No. | Strap width | Tensile force/daN | Length | kg   | Unit |
|----------|-------------|-------------------|--------|------|------|
| 50251-4K | 25.00 mm    | 200 / 400         | 4.00 m | 0.19 | 1    |
| 50251-6K | 25.00 mm    | 200 / 400         | 6.00 m | 0.26 | 1    |
| 50251-8K | 25.00 mm    | 200 / 400         | 8.00 m | 0.33 | 1    |

### Lashing strap, one-piece, with ratchet

of polyester acc. to DIN EN 121965-2



| Part-No.  | Strap width | Tensile force/daN | Length | kg   | Unit |
|-----------|-------------|-------------------|--------|------|------|
| 50251-4   | 25.00 mm    | 250 / 500         | 4.00 m | 0.30 | 1    |
| 50251-5   | 25.00 mm    | 250 / 500         | 5.00 m | 0.32 | 1    |
| 50251-6   | 25.00 mm    | 250 / 500         | 6.00 m | 0.35 | 1    |
| 50251-4P  | 25.00 mm    | 400 / 800         | 4.00 m | 0.30 | 1    |
| 50251-6P  | 25.00 mm    | 400 / 800         | 6.00 m | 0.35 | 1    |
| 50251-8P  | 25.00 mm    | 400 / 800         | 8.00 m | 0.40 | 1    |
| 50251-4PP | 25.00 mm    | 500 / 1000        | 4.00 m | 0.32 | 1    |
| 50251-6PP | 25.00 mm    | 500 / 1000        | 6.00 m | 0.38 | 1    |
| 50251-8PP | 25.00 mm    | 500 / 1000        | 8.00 m | 0.44 | 1    |
| 50351-4   | 35.00 mm    | 1000 / 2000       | 4.00 m | 0.68 | 1    |
| 50351-6   | 35.00 mm    | 1000 / 2000       | 6.00 m | 0.80 | 1    |
| 50351-8   | 35.00 mm    | 1000 / 2000       | 8.00 m | 0.92 | 1    |
| 50501-6   | 50.00 mm    | 2000 / 4000       | 6.00 m | 1.60 | 1    |
| 50501-8   | 50.00 mm    | 2000 / 4000       | 8.00 m | 1.81 | 1    |
| 50501-6P  | 50.00 mm    | 2500 / 5000       | 6.00 m | 1.81 | 1    |
| 50501-8P  | 50.00 mm    | 2500 / 5000       | 8.00 m | 2.05 | 1    |
| 50751-8   | 50.00 mm    | 5000 / 10000      | 8.00 m | 5.91 | 1    |

### Extra price for printed logo, per meter

single-color print "black", 1 logo can be printed on one meter strap.  
Minimum quantity: 200 pcs.

| Part-No.        | Strap width | Height   | Length   | Unit |
|-----------------|-------------|----------|----------|------|
| Part-No.+Logo 1 | 25.00 mm    | 20.00 mm | 50.00 mm | 200  |
| Part-No.+Logo 2 | 35.00 mm    | 25.00 mm | 50.00 mm | 200  |
| Part-No.+Logo 3 | 50.00 mm    | 30.00 mm | 50.00 mm | 200  |





## Lashing strap, 2-part, with clamping lock

of polyester acc. to DIN EN 121965-2

| Part-No. | Strap width | Tensile force/daN | Length | kg   | Unit |
|----------|-------------|-------------------|--------|------|------|
| 50252-4P | 25.00 mm    | 200/400           | 4.00 m | 0.31 | 1    |
| 50252-6P | 25.00 mm    | 200/400           | 6.00 m | 0.38 | 1    |
| 50252-8P | 25.00 mm    | 200/400           | 8.00 m | 0.45 | 1    |



## Lashing strap, 2-part, with ratchet

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

| Part-No.      | Strap width | Tensile force/daN | Length  | kg   | Unit |
|---------------|-------------|-------------------|---------|------|------|
| 50252-4       | 25.00 mm    | 250 / 500         | 4.00 m  | 0.41 | 1    |
| 50252-5       | 25.00 mm    | 250 / 500         | 5.00 m  | 0.44 | 1    |
| 50252-6       | 25.00 mm    | 250 / 500         | 6.00 m  | 0.47 | 1    |
| 50252-4P1     | 25.00 mm    | 400 / 800         | 4.00 m  | 0.37 | 1    |
| 50252-6P1     | 25.00 mm    | 400 / 800         | 6.00 m  | 0.42 | 1    |
| 50252-8P1     | 25.00 mm    | 400 / 800         | 8.00 m  | 0.47 | 1    |
| 50252-4P2     | 25.00 mm    | 500 / 1000        | 4.00 m  | 0.46 | 1    |
| 50252-6P2     | 25.00 mm    | 500 / 1000        | 6.00 m  | 0.53 | 1    |
| 50252-8P2     | 25.00 mm    | 500 / 1000        | 8.00 m  | 0.59 | 1    |
| 50352-4       | 35.00 mm    | 1000 / 2000       | 4.00 m  | 0.96 | 1    |
| 50352-6       | 35.00 mm    | 1000 / 2000       | 6.00 m  | 1.08 | 1    |
| 50352-8       | 35.00 mm    | 1000 / 2000       | 8.00 m  | 1.20 | 1    |
| 50502-6       | 50.00 mm    | 2000 / 4000       | 6.00 m  | 2.19 | 1    |
| 50502-8       | 50.00 mm    | 2000 / 4000       | 8.00 m  | 2.40 | 1    |
| 50502-8ERGO   | 50.00 mm    | 2000 / 4000       | 8.00 m  | 2.76 | 1    |
| 50502-10ERGO  | 50.00 mm    | 2000 / 4000       | 10.00 m | 2.97 | 1    |
| 50502-6P      | 50.00 mm    | 2500 / 5000       | 6.00 m  | 2.33 | 1    |
| 50502-8P      | 50.00 mm    | 2500 / 5000       | 8.00 m  | 2.60 | 1    |
| 50502-10P     | 50.00 mm    | 2500 / 5000       | 10.00 m | 2.85 | 1    |
| 50502-8PERGO  | 50.00 mm    | 2500 / 5000       | 8.00 m  | 3.00 | 1    |
| 50502-10PERGO | 50.00 mm    | 2500 / 5000       | 10.00 m | 3.90 | 1    |
| 50752-8       | 75.00 mm    | 5000 / 10000      | 8.00 m  | 6.75 | 1    |














### Endless sling with double sheath

made of heavy-duty fabric – acc. to DIN 60005 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.    | Strap width | Carrying power | Full length | Useful length | kg   | Unit |
|-------------|-------------|----------------|-------------|---------------|------|------|
| 50001-12    | 37.00 mm    | 1000 kg        | 2.00 m      | 1.0 m         | 0.30 | 1    |
| 50001-1,5/3 | 37.00 mm    | 1000 kg        | 3.00 m      | 1.5 m         | 0.39 | 1    |
| 50001-24    | 37.00 mm    | 1000 kg        | 4.00 m      | 2.0 m         | 0.60 | 1    |
| 50001-2,5/5 | 37.00 mm    | 1000 kg        | 5.00 m      | 2.5 m         | 0.63 | 1    |
| 50001-36    | 37.00 mm    | 1000 kg        | 6.00 m      | 3.0 m         | 0.85 | 1    |
| 50001-48    | 37.00 mm    | 1000 kg        | 8.00 m      | 4.0 m         | 1.00 | 1    |
| 50002-12    | 37.00 mm    | 2000 kg        | 2.00 m      | 1.0 m         | 0.45 | 1    |
| 50002-1,5/3 | 37.00 mm    | 2000 kg        | 3.00 m      | 1.5 m         | 0.70 | 1    |
| 50002-24    | 37.00 mm    | 2000 kg        | 4.00 m      | 2.0 m         | 0.88 | 1    |
| 50002-2,5/5 | 37.00 mm    | 2000 kg        | 5.00 m      | 2.5 m         | 1.16 | 1    |
| 50002-36    | 37.00 mm    | 2000 kg        | 6.00 m      | 3.0 m         | 1.30 | 1    |
| 50002-48    | 37.00 mm    | 2000 kg        | 8.00 m      | 4.0 m         | 1.84 | 1    |
| 50003-12    | 44.00 mm    | 3000 kg        | 2.00 m      | 1.0 m         | 0.63 | 1    |
| 50003-1,5/3 | 44.00 mm    | 3000 kg        | 3.00 m      | 1.5 m         | 0.92 | 1    |
| 50003-24    | 44.00 mm    | 3000 kg        | 4.00 m      | 2.0 m         | 1.24 | 1    |
| 50003-2,5/5 | 44.00 mm    | 3000 kg        | 5.00 m      | 2.5 m         | 1.63 | 1    |
| 50003-36    | 44.00 mm    | 3000 kg        | 6.00 m      | 3.0 m         | 1.53 | 1    |
| 50003-48    | 44.00 mm    | 3000 kg        | 8.00 m      | 4.0 m         | 2.60 | 1    |
| 50004-12    | 52.00 mm    | 4000 kg        | 2.00 m      | 1.0 m         | 0.87 | 1    |
| 50004-24    | 52.00 mm    | 4000 kg        | 4.00 m      | 2.0 m         | 1.70 | 1    |
| 50004-36    | 52.00 mm    | 4000 kg        | 6.00 m      | 3.0 m         | 2.55 | 1    |
| 50004-48    | 52.00 mm    | 4000 kg        | 8.00 m      | 4.0 m         | 3.40 | 1    |
| 50005-12    | 59.00 mm    | 5000 kg        | 2.00 m      | 1.0 m         | 1.05 | 1    |
| 50005-24    | 59.00 mm    | 5000 kg        | 4.00 m      | 2.0 m         | 2.05 | 1    |
| 50005-36    | 59.00 mm    | 5000 kg        | 6.00 m      | 3.0 m         | 3.05 | 1    |
| 50005-48    | 59.00 mm    | 5000 kg        | 8.00 m      | 4.0 m         | 4.05 | 1    |
| 50006-12    | 66.00 mm    | 6000 kg        | 2.00 m      | 1.0 m         | 1.20 | 1    |
| 50006-24    | 66.00 mm    | 6000 kg        | 4.00 m      | 2.0 m         | 2.50 | 1    |
| 50006-36    | 66.00 mm    | 6000 kg        | 6.00 m      | 3.0 m         | 3.70 | 1    |
| 50006-48    | 66.00 mm    | 6000 kg        | 8.00 m      | 4.0 m         | 4.90 | 1    |
| 50008-24    | 85.00 mm    | 8000 kg        | 4.00 m      | 2.0 m         | 3.10 | 1    |
| 50008-36    | 85.00 mm    | 8000 kg        | 6.00 m      | 3.0 m         | 4.60 | 1    |
| 50008-48    | 85.00 mm    | 8000 kg        | 8.00 m      | 4.0 m         | 6.15 | 1    |
| 50010-24    | 90.00 mm    | 10000 kg       | 4.00 m      | 2.0 m         | 3.83 | 1    |
| 50010-36    | 90.00 mm    | 10000 kg       | 6.00 m      | 3.0 m         | 5.72 | 1    |
| 50010-510   | 90.00 mm    | 10000 kg       | 10.00 m     | 5.0 m         | 9.51 | 1    |

|   |            |
|---|------------|
|  | 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 |



| Color  | One sling / one hoisting band   |   |   |   |   | Two slings / two hoisting bands  |   |   |   |
|--------|---|---|---|---|---|--|---|---|---|
|        | direct  | strung  | applied around, wound around  |   |   | direct   | strung  | direct  | strung  |
|        | 0°  | 0°  | 0°  | till 45°  | 45° - 60°   | till 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

| Part-No. | Strap width | Carrying power | Useful length | kg    | Unit |
|----------|-------------|----------------|---------------|-------|------|
| 50301-1  | 30 mm       | 1000 kg        | 1.00 m        | 0.23  | 1    |
| 50301-2  | 30 mm       | 1000 kg        | 2.00 m        | 0.40  | 1    |
| 50301-3  | 30 mm       | 1000 kg        | 3.00 m        | 0.58  | 1    |
| 50301-4  | 30 mm       | 1000 kg        | 4.00 m        | 0.77  | 1    |
| 50301-5  | 30 mm       | 1000 kg        | 5.00 m        | 0.93  | 1    |
| 50301-6  | 30 mm       | 1000 kg        | 6.00 m        | 1.10  | 1    |
| 50301-8  | 30 mm       | 1000 kg        | 8.00 m        | 1.43  | 1    |
| 50602-1  | 60 mm       | 2000 kg        | 1.00 m        | 0.44  | 1    |
| 50602-2  | 60 mm       | 2000 kg        | 2.00 m        | 0.85  | 1    |
| 50602-3  | 60 mm       | 2000 kg        | 3.00 m        | 1.14  | 1    |
| 50602-4  | 60 mm       | 2000 kg        | 4.00 m        | 1.55  | 1    |
| 50602-5  | 60 mm       | 2000 kg        | 5.00 m        | 1.90  | 1    |
| 50602-6  | 60 mm       | 2000 kg        | 6.00 m        | 2.25  | 1    |
| 50602-8  | 60 mm       | 2000 kg        | 8.00 m        | 2.50  | 1    |
| 50903-1  | 90 mm       | 3000 kg        | 1.00 m        | 0.69  | 1    |
| 50903-2  | 90 mm       | 3000 kg        | 2.00 m        | 1.24  | 1    |
| 50903-3  | 90 mm       | 3000 kg        | 3.00 m        | 1.79  | 1    |
| 50903-4  | 90 mm       | 3000 kg        | 4.00 m        | 2.45  | 1    |
| 50903-5  | 90 mm       | 3000 kg        | 5.00 m        | 2.98  | 1    |
| 50903-6  | 90 mm       | 3000 kg        | 6.00 m        | 3.53  | 1    |
| 50903-8  | 90 mm       | 3000 kg        | 8.00 m        | 4.63  | 1    |
| 50904-2  | 120 mm      | 4000 kg        | 2.00 m        | 1.88  | 1    |
| 50904-4  | 120 mm      | 4000 kg        | 4.00 m        | 3.46  | 1    |
| 50904-6  | 120 mm      | 4000 kg        | 6.00 m        | 5.04  | 1    |
| 50904-8  | 120 mm      | 4000 kg        | 8.00 m        | 6.62  | 1    |
| 50905-2  | 150 mm      | 5000 kg        | 2.00 m        | 2.45  | 1    |
| 50905-4  | 150 mm      | 5000 kg        | 4.00 m        | 4.45  | 1    |
| 50905-6  | 150 mm      | 5000 kg        | 6.00 m        | 6.45  | 1    |
| 50905-8  | 150 mm      | 5000 kg        | 8.00 m        | 8.45  | 1    |
| 50906-2  | 180 mm      | 6000 kg        | 2.00 m        | 2.95  | 1    |
| 50906-4  | 180 mm      | 6000 kg        | 4.00 m        | 5.40  | 1    |
| 50906-6  | 180 mm      | 6000 kg        | 6.00 m        | 7.38  | 1    |
| 50908-4  | 260 mm      | 8000 kg        | 4.00 m        | 7.20  | 1    |
| 50908-6  | 260 mm      | 8000 kg        | 6.00 m        | 10.40 | 1    |
| 50910-4  | 300 mm      | 10000 kg       | 4.00 m        | 9.15  | 1    |
| 50910-6  | 300 mm      | 10000 kg       | 6.00 m        | 13.21 | 1    |
| 50910-8  | 300 mm      | 10000 kg       | 8.00 m        | 17.30 | 1    |



|            |
|------------|
| 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 |



## 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  | 1    |
| 2     | 50KS02   | PU       | 50.00 mm       | fexibel | 100 mm      | 140mm        | 0.14  | 1    |
| 3     | 50KS03   | PE       | 50.00 mm       | 90°     | 135 mm      | 90 mm        | 0.07  | 1    |
| 4     | 50KS05   | PE       | 75.00 mm       | 100°    | 145 mm      | 179x131.5 mm | 0.23  | 1    |
| 5     | 50KS07   | PVC      | 50.00 mm       | tube    | 75 mm       | 250 mm       | 0.084 | 1    |
| 6     | 50KS10   | HDPE     | all types      | 90°     | 1000 mm     | 190 mm       | 2.15  | 1    |
| 7     | 50KS04   | metal    | 65.00 mm       | 84°     | 125 mm      | 85x70 mm     | 0.34  | 1    |



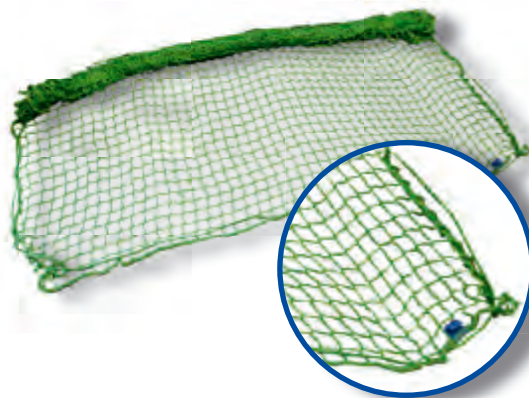
## Anti-slip mats

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. | Version | Sizes               | Thickness | kg    | Unit |
|----------|---------|---------------------|-----------|-------|------|
| 50KS08   | Reels   | 5 m / width: 250 mm | 8.00 mm   | 8.20  | 1    |
| 50KS09   | Pcs.    | 200 x 100 mm        | 8.00 mm   | 0.132 | 1    |





## 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 | 1    |
| 502025   | 2.00 x 2.50 m | 1.20 | 1    |
| 502030   | 2.00 x 3.00 m | 0.95 | 1    |
| 502035   | 2.00 x 3.50 m | 1.63 | 1    |
| 502535   | 2.50 x 3.50 m | 1.45 | 1    |
| 502540   | 2.50 x 4.00 m | 2.35 | 1    |
| 503035   | 3.00 x 3.50 m | 1.70 | 1    |
| 503040   | 3.00 x 4.00 m | 1.90 | 1    |

## 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 | 1    |
| 503060   | 3.00 x 6.00 m | 2.90 | 1    |
| 503070   | 3.00 x 7.00 m | 3.40 | 1    |
| 503080   | 3.00 x 8.00 m | 3.85 | 1    |
| 503550   | 3.50 x 5.00 m | 2.82 | 1    |
| 503570   | 3.50 x 7.00 m | 3.95 | 1    |



This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

## Exhibition and sample posts

The sturdy, stand-alone exhibition and sample post is ideal manner presentation.  
Barrier post and car-park barriers for indoor and outdoor installation.



### 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 470UZB

Foldable with Euro profile cylinder

### 3. Barrier post of steel tube 70 x 70 mm

type 470FBOH

Removable with triangular lock

### 4. Barrier post of 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

**The complete price for all barrier posts  
and car park barriers illustrated here (1-7)**

**EYE CATCHER  
for your sales area**



### “Barrier post” brochure rack

Ample space for your information material

- 4 x flyer
- 2 x catalogues

easy to move

eye-catching design

sturdy foot

Dimensions: 1300 x 350 x 350 mm

**Request your exclusive**

**“Barrier post” brochure rack now.**





## Barrier posts - pages 123 - 176

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



Barrier posts

## Stainless steel - pages 177 - 184

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



Stainless steel

## Barrier elements - pages 185 - 204

Tubular hoops  
Access barriers  
Height restriction barriers  
Barriers / railing systems



Barrier elements

## Barrier poles - pages 205 - 214

Swing barriers  
Access barriers  
Manual barriers



Barrier poles

## Outdoor equipment - pages 215 - 228

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



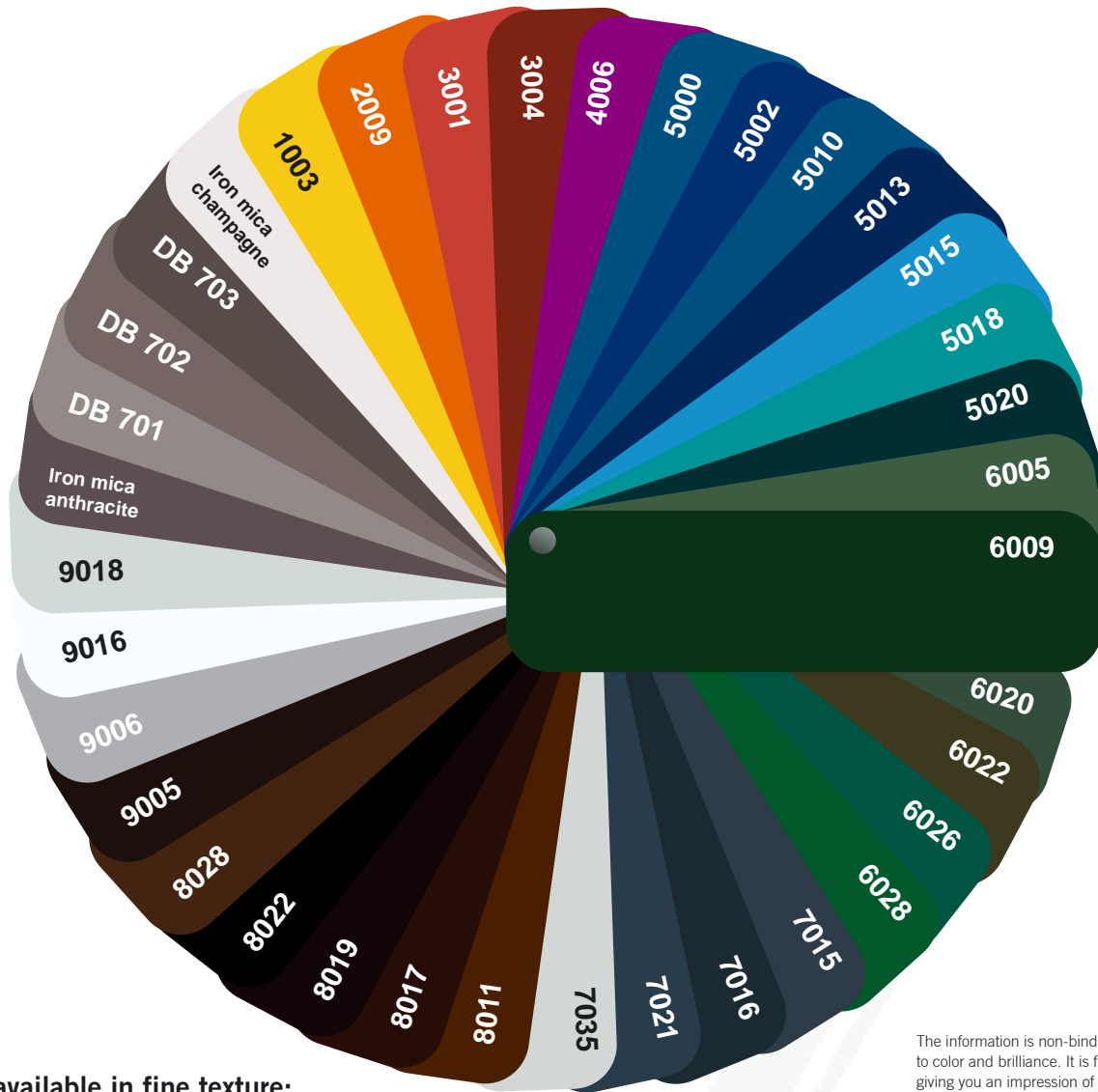
Outdoor equipment

## Works protection - pages 229 - 244

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



Works protection



## Also available in fine texture:

RAL 7016, DB 702, DB 703  
(non-stick coating)

## Two-colored:

white coated with red reflecting stripes

yellow coated with black stripes

Other RAL colors and special paint finishes  
on request.

## Extra charge for special coatings from the above color range

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

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

## Part-No.



Plastic film, reflecting red 110 x 285 mm  
Plastic film, reflecting black 110 x 285 mm  
Plastic film, yellow 110 x 285 mm  
Plastic film, reflecting white 110 x 285 mm  
Plastic film, reflecting red 110 x 330 mm  
Plastic film, reflecting red 110 x 350 mm  
Plastic film, reflecting red 110 x 500 mm  
Plastic film, reflecting black 110 x 500 mm  
Plastic film, reflecting red 150 x 250 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

430.18  
430.181  
430.181G  
430.181W  
430.182R  
430.183R  
430.184R  
430.184S  
430.185R  
430.19  
430.191  
430.191G  
430.191W





## Barrier posts - pages 123 - 176

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



Barrier posts

Stainless steel

Barrier elements

Barrier poles

Outdoor equipment

Works protection





### Eyelets

Ø inside 20 mm, outside 35 mm

welded to Ø 60 mm  
barrier post 460B/2



### Triangular lock

acc. with DIN 3223

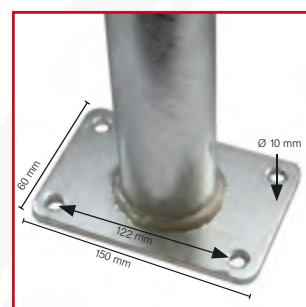
to Ø 60 mm  
barrier post 460FB



### Euro profile cylinder lock

with 3 keys, German  
proprietary brand

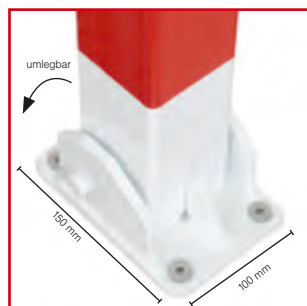
installed in Ø 60 mm  
barrier post 460ZB



### Base plate

for plugging or bolting to  
ground socket

Hole pitch: 70 x 122 mm



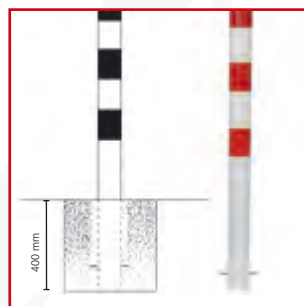
### Hinged base plate

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



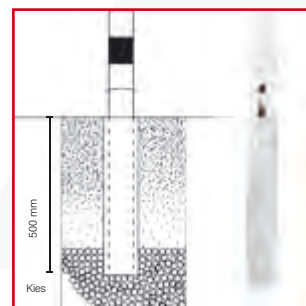
### Ground socket

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



### Foundation

approx. 250 x 250 mm



### Foundation

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

## Symbols

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

B = Coated (white with red reflecting stripes or other color finish)

D = Top inner triangular lock acc. with DIN 3223

F = Fire brigade triangular lock acc. with DIN 3223

H = Ground socket

P = Ground anchor plate for plugging down

U = Folding

V = Prepared for padlock

Z = Euro profile cylinder lock

+1 = 1 eyelet +2 = 2 eyelets



Special designs on request.

Design, appearance and function may change as  
design revisions take place. All dimensions are approx-  
imate. We are not responsible for printing mistakes.



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

### Barrier posts

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

### Stationary, for casting in concrete

Total length: 1300 mm

hot-dip galvanized

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

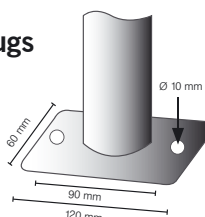
hot-dip galvanized and white coated with  
red reflecting stripes

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

### Stationary, to be fixed by plugs

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

hot-dip galvanized



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

hot-dip galvanized and white coated with  
red reflecting stripes

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

### Stationary, drive-in

with drive-in tip  
Total length: 1300 mm

hot-dip galvanized

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

hot-dip galvanized and white coated with  
red reflecting stripes

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

### Drive-in rod

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

hot-dip galvanized

|     |      |
|-----|------|
| 3.5 | 4043 |
|-----|------|

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

hot-dip galvanized

|     |      |
|-----|------|
| 4.0 | 4044 |
|-----|------|

4042B/2

4042PB/2

4042E/2

4043

4044



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

### Barrier posts

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

### Stationary, for casting in concrete

with ground anchor  
Total length: 1300 mm

hot-dip galvanized

approx.kg Part-No.

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

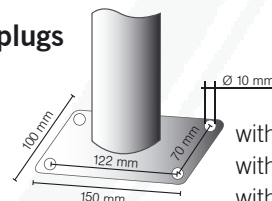
hot-dip galvanized and white coated with  
three red reflecting stripes

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

### 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 |

### Fire brigade guide posts

### Stationary, for casting in concrete

with ground anchor  
Total length: 900 mm

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

3.5 4061B



460B/2



460PB



4061B



Other lengths on request.



**Barrier posts**

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

**removable, without locking mechanism**

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



460HB

hot-dip galvanized

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

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

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

**removable, for padlock**

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



460VB

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



460UVB

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



Chains and further accessories, see pages 170-172.

**Barrier posts**

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

**Removable, with triangular locking mechanism**

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

**approx.kg      Part-No.**

hot-dip galvanized

|                |     |        |
|----------------|-----|--------|
| 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 |



460FB



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

**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



460ZB



**Separate ground socket**

1.5      460.40

**Cover with spring-action locking mechanism**

1.0      460.21

**Triangular wrench acc. white DIN 3223**

0.2      470.50

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

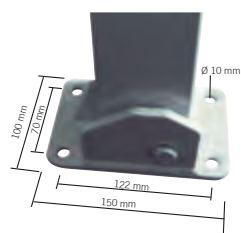
0.4      470.40

*For further accessories, see pages 170-172.*



## Barrier posts

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



## Foldable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock

### to be fixed by plugs

with base plate 100 x 150 mm

hot-dip galvanized

approx.kg

6.5

Part-No.

460FU

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

6.5

460FUB

### for casting in concrete

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

hot-dip galvanized

8.5

460FUH

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

8.5

460FUHB

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



460FUB

## 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

460UZH B

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



460UZB





476B

**Barrier posts**

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

**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 |

**Stationary, to be fixed by plugs**

with base plate 100 x 150 mm

hot-dip galvanized

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

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

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

**Stationary, can be tilted 30° to all sides**

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

hot-dip galvanized

6.5 4076P

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

6.5 4076PB

**Removable, with triangular locking mechanism**

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

hot-dip galvanized

12.0 476F

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

12.0 476FB



476PB



4076PB



476FB



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

**Barrier posts**

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

**Foldable, with triangular locking mechanism**

acc. with DIN 3223, self-engaging lock

**to be fixed by plugs**

with base plate 100 x 150 mm

hot-dip galvanized

7.0

476FU

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

7.0

476FUB

**for casting in concrete**

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

hot-dip galvanized

9.5

476FUH

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

9.5

476FUHB

**Foldable, with Euro profile cylinder lock**

three keys, self-engaging lock

**to be fixed by plugs**

with base plate 100 x 150 mm

hot-dip galvanized

7.5

476UZ

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

7.5

476UZB

**for casting in concrete**

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

hot-dip galvanized

9.5

476UZH

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

9.75

476UZH B

**Removable, with Euro profile cylinder lock**

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

hot-dip galvanized

12.0

476Z

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

12.5

476ZB



476FUB



470.60



476UZB



476ZB



7.5

476UZ

7.5

476UZB

9.5

476UZH

9.75

476UZH B

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

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

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



**Barrier posts**

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



489B



491B



493FB

**Stationary, for casting in concrete**

with ground anchor

Total length: approx. 1300 mm

hot-dip galvanized

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

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

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

**Removable, with triangular locking mechanism**

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

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

hot-dip galvanized

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

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

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



Barrier posts also available with eyelets; see page 172.



**Steel tube bollards removable**

for temporary removable  
1000 mm above ground


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

|   |                           |             |             |
|---|---------------------------|-------------|-------------|
|   | <b>Total length in mm</b> | <b>1500</b> | <b>2000</b> |
|   | <b>approx.kg</b>          | 26.0        | 32.0        |
| hot-dip galvanized  | <b>Part-No.</b>           | 40151H      | 40152H      |
| hot-dip galvanized and white coated with three red reflecting stripes | <b>Part-No.</b>           | 40151HB     | 40152HB     |

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

|   |                           |             |
|---|---------------------------|-------------|
|   | <b>Total length in mm</b> | <b>1500</b> |
|   | <b>approx.kg</b>          | 26.0        |
| hot-dip galvanized  | <b>Part-No.</b>           | 40151F      |
| hot-dip galvanized and white coated with three red reflecting stripes | <b>Part-No.</b>           | 40151FB     |

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

|   |                           |             |             |
|---|---------------------------|-------------|-------------|
|   | <b>Total length in mm</b> | <b>1500</b> | <b>2000</b> |
|   | <b>approx.kg</b>          | 38.0        | 50.0        |
| hot-dip galvanized  | <b>Part-No.</b>           | 40191H      | 40192H      |
| hot-dip galvanized and white coated with three red reflecting stripes | <b>Part-No.</b>           | 40191HB     | 40192HB     |

40191HB



Also available in yellow / black, see page 234. Other lengths on request.

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

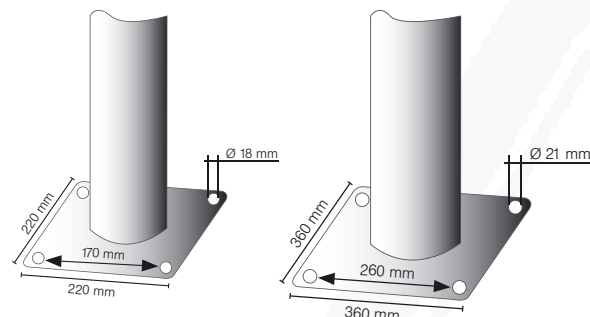


40153B

40151B

40191

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



Set of mounting bolts, see page 173.

### Steel tube bollards Ø 152 x 3.2 mm

with welded steel cap

hot-dip galvanized

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

### Stationary, for casting in concrete

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

for plugging down  
with base plate  
220 x 220 mm

### Steel tube bollards Ø 193 x 3.6 mm

with welded steel cap

hot-dip galvanized

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

### Stationary, for casting in concrete

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

for plugging down  
with base plate  
360 x 360 mm

### Steel cap for bolting

Replaces welded steel cap



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

Extra charge:

### Steel cap with concrete anchor

Replaces welded steel cap



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

Extra charge:



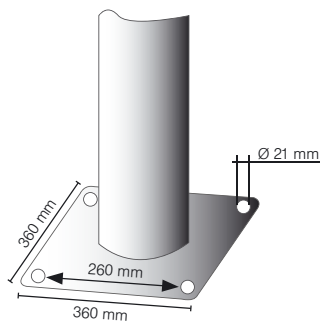
Also available in yellow / black, see page 232. Other lengths on request. Bollards are manufactured to order. Orders cannot be cancelled, bollards cannot be returned.



40273B



40271



Set of mounting bolts, see page 173.

for plugging down  
with base plate  
360 x 360 mm

**Steel tube bollards Ø 273 x 5 mm thick**  
with welded steel cap

**Stationary, for casting in concrete**

hot-dip galvanized

approx.kg  
Part-No.

| Total length in mm | 1500  | 2000  | 1500  |
|--------------------|-------|-------|-------|
|                    | 50.0  | 68.0  | 60.0  |
|                    | 40271 | 40272 | 40273 |

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

| Part-No. | 40271B | 40272B | 40273B |
|----------|--------|--------|--------|
|----------|--------|--------|--------|

**Steel cap with concrete anchor**

Replaces welded steel cap



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







470B

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

## Barrier posts

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

### Stationary, for casting in concrete

with ground anchor  
Total length: 1300 mm

hot-dip galvanized

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

**approx.kg    Part-No.**

|                |     |       |
|----------------|-----|-------|
| without eyelet | 7.0 | 470   |
| with 1 eyelet  | 7.0 | 470/1 |
| with 2 eyelets | 7.0 | 470/2 |

|                |     |        |
|----------------|-----|--------|
| 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

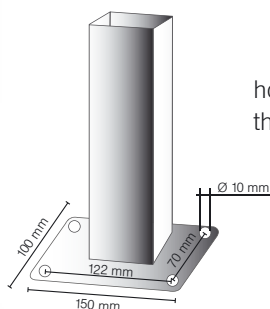
with base plate 100 x 150 mm

hot-dip galvanized

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

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

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



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



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

The sturdy, maintenance-free triangular locking mechanism acc. with DIN 3223 makes it easy to handle without much effort even after many years. All posts are hot-dip galvanized for longer life.

## Barrier posts

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



## Triangular locking mechanism

acc. with DIN 3223

## Removable, with triangular locking mechanism

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

hot-dip galvanized

|                |      |        |
|----------------|------|--------|
| without eyelet | 12.0 | 470F   |
| with 1 eyelet  | 12.0 | 470F/1 |
| with 2 eyelets | 12.0 | 470F/2 |

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

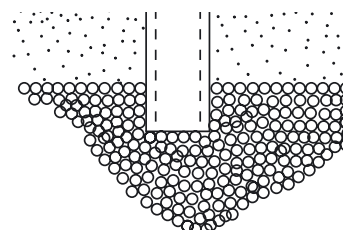
|                |      |         |
|----------------|------|---------|
| without eyelet | 12.0 | 470FB   |
| with 1 eyelet  | 12.0 | 470FB/1 |
| with 2 eyelets | 12.0 | 470FB/2 |



470FB



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



## Separate ground socket

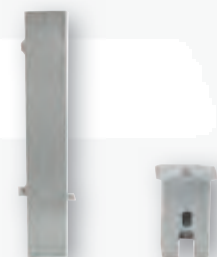
for safe deposition of the removed post

3.0 470.10

## Cover

with spring-loaded locking mechanism for ground socket

1.2 470.21



470.10

470.21

## Triangular wrench

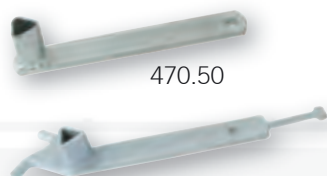
acc. with DIN 3223

0.2 470.50

## Multipurpose wrench

acc. with DIN 3223, also for opening the cover

0.4 470.40



470.50

470.40



For further accessories, see pages 170-172.



A barrier post for heavy-duty everyday service. Strong corrosion-protected (hot-dip galvanized) hinged base plate with strong hinge pin and sturdy, tear-proof mounting bracket.

The maintenance-free leaf spring-loaded locking mechanism can be opened by a DIN conforming triangular wrench without effort at any time.

### Barrier posts

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

### Triangular locking mechanism

acc. with DIN 3223

### Foldable, with triangular locking mechanism

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

#### to be fixed by plugs

with base plate 100 x 150 mm

hot-dip galvanized

**approx.kg** **Part-No.**

9.0 470FU

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

9.0 470FUB

#### for casting in concrete

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

hot-dip galvanized

11.0 470FUH

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

11.0 470FUHB



470FUB



470.60



470FUKHB



### Lifting and tilting mechanism

### Foldable, with triangular locking mechanism

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



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

**approx.kg** **Part-No.**

hot-dip galvanized

11.0 470FUKH

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

11.0 470FUKHB

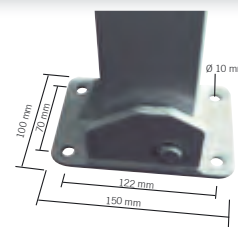


For further accessories, see pages 170-172.





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



## Barrier posts

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

## Foldable, with Euro profile cylinder lock

three keys, self-engaging lock

### to be fixed by plugs

with base plate 100 x 150 mm

hot-dip galvanized

approx.kg Part-No.

9.0

470UZ

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

9.0

470UZB

### for casting in concrete

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

hot-dip galvanized

11.0

470UZH

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

11.0

470UZH B

## Removable, with Euro profile cylinder lock

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

hot-dip galvanized

12.0

470Z

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

12.0

470ZB

470UZB



470.60



470ZB



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

Barrier 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



470UNB



470NB

### Foldable, with 8 mm triangular lock

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

#### to be fixed by plugs

with base plate 100 x 150 mm

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

With  
8 mm triangular lock



4039

approx.kg      Part-No.

9.0      470UN

9.0      470UNB

#### for casting in concrete

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

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

11.0      470UNH

11.0      470UNHB

### Removable, with 8 mm triangular lock

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

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

12.0      470N

12.0      470NB

## Barrier posts

Steel tube 70 x 70 mm  
500 mm above ground



4715UZB



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

6.0      4715FU

6.0      4715FUB

### Foldable, with Euro profile cylinder lock

with three keys, self-engaging lock

#### to be fixed by plugs

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

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

6.0      4715UZ

6.0      4715UZB



A heavy, sturdy barrier post for special purposes.

## Barrier posts

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



### Stationary, for casting in concrete

with ground anchor  
Total length: 1250 mm

|   | approx.kg | Part-No. |
|---|-----------|----------|
| hot-dip galvanized  | 13.0      | 40100    |
| hot-dip galvanized and white coated with red reflecting stripes | 13.0      | 40100B   |

### Stationary, to be fixed by plugs

with base plate 200 x 200 mm

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

### Removable, with triangular locking mechanism

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

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

### Fully retractable, with triangular lock

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

|   |      |       |
|---|------|-------|
| hot-dip galvanized<br>with white / red reflecting stripes | 16.5 | 470DL |
|---|------|-------|

### Fully retractable, with Euro profile cylinder lock

with ground socket part-no. 80 x 80 x 3 mm  
Total length: approx. 1100 mm

|   |      |       |
|---|------|-------|
| hot-dip galvanized<br>with white / red reflecting stripes | 16.5 | 470ZL |
|---|------|-------|

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





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



Sample application

4711PB

4711PB+1

470PB/1



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



460KB

### Chain post, handy design

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

approx.kg

Part-No.

15.0

460KB



4040KB

### Plastic chain post

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

white / red

3.0

4040KB



4041KB

### Plastic chain post

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

white / red

2.0

4041KB

### 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



4040KBSET

### Chain post set

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

white / red

14.0

4041KBSET

For indoor and outdoor installation



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

# Plastic post

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



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



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



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



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

**Flexipost red**  
with white reflecting stripes

| Height in mm | 1000   |
|--------------|--------|
| approx.kg    | 1.48   |
| Part-No.     | 412211 |

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

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

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



**Flexipost white**  
with red reflecting stripes

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

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

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

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



**Flexipost black**  
with yellow stripes

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

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

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

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



Larger quantities on request.





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

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

KICKBACK © bollards Ø 60 mm

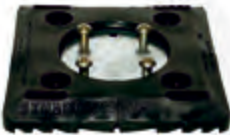
Bollards of plastic tube 900 mm above ground



|  | approx.kg | Part-No. |
|--|-----------|----------|
| <b>with ground plate for plugging</b>                  |           |          |
| white with red reflecting stripes                      | 2.5       | 4260B    |
| yellow with black stripes                              | 2.5       | 4260BG   |
| <b>with ground socket type for casting in concrete</b> |           |          |
| white with red reflecting stripes                      | 2.5       | 4260HB   |
| yellow with black stripes                              | 2.5       | 4260HBG  |

|   |     |            |
|---|-----|------------|
| <b>Separate ground socket</b>               |     |            |
| of steel, hot-dip galvanized, length 400 mm | 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 can then be removed easily and quickly.



|   |     |         |
|---|-----|---------|
| <b>with ground plate for plugging Quick Release</b> |     |         |
| for quick removal of the KICKBACK © bollards        |     |         |
| white with red reflecting stripes                   | 2.5 | 4261B   |
| yellow with black stripes                           | 2.5 | 4261BG  |
| <b>Latching pin</b>                                 |     |         |
| for Quick Release base plate                        | 0.5 | 470.426 |

Park and guide barrier made of recycled material

with reflectors 1170 mm x 150 mm x 50 mm  
with 3 bolts and plugs

|        | approx.kg | Part-No. |
|--------|-----------|----------|
| white  | 2.3       | 412202SW |
| yellow | 2.3       | 412202SO |



## Crash-proof barrier post

Flexible to impact and thrust  
Square tube 70 x 70 mm  
Above ground 500 mm  
Pass-over height approx. 95 mm



40215UZB



Flexible!

Crash-proof!

## Foldable, with Euro profile cylinder lock

three keys, self-engaging lock

### to be fixed by plugs

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

approx.kg

Part-No.

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

9.0

40215UZB

## Crash-proof car-park barrier

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



40220UZB



## Foldable, with Euro profile cylinder lock

three keys, self-engaging lock

### to be fixed by plugs

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

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

11.0

40220UZB



470.60

## Ground socket

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

2.5

470.60



## Passage and car-park barriers

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



471ZB

470.10

### Removable, with triangular locking mechanism

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

|  | approx.kg | Part-No. |
|--|-----------|----------|
| hot-dip galvanized, with red reflecting stripes                    | 14.5      | 471F     |
| hot-dip galvanized and white coated with<br>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<br>red reflecting stripes | 14.5 | 471ZB |

### Separate ground socket

for casting in concrete

3.0 470.10



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



471UZ

### Foldable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock

#### to be fixed by plugs

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

|  |      |        |
|--|------|--------|
| hot-dip galvanized with red reflecting stripes                     | 11.5 | 471FU  |
| hot-dip galvanized and white coated with<br>red reflecting stripes | 11.5 | 471FUB |

### Foldable, with Euro profile cylinder lock

three keys, self-engaging lock

#### to be fixed by plugs

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

|  |      |        |
|--|------|--------|
| hot-dip galvanized with red reflecting stripes                     | 11.5 | 471UZ  |
| hot-dip galvanized and white coated with<br>red reflecting stripes | 11.5 | 471UZB |

### Ground socket

for casting in concrete

2.5 470.60

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

470.60



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



## Car-park barrier, foldable

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



40660

### Foldable, with Euro profile cylinder lock

three keys, self-engaging lock

#### to be fixed by plugs

hot-dip galvanized with red reflecting stripes  
including fastening material

approx.kg

Part-No.

9.0

40660

## Car-park barrier

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



4709UZB

### Foldable, with Euro profile cylinder lock

three keys, self-engaging lock

#### to be fixed by plugs

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

hot-dip galvanized with red reflecting stripes

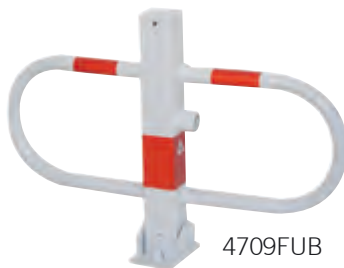
9.5

4709UZ

hot-dip galvanized and white coated with  
reflecting stripes

9.5

4709UZB



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



470.60

#### Ground socket

for casting in concrete

2.5

470.60

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



## Car-park barrier, foldable

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



### Foldable, with round cylinder

three keys, self-engaging lock

approx.kg

Part-No.

#### to be fixed by plugs

with base plate 100 x 150 mm

hot-dip galvanized with red reflecting stripes

9.0

40770

hot-dip galvanized and white coated with  
red reflecting stripes

9.0

40770B

#### for casting in concrete

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

hot-dip galvanized with red reflecting stripes

9.5

40771

hot-dip galvanized and white coated with  
red reflecting stripes

9.5

40771B

### Foldable, with 8 mm triangular lock

white 8 mm triangular wrench

#### to be fixed by plugs

with base plate 100 x 150 mm

hot-dip galvanized with red reflecting stripes

9.0

40772

hot-dip galvanized and white coated with  
red reflecting stripes

9.0

40772B

#### for casting in concrete

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

hot-dip galvanized with red reflecting stripes

9.5

40773

hot-dip galvanized and white coated with  
red reflecting stripes

9.5

40773B

### Handy triangular wrench 8 mm

for barrier post, car-park barriers, galvanized

4039



40770



40772B



With  
8 mm triangular lock



4039



Car-park barriers prevent parking between lots and provide protection from theft and illegal parking. 151



### 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

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



472V

#### Foldable, with padlock

three keys

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

approx.kg

Part-No.

5.5

472V



472Z

#### Foldable, with Euro profile cylinder lock

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

to be fixed by plugs

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

5.5

472Z



472A

#### 1 set (3 piece) anchors for casting in concrete

472A



472ZP

#### Foldable, with Euro profile cylinder lock

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

to be fixed by plugs

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

5.5

472ZP





Barrier posts

Stainless steel

Barrier elements

Barrier poles

Outdoor equipment

Works protection



## traditional



Ø 60 mm  
Series 465



Ø 76 mm  
Series 475



Ø 76 mm  
Series 477



Ø 89 mm  
Series 488



Ø 102 mm  
Series 494



Ø 96/168 mm  
Series 40168

## modern & timeless



70 x 70 mm  
Series 4071



70 x 70 mm  
Series 4073



Ø 76 mm  
Series 4074



Ø 120 mm  
Series 40120



Ø 108 mm  
Series 497



Ø 154 mm  
Series 40155

## ancient & special designs



70 x 70 mm  
Series 473



Ø 60 / 110 mm  
Series 490



Ø 72 / 160 mm  
Series 495



Ø 82 mm  
Series 40180



### The ornamental bollard series Ø 60 mm

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



465B  
Special color finish



466FB



468B

#### Stationary, for casting in concrete

with ground anchor, total length approx. 1400 mm

approx.kg

Part-No.

Part-No.

Part-No.

5.5

465B

466B

468B

#### Stationary, to be fixed by plugs

with base plate 100 x 150 mm

5.5

465PB

466PB

468PB

#### Removable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock,  
with hot-dip galvanized ground socket part-no. 460.40  
approx. 500 mm below ground

7.5

465FB

466FB

468FB

#### Foldable, with triangular locking mechanism

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

7.0

465FUB

466FUB

468FUB

#### Foldable, with triangular locking mechanism

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

9.0

465FUHB

466FUHB

468FUHB

#### Removable, with Euro profile cylinder lock

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

7.5

465ZB

#### Foldable, with Euro profile cylinder lock

three keys, self-engaging lock,  
**to be fixed by plugs**, with base plate

7.0

465UZB

#### Foldable, with Euro profile cylinder lock

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

9.0

465UZH



Other color finishes, see page 122.



### Ornamental bollard of steel tube Ø 76 mm

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



474FB



475FB



477FB

#### Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

approx.kg Part-No.

7.5 474B

Part-No.

475B

Part-No.

477B

#### Stationary, to be fixed by plugs

with base plate 100 x 150 mm

6.0 474PB

475PB

477PB

#### Removable, with triangular locking mechanism

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

12.0 474FB

475FB

477FB

#### Foldable, with triangular locking mechanism

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

8.0 474FUB

475FUB

477FUB

#### Foldable, with triangular locking mechanism

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

10.5 474FUHB

475FUHB

477FUHB

#### Removable, with Euro profile cylinder lock

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

12.0 474ZB

477ZB

#### Foldable, with Euro profile cylinder lock

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

8.0 474UZH

477UZH

#### 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

477UZH



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



### Ornamental bollard of steel tube Ø 76 mm

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



478B



479FB

#### Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

approx.kg

Part-No.

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 mechanism

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

12.0

478FB

479FB

#### Foldable, with triangular locking mechanism

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

8.0

478FUB

479FUB

#### Foldable, with triangular locking mechanism

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

10.5

478FUHB

479FUHB



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

### Ornamental bollard of steel tube Ø 82 mm

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



480FB



481B

#### Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

approx.kg    Part-No.

9.5    480B

Part-No.

481B

#### Stationary, to be fixed by plugs

with base plate 100 x 150 mm

7.0    480PB

481PB

#### Removable, with triangular locking mechanism

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

13.0    480FB

481FB

#### Foldable, with triangular locking mechanism

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

10.0    480FUB

481FUB

#### Foldable, with triangular locking mechanism

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

12.5    480FUHB

481FUHB

#### Removable, with Euro profile cylinder lock

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

13.0    480ZB

#### Foldable, with Euro profile cylinder lock

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

10.0    480UZB

#### Foldable, with Euro profile cylinder lock

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

12.5    480UZHB



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





### Ornamental bollard of round steel tube Ø 82 mm

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

Series 482: DB703

Series 484 / 485: RAL 9005 matt (jet black)



482B



484B



485B

|  | approx.kg | Part-No. | Part-No. | Part-No. |
|--|-----------|----------|----------|----------|
| <b>Stationary, for casting in concrete</b>   |           |          |          |          |
| with ground anchor, total length approx. 1300 mm   | 10.0      | 482B     | 484B     | 485B     |
| <b>Stationary, to be fixed by plugs</b>  |           |          |          |          |
| with base plate 100 x 150 mm   | 7.5       | 482PB    | 484PB    | 485PB    |
| <b>Removable, with triangular locking mechanism</b>  |           |          |          |          |
| acc. with DIN 3223, self-engaging lock,<br>including ground rosette, with hot-dip galvanized ground<br>socket part-no. 470.10, approx. 500 mm below ground | 13.5      | 482FB    | 484FB    | 485FB    |
| <b>Foldable, with triangular locking mechanism</b>   |           |          |          |          |
| acc. with DIN 3223, self-engaging lock,<br>to be fixed by plugs, with base plate 100 x 150 mm  | 10.5      | 482FUB   | 484FUB   | 485FUB   |
| <b>Foldable, with triangular locking mechanism</b>   |           |          |          |          |
| acc. with DIN 3223, self-engaging lock,<br>for casting in concrete, with hot-dip galvanized ground<br>socket part-no. 470.60, approx. 400 mm below ground  | 13.0      | 482FUHB  | 484FUHB  | 485FUHB  |
| <b>Removable, with Euro profile cylinder lock</b>  |           |          |          |          |
| three keys, self-engaging lock,<br>including ground rosette, with hot-dip galvanized ground<br>socket part-no. 470.10, approx. 500 mm below ground         | 13.5      | 482ZB    | 484ZB    | 485ZB    |
| <b>Foldable, with Euro profile cylinder lock</b>   |           |          |          |          |
| three keys, self-engaging lock,<br>to be fixed by plugs, with base plate 100 x 150 mm  | 10.5      | 482UZB   | 484UZB   | 485UZB   |
| <b>Foldable, with Euro profile cylinder lock</b>   |           |          |          |          |
| three keys, self-engaging lock,<br>for casting in concrete, ground socket part-no. 470.60,<br>approx. 400 mm below ground                                  | 13.0      | 482UZHB  | 484UZHB  | 485UZHB  |



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

**Barrier posts**

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



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

**Removable, with triangular locking mechanism**

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

**approx.kg    Part-No.**

hot-dip galvanized 12.5 470D

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

**Foldable, with triangular locking mechanism**

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

**to be fixed by plugs**

with base plate 100 x 150 mm

hot-dip galvanized 9.0 470UD

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

**for casting in concrete**

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

hot-dip galvanized 11.0 470UDH

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

**Foldable, for padlock**

self-engaging lock

**to be fixed by plugs**

with base plate 100 x 150 mm

hot-dip galvanized 9.0 470UV

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

**for casting in concrete**

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

hot-dip galvanized 11.0 470UVH

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



470DB



470UDB



470UVB



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



## Barrier posts

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



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

### 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<br>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<br>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<br>three red reflecting stripes | 11.0 | 470FUZHB |

### Foldable and removable

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

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

### Multipurpose wrench

470.40



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



470FZB



470FUZB



4701FUZHB



### Ornamental bollard of steel tube Ø 89 mm

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



487B  
Special color finish  
RAL 4006



488B

#### Stationary, for casting in concrete

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

#### Part-No.

487B

#### Part-No.

488B

#### Removable, with triangular locking mechanism

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

487FB

488FB

### Ornamental bollard of steel tube Ø 102 mm

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



492B



494B



496B

#### Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm      approx.kg      9.0      Part-No.      492B

#### Part-No.

494B

#### Part-No.

496B

#### Removable, with triangular locking mechanism

acc. with DIN 3223, self-engaging lock,  
with hot-dip galvanized ground socket part-no. 470.10      15.0      492FB

494FB

496FB



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



### Ornamental bollard of steel tube

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



40102FB

#### Stationary, for casting in concrete

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

Part-No.

40102B

#### Stationary, to be fixed by plugs

with base plate Ø 180 mm approx.kg 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 approx.kg 13.5

40102FB

### Ornamental bollard of steel tube

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



40168FB

#### Stationary, for casting in concrete

with ground anchor, total length approx. 1050 mm approx.kg 10.0

Part-No.

40168B

#### Stationary, to be fixed by plugs

with base plate 220 x 220 mm approx.kg 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 approx.kg 16.0

40168FB

**Ornamental bollard of square steel tube 70 x 70 mm**

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

**with flat head!**

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

**Ornamental bollard of square steel tube 70 x 70 mm**

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

**with flat bar steel top**

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



Other color finishes, see page 122.



**Ornamental bollard with flat head, steel tube Ø 76 mm**

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

**with flat head!**



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

**Ornamental bollard of square steel tube 100 x 100 mm**

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

**with flat head!**



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



Other color finishes, see page 122.

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



40101B



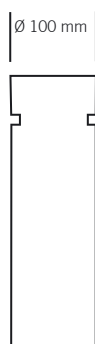
40120B



40121FB

### Bollard of thick-walled aluminium Ø 100 mm

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



#### Stationary, for casting in concrete

with ground anchor, total length approx. 1200 mm

approx.kg

Part-No.

7.0

40101B

#### Stationary, to be fixed by plugs

with base plate Ø 180 mm

6.5

40101PB

#### Removable, with triangular locking mechanism

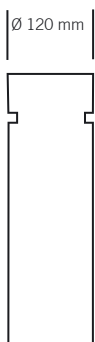
acc. with DIN 3223, self-engaging lock,  
with hot-dip galvanized ground socket part-no. 470.10,  
approx. 500 mm below ground

10.0

40101FB

### 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



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

9.5 40120B

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

10.0 40121B

#### Stationary, for casting in concrete

with ground anchor

#### Stationary, to be fixed by plugs

with base plate Ø 180 mm

6.5 40120PB

9.5 40121PB

#### Removable, with triangular locking mechanism

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

9.0 40120FB

13.0 40121FB



Other color finishes, see page 122.



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

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

**Ornamental bollard**

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



**Stationary, for casting in concrete**

with ground anchor, total length approx. 1300 mm

approx.kg

11.0

Part-No.

497B



497FB  
Special color finish  
RAL 5015

**Removable, with triangular locking mechanism**

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

17.0

497FB

**A particularly effective and massive ornamental bollard.**



40140FB/2

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

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

approx.kg

12.0

Part-No.

40140B/2



40155B

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

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

Part-No.

40155B

**Stationary, for casting in concrete**

with ground anchor, total length approx. 1400 mm

**Removable, with triangular locking mechanism**

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

20.0

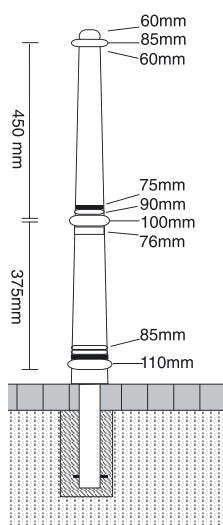
40140FB/2

40155FB



### Aluminium ornamental post

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



490FB

#### Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

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

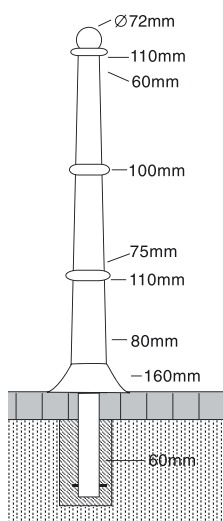
#### Removable, with triangular locking mechanism

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

|                | approx.kg | Part-No. |
|----------------|-----------|----------|
| without eyelet | 9.5       | 490FB    |
| with 1 eyelet  | 9.5       | 490FB+1  |
| with 2 eyelets | 9.5       | 490FB+2  |

### Aluminium ornamental bollard

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



495FB

#### Stationary, for casting in concrete

with ground anchor, total length approx. 1300 mm

|                | approx.kg | Part-No. |
|----------------|-----------|----------|
| without eyelet | 9.5       | 495B     |
| with 1 eyelet  | 9.5       | 495B+1   |
| with 2 eyelets | 9.5       | 495B+2   |

#### Removable, with triangular locking mechanism

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

|                | approx.kg | Part-No. |
|----------------|-----------|----------|
| without eyelet | 12.0      | 495FB    |
| with 1 eyelet  | 12.0      | 495FB+1  |
| with 2 eyelets | 12.0      | 495FB+2  |

### Aluminium miniature bollards

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



495MB

#### Stationary, for casting in concrete

with ground anchor, total length approx. 800 mm

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



Ornamental protective railing

Assembled from prefabricated parts on site. The hinge joints make these railings very flexible to set up. The hinge joints can be set up vertically or horizontally up to 90°. Powder-coated in common RAL colors, see page 122.



495.11B

495.12B

Aluminium ornamental bollard

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

|                                      | approx.kg | Part-No. |
|--------------------------------------|-----------|----------|
| End post for top bar                 | 10.0      | 495.01B  |
| Middle post for top bar              | 10.0      | 495.02B  |
| Corner post for top bar 90°          | 10.0      | 495.03B  |
| End post for top and knee bar        | 10.5      | 495.11B  |
| Middle post for top and knee bar     | 10.5      | 495.12B  |
| Corner post for top and knee bar 90° | 10.5      | 495.13B  |

Cross bar

Steel tube Ø 33.7 mm, length: 2000 mm hot-dip galvanized and coated anthracite grey (metallic grey)

|  |     |         |
|--|-----|---------|
| Cross bar, including aluminium connection sockets for straight horizontal position | 4.0 | 495.20B |
|--|-----|---------|



495.24B

Joint element

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

|  |     |         |
|--|-----|---------|
|  | 0.5 | 495.24B |
|--|-----|---------|



Sample application as chain post



### 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

### Bollards of round steel tube

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



40180

#### Stationary, for casting in concrete

with ground anchor, total length approx. 1400 mm

approx.kg Part-No.

9.0 473B

approx.kg Part-No.

11.0 40180B

#### Stationary, to be fixed by plugs

with base plate 100 x 150 mm

7.5 473PB

8.5 40180PB

#### Removable, with triangular locking mechanism

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

14.0 473FB

14.0 40180FB

#### Foldable, with triangular locking mechanism

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

10.5 473FUB

#### Foldable, with triangular locking mechanism

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

12.5 473FUHB

#### Removable, with Euro profile cylinder lock

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

14.0 473ZB

14.0 40180ZB

#### Foldable, with Euro profile cylinder lock

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

10.5 473UZB

#### Foldable, with Euro profile cylinder lock

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

12.5 473UZHB



Other color finishes, see page 122.

Bollards also available with chain eyelets; see page 172.



# Recycling-material post

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

## Recycling-material post

square post 140 x 140 mm

Total length: 1400 mm



Bollards without milled groove and reflectors  
Color: black

| approx.kg | Part-No. |
|-----------|----------|
| 25.0      | 4014140  |

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

|      |         |
|------|---------|
| 25.0 | 4014141 |
|------|---------|

## Recycling-material post

hemispherical head Ø 200 mm

(hollow section)



### Bollards without reflectors

Color: grey  
Total length: 1200 mm  
Total length: 1500 mm

| approx.kg | Part-No. |
|-----------|----------|
| 26.5      | 4020120  |
| 33.5      | 4020150  |

### Ground rosette Ø 500 x 30 mm

Color: grey

|     |         |
|-----|---------|
| 4.5 | 4050003 |
|-----|---------|

### Bollards without reflectors

Color: brown  
Total length: 1200 mm  
Total length: 1500 mm

|      |         |
|------|---------|
| 26.5 | 4120120 |
| 33.5 | 4120150 |

### Ground rosette Ø 500 x 30 mm

Color: brown

|     |         |
|-----|---------|
| 4.5 | 4150003 |
|-----|---------|



Reflectors on request.



430.50B



430.66B



430.10B



430.60B



430.11



430.09



430.12



430.13

**Barrier chain of steel, welded**

Wire thickness 5 mm

galvanized

galvanized and red / white coated

Packing unit 10 m

approx.kg/m

0.5

0.5

Part-No.

430.50

430.50B

**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

0.6

0.6

430.66

430.66B

430.67B

**Barrier chain of steel, unwelded**

Wire thickness 7 mm

galvanized

galvanized and red / white coated

Packing unit 10 m

galvanized and coated yellow / black

Packing unit 10 m

galvanized and coated acc. with RAL color

Packing unit 10 m

0.9

0.9

0.9

0.9

430.10

430.10B

430.20B

430.25B

**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

**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

**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

**Snap hook**

galvanized

galvanized and red coated

galvanized and white coated

galvanized and yellow coated

galvanized and black coated

430.13

430.13BR

430.13BW

430.13BG

430.13BS





430.05

## Plastic barrier chain

6 mm thick

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

approx.kg/Unit Part-No.

2.0 430.05  
2.0 430.06

## Plastic connecting link made

6 mm thick

red  
white  
yellow  
black

430.07R  
430.07W  
430.07G  
430.07S

## Plastic hook link

6 mm thick

red  
white  
yellow  
black

430.08R  
430.08W  
430.08G  
430.08S

## Plastic barrier chain

8 mm thick

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

approx.kg/Unit Part-No.

2.5 430.15  
2.5 430.30

## Plastic connecting link made

8 mm thick

red  
white  
yellow  
black

430.16R  
430.16W  
430.16G  
430.16S

## Plastic hook link

8 mm thick

red  
white  
yellow  
black

430.17R  
430.17W  
430.17G  
430.17S





**Grey-cast multipurpose wrench**

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

**approx.kg**      **Part-No.**

galvanized      0.4      470.40

**Triangular standard wrench**

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

galvanized      0.2      470.50

**Triangular socket wrench**

acc. with DIN 3223

galvanized      0.2      470.30

**Square socket wrench**

for litter bin part-no. 4027

6 mm      4037

**Triangular socket wrench**

for litter bin, galvanized

8 mm      4038

**Triangular wrench**

handy wrench for opening the litter bins

8 mm      4039

**Euro profile cylinder key**

470.55

Extra charge for simultaneously locking cylinders      470.57

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

**Eyelets, galvanized**

one eyelet screw-fastened      Part-No. +1

two eyelets screw-fastened      Part-No. +2

one eyelet for screw fastening by M8 threaded pin (specify tube diameter)      470.01

two eyelets for screw fastening by M8 threaded pin (specify tube diameter)      470.02

**Ground rosette for post**

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

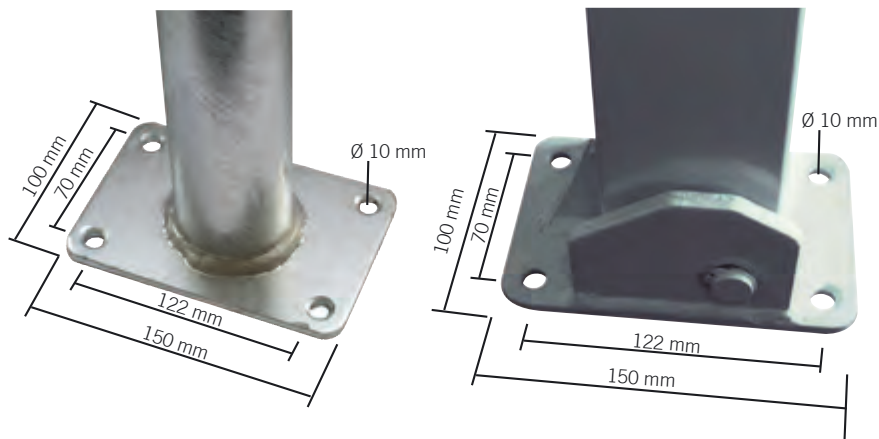
Ø 82 mm, for screw-fastening, galvanized and coated      1.3      485RB



**Set of mounting bolts type 1**

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

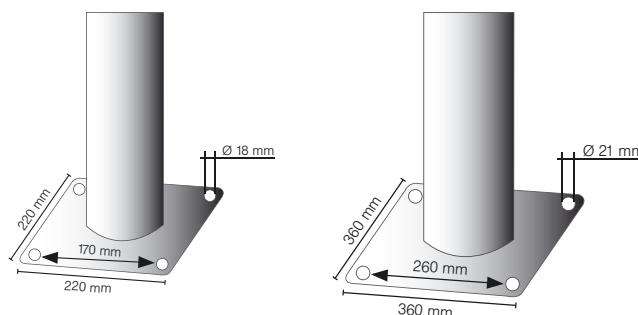
bit T 40, length 26 mm

Part-No. 470.75

**Set of mounting bolts type 2**

4 bolts, fixing anchor M16 x 150 mm, galvanized

Part-No. 470.72

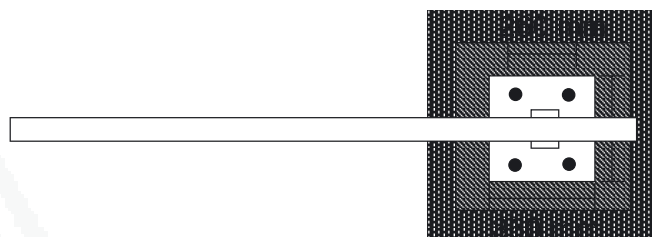


Foundation: 400 x 400 mm

Foundation: 550 x 550 mm

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

Foundation  
550 x 550 mm

**Set of mounting bolts type 3**

8 bolts, fixing anchor M16 x 150 mm, galvanized

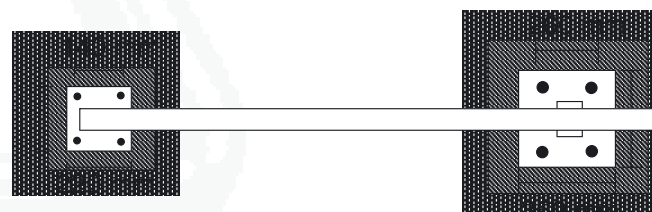
Part-No. 470.73



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

Foundation  
400 x 400 mm

Foundation  
550 x 550 mm



Foundation size depends on ground characteristics

**Ground socket**

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

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

**Cover**

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

0.8 460.20

**Cover**

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

1.0 460.21

**Ground socket**

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

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

**Cover**

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

1.2 476.20

**Cover**

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

1,3 476.21

**Ground socket**

of square tube 80 x 80 mm, hot-dip galvanized, with ground anchor

|  |     |        |
|--|-----|--------|
| - for barrier post with bottom part 70 x 70 mm, without locking mechanism, length 400 mm                   | 2.7 | 470.15 |
| - for removable barrier post with bottom part 70 x 70 mm with our type of locking mechanism, length 500 mm | 3.0 | 470.10 |

**Cover**

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

1.1 470.20



**Cover** suitable for ground socket part-no. 470.10, with spring-loaded locking mechanism for opening by multipurpose wrench part-no. 470.40, hot-dip galvanized

1.1 470.21

**Ground socket**

with mounting plate 100 x 150 mm, hole pitch 70 x 122 mm, 400 mm long, with ground anchor, **for fastening all foldable barrier posts of our type**, including bolts, hot-dip galvanized

2.5 470.60



**Ground socket**

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

|                             | approx.kg | Part-No. |
|-----------------------------|-----------|----------|
| <b>Ø 48 mm</b> Tubular post | 1.3       | 443.44   |
| <b>Ø 60 mm</b> Tubular post | 1.9       | 463.44   |
| <b>Ø 76 mm</b> Tubular post | 3.0       | 473.44   |

**Ground socket**

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

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

**for Ø 76 mm tubular post**

|             |     |        |
|-------------|-----|--------|
| 300 mm long | 2.5 | 473.31 |
| 500 mm long | 3.7 | 473.51 |

**Ground socket for Ø 48 mm tubular post**

of grey-cast iron, with threaded and tightening ring

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

**Ground socket for Ø 60 mm tubular post**

of grey-cast iron, with threaded and tightening ring

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

**Ground socket for Ø 76 mm tubular post**

of grey-cast iron, with threaded and tightening ring

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

**Multipurpose wrench**

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

|     |        |
|-----|--------|
| 5.4 | 463.68 |
|-----|--------|

## Steel tube sign post

hot-dip galvanized, with plastic cap and ground anchor



### Wall thickness 2 mm

| Length  | approx.kg | Ø 60 mm<br>Part-No. |
|---------|-----------|---------------------|
| 2500 mm | 6.5       | 463.25              |
| 3000 mm | 7.8       | 463.30              |
| 3500 mm | 9.0       | 463.35              |
| 4000 mm | 10.4      | 463.40              |
| 4500 mm | 11.5      | 463.45              |

| approx.kg | Ø 76 mm<br>Part-No. |
|-----------|---------------------|
| 9.0       | 473.25              |
| 10.5      | 473.30              |
| 12.0      | 473.35              |
| 14.0      | 473.40              |
| 15.8      | 473.45              |

Plastic cover 464.05

474.05

## Tube clips

for tubular post, hot-dip galvanized



464.07

| hole pitch | Unit | approx.kg piece | Ø 60 mm<br>Part-No. | approx.kg piece | Ø 76 mm<br>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              |



464.50



Larger quantities on request.



Tubular hoops see pages 186-191.





**Stainless steel - pages 177 - 184**

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







4070FU

70 x 70 mm  
Glass-bead blasted



4062P

Ø 60 mm  
Ground

**Stainless steel post**

Above ground approx. 900 mm

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



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



### Stainless steel post Ø 76 mm

above ground approx. 900 mm

#### Stationary, for casting in concrete

Total length: 1200 mm

#### Stationary, to be fixed by plugs

with base plate

#### Removable, with triangular locking mechanism

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

#### Removable, with Euro profile cylinder lock

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

#### Foldable, with triangular locking mechanism

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

#### Foldable, with triangular locking mechanism

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

#### Foldable, with Euro profile cylinder lock

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

#### Foldable, with Euro profile cylinder lock

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



4072

Ø 76 mm  
Ground



4172

Ø 76 mm  
Ground  
with half-sphere

approx.kg

Part-No.

Part-No.

5.0

4072

4172

5.5

4072P

4172P

10.0

4072F

4172F

10.0

4072Z

6.0

4072FU

8.5

4072FUH

6.5

4072UZ

9.0

4072UZH



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



4089P

Ø 89 mm  
Ground



40103P

Ø 102 mm  
Ground

### Stainless steel post

Above ground approx. 900 mm

|  | approx.kg | Part-No. | approx.kg | Part-No. |
|--|-----------|----------|-----------|----------|
| <b>Stationary, for casting in concrete</b>                                       |           |          |           |          |
| total length: 1200 mm  | 5.5       | 4089     | 6.0       | 40103    |
| <b>Stationary, to be fixed by plugs</b>  |           |          |           |          |
| with base plate Ø 150 x 6 mm   | 5.5       | 4089P    | 6.0       | 40103P   |
| <b>Removable, with triangular locking mechanism</b>                              |           |          |           |          |
| acc. with DIN 3223, self-engaging lock,<br>with hot-dip galvanized ground socket | 11.0      | 4089F    | 12.0      | 40103F   |

### Accessories

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

Extra charge per eyelet

Barrier chain of stainless steel Ø 5 mm

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 hoops maintain high value and their attraction is timeless.

Stainless steel hoops Ø 154 mm  
Ground



40154                      40155  
Stationary for casting in concrete  
with ground anchor

|                    |             |              |
|--------------------|-------------|--------------|
| Total length in mm | approx. 900 | approx. 1200 |
| approx.kg          | 8.5         | 11.0         |
| Part-No.           | 40154       | 40155        |



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

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

Stainless steel hoops Ø 204 mm  
Ground



40204                      40205  
Stationary for casting in concrete  
with ground anchor

|                    |             |              |
|--------------------|-------------|--------------|
| Total length in mm | approx. 900 | approx. 1200 |
| approx.kg          | 10.0        | 12.0         |
| Part-No.           | 40204       | 40205        |



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

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



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

## Stainless steel hoop Ø 48 mm

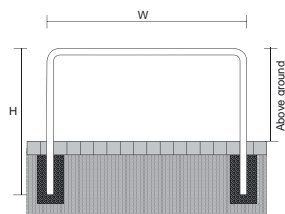
Ground surface, with or without cross bar, for casting in concrete bar, for casting in concrete



449.30

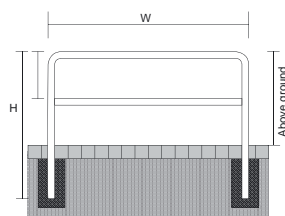


449.09



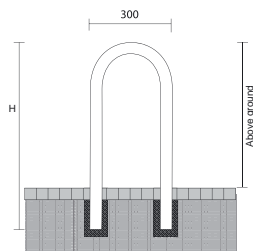
### without cross bar, for casting in concrete

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



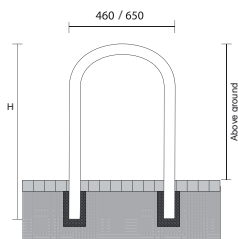
### with cross bar, for casting in concrete

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



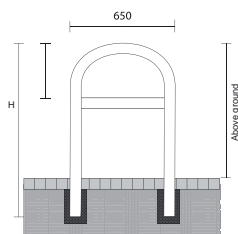
### Universal hoop, for casting in concrete

|        |         |     |        |
|--------|---------|-----|--------|
| 300 mm | 1200 mm | 5.5 | 449.30 |
|--------|---------|-----|--------|



### Round hoop, for casting in concrete

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



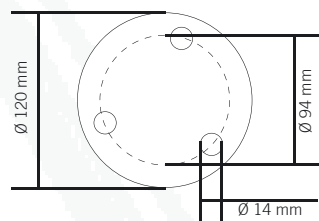
### Round hoop with cross bar, for casting in concrete

|        |         |     |        |
|--------|---------|-----|--------|
| 650 mm | 1200 mm | 8.0 | 449.66 |
|--------|---------|-----|--------|

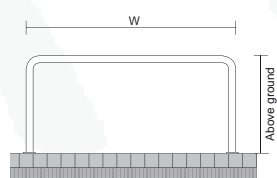


## Stainless steel hoop Ø 48 mm

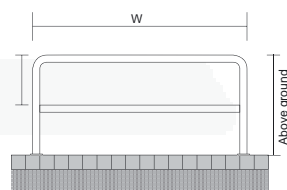
Ground surface, for plugging down, with  
base plate Ø 120 mm, pitch circle  
Ø 94 mm, 3 holes Ø 14 mm



### without cross bar, for plugging down

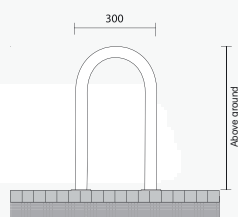


| Total width | Total height | approx.kg | Part-No. |
|-------------|--------------|-----------|----------|
| 800 mm      | 800 mm       | 8.5       | 449.09P  |
| 1000 mm     | 800 mm       | 9.0       | 449.12P  |
| 1200 mm     | 800 mm       | 9.5       | 449.13P  |



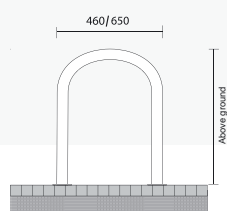
### with cross bar, for plugging down

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



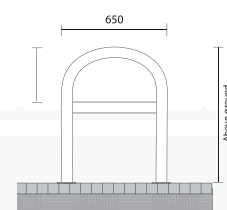
### Universal hoop, for plugging down

|        |        |     |         |
|--------|--------|-----|---------|
| 300 mm | 800 mm | 5.5 | 449.30P |
|--------|--------|-----|---------|



### Round hoop, for plugging down

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



### Round hoop with cross bar, for plugging down

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



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



## Stainless steel railing system

For demanding sites.

### Fixed post:

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

### Cross bar

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



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

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

|  |     |      |     |      |
|--|-----|------|-----|------|
| End post for top bar                     | 5.0 | 4401 | 3.5 | 4404 |
| Middle post for top bar                  | 5.0 | 4402 | 3.5 | 4405 |
| Corner post for top bar                  | 5.0 | 4403 | 3.5 | 4406 |
| End post for top and quarter-bent bar    | 5.5 | 4411 |     |      |
| Middle post for top and quarter-bent bar | 5.5 | 4412 |     |      |
| Corner post for top and quarter-bent bar | 5.5 | 4413 |     |      |

### Cross bar

including aluminium connecting sleeves  
for straight horizontal position  
length: 2000 mm

4.0      4420

### Aluminium joint element

for vertical and horizontal use up to 90°

0.5      4424



## Stainless steel tube hoop Ø 48 mm

Miter-welded, for casting in concrete

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



## Stainless steel bicycle lean-on hoop Ø 48 mm

Very attractive and functional design



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

**for casting in concrete**

9.0      449.50

**for plugging down**

9.0      449.50P

with base plate Ø 120 mm

Pitch circle Ø 115 mm,

3 holes Ø 14 mm



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



## Barrier elements - pages 185 - 204

Tubular hoops  
Access barriers  
Height restriction barriers  
Barriers / railing systems



Barrier posts

Stainless steel

Barrier elements

Barrier poles

Outdoor equipment

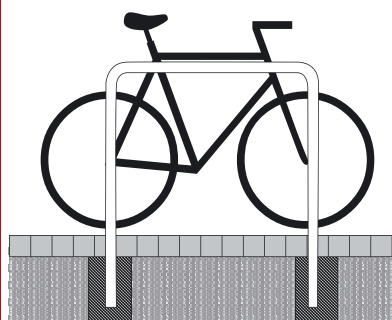
Works protection



- Tubular hoop serves as bicycle stand
- stable
- offers support on both sides
- optimum theft protection
- powder-coated in common colors

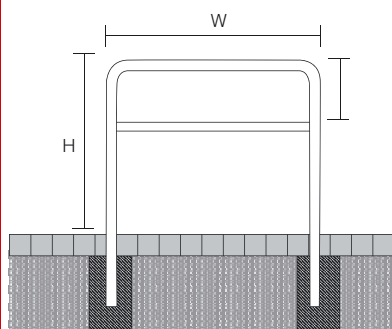


Steel tube Ø 48 x 2,5 mm



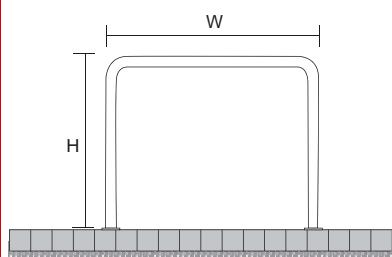
without cross bar, for casting in concrete

| Total width | Total height | approx.kg | Part-No. | hot-dip galvanized | galvanized and white coated with reflecting stripes |
|-------------|--------------|-----------|----------|--------------------|---|
|             |              |           |          | Part-No.           | Part-No.  |
| 1000 mm     | 1000 mm      | 7.5       | 448.06   |                    | 448.06B   |
| 1500 mm     | 1000 mm      | 8.5       | 448.07   |                    | 448.07B   |
| 2000 mm     | 1000 mm      | 10.0      | 448.08   |                    | 448.08B   |
| 700 mm      | 1200 mm      | 7.5       | 448.11   |                    | 448.11B   |
| 1000 mm     | 1200 mm      | 8.5       | 448.12   |                    | 448.12B   |
| 1200 mm     | 1200 mm      | 9.0       | 448.13   |                    | 448.13B   |
| 500 mm      | 1400 mm      | 8.0       | 448.09   |                    | 448.09B   |
| 1000 mm     | 1400 mm      | 9.5       | 448.10   |                    | 448.10B   |
| 1500 mm     | 1400 mm      | 11.0      | 448.15   |                    | 448.15B   |
| 2000 mm     | 1400 mm      | 12.0      | 448.20   |                    | 448.20B   |
| 2500 mm     | 1400 mm      | 13.5      | 448.25   |                    | 448.25B   |



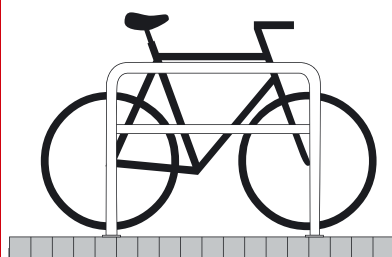
with cross bar, for casting in concrete

|         |         |      |        |         |
|---------|---------|------|--------|---------|
| 700 mm  | 1200 mm | 9.0  | 448.21 | 448.21B |
| 1000 mm | 1200 mm | 11.0 | 448.22 | 448.22B |
| 1200 mm | 1200 mm | 12.0 | 448.23 | 448.23B |
| 500 mm  | 1400 mm | 9.5  | 448.31 | 448.31B |
| 1000 mm | 1400 mm | 12.0 | 448.32 | 448.32B |
| 1500 mm | 1400 mm | 15.0 | 448.33 | 448.33B |
| 2000 mm | 1400 mm | 17.0 | 448.34 | 448.34B |
| 2500 mm | 1400 mm | 20.0 | 448.35 | 448.35B |



without cross bar, for plugging down

|         |         |      |        |         |
|---------|---------|------|--------|---------|
| 1000 mm | 1000 mm | 8.5  | 448.52 | 448.52B |
| 1500 mm | 1000 mm | 9.5  | 448.53 | 448.53B |
| 2000 mm | 1000 mm | 10.5 | 448.54 | 448.54B |



with cross bar, for plugging down

|         |         |      |        |         |
|---------|---------|------|--------|---------|
| 1000 mm | 1000 mm | 11.0 | 448.62 | 448.62B |
| 1500 mm | 1000 mm | 13.0 | 448.63 | 448.63B |
| 2000 mm | 1000 mm | 13.0 | 448.64 | 448.64B |



For other colors, see page 122. Other dimensions and large quantities available on request.  
Powder-coats are made to order. Orders cannot be cancelled or shipments returned.





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



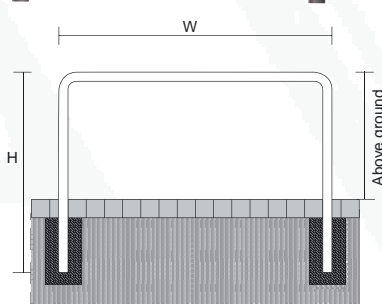
Steel tube Ø 60 mm x 2.5 mm



without cross bar, for casting in concrete

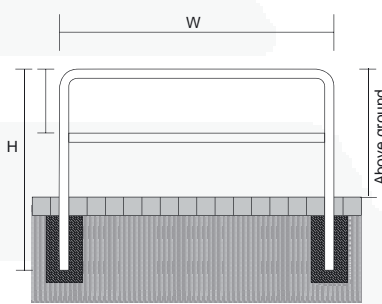
hot-dip galvanized

galvanized and white coated with reflecting stripes  
Part-No.



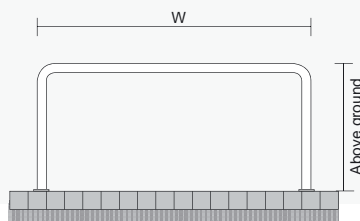
| Total width | Total height | approx.kg | Part-No. |         |
|-------------|--------------|-----------|----------|---------|
| 1000 mm     | 1000 mm      | 9.5       | 465.06   | 465.06B |
| 1500 mm     | 1000 mm      | 11.5      | 465.07   | 465.07B |
| 2000 mm     | 1000 mm      | 13.0      | 465.08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

with cross bar, for casting in concrete



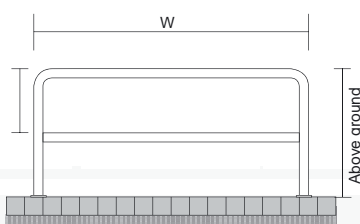
|         |         |      |        |         |
|---------|---------|------|--------|---------|
| 700 mm  | 1200 mm | 8.5  | 465.21 | 465.21B |
| 1000 mm | 1200 mm | 11.0 | 465.22 | 465.22B |
| 1200 mm | 1200 mm | 11.5 | 465.23 | 465.23B |
| 500 mm  | 1400 mm | 10.0 | 465.31 | 465.31B |
| 1000 mm | 1400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

without cross bar, for plugging down



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

with cross bar, for plugging down



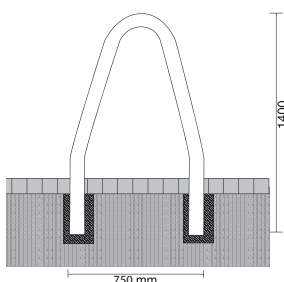
|         |         |      |        |         |
|---------|---------|------|--------|---------|
| 1000 mm | 1000 mm | 11.0 | 465.62 | 465.62B |
| 1500 mm | 1000 mm | 12.0 | 465.63 | 465.63B |
| 2000 mm | 1000 mm | 13.0 | 465.64 | 465.64B |



Other dimensions quantities available on request.

Power-coats are made to order. Orders cannot be cancelled or deliveries returned

### Steel tube Ø 48 x 2.5 mm



#### Tree protection hoop for casting in concrete

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

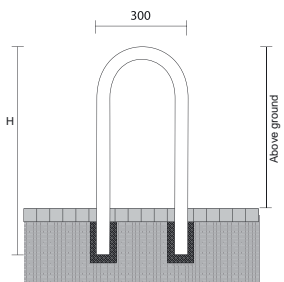
hot-dip galvanized

approx.kg Part-No.

8.0 443.00

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

8.0 443.00B



#### Universal hoop for casting in concrete

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

hot-dip galvanized

6.0 448.70

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

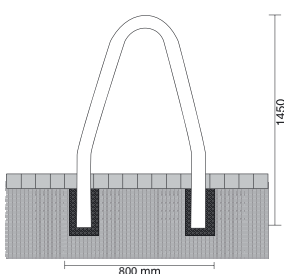
6.0 448.70B



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



### Steel tube Ø 60 mm x 2.5 mm



#### Tree protection hoop for casting in concrete

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

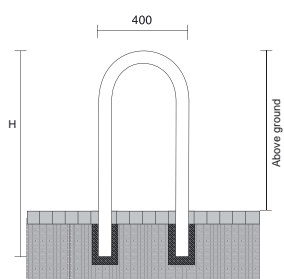
hot-dip galvanized

approx.kg Part-No.

10.0 463.00

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

10.0 463.00B



#### Universal hoop for casting in concrete

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

hot-dip galvanized

8.5 465.70

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

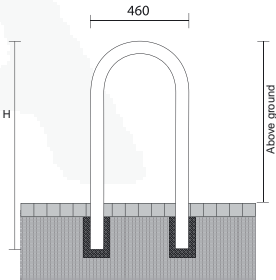
8.5 465.70B

Steel tube Ø 48 x 2.5 mm  
Miter-welded

without cross bar, for casting in concrete



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



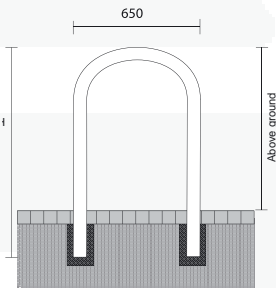
Round hoops

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

without cross bar  
Total width: approx. 460 mm

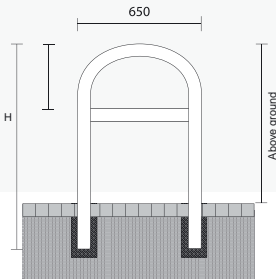


|  |     |          |
|--|-----|----------|
| hot-dip galvanized                                       | 7.0 | 448.046  |
| hot-dip galvanized and coated<br>color: green (RAL 6005) | 7.0 | 448.046B |



without cross bar  
Total width: approx. 650 mm

|  |     |          |
|--|-----|----------|
| hot-dip galvanized                                       | 7.0 | 448.065  |
| hot-dip galvanized and coated<br>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<br>color: green (RAL 6005) | 8.0 | 448.066B |

Special designs

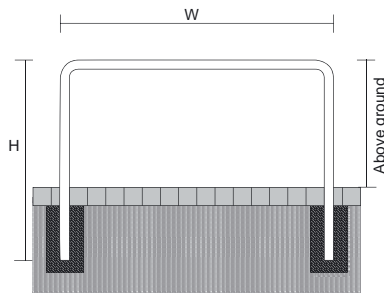
Lean-on and blocking car park barriers also available with base plate 100 x 150 mm for plugging down (The total height changes to 1000 mm).  
For plugging down: Add the letter **P** to the article number, extra charge:





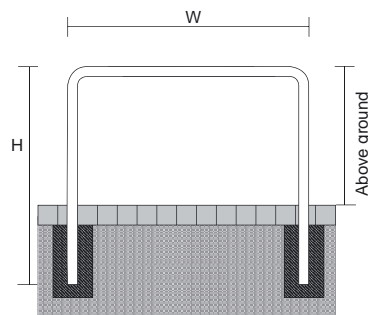
Safety barriers  
for dangerous areas.

## Guard hoops, steel tube Ø 76 x 2.6 mm



without cross bar, for casting in concrete

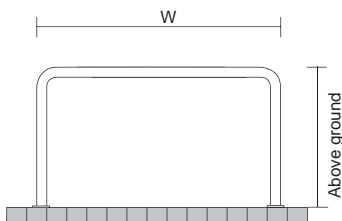
| Total width | Total height | approx.kg | Part-No. | hot-dip galvanized | galvanized and white coated with red reflecting stripes<br>Part-No. |
|-------------|--------------|-----------|----------|--------------------|---|
| 1000 mm     | 1500 mm      | 16.5      | 475.10   |                    | 475.10B   |
| 1500 mm     | 1500 mm      | 19.0      | 475.15   |                    | 475.15B   |
| 2000 mm     | 1500 mm      | 21.5      | 475.20   |                    | 475.20B   |
| 2500 mm     | 1500 mm      | 23.5      | 475.25   |                    | 475.25B   |



Anti-nudge hoop

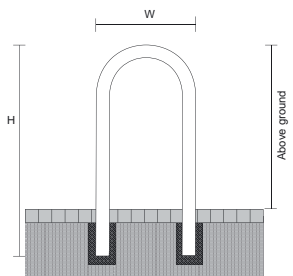
Round steel tube Ø 76 x 2.6 mm

| Total width | Total height | approx.kg | Part-No. | hot-dip galvanized | galvanized and white coated with red reflecting stripes<br>Part-No. |
|-------------|--------------|-----------|----------|--------------------|---|
| 750 mm      | 1000 mm      | 8.0       | 477.05   |                    | 477.05B   |
| 1000 mm     | 1000 mm      | 10.0      | 477.06   |                    | 477.06B   |
| 750 mm      | 1500 mm      | 15.0      | 477.08   |                    | 477.08B   |



for plugging down

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

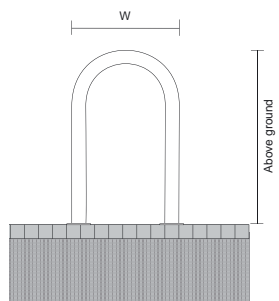


Universal hoop

Steel tube Ø 76 x 2.6 mm

for casting in concrete

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



for plugging down

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



## Access barriers removable, revolving

Round steel tube Ø 60 mm, with triangular locking mechanism acc. to DIN 3223, including hot-dip galvanized ground sockets part-no. 460.10 and part-no. 460.40 total height approx. 1400 mm above ground approx. 1000 mm

## Triangular locking mechanism

acc. with DIN 3223



### without quarter-bent bar

hot-dip galvanized



hot-dip galvanized and white coated with red reflecting stripes

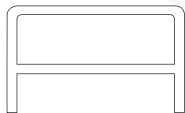


| Total width in mm | 1000    | 1500    | 2000    | 2500    |
|-------------------|---------|---------|---------|---------|
| <b>Part-No.</b>   | 465.10F | 465.15F | 465.20F | 465.25F |
| <b>approx.kg</b>  | 15.0    | 17.0    | 19.0    | 21.0    |

|                  |          |          |          |          |
|------------------|----------|----------|----------|----------|
| <b>Part-No.</b>  | 465.10FB | 465.15FB | 465.20FB | 465.25FB |
| <b>approx.kg</b> | 15.0     | 17.0     | 19.0     | 21.0     |

### with quarter-bent bar

hot-dip galvanized

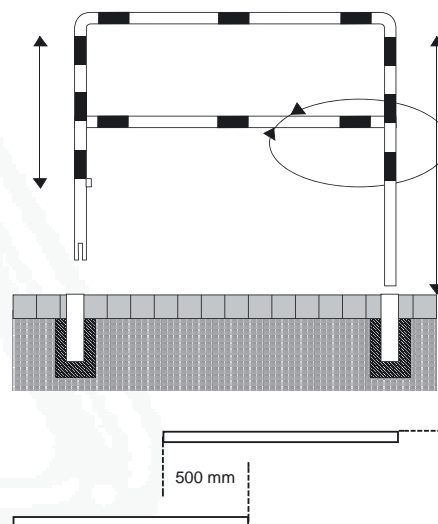


hot-dip galvanized and white coated with red reflecting stripes



| Total width in mm | 1000    | 1500    | 2000    | 2500    |
|-------------------|---------|---------|---------|---------|
| <b>Part-No.</b>   | 465.32F | 465.33F | 465.34F | 465.35F |
| <b>approx.kg</b>  | 18.0    | 21.0    | 25.0    | 29.0    |

|                  |          |          |          |          |
|------------------|----------|----------|----------|----------|
| <b>Part-No.</b>  | 465.32FB | 465.33FB | 465.34FB | 465.35FB |
| <b>approx.kg</b> | 18.0     | 21.0     | 25.0     | 29.0     |



Installation schematic



Other color finishes, see page 122.

## Access barriers with triangular lock

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

### 1 stationary post, revolving

Square tube 70 x 70 mm, above ground 900 mm

### 1 removable post, with triangular locking mechanism

DIN 3223, square tube 70 x 70 mm,  
above ground 900 mm

### 1 ground socket, part.-No. 470.10

Square tube 80 x 80 mm, 500 mm long

### 1 top bar

Square tube 60 x 40 mm



### with top bar

hot-dip galvanized



Total width in mm

1500

2000

2500

3000

Part-No.  
approx.kg

410.15  
25.5

410.20  
27.0

410.25  
28.5

410.30  
30.0

hot-dip galvanized  
and white coated with  
red reflecting stripes



Part-No.  
approx.kg

410.15B  
19.5

410.20B  
21.0

410.25B  
22.5

410.30B  
23.5

### with top and quarter-bent bar

hot-dip galvanized



Total width in mm

1500

2000

2500

3000

Part-No.  
approx.kg

412.15  
29.5

412.20  
32.5

412.25  
35.5

412.30  
38.5

hot-dip galvanized  
and white coated with  
red reflecting stripes



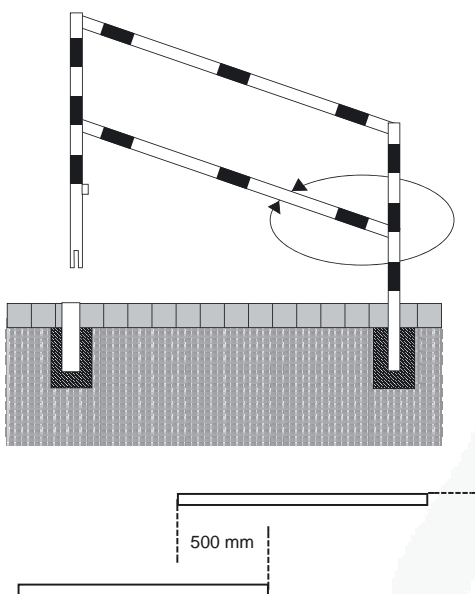
Part-No.  
approx.kg

412.15B  
29.5

412.20B  
32.5

412.25B  
35.5

412.30B  
38.5



Installation schematic



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





## Stationary access barriers

For bolting on site, cluding bolts, consists of:

### 2 stationary posts

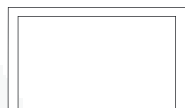
Square tube 70 x 70 mm, above ground 900 mm  
with ground anchor, below ground 400 mm

### 1 Cross bar

Square tube 60 x 40 mm

### with top bars

hot-dip galvanized



Total width in mm

1500

2000

2500

3000

Part-No.  
approx.kg

414.15  
19.5

414.20  
21.0

414.25  
22.5

414.30  
23.5

hot-dip galvanized  
and white coated with  
red reflecting stripes



Part-No.  
approx.kg

414.15B  
19.5

414.20B  
21.0

414.25B  
22,5

414.30B  
23.5

### with top and quarter-bent bar

hot-dip galvanized



Total width in mm

1500

2000

2500

3000

Part-No.  
approx.kg

416.15  
23.5

416.20  
26.5

416.25  
22.5

416.30  
23.5

hot-dip galvanized  
and white coated with  
red reflecting stripes



Part-No.  
approx.kg

416.15B  
19.5

416.20B  
21.0

416.25B  
22.5

416.30B  
23.5

## Fixed access barriers

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

### without quarter-bent bar

hot-dip galvanized



Total width in mm

1500

2000

2500

Part-No.  
approx.kg

4014.15  
19.0

4014.20  
20.0

4014.25  
22.0

hot-dip galvanized  
and white coated with  
red reflecting stripes



Part-No.  
approx.kg

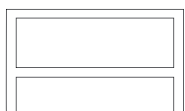
4014.15B  
19.5

4014.20B  
21.0

4014.25B  
22.5

### with quarter-bent bar

hot-dip galvanized



Total width in mm

1500

2000

2500

Part-No.  
approx.kg

4016.15  
23.5

4016.20  
26.5

4016.25  
29.5

hot-dip galvanized  
and white coated with  
red reflecting stripes



Part-No.  
approx.kg

4016.15B  
23.5

4016.20B  
26.5

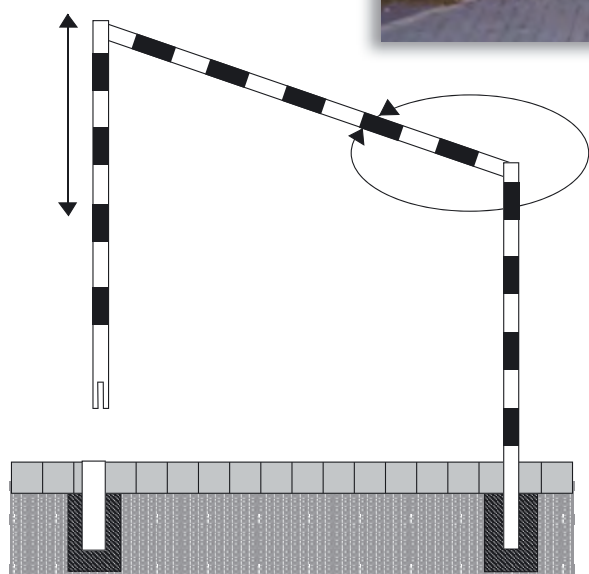
4016.25B  
29.5



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

## Height restriction barriers

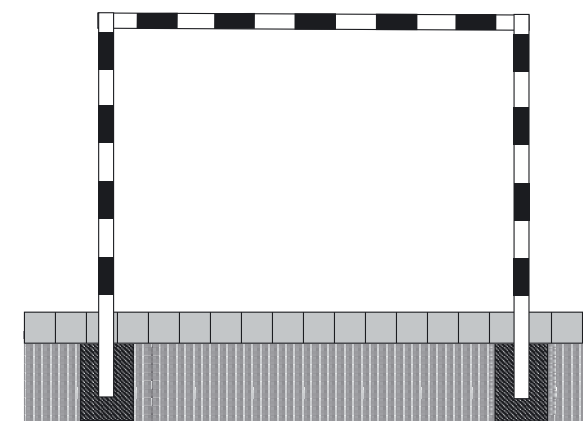
hot-dip galvanized and white coated with red reflecting stripes



### Pivotal, for casting in concrete

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

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



### Stationary, for casting in concrete

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

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

### Stationary, for casting in concrete

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

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

Optionally available with:

#### Base plate for plugging down

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

**Extra charge:**



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



## Height restriction barrier for casting in concrete

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

### 1-part

#### Revolving post

Steel tube Ø 102 mm

#### Cross tube

Aluminium 100 x 50 mm

#### Clear height

approx. 2200 mm

#### Total height above ground

approx. 2600 mm



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

## Height restriction barrier for casting in concrete

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

### 1-part

#### Fixed post

Steel tube Ø 102 mm

#### Cross tube

Aluminium 100 x 50 mm

#### Clear height

approx. 2200 mm

#### Total height above ground

approx. 2600 mm

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

Optionally available with:

#### Base plate for plugging down

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

## Barrier of aluminium tube

Ø 40 mm, approx. 2000 mm length

white coated with red reflecting stripes

for fastening by chains at the cross bar of the height restriction barrier



417.99

## Bracket

of flat bar steel with holes for bolts

fixing a sign 450 mm



417.98



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

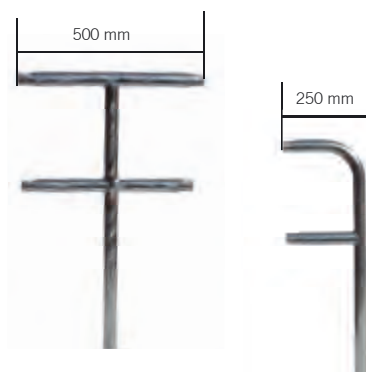


## Protective railing

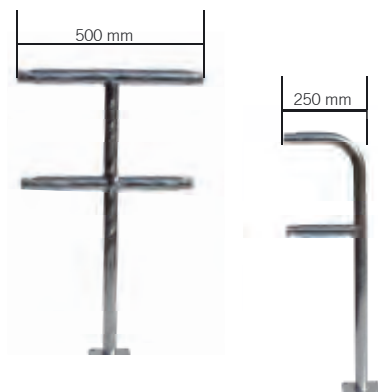
Steel tube Ø 48 mm

variable plugging,  
height 1000 mm above ground

### For casting in concrete



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



### For plugging down with base plate 100 x 150 mm

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

## Cross bar

Steel tube Ø 48 mm



| Tube length | grid site | approx.kg | hot-dip galvanized<br>Part-No. | hot-dip galvanized and white coated with red reflecting stripes<br>Part-No. |
|-------------|-----------|-----------|--------------------------------|---|
| 500 mm      | 1000 mm   | 1.5       | 448.42                         | 448.42B   |
| 1000 mm     | 1500 mm   | 3.0       | 448.43                         | 448.43B   |
| 1500 mm     | 2000 mm   | 4.5       | 448.44                         | 448.44B   |

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





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

## Protective railing

Steel tube 70 x 70 mm  
with top and quarter-bent bar  
Steel tube 60 x 40 mm,  
Height approx. 1000 mm  
above ground, assembled with bolts



### Fixed post for casting in concrete

Steel tube 70 x 70 mm  
height above ground 1000 mm

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



### Fixed post for plugging down

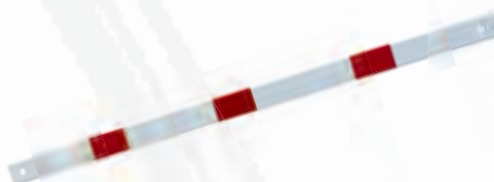
Steel tube 70 x 70 mm  
height above ground 1000 mm  
with base plate 100 x 150 mm

|  |     |       |        |
|--|-----|-------|--------|
| End post for top and quarter-bent bar        | 6.5 | 4270P | 4270PB |
| Middle post for top and quarter-bent bar     | 7.0 | 4271P | 4271PB |
| Corner post for top and quarter-bent bar 90° | 7.0 | 4273P | 4273PB |

### Cross bar

Steel tube 60 x 40 mm  
including fastening bolts

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



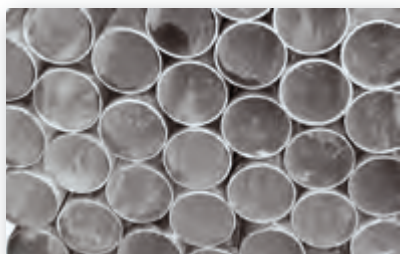
The cross bars are simply placed in the brackets of the stationary post and bolted in place. (Suitable as temporary guard without bolts).  
Also available in yellow / black design; see page 241.

## Barriers

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



Steel tube Ø 60 mm,  
hot-dip galvanized



### Vertical tube

### Cross tube

| Length  | approx.kg | Part-No. |
|---------|-----------|----------|
| 1500 mm | 4.5       | 419.10   |
| 1500 mm | 4.5       | 419.11   |
| 2000 mm | 6.0       | 419.12   |
| 2500 mm | 7.5       | 419.13   |
| 3000 mm | 9.0       | 419.14   |
| 4000 mm | 12.0      | 419.15   |
| 5000 mm | 15.0      | 419.16   |
| 6000 mm | 18.0      | 419.17   |



### Aluminium elbow

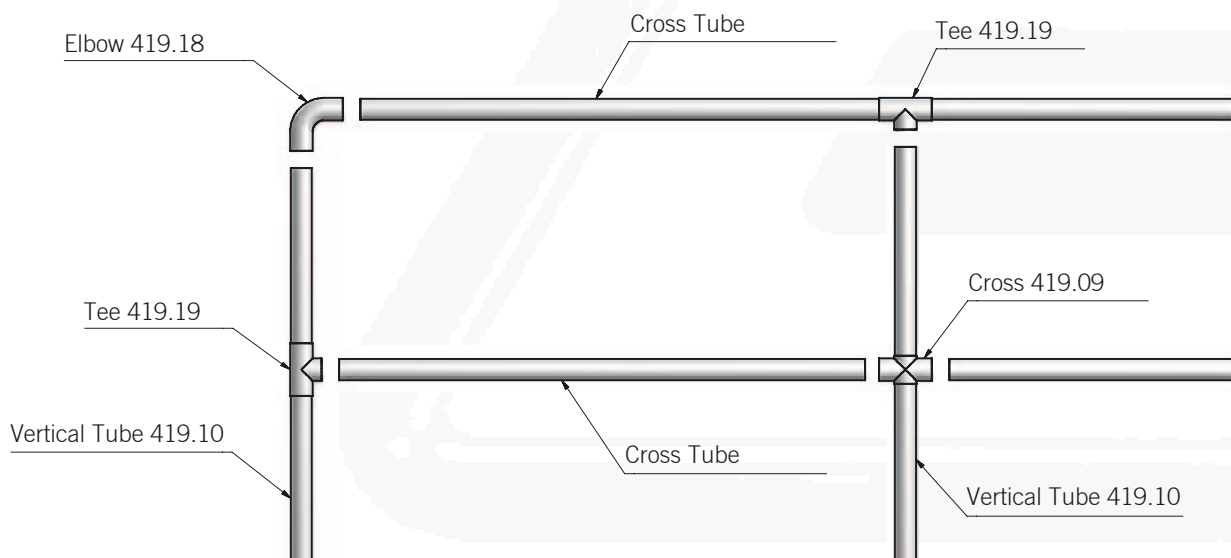
### Aluminium tee

### Aluminium cross

2 half shells with 2 bolts and nuts

|     |        |
|-----|--------|
| 0.5 | 419.18 |
| 0.4 | 419.19 |
| 0.4 | 419.09 |

## Setup







## Traffic safety fencing systems

for higher safety on public roads, separate traffic lanes, for personal safety and guidance system, etc. Easy assembly on site with prefabricated elements that can be exchanged without problem. Can be installed at all angles on slopes and inclines. Powder-coated in common RAL colors (see page 122).



with cover



with ball head



### Fixed post

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

#### Fixed post for casting in concrete

with cover  
with ball head

Length

approx.kg

hot-dip galvanized

Part-No.

hot-dip galvanized and  
white coated  
Part-No.

1500 mm

5.0

419.600

419.600B

1500 mm

5.0

419.602

419.602B

#### Fixed post for plugging down

with cover  
with ball head

1000 mm

5.0

419.601

419.601B

1000 mm

5.0

419.603

419.603B

### Cross tube

Steel tube Ø 60 mm,  
including connection elements

Grid sizes: 1150 mm

1000 mm

4.5

419.610

419.610B

Grid sizes: 1650 mm

1500 mm

5.5

419.615

419.615B

Grid sizes: 2150 mm

2000 mm

6.5

419.620

419.620B

Grid sizes: 2650 mm

2500 mm

8.0

419.625

419.625B

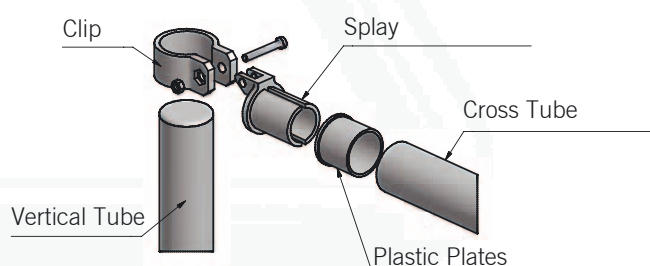
### Connection element (loose) for

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

0.3

419.699

419.699B



Coated products are made to order. Orders cannot be cancelled, coated products cannot be returned.

## Safety railings

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



### Fixed post for top bar

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

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

### Fixed post for top and quarter-bent bar

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

### Fixed post for border railings

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

|             |     |        |         |
|-------------|-----|--------|---------|
| End post    | 3.0 | 467.04 | 467.04B |
| Middle post | 3.0 | 467.05 | 467.05B |
| Corner post | 3.0 | 467.06 | 467.06B |

### Cross bar for safety railing or border railing

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

|     |        |         |
|-----|--------|---------|
| 4.0 | 467.20 | 467.20B |
|-----|--------|---------|

### Aluminium joint

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

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

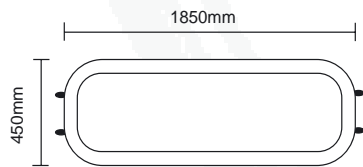






Safety barriers

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



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°

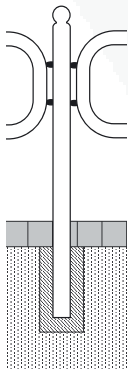
approx.kg

Part-No.

hot-dip galvanized and coated RAL 7016

8.0

478.20B



Fixed post

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

End post with 2 connecting clips

8.0

478.02B

Middle post with 4 connecting clips

8.0

478.04B

Ground rosette bolts

478RB

Border railing with cross bar made of flat bar steel

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



Fixed post

Steel tube 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



Other lengths and colors on request; see page 122.



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

## City fence

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



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

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

## Fence element

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

## Center spacing

|         |      |          |
|---------|------|----------|
| 1000 mm | 10.0 | 418.710B |
| 1500 mm | 12.0 | 418.715B |



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

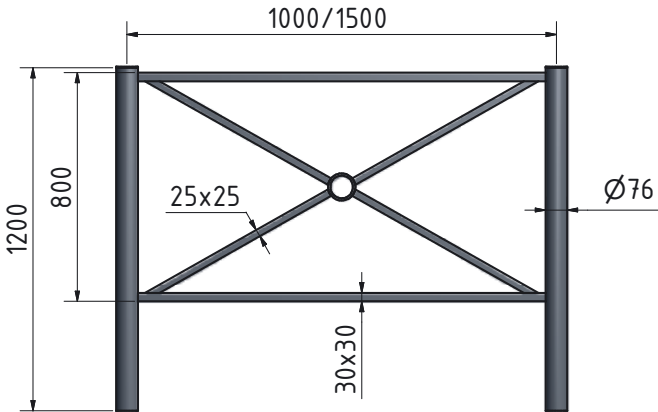


City fence

For safety in town, perfect layout,  
unobtrusive

City fence element

Vertical steel tubes Ø 76 mm  
Horizontal steel tubes 30 x 30 mm  
Diagonal steel tubes 25 x 25 mm  
Total height 1200 mm  
hot-dip galvanized and powder-coated DB 703



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



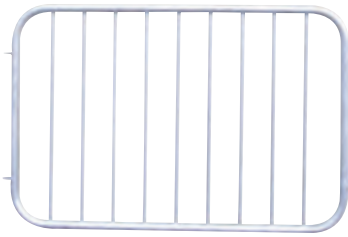
|                |         |      |           |
|----------------|---------|------|-----------|
| with ball head | 1000 mm | 21.0 | 418.7440B |
| with ball head | 1500 mm | 25.0 | 418.7445B |



Other lengths and colors on request; see page 122.



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



418.35

## Fence panel element

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

hot-dip galvanized

approx.kg 12.5

Part-No. 418.35

hot-dip galvanized and white coated

12.5

418.35B



418.42



418.44

## Fixed post

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

### End post with 2 connecting clips

hot-dip galvanized

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

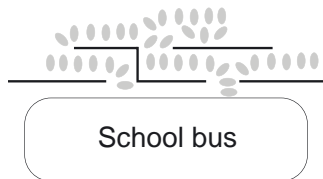
418.44

hot-dip galvanized and white coated

5.0

418.44B

## Safety fence panel for exposed areas of danger



School bus



418.15

## 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

### hot-dip galvanized

### Center spacing

750 mm

12.5

418.07

1500 mm

20.0

418.15

2000 mm

25.0

418.20

### hot-dip galvanized

750 mm

13.0

418.07B

### and coated white or red

1500 mm

20.5

418.15B

2000 mm

25.0

418.20B



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

## Fixed post

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

### Middle post with 4 connecting clips

hot-dip galvanized

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



418.00



418.02



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





## Barrier poles - pages 205 -213

Swing barriers  
Access barriers  
Manual barriers

### 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<br>Part-No. | with triangular lock<br>Part-No. | with Euro profile cylinder lock<br>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                                    |

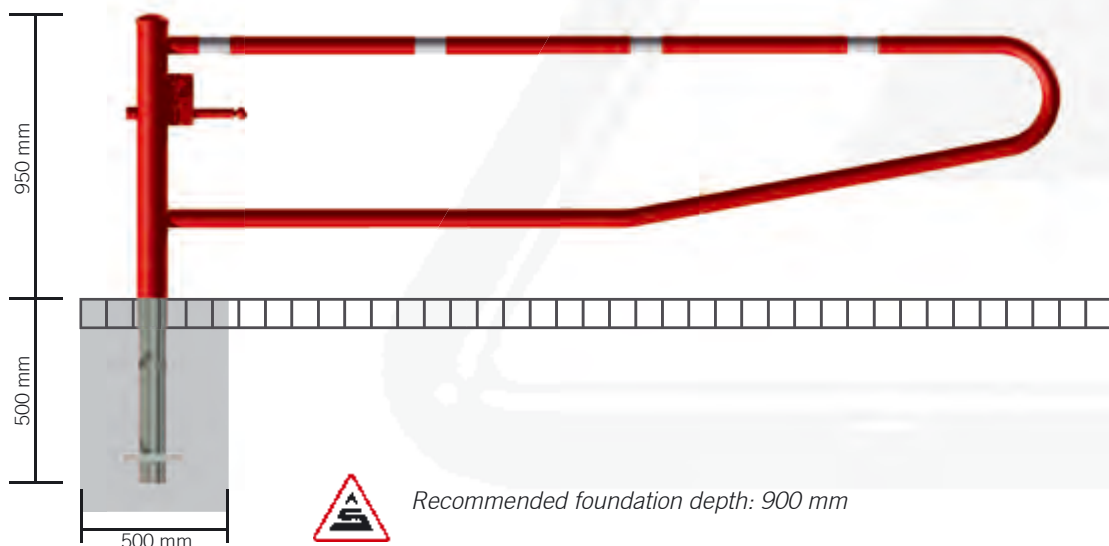
#### for casting in concrete, hot-dip galvanized and red coated with white reflecting rings

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

Optionally available with:

#### Base plate for plugging down

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



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



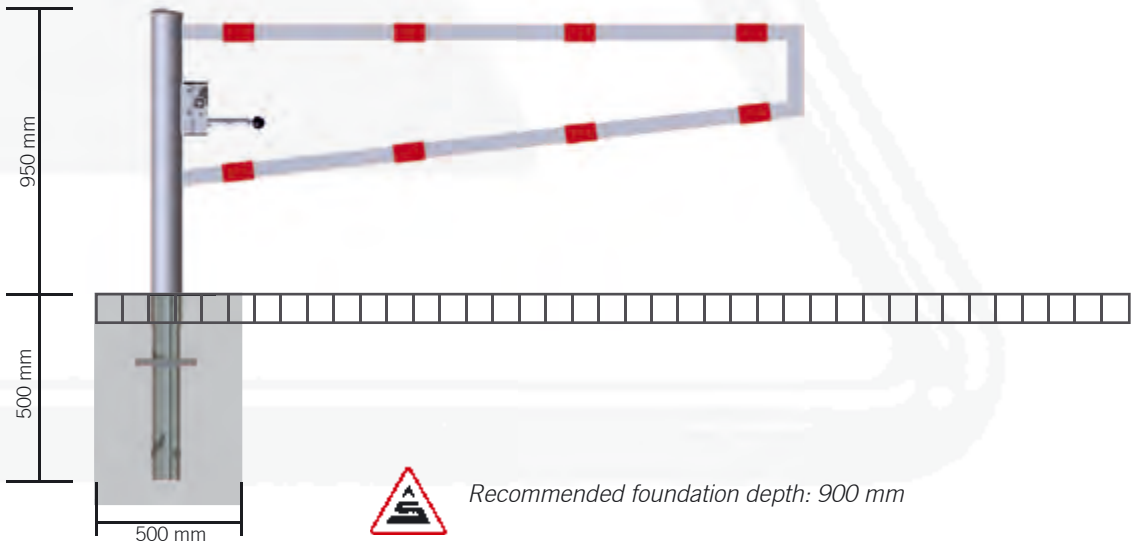
for casting in concrete, hot-dip galvanized

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

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





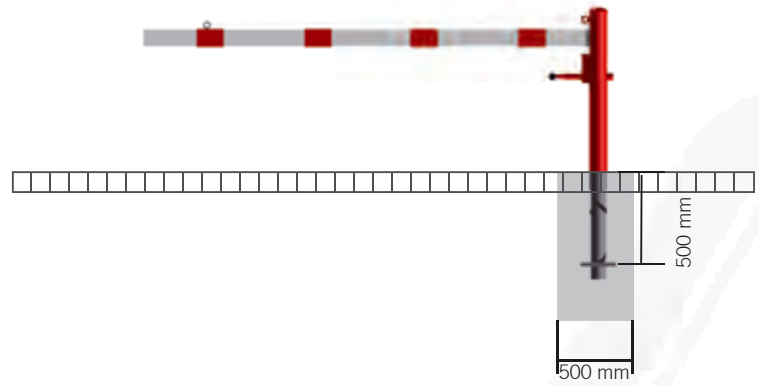
## Swing barrier

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

**Swiveling post:** Steel tube Ø 102 mm, hot-dip galvanized and coated red

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

**Height:** approx. 950 mm above ground



Recommended foundation depth: 900 mm

## for casting in concrete

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

Optionally available with:

### Base plate for plugging down

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



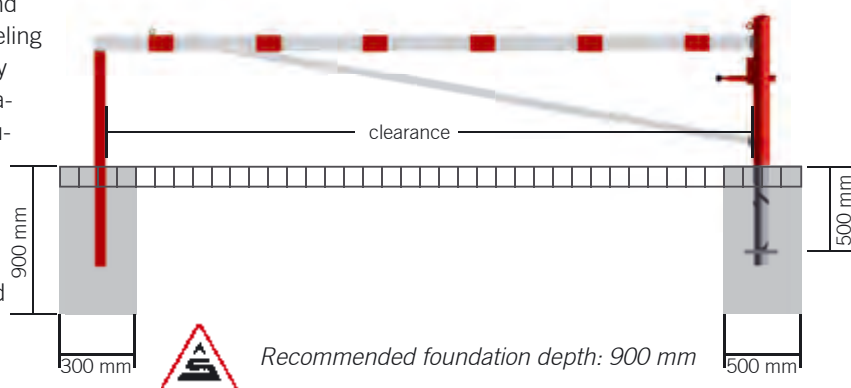
# Swing barrier with support post



## Swing barrier

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

- Swiveling post:** Steel tube 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 |           | for padlock | with triangular lock | with Euro profile cylinder lock |
|--------------------|-----------|-------------|----------------------|---------------------------------|
|                    | approx.kg | Part-No.    | Part-No.             | Part-No.                        |
| 3000 mm            | 58.0      | 4213.30VB   | 4213.30FB            | 4213.30ZB                       |
| 3500 mm            | 61.0      | 4213.35VB   | 4213.35FB            | 4213.35ZB                       |
| 4000 mm            | 65.0      | 4213.40VB   | 4213.40FB            | 4213.40ZB                       |
| 4500 mm            | 69.0      | 4213.45VB   | 4213.45FB            | 4213.45ZB                       |
| 5000 mm            | 73.0      | 4213.50VB   | 4213.50FB            | 4213.50ZB                       |
| 5500 mm            | 78.0      | 4213.55VB   | 4213.55FB            | 4213.55ZB                       |
| 6000 mm            | 83.0      | 4213.60VB   | 4213.60FB            | 4213.60ZB                       |

Optionally available with:

### Base plate for plugging down

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

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

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



## Access barrier

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

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

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

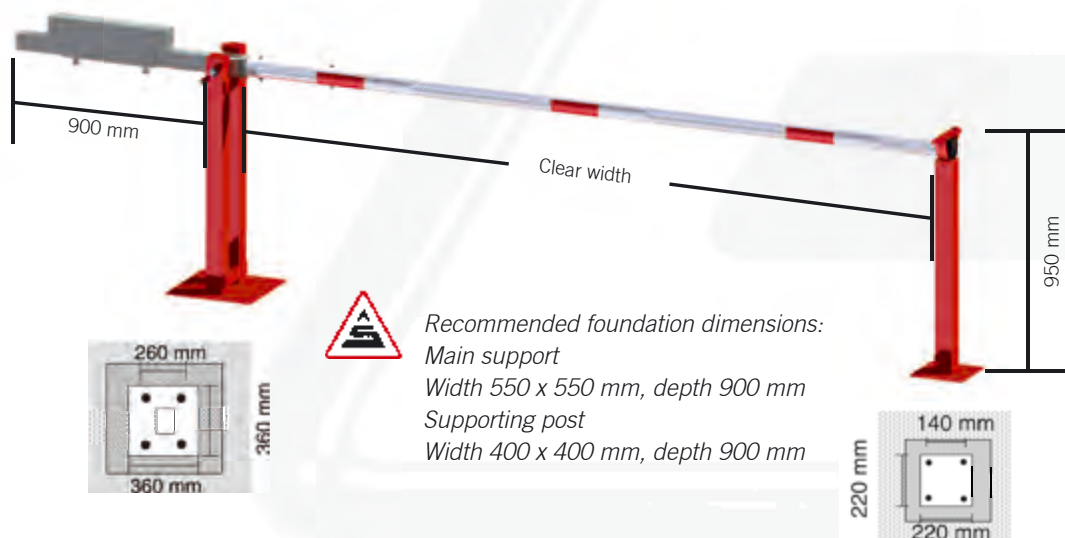
**Locking mechanism:** At the supporting post, can be fixed by the main support pin when the arm is open

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



| Clear width approx.kg |       | for padlock<br>Part-No. | with triangular lock<br>Part-No. | with Euro profile cylinder lock<br>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. |
|---|-----------|----------|
| <b>Set of mounting bolts type 3</b> , to be fixed by plugs  |           | 470.73   |
| <b>Set of ground sockets</b> with ground anchor plate for main and supporting posts, <b>for casting in concrete</b> , hot-dip galvanized, including bolts M16 | 16.0      | 411.92   |
| <b>Pull rope reinforcement</b>  |           | 411.95   |







Access barrier

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

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

**Swing post:** Aluminium tube with foot

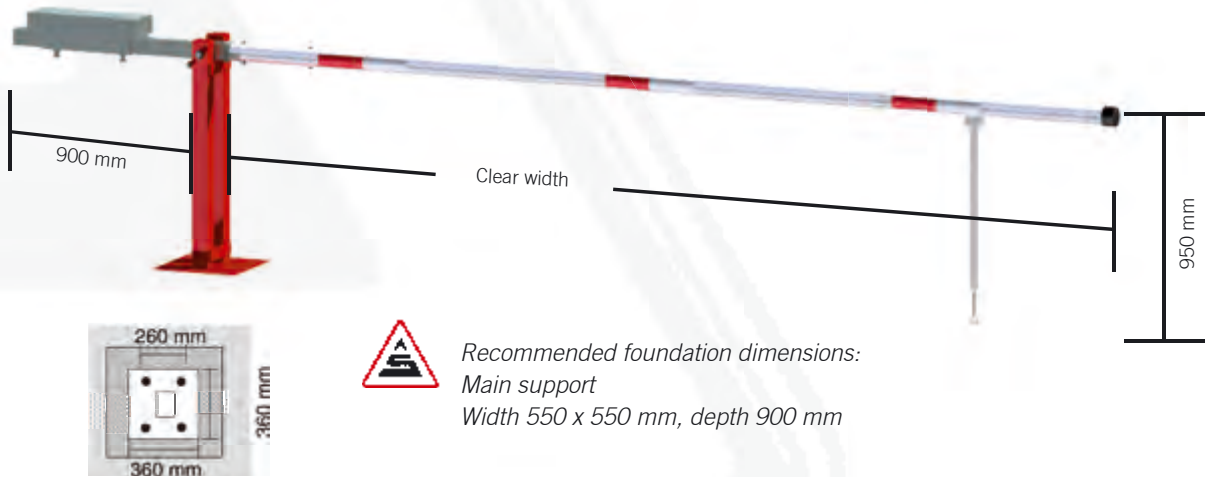
**Locking mechanism:** At the main support with a locking pin, for fixing the arm in open or closed position

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



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

|   | approx.kg | Part-No. |
|---|-----------|----------|
| Set of mounting bolts type 3, to be fixed by plugs  |           | 470.72   |
| Ground socket with ground anchor plate for main support, for casting in concrete, hot-dip galvanized, including bolts M16 | 12.0      | 411.91   |
| Pull rope reinforcement   |           | 411.95   |



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

## 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

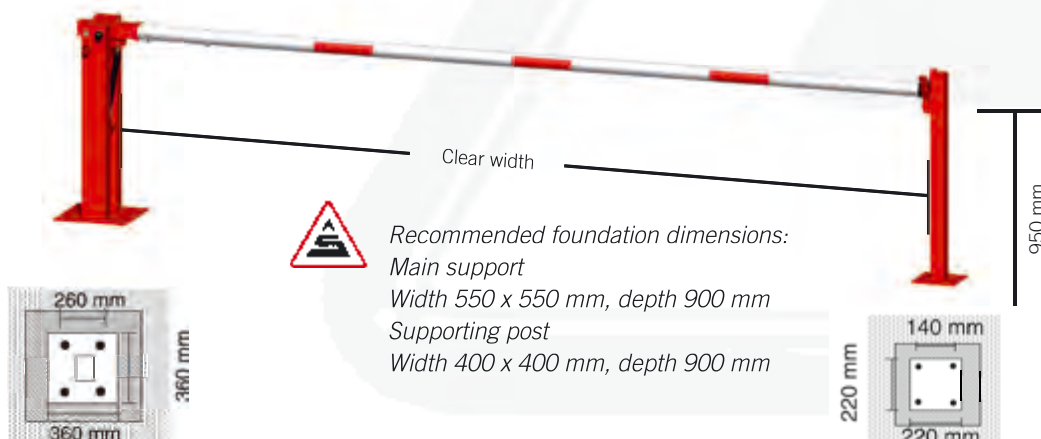
**Height:** approx. 950 mm above ground



| Clear width | approx.kg | for padlock<br>Part-No. | with triangular lock<br>Part-No. |
|-------------|-----------|-------------------------|----------------------------------|
| 3000 mm     | 45.0      | 415.30VPB               | 415.30FPB                        |
| 4000 mm     | 48.0      | 415.40VPB               | 415.40FPB                        |
| 5000 mm     | 51.0      | 415.50VPB               | 415.50FPB                        |
| 6000 mm     | 54.0      | 415.60VPB               | 415.60FPB                        |
| 7000 mm     | 58.0      | 415.70VPB               | 415.70FPB                        |

|         |      | Euro profile cylinder lock | Triangular locking mechanism<br>and Euro profile cylinder lock<br>at the main support |
|---------|------|----------------------------|---|
| 3000 mm | 45.0 | 415.30ZPB                  | 415.30FZPB  |
| 4000 mm | 48.0 | 415.40ZPB                  | 415.40FZPB  |
| 5000 mm | 51.0 | 415.50ZPB                  | 415.50FZPB  |
| 6000 mm | 54.0 | 415.60ZPB                  | 415.60FZPB  |
| 7000 mm | 58.0 | 415.70ZPB                  | 415.70FZPB  |

|   | approx.kg | Part-No. |
|---|-----------|----------|
| <b>Set of mounting bolts type 3</b> , to be fixed by plugs  |           | 470.73   |
| <b>Set of ground sockets</b> with ground anchor plate for main and supporting posts, <b>for casting in concrete</b> , hot-dip galvanized, including bolts M16 | 16.0      | 415.92   |
| <b>Pull rope reinforcement</b>  |           | 415.95   |



# Manual barrier with gas pressure spring



## Manual barrier with pneumatic spring and hinged pole support

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

**Pole support:** Aluminium pipe with foot

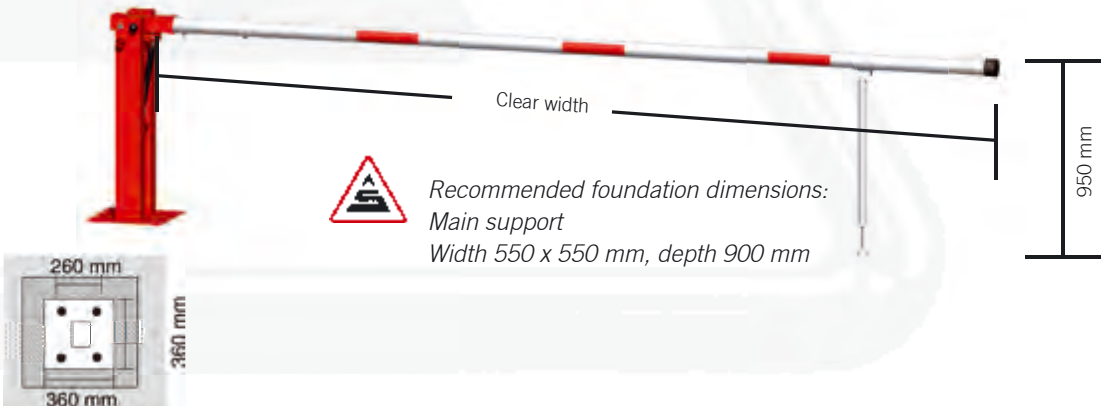
**Barrier arm:** Thick-walled Ø 80 mm aluminium tube, powder-coated with red reflecting stripes

### Locking mechanism at the main support

**Total width:** Clear width + approx. 180 mm  
**Height:** approx. 950 mm above ground



| Clear width   |      | for padlock                |  | with triangular lock                           |  |
|---|------|----------------------------|--|--|--|
| approx.kg   |      | Part-No.                   |  | Part-No.                                       |  |
| 3000 mm   | 41.0 | 415.31VPB                  |  | 415.31FPB                                      |  |
| 4000 mm   | 44.0 | 415.41VPB                  |  | 415.41FPB                                      |  |
| 5000 mm   | 47.0 | 415.51VPB                  |  | 415.51FPB                                      |  |
| 6000 mm   | 50.0 | 415.61VPB                  |  | 415.61FPB                                      |  |
| 7000 mm   | 54.0 | 415.71VPB                  |  | 415.71FPB                                      |  |
|   |      | Euro profile cylinder lock |  | Triangular lock and Euro profile cylinder lock |  |
| 3000 mm   | 41.0 | 415.31ZPB                  |  | 415.31FZPB                                     |  |
| 4000 mm   | 44.0 | 415.41ZPB                  |  | 415.41FZPB                                     |  |
| 5000 mm   | 47.0 | 415.51ZPB                  |  | 415.51FZPB                                     |  |
| 6000 mm   | 50.0 | 415.61ZPB                  |  | 415.61FZPB                                     |  |
| 7000 mm   | 54.0 | 415.71ZPB                  |  | 415.71FZPB                                     |  |
|   |      | approx.kg                  |  | Part-No.                                       |  |
| Set of mounting bolts type 2, to be fixed by plugs  |      |                            |  | 470.72   |  |
| Ground socket with ground anchor plate for main support, for casting in concrete, hot-dip galvanized, including bolts M16 |      | 12.0                       |  | 415.91   |  |
| Euro profile cylinder lock with forced closing  |      |                            |  | 415.96   |  |
| Pull rope reinforcement   |      |                            |  | 415.95   |  |





## Swing barrier

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

**Swiveling post:** Steel tube 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<br>Part-No. | with Triangular lock<br>Part-No. | with Euro profile cylinder lock<br>Part-No. |
|-----------------------|------|-------------------------|----------------------------------|---|
| 2500 mm               | 39.0 | 413.250V                | 413.250F                         | 413.250Z                                    |
| 3000 mm               | 43.0 | 413.300V                | 413.300F                         | 413.300Z                                    |
| 3500 mm               | 47.0 | 413.350V                | 413.350F                         | 413.350Z                                    |
| 4000 mm               | 49.0 | 413.400V                | 413.400F                         | 413.400Z                                    |
| 4500 mm               | 51.0 | 413.450V                | 413.450F                         | 413.450Z                                    |

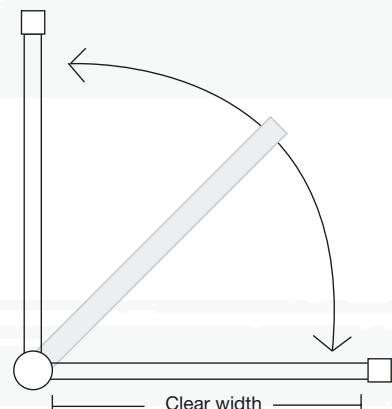
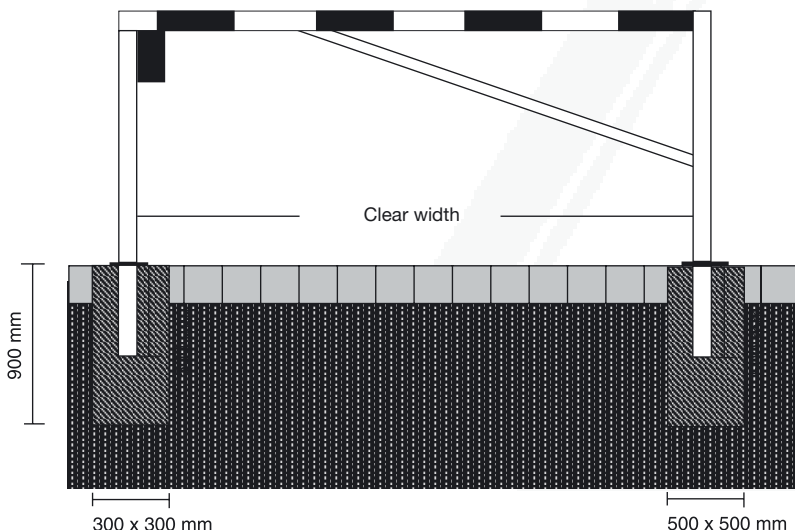
### for casting in concrete, hot-dip galvanized and coated red with white reflecting rings

| Clear width approx.kg |      | for padlock<br>Part-No. | with Triangular lock<br>Part-No. | with Euro profile cylinder lock<br>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 article number, extra charge:







Barrier posts

Stainless steel

Barrier elements

Barrier poles



### Outdoor equipment - pages 215 - 228

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

Outdoor equipment

Works protection



*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   |
| 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 |
|------------|--------|------|---------|



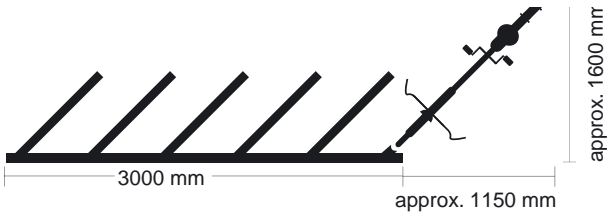
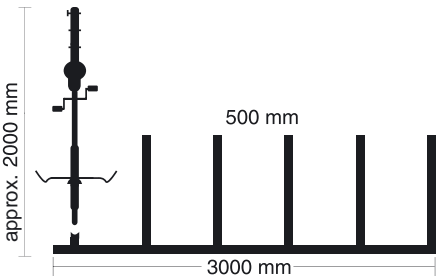
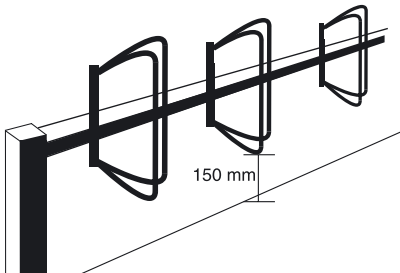
Figure: 2 racks 420.20H





**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<br>for casting in concrete |                      | Stand-alone construction<br>for plugging down |                      | Wall brackets<br>for plugging down |                      |
|---|---|----------------------|---|----------------------|------------------------------------|----------------------|
| Element length                                | 3000  |                      | 3000  |                      | 3000                               |                      |
| Total length<br>with vertical tube approx. mm | 3100<br>one-side                                    |                      | 3100<br>one-side                              |                      | 3100<br>one-side                   |                      |
| Bicycle positioning                           | straight<br>90°                                     | left or<br>right 45° | straight<br>90°                               | left or<br>right 45° | straight<br>90°                    | left or<br>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               |



**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**

approx.kg

Part-No.

one-side parking  
two-side parking

3.5  
4.0

421.51  
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  
4.5

421.53  
421.54

**Individual stand for wall mounting**

straight positioning 90°  
angled positioning 45°

3.5  
3.5

421.55  
421.56

**Individual stand for casting in concrete, hot-dip galvanized**

Stand of Ø 20 mm round steel

Height approx. 530 mm above ground

4.0

421.60

**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

10.0

422.01





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**

|                                      |      |         |
|--------------------------------------|------|---------|
| 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

|      |        |
|------|--------|
| 20.0 | 422.10 |
|------|--------|

**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

|      |        |
|------|--------|
| 38.0 | 422.30 |
|------|--------|



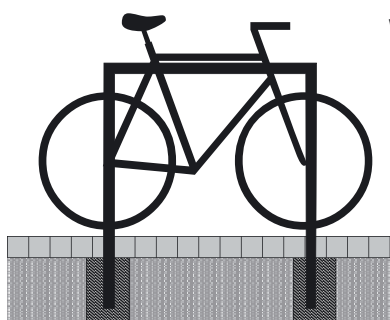


## Lean-on hoop of flat bar steel

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 |
|-------------|-----------|
| 450 mm      | 13.0      |
| 750 mm      | 14.5      |
| 1000 mm     | 16.0      |

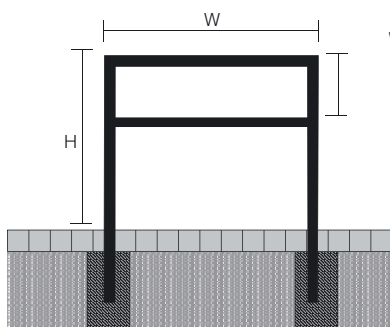
hot-dip galvanized

Part-No.

|         |
|---------|
| 450.045 |
| 450.075 |
| 450.100 |

hot-dip galvanized and  
coated DB 703  
Part-No

|          |
|----------|
| 450.045B |
| 450.075B |
| 450.100B |



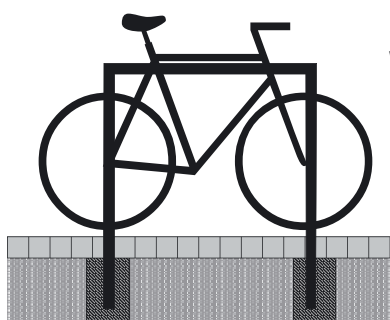
with cross bar

|         |      |
|---------|------|
| 450 mm  | 15.0 |
| 750 mm  | 18.0 |
| 1000 mm | 20.5 |

|         |
|---------|
| 451.045 |
| 451.075 |
| 451.100 |

|          |
|----------|
| 451.045B |
| 451.075B |
| 451.100B |

### Flat bar steel 80 x 12 mm

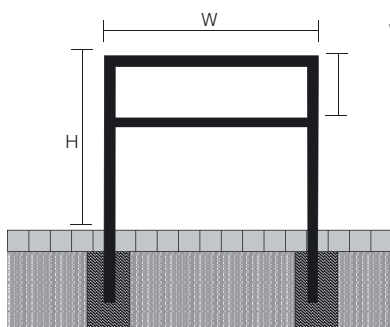


without cross bar

|         |      |
|---------|------|
| 450 mm  | 21.0 |
| 750 mm  | 23.5 |
| 1000 mm | 25.5 |

|         |
|---------|
| 452.045 |
| 452.075 |
| 452.100 |

|          |
|----------|
| 452.045B |
| 452.075B |
| 452.100B |



with cross bar

|         |      |
|---------|------|
| 450 mm  | 24.0 |
| 750 mm  | 28.5 |
| 1000 mm | 33.0 |

|         |
|---------|
| 453.045 |
| 453.075 |
| 453.100 |

|          |
|----------|
| 453.045B |
| 453.075B |
| 453.100B |

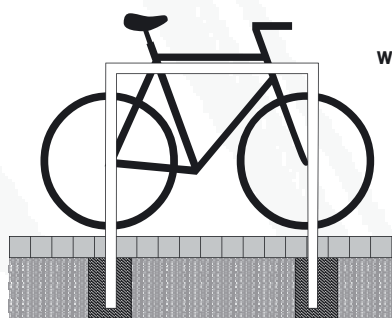


## Lean-on hoop made of steel tube

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 |
|-------------|-----------|
| 450 mm      | 12.5      |
| 750 mm      | 14.0      |
| 1000 mm     | 15.0      |

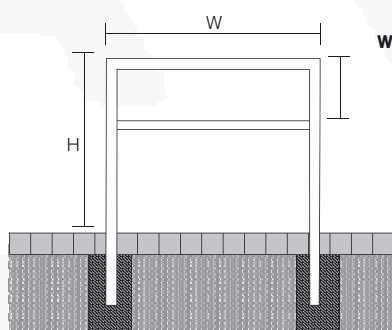
hot-dip galvanized

Part-No.

|         |
|---------|
| 454.045 |
| 454.075 |
| 454.100 |

hot-dip galvanized and  
coated DB 703  
Part-No

|          |
|----------|
| 454.045B |
| 454.075B |
| 454.100B |



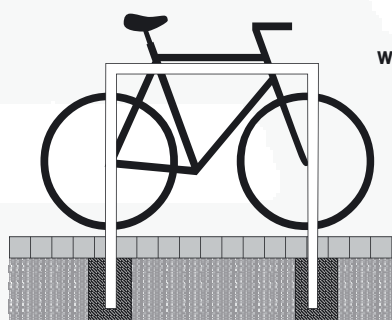
with cross bar

|         |      |
|---------|------|
| 450 mm  | 14.5 |
| 750 mm  | 17.5 |
| 1000 mm | 19.0 |

|         |
|---------|
| 455.045 |
| 455.075 |
| 455.100 |

|          |
|----------|
| 455.045B |
| 455.075B |
| 455.100B |

### Square tube 60 x 40 mm

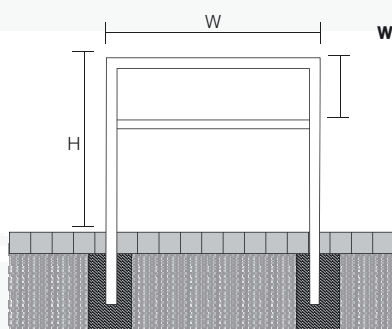


without cross bar

|         |      |
|---------|------|
| 450 mm  | 10.0 |
| 750 mm  | 11.5 |
| 1000 mm | 12.5 |

|         |
|---------|
| 456.045 |
| 456.075 |
| 456.100 |

|          |
|----------|
| 456.045B |
| 456.075B |
| 456.100B |



with cross bar

|         |      |
|---------|------|
| 450 mm  | 12.0 |
| 750 mm  | 14.0 |
| 1000 mm | 13.0 |

|         |
|---------|
| 457.045 |
| 457.075 |
| 457.100 |

|          |
|----------|
| 457.045B |
| 457.075B |
| 457.100B |



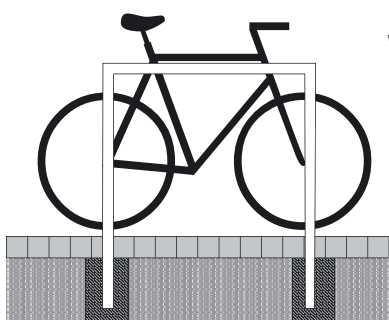
Bicycle lean-on hoops are manufactured to order.  
Orders cannot be cancelled, hoops cannot be returned.

## Lean-on hoop made of steel tube

for casting in concrete, hot-dip galvanized  
and optionally powder-coated in DB 703  
Total height approx. **1200 mm**



### Square tube 80 x 20 mm



without cross bar

| Total width | approx.kg |
|-------------|-----------|
| 450 mm      | 8.5       |
| 750 mm      | 9.5       |
| 1000 mm     | 10.0      |

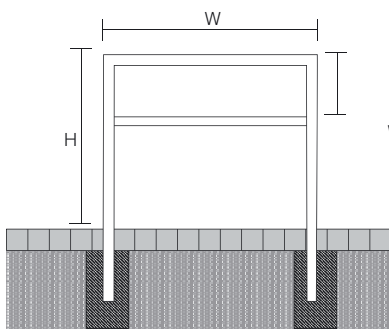
hot-dip galvanized

Part-No.

|         |
|---------|
| 458.045 |
| 458.075 |
| 458.100 |

hot-dip galvanized and  
coated DB 703  
Part-Nr

|          |
|----------|
| 458.045B |
| 458.075B |
| 458.100B |



with cross bar

|         |      |
|---------|------|
| 450 mm  | 10.0 |
| 750 mm  | 11.5 |
| 1000 mm | 13.0 |

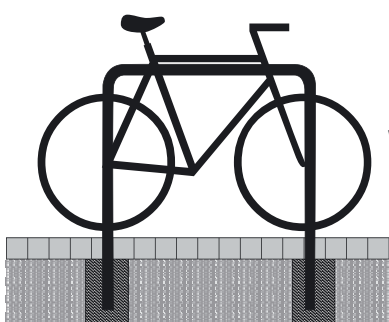
|         |
|---------|
| 459.045 |
| 459.075 |
| 459.100 |

|          |
|----------|
| 459.045B |
| 459.075B |
| 459.100B |

### Flat bar steel 80 x 12 mm

#### Lean-on hoop of bent design

for casting in concrete, hot-dip galvanized  
and optionally powder-coated in DB 703  
total height approx. **1200 mm**



without cross bar

|         |      |
|---------|------|
| 750 mm  | 23.0 |
| 1000 mm | 25.5 |

|          |
|----------|
| 4052.075 |
| 4052.100 |

|           |
|-----------|
| 4052.075B |
| 4052.100B |







The functional shape of the aesthetic design of this lean-on hoop allows many different uses.



**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                   | approx.kg | Part-No. |
| hot-dip galvanized and coated DB 703 | 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                   | approx.kg | Part-No. |
| 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 | approx.kg | Part-No. |
|                                      | 5.5       | 422.55PB |

**Lean-on barrier**

Flat bar steel 50 x 12 mm, hot-dip galvanized and coated DB 703, with 2 cross bars of stainless steel tube Ø 48 mm ground surface, total height: 1200 mm

| width 450 mm |          | width 750 mm |          | width 1000 mm |          |
|--------------|----------|--------------|----------|---------------|----------|
| approx.kg    | Part-No. | approx.kg    | Part-No. | approx.kg     | Part-No. |
| 13.0         | 449.045B | 14.5         | 449.075B | 15.5          | 449.100B |

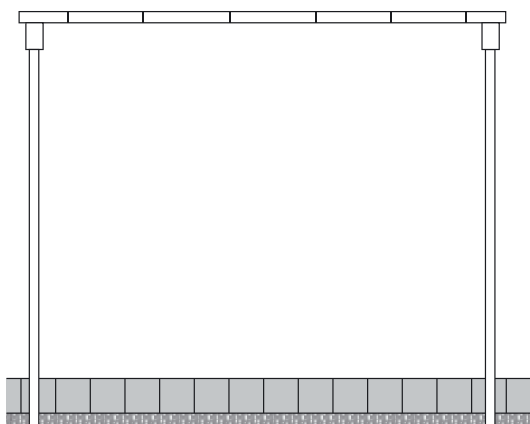


Bicycle lean-on hoops are manufactured to order.  
Orders cannot be cancelled, hoops cannot be returned.

## Laundry drying stand

### consisting of:

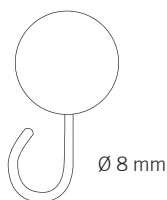
2 fixed posts with ground anchor, total height 2500 mm,  
cross tube with welded, bent hooks,  
hot-dip galvanized, spacing approx. 500 mm  
2 T-connectors, 2-part with bolt M10,  
2 plastic caps



|  | approx.kg | Steel tube Ø 48 mm<br>Part-No. | Steel tube Ø 60 mm<br>Part-No. |
|--|-----------|--------------------------------|--------------------------------|
| Cross tube 2500 mm<br>5 hooks, one-sided | 24.5      | 419.4425                       | 419.4625                       |
| Cross tube 3000 mm<br>6 hooks, one-sided | 26.0      | 419.4430                       | 419.4630                       |
| Cross tube 3500 mm<br>7 hooks, one-sided | 27.5      | 419.4435                       | 419.4635                       |
| Cross tube 4000 mm<br>8 hooks, one-sided | 29.0      | 419.4440                       | 419.4640                       |

### Extra charge for additional hooks

|                     |         |
|---------------------|---------|
| Each bent hook, pc. | 419.460 |
|---------------------|---------|



## Carpet beater frame

Design same as laundry drying stand  
but without hooks

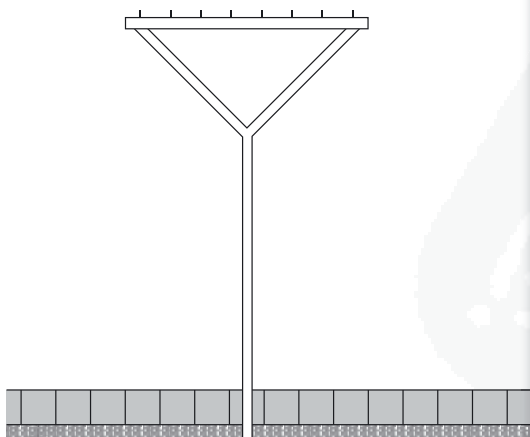
|                    | approx.kg | Part-No. | Part-No. |
|--------------------|-----------|----------|----------|
| Cross tube 2500 mm | 22.0      | 419.4525 | 419.4725 |
| Cross tube 3000 mm | 23.5      | 419.4530 | 419.4730 |
| Cross tube 3500 mm | 25.0      | 419.4535 | 419.4735 |
| Cross tube 4000 mm | 26.5      | 419.4540 | 419.4740 |

|  | approx.kg | Part-No. |
|--|-----------|----------|
|--|-----------|----------|

## Laundry drying stand Y-shape, made of steel tube Ø 60 mm

### consisting of:

Cross tube with 8 round pins Ø 10 x 40 mm  
Total width: 1500 mm  
Total height: 2500 mm  
with ground anchor, hot-dip galvanized



**Tree guard**

Flat bar steel 16 x 8 mm  
 Above-ground height approx. 1800 mm  
 Two half cages, connected by bolts  
 Cage diameter:  
 top approx. 500 mm  
 center approx. 380 mm  
 bottom approx. 800 mm  
 3 clips for fastening to tree slice or in the ground

|                                      | approx.kg | Part-No. |
|--------------------------------------|-----------|----------|
| hot-dip galvanized                   | 37.0      | 420100   |
| hot-dip galvanized and coated DB 703 | 37.0      | 420100B  |

**Tree guard**

Flat bar steel 20 x 5 mm  
 welded over the high edge,  
 above-ground height approx. 1800 mm  
 Two half cages, connected by bolts  
 Cage diameter:  
 top approx. 500 mm  
 center approx. 380 mm  
 bottom approx. 800 mm  
 3 clips for fastening to tree slice or in the ground

|                                      |      |         |
|--------------------------------------|------|---------|
| hot-dip galvanized                   | 35.0 | 420101  |
| hot-dip galvanized and coated DB 703 | 35.0 | 420101B |

|  |        |
|--|--------|
| Ground anchor for fastening the tree guard<br>galvanized                   | 420111 |
| Tree grille fasteners of cast iron (Buderus, Hydredec)<br>without gradient | 420115 |
| Concrete tree slice fasteners (Kornimus HD 12 cm)<br>without gradient      | 420112 |
| Concrete tree slice fasteners (Kornimus HD 16 cm)<br>without gradient      | 420116 |
| Clip extensions for tree slices Ø 600 mm (inside),<br>each                 | 420117 |



Trellis for wall fastening at 110 or 180 cm height on request.



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



Powder coating to order. Orders cannot be cancelled, bins cannot be returned.



## 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 fixed to post Ø 60 x 1300 mm | 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

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

## Planters

Round tubes Ø 60 mm vertical  
Steel tube 30 x 30 mm horizontal  
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



with ball head  
with flat head

| approx.kg | Part-No. |
|-----------|----------|
| 31.0      | 4025.10B |
| 31.0      | 4025.20B |

## Planters

Round tubes Ø 76 mm vertical  
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 |







Barrier posts

Stainless steel

Barrier elements

Barrier poles

Outdoor equipment

Works protection

### Works protection - pages 229 - 244

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

**Barrier posts****Steel tube Ø 76, Ø 89, 70 x 70 mm**

with welded steel cap

approx. 900 mm above ground, total length 1400 mm

hot-dip galvanized and yellow coated with black stripes



476BG



489BG



470BG

**Stationary, for casting in concrete**

with ground anchor

Total length: 1400 mm

hot-dip galvanized and coated yellow  
with three black stripes

Diameter in mm

Ø 76

Ø 89

70 x 70 mm

approx.kg

6.0

9.0

7.5

Part-No.

476BG

489BG

470BG



476PBG



489PBG



470PBG

**Stationary, to be fixed by plugs**

with base plate 100 x 150 mm

Total length: 900 mm

hot-dip galvanized and coated yellow  
with three black stripes

Diameter in mm

Ø 76

Ø 89

70 x 70 mm

approx.kg

5.5

7.5

6.5

Part-No.

476PBG

489PBG

470PBG

**Set of mounting bolts type 1**

Part-No.

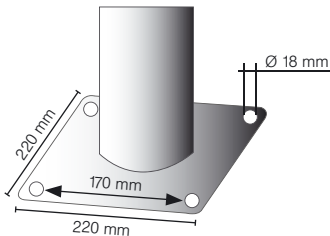
470.71



Barrier posts

Steel tube 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



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

Stationary, sides tiltable

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

hot-dip galvanized and coated yellow  
with three black stripes

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

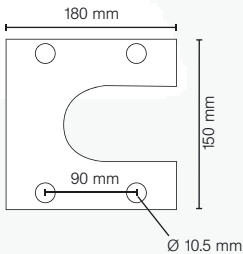
Set of mounting bolts type 2

Part-No. 470.72

Cover Ø 200 mm for barrier post, tiltable

Part-No. 477.10BG

Removable!



476APBG 470APBG

detachable, removable, fixed by plugs

with base plate 150 x 180 mm  
locked by hexagon socket screw

hot-dip galvanized and coated yellow  
with three black stripes

| Diameter in mm | 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



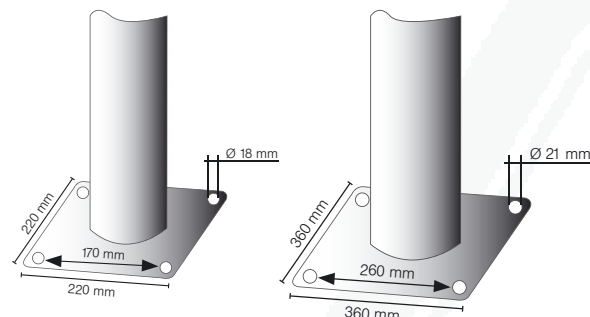


40153BG

40151BG

40191

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



Set of mounting bolts, see page 173.

### Steel tube bollards Ø 152 x 3.2 mm

with welded steel cap

hot-dip galvanized

hot-dip galvanized and coated yellow  
with three black stripes

### Stationary, for casting in concrete

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

for plugging down  
with base plate  
220 x 220 mm

### Steel tube bollards Ø 193 x 3.6 mm

with welded steel cap

hot-dip galvanized

hot-dip galvanized and coated yellow  
with three black stripes

### Stationary, for casting in concrete

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

for plugging down  
with base plate  
360 x 360 mm

### Steel cap, bolted

Replaces the welded steel cap



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

Extra charge:

### Steel cap with concrete anchor

Replaces welded steel cap



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

Extra charge:



Also available in white / red, see page 134. Other lengths on request.

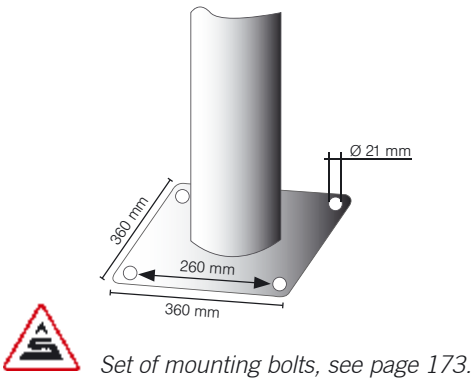
Bollards are manufactured to order. Orders cannot be cancelled, bollards cannot be returned.



40273BG



40271



**Steel tube bollard Ø 273 x 5 mm thick**  
with welded steel cap

**Stationary, for casting in concrete**

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

|  |                           |             |             |             |
|--|---------------------------|-------------|-------------|-------------|
|  | <b>Total length in mm</b> | <b>1500</b> | <b>2000</b> | <b>1500</b> |
|  | <b>approx.kg</b>          | 50.0        | 68.0        | 60.0        |
| hot-dip galvanized   | <b>Part-No.</b>           | 40271       | 40272       | 40273       |
| hot-dip galvanized and coated yellow<br>with three black stripes | <b>Part-No.</b>           | 40271BG     | 40272BG     | 40273BG     |

**Steel cap with concrete anchor**  
Replaces welded steel cap

Add letter **A** to the part-no.  
**Extra charge:**



**Steel tube bollard Ø 152 x 3.2 mm thick, removable without locking mechanism**

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

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

**Steel tube bollard Ø 152 x 3.2 mm thick, removable with triangular lock**

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

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

**Steel tube bollards Ø 193 x 3.6 mm thick, removable without locking mechanism**

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

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



40151HBG



40151FBG



40191HBG



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



## Anti-nudge hoop

### Steel tube Ø 76 mm

Effective protection for indoor and outdoor areas, warehouses and production halls. To secure work areas and traffic lanes, protect machines, columns and racks. Hot-dip galvanized, powder-coated yellow, with black warning stripes.

For casting in concrete with ground anchor



For plugging down with base plate 100 x 150 mm



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

## Anti-nudge hoop removable



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

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

flexible  
tiltable



## Anti-nudge hoop flexible, tiltable

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

## Steel tube Ø 76 mm

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

## Anti-nudge hoop 90°

isosceles

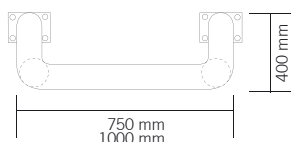


| Total width<br>in mm | Height above<br>ground in mm | approx.<br>kg | for casting in concrete<br>Part-No. | for plugging down<br>Part-No. |
|----------------------|------------------------------|---------------|-------------------------------------|-------------------------------|
| 350           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



## Anti-nudge hoop

Double hoop, total depth 400 mm

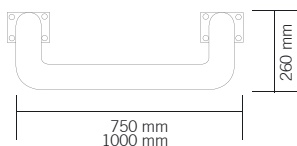


| Total width<br>in mm | Total depth<br>in mm | Above ground<br>in mm | approx.<br>kg | for casting in concrete<br>Part-No. | for plugging down<br>Part-No. |
|----------------------|----------------------|-----------------------|---------------|-------------------------------------|-------------------------------|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



## Anti-nudge hoop

Double-sided, deep version approx. 260 mm

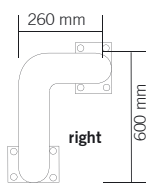


| Total width<br>in mm | Total depth<br>in mm | Above ground<br>in mm | approx.<br>kg | for casting in concrete<br>Part-No. | for plugging down<br>Part-No. |
|----------------------|----------------------|-----------------------|---------------|-------------------------------------|-------------------------------|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



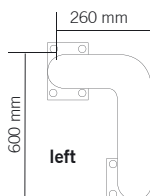
## One-sided, deep

One-sided, deep version approx. 260 mm



one-sided, right

| Total width<br>in mm | Total depth<br>in mm | Above ground<br>in mm | approx.<br>kg | for casting in concrete<br>Part-No. | for plugging down<br>Part-No. |
|----------------------|----------------------|-----------------------|---------------|-------------------------------------|-------------------------------|
| 600                  | 260                  | 650                   | 10.5          | 477.76BG                            | 477.76PBG                     |
| 600                  | 260                  | 1150                  | 15.0          | 477.77BG                            | 477.77PBG                     |



one-sided, left

| Total width<br>in mm | Total depth<br>in mm | Above ground<br>in mm | approx.<br>kg | for casting in concrete<br>Part-No. | for plugging down<br>Part-No. |
|----------------------|----------------------|-----------------------|---------------|-------------------------------------|-------------------------------|
| 600                  | 260                  | 650                   | 10.5          | 477.78BG                            | 477.78PBG                     |
| 600                  | 260                  | 1150                  | 15.0          | 477.79BG                            | 477.79PBG                     |



### Crash guard with underrun guard

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



#### for plugging down

with base plate 100 x 150 mm

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

### Anti-nudge bar

**Round steel tube Ø 76 mm**, for plugging down

with chamfered ends,  
base plates 200 x 50 x 10 mm  
powder-coated yellow with black stripes,  
stops and protects



| Total width | Height above ground | approx.kg | Part-No. |
|-------------|---------------------|-----------|----------|
| 400 mm      | 86 mm               | 4.5       | 477.40BG |
| 800 mm      | 86 mm               | 6.5       | 477.41BG |
| 1000 mm     | 86 mm               | 7.5       | 477.42BG |
| 1200 mm     | 86 mm               | 9.5       | 477.43BG |



### Anti-nudge hoop

**Round steel tube Ø 60 mm**, for plugging down

base plates 100 x 150 mm,  
powder-coated yellow with black stripes



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

### Safety kerb

**Steel angle 100 x 150 x 10 mm**, for plugging down,  
with 45° miter, yellow powder-coated  
Crash guard for fork trucks, platform floor trucks, etc.

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





To protect shelf and rack back-up frames. The new crash guard can be tilted 15°. This compensates impacts from fork trucks or other vehicles without damage or being torn out of the floor in which it is anchored (up to 400Nm pressure).

## Crash guard angle

acc. to BGR234

for individual use

(warehouse equipment, rack or shelf supports, etc.)



Flexible, tiltable

Compensates impacts from fork lift trucks.  
No tearing of anchor bolts out of the floor.

## Crash guard, flexible

Steel plate 5 mm thick, yellow  
Powder-coated with black  
stripes, for plugging down,  
height 400 mm  
leg length 160 mm  
tilting angle 15°

approx.kg Part-No.

6.0 477.89B



## Crash guard angle

Steel plate 5 mm thick,  
powder-coated yellow with black stripes  
(loose supply), for plugging down,  
leg length 160 mm

approx.kg

Part-No.

Angle, height 200 mm  
Angle, height 400 mm  
Angle, height 800 mm  
Angle, height 1200 mm

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

Angle, height 400 mm  
Angle, height 800 mm  
Angle, height 1200 mm

6.0 477.90B  
11.0 477.96B  
17.0 477.97B



## Crash guard U-shape

with reinforced edges

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

height 400 mm

11.5 477.91B





Safety handles

Steel tube Ø 48 mm,  
for openings in walls and staircase areas

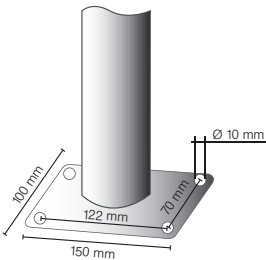


U-shape hoop

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

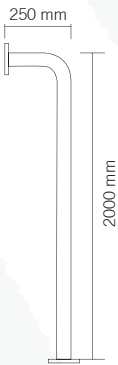


| Height  | Depth  | approx.kg | Part-No. |
|---------|--------|-----------|----------|
| 2000 mm | 250 mm | 7.5       | 477.80BG |

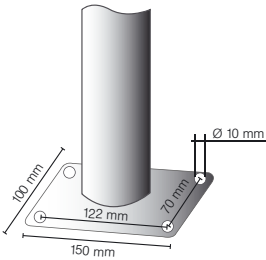


L-shape hoop

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



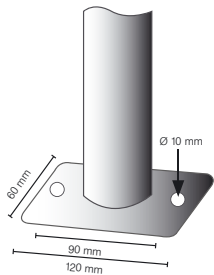
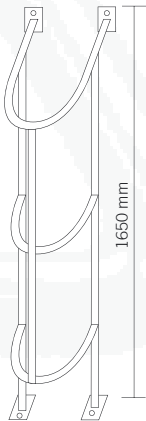
| Height  | Depth  | approx.kg | Part-No. |
|---------|--------|-----------|----------|
| 2000 mm | 250 mm | 7.0       | 477.81BG |



Downpipe guard  
Steel tube Ø 33,7 mm

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

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



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

## Protective hoop with quarter-bent bar

Round steel tube Ø 48 x 2.5 mm

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



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

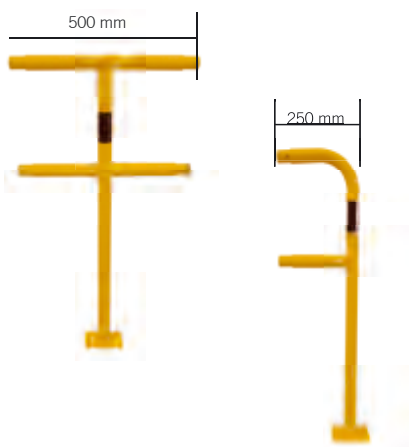
Railing system for universal use, e.g., as internal protective railing to separate traffic aisles or protect terminal boxes, distribution panels, machines, etc. Assembly is very easy: plug together, plug, that's it!



## Protective railing

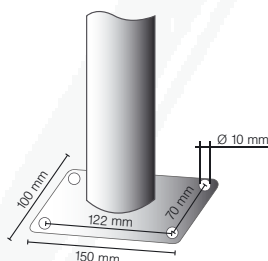
Steel tube Ø 48 mm

variable connection, for plugging down base plate  
100 x 150 mm, height 1000 mm, hot-dip galvanized,  
powder-coated yellow with black warning stripes



End post  
Middle post  
Corner post

| approx.kg | Part-No.   |
|-----------|------------|
| 3.5       | 448.80PBG  |
| 4.0       | 448.81PBG  |
| 4.0       | 448.815PBG |



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





Anti-nudge railing as safety railing for work ways in front of machines, robots, racks, etc. The railing system is available for plugging with or without base plate, removable and tiltable up to 30°.

## Protective railing for plugging down

Steel tube 70 x 70 mm with top and knee bars of steel tube 60 x 40 mm, height approx. 1000 mm bolted



### Fixed post for plugging down

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

hot-dip galvanized coated yellow  
with three black stripes  
approx.kg Part-No.

End post for top and knee bar 6.5 4270PBG  
Middle post for top and knee bar 7.0 4271PBG  
Corner post for top and knee bar 90° 7.0 4273PBG

### Cross bar

Steel tube 60 x 40 mm  
including fastening bolts

**Tube length grid site**

|         |         |     |        |
|---------|---------|-----|--------|
| 800 mm  | 1000 mm | 3.0 | 4208BG |
| 1300 mm | 1500 mm | 5.0 | 4213BG |
| 1800 mm | 2000 mm | 7.0 | 4218BG |
| 2300 mm | 2500 mm | 8.5 | 4223BG |



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

### Fixed post removable

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

|                                      |      |          |
|--------------------------------------|------|----------|
| End post for top and knee bar        | 9.5  | 4270APBG |
| Middle post for top and knee bar     | 10.0 | 4271APBG |
| Corner post for top and knee bar 90° | 10.0 | 4273APBG |

### Fixed post flexible

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

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

### Cover Ø 200 mm, yellow coated

for protective railing fixed post, flexible

4275BG

removable

flexible,  
tiltable



Set of fastening bolts, see page 173.



Movable chain post as temporary barrier, with high stability for quick change of site, can be used outdoors or indoors. Post easy to separate from foot. Simple installation and space-saving storage.



460KBS

### Chain post, heavy

of 60 mm round tube with welded steel cap and eyelets for attaching the chain, 900 mm above ground, hot-dip galvanized and yellow coated with three black stripes, with foot plate of recycled material 400 x 400 x 100 mm

approx.kg Part-No.

yellow / black

15.0 460KBS



4040KBS

### Plastic chain post

Light-weight chain post of plastic material for quick barrier installation, including triangular plastic foot, side length 300 mm, filled with concrete. Plastic tube Ø 40 mm height 950 mm, with 4 chain holder integrated in the cap

yellow / black

3.0 4040KBS



4041KBS

### Plastic chain post

With foot Ø 300 mm filled by customer Plastic tube Ø 40 mm height 950 mm, with 4 chain holders integrated in the cap

yellow / black

2.0 4041KBS



For outdoors or indoors

### Chain post set

Version: 6 plastic posts Ø 40 mm, with 4 chain holders integrated in the cap, 10 m plastic chain, 10 connecting links with concrete filled triangular plastic foot, side length 300 mm

yellow / black

20.0 4040KBSSET

### Chain post set

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

yellow / black

14.0 4041KBSSET



Also available in red / white; see page 145.

**Barrier chain of steel, unwelded**

Wire thickness 7 mm, packing unit 10 m



hot-dip galvanized  
galvanized and yellow / black coated

| approx.kg/m | Part-No. |
|-------------|----------|
| 0.9         | 430.10   |
| 0.9         | 430.20B  |

**S hook**

galvanized  
galvanized and yellow coated  
galvanized and black coated

|          |
|----------|
| 430.11   |
| 430.11BG |
| 430.11BS |

**Connection link**

galvanized  
galvanized and yellow coated  
galvanized and black coated

|          |
|----------|
| 430.09   |
| 430.09BG |
| 430.09BS |

**Shackle**

galvanized  
galvanized and yellow coated  
galvanized and black coated

|          |
|----------|
| 430.12   |
| 430.12BG |
| 430.12BS |

**Plastic barrier chain**

6 mm thick, packing unit 25 m



yellow / black

| approx.kg/Unit | Part-No. |
|----------------|----------|
| 2.0            | 430.06   |

**Plastic connection link**

yellow, 6 mm thick  
black, 6 mm thick

|         |
|---------|
| 430.07G |
| 430.07S |

**Plastic hook link**

yellow, 6 mm thick  
black, 6 mm thick

|         |
|---------|
| 430.08G |
| 430.08S |

**Plastic barrier chain**

8 mm thick, packing unit 25 m



yellow / black

| approx.kg/Unit | Part-No. |
|----------------|----------|
| 2.5            | 430.30   |

**Plastic connection link**

yellow, 8 mm thick  
black, 8 mm thick

|         |
|---------|
| 430.16G |
| 430.16S |

**Plastic hook link**

yellow, 8 mm thick  
black, 8 mm thick

|         |
|---------|
| 430.17G |
| 430.17S |



Other chains and accessories, see pages 170-171.





### Warning and protection profiles

|                         |  |
|-------------------------|--|
| Profile body:           | Recycling-grade polyurethane foam, without CFC                                 |
| Surface:                | Firmly foamed, PU film dyed by counter pressure, no external paint application |
| Adhesive:               | Acrylate adhesive, adhesive force: 21 N/25 mm                                  |
| Temperature resistance: | from -40°C to +100°C for indoor and outdoor use                                |
| Fire test:              | DIN 4102 B2  |

All profiles delivered with strong adhesive tape (except type B).

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

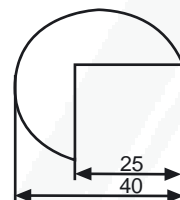
### Warning and protection profiles yellow / black – 1000 mm / 5000 mm

| Article  | Part-No.<br>1000 mm | Part-No.<br>5000 mm |
|----------|---------------------|---------------------|
| Type A   | 4110                | 4510                |
| Type B   | 4111                | 4511                |
| Type C   | 4112                | 4512                |
| Type D   | 4113                | 4513                |
| Type E   | 4115                | 4515                |
| Type F   | 4116                | 4516                |
| Type G   | 4119                | 4519                |
| Type H   | 4120                | 4520                |
| Type R30 | 4117                | 4517                |
| Type R50 | 4114                | 4514                |

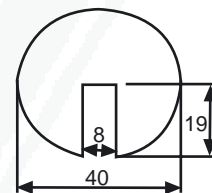
### Corner protections for black warning and protection profiles

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

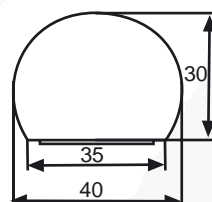
Corner protection type A



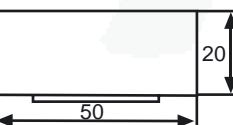
Edge protection type B



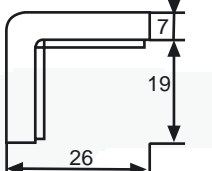
Area protection type C



Area protection type D



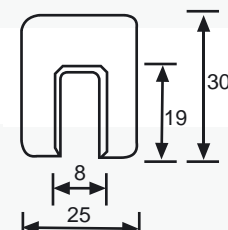
Corner protection type E



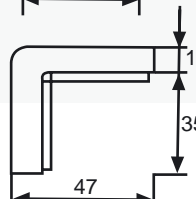
Area protection type F



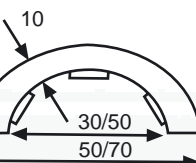
Edge protection type G



Corner protection type H



Tube protection type R30  
Internal size 30 mm





Barrier posts

Stainless steel

Barrier elements

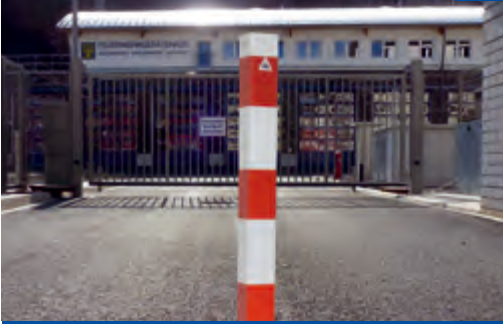
Barrier poles

Outdoor equipment

Works protection



Barrier posts



Stainless steel



Barrier elements



Barrier poles



Outdoor equipment



Works protection







Barrier posts



Stainless steel



Barrier elements



Barrier poles



Outdoor equipment



Works protection



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Prometna signalizacija  
izdelki za gradbeništvo, skladiščenje  
komunalna oprema  
oprema za varstvo pri delu

**Matjaž Pribošič**