



Main catalog  
**SECURITY & MARKING 2025**



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## Mirror

Safety and overview in every situation

Our comprehensive selection of mirrors offers optimal solutions for a wide range of applications. Whether in traffic, in industry, or for observation – you will find high-quality mirrors with us that improve safety and visibility. Also discover our special mounting accessories to install mirrors securely and permanently.

### Traffic mirror 7

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- Mirror surface made of SEKURIT safety glass
- 10 years warranty
- High optical quality
- Impact and shock resistant
- UV and weather resistant

Diamond 1+2



## DIAMOND traffic mirror

The DIAMOND with its brilliant reflection is so unusually robust and durable that you receive a functional warranty of ten years on every mirror!

It is used where high demands are placed on the optical quality of the reflection: traffic regulation, traffic safety, monitoring of production processes.

Evenly curved mirror surface. The mirror is impact and shock resistant due to the SEKURIT safety glass – and

provides protection against injuries (in case of breakage or chipping).

Weather and UV resistant, white plastic frame. Red areas are reflective.

The mount allows the mirror to be attached in any position. The clamp has a diameter of 76 mm (clamp for 108 mm or band clamp adapter available for an additional charge).

Additionally equipable with electric heating (see table).



Diamond 3



DIAMOND	Image size (mm)	Distance (m)	Shipping weight kg/pc.	Article	€/pc.
1	400 x 600	6	10	240.15.611	
2	600 x 800	12	15	240.19.897	
3	800 x 1.000	18	25	240.17.387	
with heating 1/15 W	400 x 600	6	11	240.15.372	
with heating 2/30 W	600 x 800	12	17	240.16.854	
with heating 3/45 W	800 x 1.000	18	28	240.17.948	
Thermostat splash-proof			1	245.12.536	
Adapter for band clamp mounting			4	245.11.059	
Bracket for pipe diameter 108 mm for DIAMOND 1 + 2			5	245.17.933	
Bracket for pipe diameter 108 mm for DIAMOND 3			5	245.11.151	



Traffic mirror



- Made of durable stainless steel •
- Extremely robust and durable •
- Very temperature resistant •
- Low risk of fogging •
- Resistant to chemicals •
- Edge red-white reflective •
- 25 years functional warranty



DURABEL PRO  
Traffic mirror

The Durabel PRO model offers maximum durability and top optical quality. The mirror surface made of high-quality stainless steel guarantees a clear, distortion-free image reproduction. In combination with the stable aluminum frame, the mirror is optimally protected against weather influences.

The red-white reflective stripes increase the visibility of the mirror and thus actively contribute to traffic safety.

Especially suitable in cases of high air pollution, aggressive splashing water, or risk of vandalism.

Due to the years of service life without loss of brilliance, the DURABEL PRO is an extremely economical investment.

Universal clamp for posts 60-90 mm. Optionally, fastening with band clamps is possible. No adapter necessary.

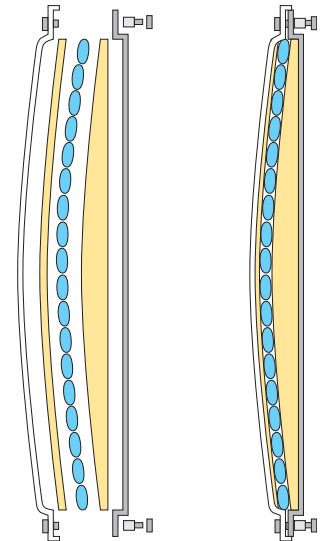


DURABEL PRO	Image size (mm)	Distance (m)	Shipping weight kg/pc.	Article	€/St.
PRO 1	450 x 600	4	10	242.12.680	
PRO 2	600 x 800	10	15	242.11.505	
PRO 3	800 x 1.000	15	22	242.10.092	





- Fog and ice-free • Clear visibility even at below -20°C • No power supply required • Made of durable stainless steel • Edge red-white reflective • 25 years functional warranty



## DURABEL IceFree PRO Traffic mirror

The DURABEL IceFree PRO combines the proven mirror front of the DURABEL stainless steel mirror with a new, thermoactive gel. This regulates the temperature of the mirror surface depending on the outside temperature. This prevents fogging and icing.

Robust and unbreakable. Particularly suitable for places without a power source or with changeable weather conditions.

The back wall made of stable aluminum protects the patented thermal layers. Red-white reflective eye-catching edge.

Universal clamp for posts 60-90 mm. Optionally, fastening with band clamps possible. No adapter necessary.



### PRO 1 NEW in the range

DURABEL IceFree PRO	Image size (mm)	Distance (m)	Shipping weight kg/pc.	Article	€/piece
PRO 1	450 x 600	4	19	242.17.6396	
PRO 2	600 x 800	10	25	242.14.389	
PRO 3	800 x 1.000	15	36	242.15.533	



# Traffic mirror

## DURABEL ECO traffic mirror



The Durabel ECO combines a brilliant mirror image with a high-quality plastic frame and offers an excellent price-performance ratio.

The robust construction made of shatterproof stainless steel mirror surface and a shock and scratch-resistant frame made of ABS and PMMA makes this mirror particularly durable.

This mirror is primarily used in heavily used outdoor areas.

Universal clamp for posts 60-90 mm. Optional mounting with band clamp possible. No adapter necessary.



- Mirror surface made of stainless steel • Good image reproduction • Cost-effective • Long-term UV-stable and robust • Rectangular and round design • 15 years functional warranty



### Note:

Combines the durability of stainless steel with the advantages of plastic.

## DURABEL IceFree ECO traffic mirror



Fog and ice-free traffic mirror with a mirror cover made of stainless steel. White, weather-resistant plastic frame with red reflective stripes.

Especially suitable for places without a power source or with changeable weather conditions.

The DURABEL IceFree ECO complements the DURABEL ECO with the proven thermoactive gel pad. This regulates the temperature of the mirror surface depending on the outside temperature. This prevents fogging and icing. The result is a cost-effective, fog-free mirror.



- Fog and ice-free • Clear visibility even at below -20 °C • No power supply required • Mirror edge made of durable stainless steel • 15 years warranty

Universal clamp for posts 60-90 mm and integrated band clamp fastening (No adapter needed anymore.)



### ECO 800 NEW in the range

DURABEL ECO	Image size (mm)	Distance (m)	Shipping weight kg/pc.	Article	€/piece
ECO 1	450 x 600	6	7.9	242.20.223	
ECO 2	600 x 800	10	11.1	242.26.946	
ECO 3	800 x 1,000	15	12.9	242.20.654	
ECO 600	600 Ø	6	9.2	242.22.647	
ECO 800	800 Ø	10	19.5	242.17.6397	

DURABEL IceFree ECO	Image size (mm)	Distance (m)	Shipping weight kg/pc.	Article	€/St.
1	450 x 600	6	15	242.24.151	
2	600 x 800	10	23.5	242.27.488	
3	800 x 1,000	15	34	242.25.771	
600	600 Ø	6	15	242.20.096	
800	800 Ø	10	23.5	242.28.986	



## DURABEL BASIC Traffic Mirror



The shiny mirror surface made of stainless steel provides a clear, distortion-free image reproduction. The stable frame made of galvanized steel and the direct application of the reflective strips on the mirror lens ensure a functional, simple design – ideal for cost-conscious use.

An additional rubber lip protects the mirror lens and frame from weather influences and increases resilience.

Thanks to the swivel and tilt mount for 76 mm pipe posts, the mirror can be adjusted flexibly.

- Mirror surface made of stainless steel
- Good image reproduction
- Cost-effective
- Durable and robust
- 5 years functional warranty



### Note:

Perfect for demanding areas where a solid, cost-effective mirror is needed.



## DURABEL IceFree BASIC Traffic Mirror



This version combines the cost-conscious Durabel Basic quality mirror with the proven IceFree technology. This keeps the mirror surface clear and fully functional even in fog and icing conditions.

Ideal for locations that require a cost-effective yet reliable solution for all weather conditions.

Thanks to the swivel and tilt mount for 76 mm pipe posts, the mirror can be adjusted flexibly.

- Free from fittings and icing
- Mirror surface made of stainless steel
- Good image reproduction
- Cost-effective
- Durable and robust
- 5 years functional warranty



DURABEL BASIC	Image size (mm)	Distance (m)	Shipping weight kg/pc.	Article	€/piece
BASIC 1	450 x 600	6	9.5	242.17.6348	
BASIC 2	600 x 800	10	13	242.17.6349	
BASIC 3	800 x 1.000	15	20.5	242.17.6350	

DURABEL IceFree BASIC	Image size (mm)	Distance (m)	Shipping weight kg/pc.	Article	€/pc.
BASIC 1	450 x 600	6	12	242.17.6351	
BASIC 2	600 x 800	10	20	242.17.6352	
BASIC 3	800 x 1,000	15	32	242.17.6395	



# Traffic mirror

## EUCRYL® traffic mirror



Traffic mirror for outdoor and indoor use. Mirror image made of acrylic glass of high optical quality.

The mirror surface is strongly curved – thus providing a large observation angle.

The lightweight mirror is delivered ready for installation.

The UV-stable plastic frame is corrosion-free and weather resistant. The red areas of the attention-grabbing edge reflect.

The integrated mounting for pipe posts with a diameter of 60 to 76 mm allows for the mirror to be mounted in any position.

Rectangular and round designs available.

For large observation distances also in 1,000 x 1,200 mm.



- Mirror surface made of acrylic glass
- High optical quality
- Installation-friendly
- Low weight
- UV and weather resistant
- Also available in 1,000 x 1,200 mm



## EUCRYL® ECO traffic mirror



High-quality, impact-resistant traffic mirror made of acrylic glass for outdoor and indoor use. The uniformly curved mirror surface provides good image reproduction.

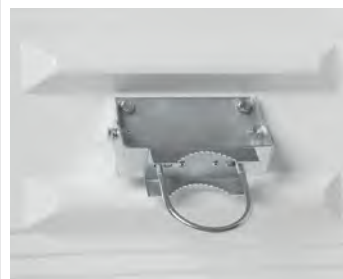
Cost-optimized through a frameless design with red reflective film on the mirror surface.

The EUCRYL ECO is delivered ready for installation and can be mounted by one person due to its low weight.

The integrated bracket for pipe posts from 60 to 76 mm Ø allows for the attachment of the mirror in any position.



- Mirror surface made of acrylic glass
- Easy to install
- Lightweight
- Economical



EUCRYL	Image size (mm)	Distance (m)	Shipping weight kg/pc.	Article	€/piece
1	400 x 600	5	5	243.10.847	
2	600 x 800	10	7	243.12.742	
3	800 x 1,000	15	8	243.10.178	
4	1,000 x 1,200	22	11	243.25.569	
600	600 Ø	4	5	243.10.158	
800	800 Ø	8	7	243.12.563	

EUCRYL ECO	Mirror size (mm)	Distance (m)	Shipping weight kg/pc.	Article	€/piece
1	400 x 600	5	4.8	243.25.564	
2	600 x 800	10	6.3	243.21.307	
3	800 x 1,000	15	7.5	243.26.714	





- For indoor and protected outdoor areas
- Good optical quality
- Yellow-black frame according to ASR A1.3
- Rectangular and round design
- Low weight

## EUCRYL® industry mirror

For indoor and protected outdoor areas. Ideal for production sites, warehouses, for monitoring manufacturing processes, personnel and forklift traffic.

The uniform curvature allowed for very good image reproduction.

Impact-resistant acrylic glass mirror in good optical quality. Corrosion-free. The lightweight mirror is delivered ready for installation. Yellow plastic frame with black warning stripes in accordance with ASR A1.3 (DIN 4844).

The integrated holder for pipe posts with a diameter of 60 and 76 mm allows for the attachment of the mirror in any position.

Short wall arm for mounting on vertical surfaces. The mirror can thus be mounted in both landscape and portrait formats.

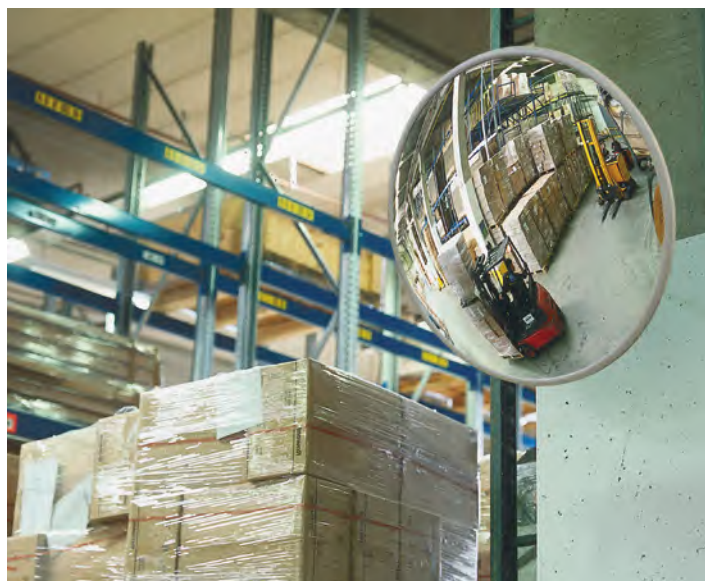


EUCRYL	Image size (mm)	Distance (m)	Shipping weight kg/pc.	Article	€/pc.
G 1	400 x 600	5	4	253.15.681	
G 2	600 x 800	10	6	253.16.706	
G 3	800 x 1,000	15	7	253.18.463	
G 600	600 Ø	4	4	253.17.516	
G 800	800 Ø	8	6	253.14.690	
Wall arm (H x T x B) 190 x 270 x 76 mm			2	253.19.463	



# Industry mirror/observation mirror

## SPION industry mirror



Acrylic glass mirror for indoor and protected outdoor areas.

Ideal for observing access areas and internal processes (machine control, traffic routes).

Light. Extremely impact-resistant.

Excellent optical properties. Wide-angle effect for short observer distance.

### Mounting:

- Round mirror with mounting for wall installation

More information about the product:



- For indoor and protected outdoor areas
- Very good image reproduction
- Easy to mount and adjust
- Low weight



## HORIZONT three-way mirror



Compact 180° wide-angle mirror for three-way intersections.

Made of robust, impact-resistant acrylic glass for indoors and outdoors. With high optical quality. UV and weather resistant.

The HORIZONT is ideal when it gets "tight" and the observer is not far from the mirror.

At three-way intersections, a single HORIZONT replaces two conventional mirrors.

The lightweight mirror is delivered ready for installation.

The integrated bracket for pipe posts with 60 and 76 mm Ø allows for the attachment of the mirror in any position.

Can also be mounted upright (90° viewing angle) in conjunction with a wall arm.



- 180° viewing angle (three-way mirror)
- High optical quality
- UV and weather resistant
- Low weight



Spy	Mirror size (mm)	Distance (m)	Shipping weight kg/St.	Article	€/pc.
Round mirror with wall arm 250 mm	300 Ø	2	2	247.17.989	
	400 Ø	3	3	247.13.962	
	500 Ø	5	4	247.14.455	
	600 Ø	7	5	247.19.332	
	700 Ø	9	6	247.18.522	
	800 Ø	11	7	247.18.504	
Extended wall arm 550 mm			1	255.10.700	

Mirror size (mm) (W x H x D)	Distance (m)	Shipping weight kg/pc.	Article	€/St.
750 x 400 x 160	5	5	246.14.036	
850 x 420 x 190	7	7	246.17.210	
Wall arm (H x D x W) 190 x 270 x 76 mm		2	253.19.463	



## DETECTIVE observation mirror



Observation and control mirror made of acrylic glass for indoor use.

Prevents accidents; prevents theft. Proven for many years in retail, in sales areas, production and storage halls, public institutions.

Lightweight. No risk of injury. Extremely impact-resistant. Excellent optical properties. Strong wide-angle effect: Recommended for short observer distances and medium to large fields of view. Mounting on flat surfaces.



- For indoors
- Strong wide-angle effect
- Lightweight
- Angle adjustable
- With wall mounting bracket

(e.g. walls, supports, beams) using the included bracket with a wall distance of approximately 250 mm.

Option: extended wall arm approximately 550 mm



Mirror size (mm) Ø	Distance (m)	Shipping weight kg/piece	Article	€/piece
300	2	1.7	251.13.487	
400	3	2	251.17.667	
500	5	2.5	251.18.945	
600	7	3	251.15.534	
700	9	5	251.16.210	
800	11	6	251.13.505	
Extended wall arm 550 mm		1	255.10.700	

## DETECTIVE ECO observation mirror



Cost-effective, lightweight round mirror made of acrylic glass with excellent optical properties. Mirror frame and bracket in black. Discreetly blends into the surroundings.

Especially suitable for sales areas, entrance areas, and public facilities.

Strong wide-angle effect, ideal for short observation distances and medium to large fields of view.



- For indoors
- Extremely lightweight
- Four sizes
- With holder and fastening material

With goose neck holder for attachment to flat surfaces. Wall distance approximately 300 mm. Viewing angle individually adjustable.



Mirror size (mm) Ø	Distance (m)	Shipping weight kg/pc.	Article	€/piece
300	2	0.8	251.22.409	
400	3	1.1	251.24.236	
500	5	1.5	251.27.851	
600	7	2	251.21.156	



# Observation mirror

## DETECTIVE with magnetic holder



Round mirror made of acrylic glass, with a strong adhesive magnetic base in an aesthetically pleasing chrome frame.

Mirror housing made of ABS plastic. Usable for indoor and protected outdoor areas.

Light. No risk of injury. Extremely impact-resistant.

Excellent optical properties. Strong wide-angle effect: Recommended for short observer distance and medium to large field of view.



- For indoors
- Made of acrylic glass
- With magnetic base
- Large observation field
- Excellent image quality

For mounting on flat, straight steel surfaces. Gooseneck mount with a wall distance of 200 mm – for individually adjustable viewing angle.



Mirror size (mm) Ø	Distance (m)	Shipping weight kg/pc.	Article	€/piece
300	3	2.5	252.25.675	
450	5	3	252.29.230	
600	7	4	252.28.369	

## INDOOR room mirror



Compact interior mirror made of acrylic glass with black border. Low, space-saving design.

Wide field of view. Optically excellent, distortion-free image reproduction. Easy wall mounting. Black edge trim with pre-drilled mounting holes.

### Two versions:

- Oval for short observer distances (e.g. in entrance halls, reception areas, sales rooms, workshops)



- Extremely large field of view
- Compact
- Brilliant image
- For office and operation

- Round for larger observer distances (e.g. storage halls, production lines, parking garages)



Mirror size (mm) W x H x D	Distance (m)	Shipping weight kg/pc.	Article	€/pc.
360 x 260 x 75	3	1	252.20.171	
520 x 320 x 85	5	2	252.20.458	
450 Ø x 100	4	1.5	252.20.842	
600 Ø x 130	6	2	252.26.285	
800 Ø x 180	9	3	252.20.017	



## INDOOR stainless steel



Round, unbreakable anti-vandalism mirror made of high-quality, stainless steel. For indoor and outdoor use.

Especially suitable for subways, train stations, underpasses, correctional facilities, psychiatric institutions.

Recommendation: Mounting with tamper-proof Torx security screws (Torx with pin).



- Made of stainless steel
- Anti-vandalism
- Extremely large field of observation
- Brilliant image



Mirror size (mm) Ø x T	Distance (m)	Shipping weight kg/pc.	Article	€/pc.
500 x 80	6	3	252.21.125	
Torx screws 6.5 x 45 mm		0.2	245.27.882	

## MORION justice mirror



Unbreakable anti-vandalism mirror made of high-quality, stainless steel.

Designed for areas with a high risk of willful destruction (vandalism): correctional facilities, police and military stations, clinics, psychiatric hospitals.

Provides increased safety for staff, inmates, and patients.

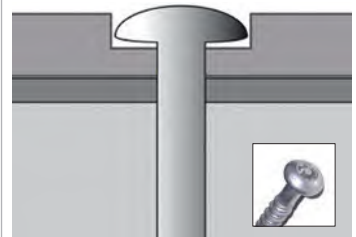
The stainless steel mirror is framed in a coated steel frame. The recessed drill holes accommodate screw heads, so there are no surfaces for manipulation. Fastening with Torx security screws (Torx with pin – 7 pieces per mirror).



- Made of stainless steel
- Anti-vandalism
- For security areas
- Brilliant image



Mirror size (mm) W x H	Distance (m)	Shipping weight kg/piece	Article	€/St.
250 x 250	4	3.5	258.25.964	
500 x 250	5	5.5	258.27.080	
Torx screws 6.5 x 45 mm		0.2	245.27.882	





Observation mirror



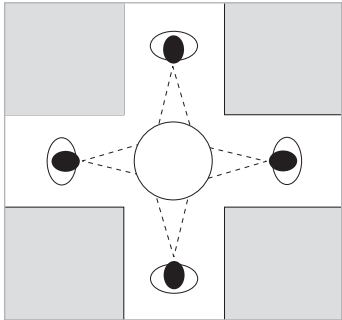
- i**
  - For indoors
  - Made of acrylic glass
  - Distortion-free 360° panoramic view
  - Ideal for forklift traffic
  - Prevents accidents and thefts
  - Extreme wide-angle effect

PANORAMA-360  
Four-way mirror

Hemispherical safety mirror for indoors made of acrylic glass. The distortion-free 360° panoramic view allows for visibility in all directions.

For production halls, warehouses (accelerates traffic flow), sales areas (theft protection), hospitals. Mitigates danger in unclear areas.

Simple installation:  
Screw directly onto flat surfaces (e.g. ceilings, beams, underbeams). Or attach freely hanging with installation set (chain link, 4 m length).



Mirror size (mm) Ø x T	Distance (m)	Shipping weight kg/pc.	Article	€/St.
600 x 250	3	5.5	250.15.138	
800 x 300	4	7	250.17.220	
900 x 340	5	9	250.10.202	
1.000 x 380	6	11	250.18.256	
1.250 x 420	8	32	250.13.084	
Assembly set (chain length 4 m), for hanging installation		0.7	255.10.618	



## PANORAMA-180 Three-Way Mirror



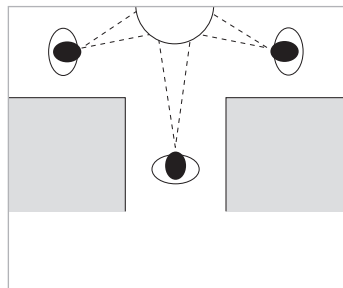
The super wide-angle mirror provides an overview in critical areas: narrow corridors, "blind spots" in industry, administration, hospitals, retail.

The PANORAMA-180 is a three-way mirror for securing narrow internal T-junctions. Mounted directly at the intersection, the PANORAMA-180 secures it optimally from all sides.

Especially flat design for minimal space requirements.

Wall mounting with standard screws.

- For indoors
- Made of acrylic glass
- Viewing angle 180°
- Low space requirement



Mirror size (mm) W x H x D	Distance (m)	Shipping weight kg/pc.	Article	€/St.
600 x 320 x 240	5	3	256.17.911	
800 x 410 x 330	6	3.5	256.14.205	
900 x 450 x 250	7	4	256.16.959	
1,000 x 530 x 400	8	4.5	256.17.882	

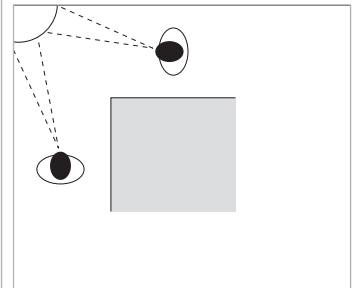
## PANORAMA-90 Two-Way Mirror



The PANORAMA-90 is a two-way mirror for securing bending traffic routes and corridors in industry, sales areas, administration, and hospitals.

Space-saving corner placement. Ceiling mounting with standard screws.

- For indoors
- Made of acrylic glass
- Viewing angle 90°
- Low space requirement



Mirror size (mm) B x H x T	Distance (m)	Shipping weight kg/pc.	Article	€/piece
300 x 300 x 240	3	2	257.17.652	
400 x 400 x 330	4	2.5	257.17.048	
420 x 420 x 360	5	3	257.13.342	
490 x 490 x 400	6	3.5	257.16.835	



# Observation mirror

## VISION roll mirror



Easily and conveniently perform safety checks on vehicle undersides.

Round acrylic glass mirror with a two-part telescopic rod, extendable from 100 to 200 cm. Curved mirror surface with a large observation field. Including protective bag.

Construction height 138 mm. With four wheels for easy movement of the mirror under the vehicle.

Option: Special lamp with a tilt joint for direct illumination of the underside of the vehicle.

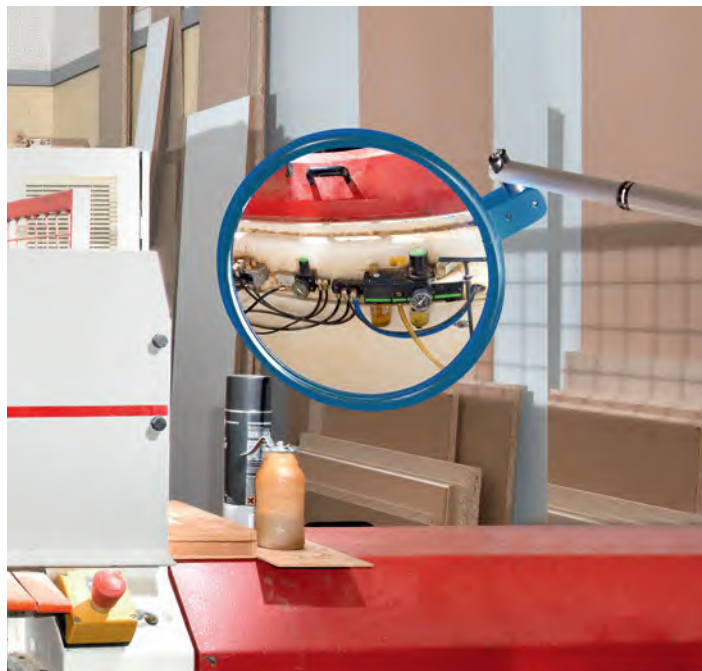


- For vehicle inspection
- Made of acrylic glass
- Large observation field
- Telescopic rod
- Can be equipped with a lamp



Mirror size Ø (mm)	Shipping weight kg/pc.	Article	€/pc.
450	4.5	248.17.593	
Special lamp	0.1	248.14.031	

## VISION hand mirror



Ideal for particularly hard-to-reach areas, universally applicable. Very handy.

Best suited for checking hard-to-see areas in a targeted manner (e.g. production and crafts).

With a two-part telescopic pole, extendable from 100 to 200 cm. Curved mirror surface with a large observation field. Including protective bag.

Option: Special lamp with a tilt joint for direct illumination of the inspection area.



- Made of acrylic glass
- Large observation field
- Telescopic pole
- Can be equipped with a lamp



Mirror size Ø (mm)	Shipping weight kg/pc.	Article	€/pc.
230	2	248.14.221	
Special lamp	0.1	248.14.031	

## Post



For permanently mounting traffic mirrors.

Steel pipe 60/2 mm or 76/2.5 mm, hot-dip galvanized. With plastic cap.

For embedding in concrete (with ground anchor).

## Universal Clamp adapter

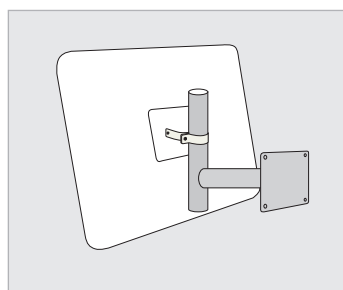


With the universal mount, attachment to posts of various diameters is possible.

### Easy installation:

Mount adapter with hose clamps (provided by the customer) on the post and attach the mirror with 76 clamp to the adapter.

## Wall arm

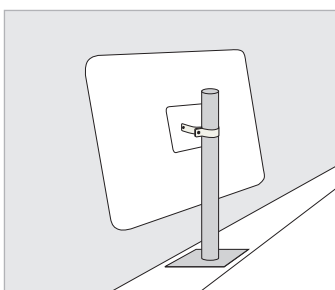


Wall arm for mounting on vertical surfaces.  
Mirror can be mounted in both landscape and portrait formats.

Version: for clamp 76 mm Ø

Mounting plate: 160 x 140 x 10 mm

## Wall/Ceiling post

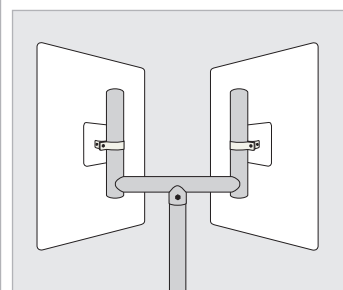


For attachment to horizontal surfaces, e.g. walls, ceilings, etc.

Execution: for clamp 76 mm Ø

Mounting plate: 160 x 140 x 10 mm

## Fork attachment



For the simultaneous attachment of 2 mirrors.

Function: The attachment is screwed onto the end of a 76 mm pipe post through a welded 90 mm pipe piece (also possible with wall arm or wall post).

Execution: for clamp 76 mm Ø

Execution	for mirror size	Dimension (mm)	Installation/ Fastening	Shipping weight kg/pc.	Article	€/pc.
Pipe post 60 mm Ø, 2.0 mm wall thickness hot-dip galvanized	all	3,000	For embedding in concrete	10.5	310.10.164	
		3,500		12	310.10.576	
		4,000		13.5	310.10.166	
Pipe post 76 mm Ø, 2.5 mm wall thickness hot-dip galvanized	all	3.000	For embedding in concrete	15	310.13.098	
		3.500		17	310.11.268	
		4.000		19	310.11.638	
Universal band clamp adapter		300 x 100	–	2.5	245.24.594	
Wall arm	all	400 H x 500 W	On vertical surfaces	6.5	245.10.893	
Wall/Ceiling post	1 and 2	800 H	The horizontal surfaces	6.5	245.10.251	
	3	1,200 H		9	245.12.944	
Fork attachment	1	400 H x 650 B	Two mirrors on a pipe, wall post or wall arm	8.5	245.11.264	
	2 and 3	400 H x 900 B		9.5	245.11.466	



A photograph of a yellow bumper protection railing in an industrial setting. The railing is made of heavy-duty yellow metal beams and is mounted on a concrete floor. In the background, there are white walls, a door with a 'Heizung' (Heating) label, and some industrial equipment. A person is visible in the distance.

## Bumper protection

### HIGHEST PROTECTION FOR TRAFFIC ROUTES AND OPERATIONAL FACILITIES

Our bumper protection solutions, including the successful brand BLACK BULL, provide reliable protection for a variety of applications. From railings, protective grids, and bollards to impact protection, brackets, barriers, as well as column and pipe protection systems – our products optimally secure traffic routes and operational facilities. Our offering is complemented by suitable fastening accessories that ensure maximum stability on various surfaces.

Railings	24
Protective grids	34
Planks	35
Bollards	40
Brackets	42
Impact protection	55
Barriers	63
Column and pipe protection	67
Wall protection brackets	72
Mounting accessories for impact protection	74



## What makes the BLACK BULL impact protection railing so unique?

### The material: steel!

BLACK BULL quality steel stands for safety, as it absorbs enormous forces. If the impact protection system is overloaded, the steel deforms, but the system itself remains intact except for the deformation.

Plastic, on the other hand, stretches or compresses under load. This creates invisible weak points with an increased risk of breakage. BLACK BULL quality steel does not break, does not splinter, and does not become brittle.

#### Environment:

Steel is ecologically harmless, sustainable, and can be returned to the recycling loop in a pure form without elaborate processing.  
Touching the elements does not produce abrasion in the form of microplastics.

### The shaping

Square stand posts and cross beams absorb significantly more force than comparable round tubes. The energy is absorbed over a larger area instead of linearly and is distributed better.

### The innovative technology "Floor Protection"

The patented spring element made of PU acts like a crumple zone due to the pre-loaded force absorption. This protects the floor and prevents pulled-out fastenings.

### The TÜV certification

Tested according to the latest standards and in accordance with the currently valid DGUV 208-061. The tests of the BLACK BULL impact protection systems were carried out according to the strict requirements of TÜV, which also supervises the execution. (Some manufacturers only conduct in-house tests under optimized conditions.)

### The force absorption - variable depending on the situation • Single-stage:

Steel posts firmly anchored = rigid, clear delineation of the area to be protected

#### • Two-stage:

Steel post + spring element = impact protection system SWING

Yielding railing and crumple zone effect: The occurring force is first reduced by the spring element and thus mitigated before being transmitted to the system.

#### • Three-stage:

Steel post + spring element + plastic cross beam = impact protection system hybrid

Double crumple zone effect: The occurring force is first absorbed by the plastic cross beams – up to the maximum deflection. After that, the already reduced force is further mitigated by the spring elements and the remaining energy is transmitted to the system.

The variants of the BLACK BULL impact protection systems (railing and plank) can thus be individually adapted to the situation on site. From hard separation of individual areas to ground-friendly, flexible applications.








BLACK BULL Ram protection railing S-Line



\* Max. power consumption; for details please request the data sheet.

Execution	Stand post 1,000 x 70 x 70 mm		
	Start/End	Middle	Corner
			
Shipping weight kg/pc.	10	10.5	10.5
Plastic coated	194.24.261	194.29.943	194.29.694
Price €/pc.			
Hot-dip galvanized and plastic coated	194.25.033	194.20.894	194.21.831
Price €/pc.			

Robust protective railings made of profile steel for indoor and outdoor use. Clearly separates and cost-effectively manages traffic routes (pedestrian and light forklift traffic), protects work areas, inventory, and buildings.

- Variable system with upright posts and cross beams
- Compact dimensions
- Quick, easy assembly
- Form-fitting: no protruding tabs or screws
- Durable: Many plastics become brittle – steel does not

## Surface treatment:

- For outdoor use: hot-dip galvanized and yellow plastic-coated
- For indoor use: yellow plastic-coated

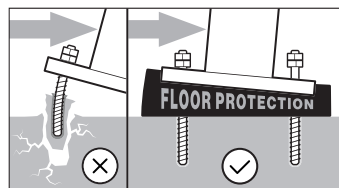
Stand post: 3 mm wall thickness, black cap  
Base plate: 140 x 160 x 10 mm  
Cross beam: 60 x 40 mm, 3 mm wall thickness



## Note:

Practical adapter for seamless installation directly on the wall

Mounting: for bolting down  
Drilling hole: Ø 14 mm  
underbody protection angle made of steel, yellow coated. Prevents the dangerous threading of the forklift forks. Wall thickness 4 mm, height 200 mm.



- For indoors and outdoors
- Robust steel railing
- Customizable based on the object
- Easy installation
- TÜV certified according to DGUV 208-061



## Note:

Also available as a flexible version SWING: Gives up to 10° inclination. Spring element and mounting set see p. 28.





**NEW**




Wand adapter S-Line B x H (mm)	Shipping weight kg/pc.	Article	€/pc.
100 x 140	1.3	194.17.6508	

## Mounting accessories

You need 4 fasteners per post or 4 or 5 fasteners per underride protection angle. You can find suitable material on pages 74/75.

Cross beam (mm) including mounting screws			
1,000	1,200	1,500	2,000
			
			
			
			
5	6	7	9
194.21.266	194.27.076	194.25.352	194.25.650
194.29.126	194.27.265	194.27.828	194.29.847

Dimension (mm) H x T	Underride protection angle (mm), steel			
	880	1.080	1.380	1.880
200 x 100				
Shipping weight kg/pc.	9	11	13.5	17.5
Plastic coated	194.20.522	194.24.463	194.23.061	194.20.550
Price €/pc.				
Number of dowels	4	4	5	5





BLACK BULL Ram Protection Railing XL-  
LineBLACK BULL Railing Post






MADE IN  
GERMANY

More info  
about the  
product:



\* Max. power consumption; for details please request the data sheet.

Execution	Stand Post 500 x 100 x 100 (mm)		
	Start/End	Middle	Corner
			
Shipping weight kg/pc.	10194.1	10, 5194.18. 550	10, 5194.13. 760
Plastic coated	6.094		
Price €/pc.			
Hot-dip galvanized and plastic coated	194.15.765	194.18.142	194.15.032
Price €/pc.			

Extremely robust, massive protective and safety railings made of profile steel for indoor and outdoor use. For the highest loads. Clearly separates traffic routes (forklift/pedestrian traffic), protects work areas, inventory, and buildings.

- Variable system with upright posts and cross beams
- Quick, easy assembly
- Form-fitting: no protruding tabs or screws
- Durable: Many plastics become brittle – steel does not

## Surface treatment:

- For outdoor use: hot-dip galvanized and yellow plastic-coated, option: only hot-dip galvanized

- For indoor use: yellow plastic-coated

Upright posts: 3 mm wall thickness  
Base plate: 200 x 200 x 10 mm

Drilling hole: Ø 14 mm  
Cross beam: 120 x 80 mm,  
3 mm wall thickness

Mounting: for doweling  
Drilling hole: Ø 14 mm

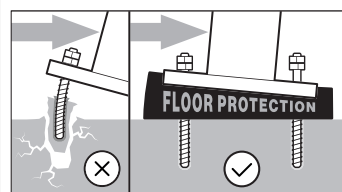


- For indoors and outdoors
  - Extremely robust steel railing
  - Highly load-bearing
  - Object-specific adjustable
  - Fast, easy assembly
- TÜV certified**  
according to DGUV 208-061



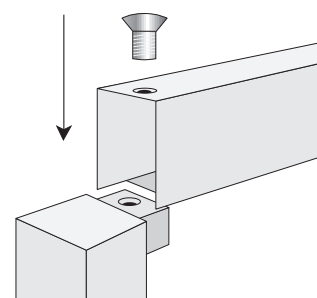
## Note:

Also available as a flexible version SWING: Allows up to 10° inclination. Spring element and mounting set see p. 28.



## Note:

Practical adapter for seamless installation directly on the wall











**NEW**



Wall adapter XL-Line W x H (mm)	Shipping weight kg/piece.	Article	€/pc.
100 x 140	1.5	194.17.6398	

## Mounting accessories

You need 4 fasteners per post or 4 or 5 fasteners per underride protection angle. You can find suitable material on pages 74/75.

Stand post 1,000 x 100 x 100 (mm)			Cross beam (mm) including mounting screws				Bollard (mm)
Start/End	Middle	Corner	1.000	1.200	1.500	2.000	1.000 x 100 x 100
							
17	18	18	9.5			194.15.572	194.15.672
194.14.244	194.17.026	194.18.205				11.5	194.15.942
194.13.501	194.13.894			194.18.997	194.16.172	14	194.14.863



# Railing



- For indoors and outdoors
- Extremely robust steel railing
- Tilts up to 10°
- With spring element
- Customizable based on the object
- TÜV certified according to DGUV 208-061

## BLACK BULL Bumper protection railing SWING



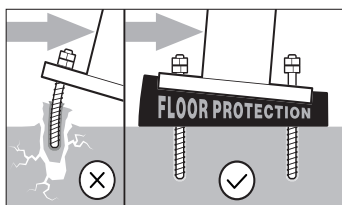
Flexible impact protection railing SWING: The vertical posts of the BLACK BULL impact protection railing are additionally equipped with a polyurethane spring element.

The UV-resistant and permanently elastic PU element absorbs the forces acting on the railing – like a crumple zone.

- Yielding, flexible protective railing
- inclination: maximum 10°
- minimizes approach and repair damage
- Protect the ground



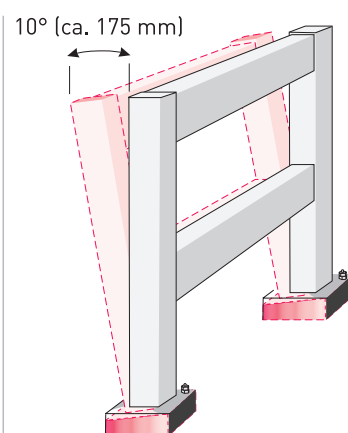
\* Max. power absorption;  
for details please request the data sheet.



Maximum inclination:  
90 mm at a height of 540 mm,  
175 mm at a height of 1,040 mm

You can find the vertical posts and cross beams on pages 26 and 27.

More information  
about the  
product:



Spring element (Only in connection with our impact protection railing)			
Dimensions (mm) H x W x D	Shipping weight kg/pc.	Article	€/pc.
50 x 206 x 206	0.6	422.21.4 56	

Mounting set (for 8 drill holes)			
Dimensions (mm) Ø x L	Shipping weight kg/pc.	Article	€/piece
10/170	2.0	109.20.8 58	

You need 1 mounting set for 2 posts. Suitable material on page 74/75.



- For indoors
- Made of steel
- 90° opening
- With protective cover
- Can be retrofitted



## BLACK BULL Railing Door



MADE IN  
GERMANY

Railing door made of steel with welded protective cover for increased stability, better visibility, and for applying warning signs.

Coordinated with the robust bumper protection railing XL-Line (p. 26/27) and the slimmer railing S-Line

(p. 24/25). The door is identical for both railing systems, only the fastening material is different.

Two mechanisms:

- Manually opened and closed. No special post required – door fits all post variants.

- Self-closing with gas spring. Separate mounting post required (see table). The unique, newly developed fitting technology makes the railing door very versatile in application. Selectable on site:

- Post stop right or left
- 90° opening inwards or outwards



### Note:

All models are additionally available in hot-dip galvanized version upon request.

### Surface treatment:

yellow plastic coated

Door: 835 x 475 mm

Door with fittings: 905 x 520 mm

Frame profile: 60 x 30 mm  
2 mm wall thickness

Protective cover: 250 x 355 mm

### U-shaped steel bolt with plastic handle

The U-bolt effectively prevents unwanted swinging when installed as a double door, providing additional safety and stability.

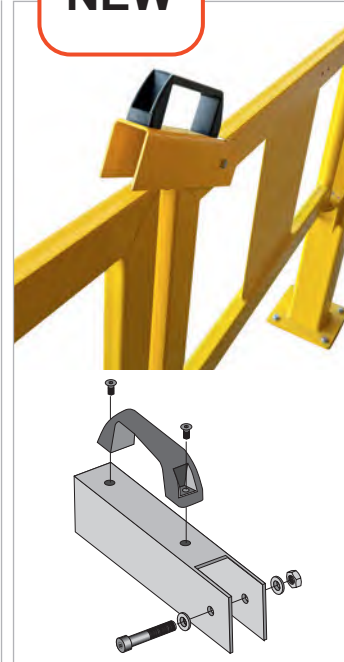
Dimensions: 250 x 60 x 40 mm



### Note:

Suitable for all BLACK BULL railing doors

**NEW**



More info  
about the  
product:



Railing door	Shipping weight kg/pc.	Article	€/pc.
S-Line, manual	12	194.20.653	
XL-Line, manual		194.29.743	
S-Line with gas spring and mounting post	30	194.28.624	
XL-Line with gas spring and mounting post		194.26.359	
U-shaped steel bolt	4.6	194.17.5368	





- Coordinated with the impact protection railings S-Line and XL-Line
- Made of robust steel
- Form-fitting
- Manually closable
- With integrated stoppers
- 1-person assembly, simple and quick



## BLACK BULL sliding door set for impact protection railings S-Line and XL-Line



MADE IN  
GERMANY

The sliding door set is coordinated with the impact protection railings S-Line and XL-Line. It prevents accidents and protects people and work areas.

Even when opening and closing, the driving area remains clear. With high-quality and durable sliding bearings.

Integrated stoppers ensure a quiet closing of the door and prevent fingers from getting caught.

Set consisting of 2 stand posts, 2 cross beams, 1 door insert, screws for fixing the cross beams.

Dimensions:

Height: 1,000 mm

Total width

(Door inserted): 1,680 mm (S-Line)  
1,740 mm (XL-Line) Total width

(Door extended): 2,530 mm (S-Line)  
2,590 mm (XL-Line)

Max. blocking width: 890 mm

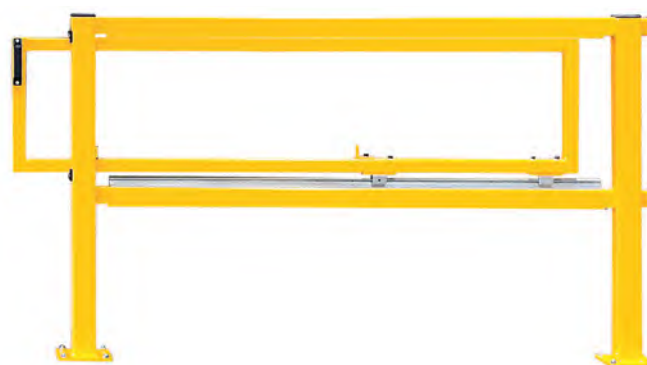
Stand post: Steel, yellow plastic-coated, 3 mm wall thickness, black cap

Base plate: 160 x 140 x 10 mm (S-Line), 200 x 200 x 10 mm (XL-Line)

### Surface treatment:

For indoor use:  
yellow plastic coated (RAL 1023)

Mounting: For  
doweling Drill  
hole: Ø 14 mm



More info  
about the  
product:



Execution	Dimensions (mm) H x W x D	Shipping weight kg/pc.	Article	€/pc.
S-Line	1,000 x 1,680–2,530 x 140	45.4	194.28.783	
XL-Line	1,000 x 1,740–2,590 x 200	66.7	194.29.361	

You need 4 fasteners per post. You can find the appropriate material on pages 74/75.

## BLACK BULL railing door for hybrid railing



Railing door made of steel tailored to the bumper protection railing hybrid (pages 32/33). With protective cover for additional stability, visibility, and for sticking warning signs.

The railing door is attached to a separate mounting post.

Opening/Closing:

- Self-closing with gas spring

Selectable on-site due to the unique fitting technology:

- Post stop right or left
- Opening of 90° inwards or outwards

**Surface treatment:**

yellow plastic coated

**MADE IN GERMANY**

More info about the product:



- For indoors
- Made of steel
- Self-closing or manual
- 90° opening

Door (without fitting): 835 x 475 mm

Door with fitting: 905 x 520 mm

Frame profile: 60 x 30 mm

Protective cover: 250 x 355 mm



## BLACK BULL column protection hybrid



Optimal combination of steel and plastic for the protection of all types of columns.

The firmly anchored stand posts made of quality steel and the yielding cross beams made of special plastic ensure both stable protection and dynamic force absorption when approaching.

**Surface:**

Post: Steel, black coated, yellow cap  
1,000 x 100 x 100 mm

Cross beam: special plastic, yellow dyed 74 x 52 x 5 mm

Suitable for rectangular posts from 200 to 700 mm. The cross beams are 1,000 mm long and can be adjusted on site. Assembly instructions and drilling template included in the delivery.

Other beam dimensions on request.



- Combination of steel and plastic
- Highly loadable
- Suitable for wide columns
- Customizable

**MADE IN GERMANY**



Railing door	Shipping weight kg/pc.	Item	€/pc.
self-closing with gas pressure spring and mounting post	32.5	203.29.398	

You need 1 fastening set. Suitable fastening material on page 74/75.

Column protection hybrid	Shipping weight kg/pc.	Item	€/pc.
Complete set consisting of 4 corner posts and 12 cross beams	79	203.24.011	

You need 16 fasteners. Suitable material on page 74/75.





BLACK BULL Ram Protection Railing  
*Hybrid*



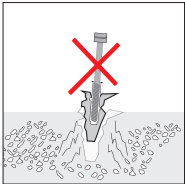
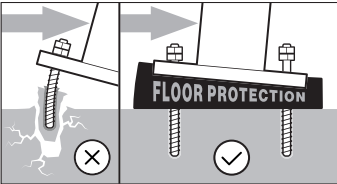
MADE IN  
GERMANY

More info  
about the  
product:



\* Due to the dynamic absorption effect, an exact force measurement can only be determined to a limited extent. For details, please request the data sheet.

Execution	Stand post, steel 1.040 x 100 x 100 (mm)		
	Start/End	Middle	Corner
Shipping weight kg/pc.	14	14	14
Plastic coated	203.29.934	203.20.790	203.22.221
Price €/piece.			
Hot-dip galvanized and plastic-coated	203.22.248	203.28.846	203.20.486
Price €/pc.			

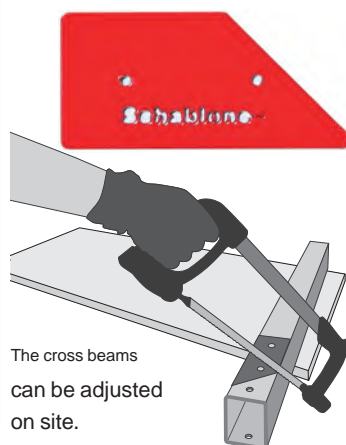




The best of both worlds:  
Combines the advantages  
of steel and plastic.

The vertical posts of most plastic railings require steel plates with welded stubs for stable attachment. In other words: When it "counts", the plastic post uses robust metal elements. On the other hand, with steel railings, the handrail hardly yields under force.

The solution: A hybrid railing that unites steel and plastic. Consisting of yielding vertical posts made of steel and yielding cross beams made of plastic.



The cross beams  
can be adjusted  
on site.

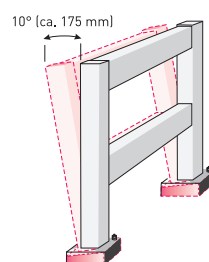
The vertical posts are equipped with a PU spring element and yield up to 10° (approximately 175 mm). The cross beams are made of a special polypropylene with particularly high resistance to material fatigue.

Result: A robust, flexible impact protection railing for indoor and outdoor use. For the highest loads. To be bolted down. Self-adjustable – saw and drill template see accessories.

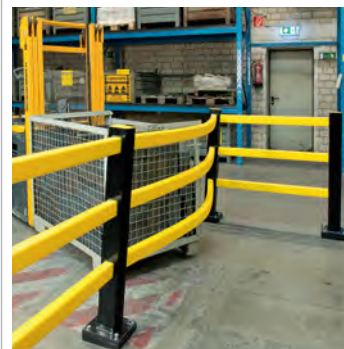
## Surface treatment:

- For outdoor use:  
Posts hot-dip galvanized and black plastic coated
- For indoor use:  
Posts black plastic coated

Stand post: 3 mm wall thickness  
Base plate: 200 x 200 x 10 mm  
Cross beam: 74 x 52 x 5 mm



- For indoors and outdoors
- Combines steel with plastic
- For highest loads
- Customizable to the object
- Quick, easy assembly
- TÜV certified  
according to DGUV 208-061



Execution	Cross beams, plastic (mm) Grid dimension/clear dimension			
	1,000/900	1,500/1,400	2,000/1,900	2,300/2,200
Shipping weight kg/pc.	2.25	3	3.5	4
for start/end and middle posts	203.22.870	203.27.147	203.21.049	203.26.648
Price €/pc.				

Mounting set (for 8 drill holes)			
Dimension (mm) Ø x L	Shipping weight kg/pc.	Article	€/pc.
10/170	2.0	109.20.858	

You need 1 mounting set for 2 posts or 4 or 6 fastening elements per underride protection beam. You can find the appropriate material on pages 74/75.

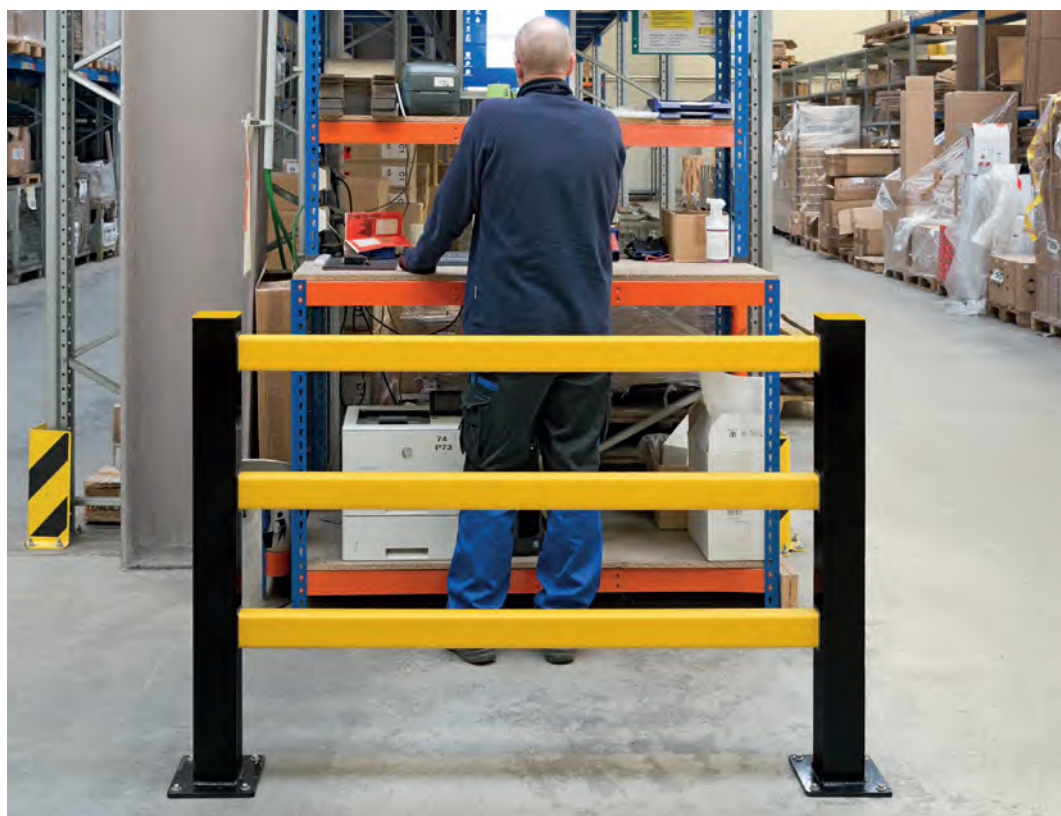
Execution	Underride protection beam, steel			
	750 mm	1,250 mm	1,750 mm	2,050 mm
Shipping weight kg/pc.	7	10	13	16
Plastic coated	203.26.035	203.29.159	203.21.033	203.20.865
Price €/pc.				
Hot-dip galvanized and plastic coated	203.29.476	203.24.056	203.27.061	203.29.733
Price €/pc.				
Number of dowels	4	4	6	6

Accessories	Shipping weight kg/pc.	Article	€/piece
Saw/Drill Template, for Adjusting Cross Beams	0.2	203.23.256	



Option: Additional underrun protection beam made of steel, 76 mm Ø, height 86 mm, base plate 130 x 70 x 10 mm. Reduces the maximum deflection of the cross beams.





- For indoors
- Rigid or flexible
- Highly loadable
- TÜV tested  
according to DGUV 208-061



## BLACK BULL Hybrid Safety Grid



MADE IN  
GERMANY

For separating work areas, walkways, and entry or exit situations.

Safety grid consisting of two black steel posts and three yellow crossbars made of special plastic.

Depending on the situation on site, two variants for force absorption are selectable:

- Rigid post with spring-loaded crossbars
- Yielding post (max. 175 mm) with PU spring element and non-spring-loaded crossbars

Mounting: for bolting down

Post: 1,000/1,040 x 100 x 100 mm (H x W x D)

Wall thickness: 3 mm

Cross beam: 74 x 52 x 5 mm (W x D x WS)

### Widths:

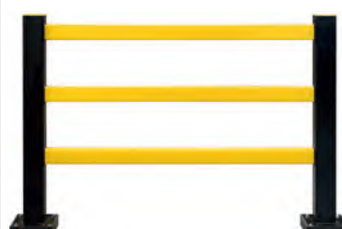
1,100 mm, 1,600 mm and 2,100 mm

### Surface treatment:

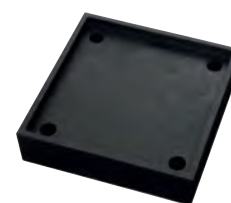
Steel post black coated



rigid version



flexible version



PU element for flexible execution

Version	Dimension (mm)		Shipping weight kg/pc.	Article	€/St.
	H x W	Light Width			
rigid, with PU element	1.000 x 1.100	1.000	36	203.25.210	
	1.000 x 1.600	1.500	37.5	203.20.990	
	1.000 x 2.100	2.000	38	203.21.654	
You need 4 fasteners per post. You can find suitable material on pages 74/75.					
flexible, with PU element	1.040 x 1.100	1.000	36,5	203.27.06938	
	1.040 x 1.600	1.500		203.27.747	
	1.040 x 2.100	2.000	38.5	203.26.585	
You need 1 mounting set. You can find suitable material on pages 74/75.					





- For indoors and outdoors
- Robust steel
- Flexible due to spring element
- Modular system
- Tilts up to 10°
- Individually expandable
- TÜV certified  
according to DGUV 208-061

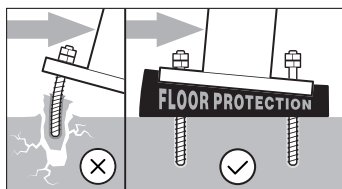
## BLACK BULL Bumper Protection Barrier SWING



More information  
about the  
product:



\* Max. power absorption;  
for details please request the data sheet.



Flexible Bumper Protection Barrier SWING: The vertical posts of the BLACK BULL Bumper Protection Barrier are additionally equipped with a polyurethane spring element.

The UV-resistant and permanently elastic PU element absorbs the forces acting on the barrier – like a crumple zone.

- Yielding, flexible protection barrier
- Inclination: maximum 10°
- Minimizes starting and repair damage
- Protects the floor

You can find the stand posts and planks on pages 36 and 37.



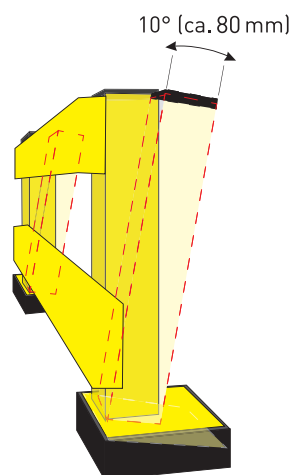
Maximum inclination:  
80 mm at a height of 505 mm

### Surface treatment:

- For outdoor use: galvanized and yellow plastic-coated

- Option: only galvanized
- For indoor use: yellow plastic-coated

Mounting with composite anchors (accessories: set for 8 drill holes).



You need 1 fastening set for 2 posts and 1 spring element per post. Suitable material can be found on pages 74/75.

### Fastening set (for 8 drill holes)

Dimension (mm) Ø x L	Shipping weight kg/pc.	Item	€/piece
10/170	2.0	109.20.858	

### Feder element (Only in connection with our impact protection board)

Dimensions (mm) H x W x D	Shipping weight kg/piece	Article	€/piece
50 x 146 x 166	0.4	422.23.497	



Planks



BLACK BULL Ram Protection Plank




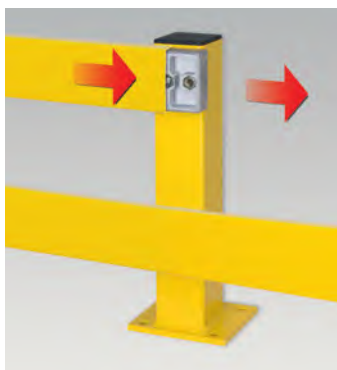
MADE IN  
GERMANY

More info  
about the  
product:



\* Max. power consumption; for details please request the data sheet.

Execution	Stand Post
	
Shipping weight kg/piece.	9.5
Plastic coated	198.22.571
Price €/pc.	
Hot-dip galvanized and plastic-coated	198.27.574
Price €/pc.	



- i**
- For indoors and outdoors
  - Robust steel
  - Flexible "building block" system
  - Individually expandable
  - Various lengths
  - Easy assembly
  - TÜV tested according to DGUV 208-061

The impact protection plank made of profile steel protects columns, posts, work areas, walls, pipelines, etc. from typical damage caused by forklift and maneuvering traffic. Highly loadable.

For bolting on.

- Massive steel elements for maximum load capacity
- Innovative connection technology for 1-man assembly
- Individually, object-related adjustable and extendable

Stand post: 465 x 80 x 80 mm  
3 mm wall thickness cap black

Base plate: 160 x 140 x 10 mm  
drill hole: mmØ 14 mm

Guard rail: C-profile, 100 x 40 mm, 3 mm wall thickness

#### Surface treatment:

- For outdoor use: galvanized and yellow plastic coated

Option: only galvanized

- For indoor use: yellow plastic coated

#### Easy assembly:

Bolt down the post, screw the rail (C-profile) to the post using a connecting element.

Rigid corner boards allow for a 90° angle.

Alternatively: corner board joint for angle adjustment between 90° and 180°



Boards (mm)				Corner plank outer corner	Corner plank inner corner	Corner plank joint	Corner finish
1,000	1,200	1,500	2,000			Aluminum	C-profile 45°
5	6	7.3	10	6	6	2	1.5
198.21.933	198.21.114	198.26.826	198.26.176	198.23.160	198.26.087	198.22.565	198.23.976
198.23.147	198.23.683	198.22.929	198.20.197	198.24.064	198.26.165	–	198.28.174
						–	

Accessories	Shipping kg/pc.	Article	€/pc.
Cap for plank, black	0.1	198.26.315	
Extension set for planks, aluminum, hot-dip galvanized and plastic-coated	1.5	198.25.794	

You need 4 fasteners per post. You can find the appropriate material on pages 74/75.



# Planks



BLACK BULL Ram Protection Plank XL



More info  
about the  
product:



\* Max. power absorption; for details please request the data sheet.

Execution	Stand Post (1,000 x 80 x 80 mm)
Shipping weight kg/piece.	13.2
Plastic coated	198.20.334
Price €/piece	
Hot-dip galvanized and plastic-coated	198.25.728
Price €/pc.	

The Rammschutz-Planke XL protects machines, conveyor technology, and work areas from typical collision damage caused by forklift and maneuvering traffic. Massive steel posts combined with four C-profiles provide extensive protection without obstructing the view. Adjustable as a stretch or rectangle at any angle between 90 and 180°.

Stand post: 1,000 x 80 x 80 x 3 mm, black cap, with fittings for 4 boards  
Base plate: 200 x 200 x 10 mm  
Protection board: C-profile, 100 x 40 x 3 mm, four different lengths

## Surface treatment:

- For indoor use: yellow plastic-coated
- For outdoor use: hot-dip galvanized and

yellow plastic-coated Option: only hot-dip galvanized

## Mounting:

For doweling drill hole: Ø 14 mm

Easy assembly: dowel the stand post, screw C-profiles to the post using connecting elements.

Rigid corner planks allow for a 90° angle.

Alternatively: corner board joint for angle adjustment between 90° and 180°

End corner C-profile 45°

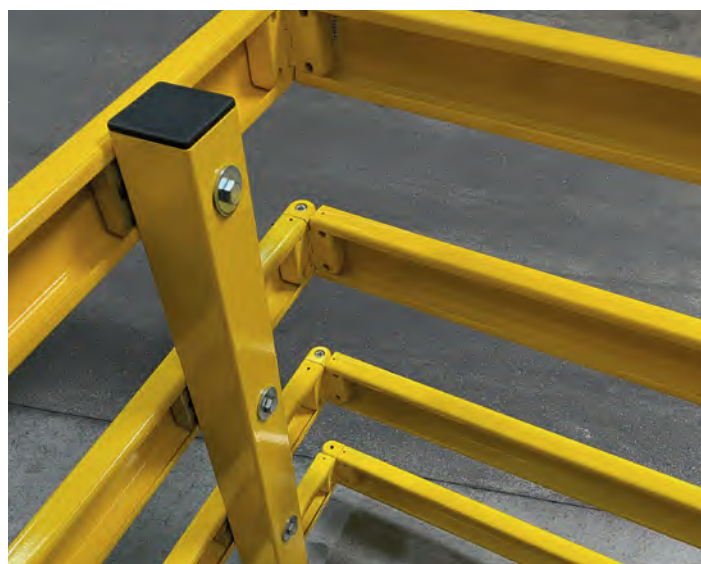
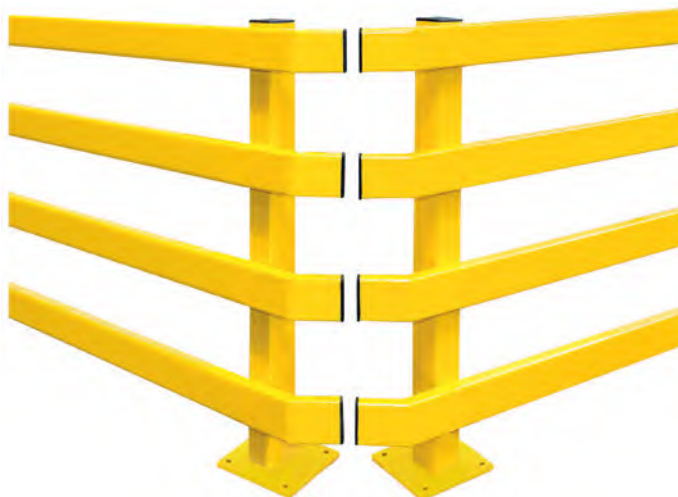
Also available as a flexible version SWING: gives up to 10° inclination. Spring element and mounting set see p. 28.

More mobility and mechanical decoupling of individual railing sections through the construction as a SWING variant.



- Maximum load capacity through massive steel elements
- Extra high with 1,000 mm
- Object-specific adjustable and expandable
- Quick, easy installation
- For screw mounting

Extension set: A maximum of one extension set can be used per plank.



Planks (mm)				Corner plank outer corner	Corner plank Inner corner	Corner plank joint Aluminum	Corner finish C-profile 45°
1,000	1,200	1,500	2,000				
5	6	7.3	10	6	6	2	1.5
198.21.933	198.21.114	198.26.826	198.26.176	198.23.160	198.26.087	198.22.565	198.23.976
198.23.147	198.23.683	198.22.929	198.20.197	198.24.064	198.26.165	–	198.28.174
						–	

Accessories	Versand ew.kg/St.	Article	€/St.
Cap for plank, black	0.1	198.26.315	
Extension set for planks, aluminum, hot-dip galvanized and plastic-coated	1.5	198.25.794	
You need 4 fasteners per post. You can find the appropriate material on pages 74/75.			





- For indoors and outdoors
- Extremely durable
- Made of quality steel
- Extremely thick-walled
- Various diameters
- TÜV tested  
according to DGUV 208-061



## BLACK BULL Impact protection bollard



\* Max. power absorption;  
For details, please request the data sheet.

Extremely durable bollard made of quality steel. Effectively prevents impact damage, secures inventory, traffic routes, and work areas. Protects machines, pillars, (roll) gates, loading ramps, etc.

Impact protection bollard S for bolting, additionally equipable with a flexible PU spring element (see page 28).

The impact protection bollards L to 3XL are particularly suitable for critical application areas: truck and forklift traffic, driveways, building corners.

The XXL and 3XL versions can additionally be filled with concrete: The cap is placed on afterwards.

### Surface treatment:

Yellow plastic-coated, with black painted stripes (S and L) Hot-dip galvanized and yellow plastic-coated, with black painted stripes  
Option: hot-dip galvanized and white plastic-coated, with red painted stripes

### Mounting options:

For concreting or for doweling

All sizes (except XXL and 3XL) can also be removable and/or lockable with a triangular or cylinder lock (from 159 mm with lifting aid).

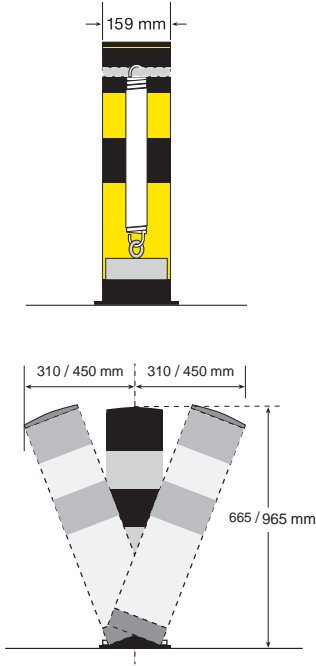


Execution		Dimensions (mm) Ø x WS x H	Color	surface	Shipping weight kg/piece	Article	€/piece
S	for bolting down, base plate 200 x 200 x 10 mm	90 x 3.6 x 1,200	yellow-black	coated	15	199.22.720*	
			yellow-black	hot-dip galvanized and coated		199.19.943*	
			red-white			199.29.625*	
	for embedding in concrete	90 x 3.6 x 1,600	yellow-black	coated	14.5	199.23.701	
			yellow-black	hot-dip galvanized and coated		199.17.454	
			red-white			199.88.378	
L	for doweling, base plate 250 x 250 x 15 mm	159 x 4.5 x 1,200	yellow-black	coated	31.5	199.26.491*	
			yellow-black	hot-dip galvanized and coated		199.16.549*	
			red-white			199.88.077*	
	for concreting	159 x 4.5 x 1,600	yellow-black	coated	30.7	199.28.241	
			yellow-black	hot-dip galvanized and coated		199.15.852	
			red-white			199.88.026	
XL	for doweling, base plate: 250 x 250 x 15 mm	194 x 4.5 x 1,200	yellow-black	galvanized and coated	42	199.15.151*	
	for concreting	194 x 4.5 x 1,600			44	199.19.836	
XXL	for bolting, base plate: 350 x 350 x 15 mm	273 x 5.0 x 1,200			51	199.19.146*	
	for concreting	273 x 5.0 x 1,600			53	199.13.769	
3XL	for doweling, base plate: 450 x 450 x 15 mm	323 x 6.3 x 1,200			87	199.22.056	
	for embedding in concrete	323 x 6.3 x 1,600			83	199.24.742	

You need 4 fasteners. You can find suitable material on pages 74/75.

\*tested variant by TÜV

# BLACK BULL Ram protection post SWING



The internal steel spiral spring absorbs the impact forces (progressive force absorption) in conjunction with the elastic buffer made of polyurethane. Minimizes damage to the bollard and the vehicle (forklift, truck). Protects roll-up and fire protection doors, transitions on driveways, ramps, access roads. The flexible bollard made of quality steel tilts up to a maximum of 25° (approximately 310 mm) and automatically returns to the starting position.

Execution: Ø 159 mm  
4.5 mm wall thickness Base plate: 270 mm Ø x 10 mm



MADE IN GERMANY

- For indoors and outdoors
- Made of quality steel
- Spring-loaded
- Energy absorbing
- Minimizes damage

## Surface treatment:

- For outdoor use: galvanized and yellow plastic-coated, with black signal stripes

- For indoor use: yellow plastic-coated, with black signal stripes

The bollard is to be bolted down – optionally with a ground tube for concreting.

Execution	Dimensions (mm) H x Ø	Shipping weight kg/piece	Article	€/piece
plastic coated	665 x 159	18	199.23.867	
hot-dip galvanized and plastic coated			199.28.165	
plastic coated	965 x 159	26	199.25.732	
hot-dip galvanized and plastic coated			199.27.906	
You need 4 fasteners. You can find suitable material on pages 74/75.				

# BLACK BULL Ram protection post SWING rotatable



Technically based on the yielding impact protection bollard SWING. Additionally rotatable due to a massive steel base plate with six embedded ball bearings.

The forces acting are thus absorbed doubly: lateral forces by rotation and frontal forces by the yielding of the bollard. Reduces damage to a minimum. Protects roll and fire protection gates, transitions on driveways, ramps, etc.

The flexible bollard made of quality steel tilts up to a maximum of 25° (approximately 310 mm) and automatically returns to the starting position.



MADE IN GERMANY

- For indoors
- Made of quality steel
- Energy absorbing
- Yielding and rotatable
- Rebounding

Execution: Ø 159 mm  
Wall thickness 4.5 mm Base plate: 270 mm Ø x 35 mm

## Surface treatment:

- For indoor use: yellow plastic coated, with black signal stripes

The bollard is for bolting down - optionally with a ground tube for concreting. The delivery includes 4 countersunk screws with dowels for assembly.

More info about the product:



Execution	Dimension (mm) H x Ø	Shipping kg/pc.	Article	€/pc.
plastic coated	700 x 159	36	199.22.128	
	1,000 x 159	42	199.25.417	
Ground pipe for embedding in concrete, incl. screws, plate 270 mm Ø x 10 mm, pipe 76 mm Ø		5	199.25.395	





- For indoors
- With additional knee support
- Various widths
- Cost-effective

MORION protective bracket  
Small

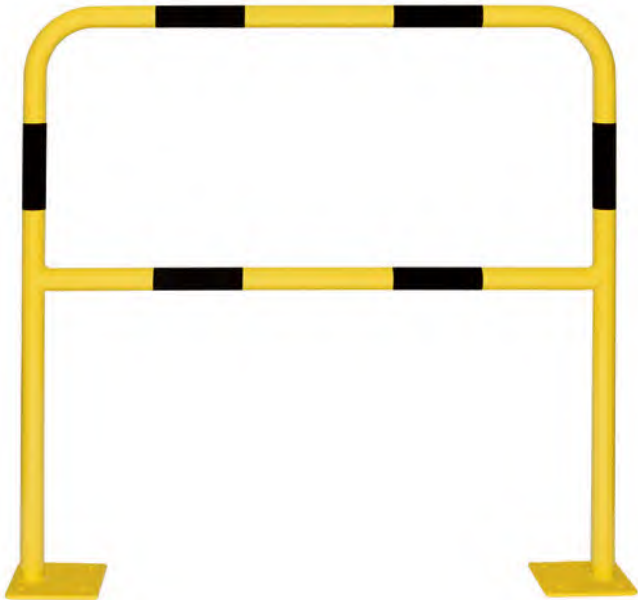
Cost-effective, lightweight steel protective bracket for indoor use.  
For separating work areas in the operation and storage. For protecting machines, securing walkways.

Bent steel pipe with additional knee arm.

For doweling.

Execution: Ø 40 mm  
1.5 mm wall thickness Base plate: 150 x 150 x 6 mm  
Drilling hole: Ø 14 mm

**Surface treatment:**  
For indoor use:  
yellow plastic-coated, with black signal stripes (150 mm)



Execution	Dimensions (mm) H x W	Shipping weight kg/pc.	Article	€/St.
For doweling with base plate 150 x 150 x 6 mm	1,000 x 1,000	9	201.24.623	
	1,000 x 1,500	11	201.28.976	
	1,000 x 2,000	13	201.25.587	
You need 8 fastening elements. You can find suitable material on pages 74/75.				



- i**
- Für innen und außen
  - Mit zusätzlichem Knieholm
  - Drei Befestigungsvarianten
  - Verschiedene Breiten



## MORION Schutzbügel

48 mm

MADE IN  
GERMANY



Stahl-Schutzbügel zum Sichern von Gefahrenzonen. Für innen und außen. Zur Absicherung von Personenverkehr, Maschinenschutz, Abtrennung von gefahrenereigneten Arbeitsbereichen.

Gebogenes Stahlrohr mit zusätzlichem Knieholm. Mit Signalstreifen (200 mm).

Ausführung: Ø 48 mm  
2 mm Wandstärke

### Oberflächenbehandlung:

- Für den Außeneinsatz: feuerverzinkt und gelb kunststoffbeschichtet, mit schwarzen Signalstreifen
- Für den Inneneinsatz: gelb kunststoffbeschichtet, mit schwarzen Signalstreifen

### Befestigungsvarianten:

Zum Aufdübeln:  
Bodenplatte: 160 x 70 x 10 mm  
Bohrloch: Ø 14 mm

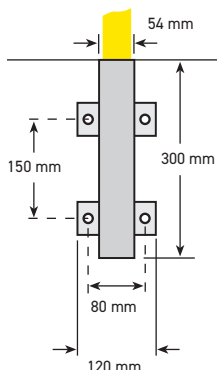
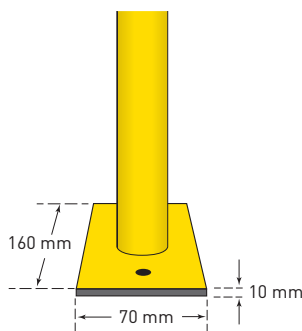
### Zum Einbetonieren:

Entspricht der Variante „herausnehmbare Wandmontage (ohne Einsteckhülsen)“.

### Zum Herausnehmen:

In Kombination mit zwei Einsteckhülsen (Zubehör) auch herausnehmbar.

Auf Wunsch nur feuerverzinkt sowie Sonderlängen oder Sonderfarben lieferbar.



Ausführung	Abmessung (mm) H x B	Oberfläche	Versandgew. kg/St.	Artikel	€/St.
<b>Zum Aufdübeln</b> mit Bodenplatte 160 x 70 x 10 mm	1.000 x 1.000	kunststoffbeschichtet	10	201.14.228	
		feuerverzinkt und kunststoffbeschichtet		201.15.512	
	1.000 x 1.500	kunststoffbeschichtet	12,5	201.15.794	
		feuerverzinkt und kunststoffbeschichtet		201.17.982	
	1.000 x 2.000	kunststoffbeschichtet	15	201.14.465	
		feuerverzinkt und kunststoffbeschichtet		201.13.553	
Sie benötigen 4 Befestigungselemente. Passendes Material finden Sie auf Seite 74/75.					
<b>Wandmontage</b> (herausnehmbar)  oder <b>zum Einbetonieren</b> (ohne Einsteckhülse)	1.300 x 1.000	kunststoffbeschichtet	10,5	201.25.003	
		feuerverzinkt und kunststoffbeschichtet		201.20.059	
	1.300 x 1.500	kunststoffbeschichtet	13	201.22.243	
		feuerverzinkt und kunststoffbeschichtet		201.27.829	
	1.300 x 2.000	kunststoffbeschichtet	15,5	201.21.658	
		feuerverzinkt und kunststoffbeschichtet		201.21.335	
Einsteckhülse (2 St. pro Bügel), 120/300		feuerverzinkt	2,5	201.27.454	
Sie benötigen 8 Befestigungselemente. Passendes Material finden Sie auf Seite 74/75.					





- High stability due to seamless bent tube
- TÜV certified according to DGUV 208-061
- Optionally for indoors or outdoors
- With shipping-optimized base plate
- Large selection of heights and widths

## BLACK BULL Bumper guard M



MADE IN  
GERMANY

### Bumper guard with a diameter of 60 mm

The ideal protection specifically designed for areas where mainly hand pallet trucks and light industrial trucks are used. The slimmer design offers robust protection and effectively prevents damage to building structures or machines.

Outstanding price-performance ratio.

### Optimized size:

Perfectly suitable for areas where conventional 76 mm guards would be oversized.

### Reliable protection:

Robust protection against impacts and damage

### Versatile application:

Ideal for warehouses, logistics centers, and production halls



### Note:

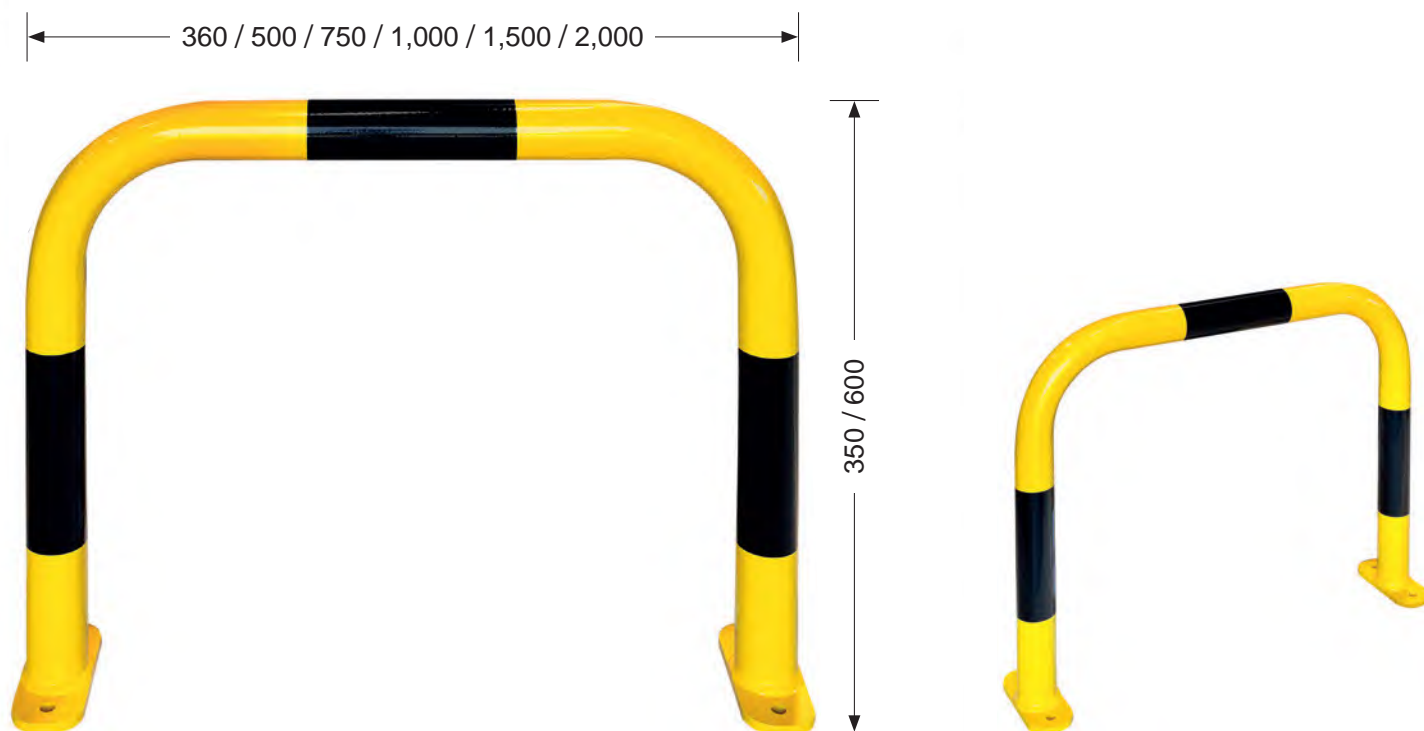
This impact protection bracket combines efficiency and space savings with high resistance and is the ideal solution for areas with lower risk.



Max. load capacity;  
for details please request the data sheet.

Plastic coated				
Execution	Dimensions (mm) H x W	Shipping weight kg/piece	Article	€/piece
yellow, with base plates	350 x 360	4.6	195.17.5567	
yellow, black stripes, with base plates	350 x 500	4.9	195.17.5580	
	350 x 750	5.7	195.17.5581	
	350 x 1,000	6.4	195.17.5582	
	350 x 1,500	7.8	195.17.5583	
	350 x 2,000	9.3	195.17.5584	
	600 x 360	6.1	195.17.5585	
	600 x 500	6.4	195.17.5587	
	600 x 750	7.2	195.17.5588	
	600 x 1,000	7.9	195.17.5627	
	600 x 1,500	9.3	195.17.5628	
	600 x 2,000	10.8	195.17.5629	

You need 4 fasteners. You can find suitable material on pages 74/75.



Execution: Ø 60 mm  
2 mm wall thickness Base  
plate: 160 x 70 x 10 mm  
Drilling hole: Ø 14 mm

The bumper protection brackets are anchored. Available for embedding in concrete upon request.

#### Surface treatment:

##### For indoor use:

- yellow plastic coated
- yellow plastic coated, with black signal stripes

##### For outdoor use:

- hot-dip galvanized and yellow plastic coated•
- hot-dip galvanized and yellow plastic coated, with black signal stripes

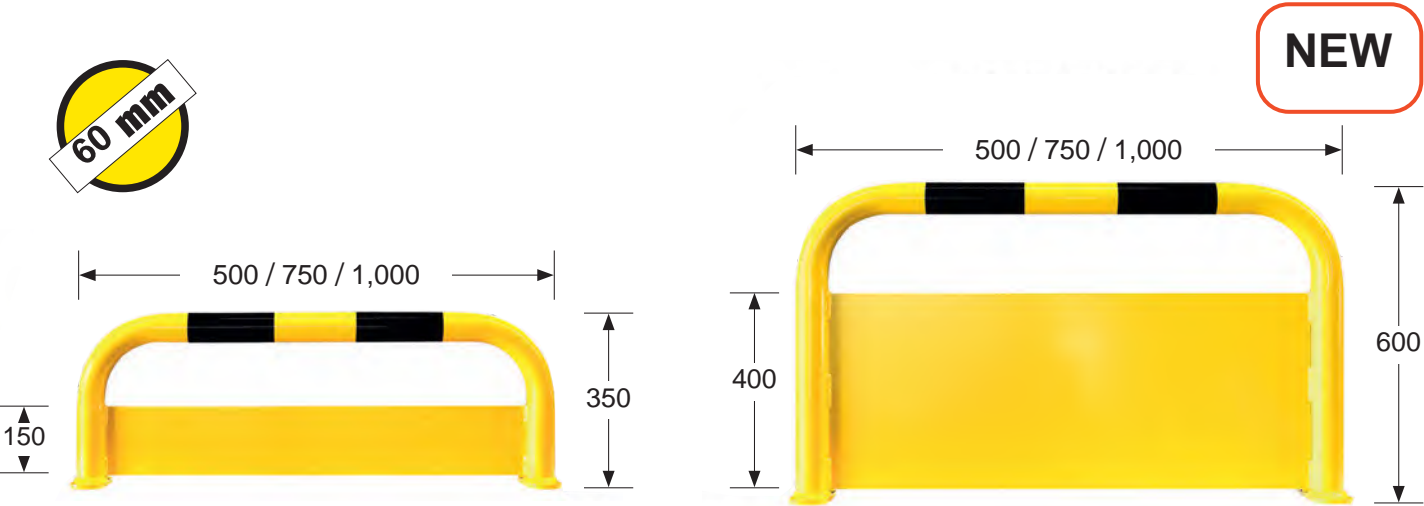


Shipping-optimized base plate, rounded edges, no penetrating transport packaging

Hot-dip galvanized and plastic coated				
Design	Dimensions (mm) H x B	Shipping weight kg/piece	Article	€/St.
yellow, with base plates	350 x 360	4.6	195.17.5630	
yellow, black stripes, with base plates	350 x 500	4.9	195.17.5631	
	350 x 750	5.7	195.17.5632	
	350 x 1,000	6.4	195.17.5633	
	350 x 1,500	7.8	195.17.5634	
	350 x 2,000	9.3	195.17.5636	
	600 x 360	6.1	195.17.5637	
	600 x 500	6.4	195.17.5638	
	600 x 750	7.2	195.17.5639	
	600 x 1,000	7.9	195.17.5640	
	600 x 1,500	9.3	195.17.5641	
	600 x 2,000	10.8	195.17.5642	

You need 4 fasteners. You can find suitable material on pages 74/75.





**BLACK BULL**  
**Bumper Bracket M**  
*with underride protection*



MADE IN  
**GERMANY**



Max. power consumption;  
For details, please request the data sheet.

Highly resilient protective frame made of quality steel for indoor and outdoor use with integrated underrun protection.

The underrun protection reliably prevents the penetration of forklift forks and thus protects sensitive components below the impact protection from damage.

Design: Ø 60 mm wall thickness: 2 mm base plate: 70 x 160 x 10 mm drill hole: Ø 14 mm

Underbody protection:  
Height 150 or 400 mm x 4 mm

**Surface treatment:**

- For outdoor use: hot-dip galvanized and yellow plastic-coated, with black signal stripes
- For indoor use: yellow plastic coated, with black signal stripes

The impact protection brackets with underbody protection are to be bolted down. Available for embedding in concrete upon request.



- Integrated underrun protection
- Highly load-bearing
- Absorbs strong shocks reliably
- TÜV certified according to DGUV 208-061 • optionally for indoor or outdoor

Shipping-optimized base plate, rounded edges, no penetrating transport packaging



Height of underbody protection (mm)	Version	Dimension (mm) H x W	Shipping weight kg/pc.	Article	€/pc.
150	plastic coated	350 x 500	8.9	195.17.5643	
	hot-dip galvanized and plastic coated			195.17.5650	
	plastic coated	350 x 750	11.5	195.17.5644	
	hot-dip galvanized and plastic coated			195.17.5651	
	plastic coated	350 x 1,000	14.1	195.17.5646	
	hot-dip galvanized and plastic coated			195.17.5652	
400	plastic coated	600 x 500	14	195.17.5647	
	hot-dip galvanized and plastic coated			195.17.5654	
	plastic coated	600 x 750	18.6	195.17.5648	
	hot-dip galvanized and plastic coated			195.17.5655	
	plastic coated	600 x 1,000	23.2	195.17.5649	
	hot-dip galvanized and plastic coated			195.17.5656	

You need 4 fastening elements. You can find suitable material on pages 74/75.

**BLACK BULL Corner Bumper Guard Bar M**

Three-legged "Corner Variant" of the 60s Bumper Guard Bar M.

Secures particularly important or sensitive facilities (e.g. pillars, stubs, columns, pipes, building parts, etc.). High protection of inventory, work, and traffic areas.

Version: Ø 60 mm Wall thickness: 2 mm Side length: 500 mm Base plate: 70 x 160 x 10 mm Drill hole: Ø 14 mm

The corner impact protection frames M are to be anchored.

Available for embedding on request.



- **MADE IN GERMANY**

- Protects corners
- High-quality steel
- Highly loadable
- Absorbs strong impacts reliably
- Optional for indoors or outdoors

**Surface treatment:**

- For outdoor use: hot-dip galvanized and yellow plastic-coated, with black signal stripes
- For indoor use: yellow plastic-coated, with black signal stripes



**BLACK BULL**

**BLACK BULL Corner Bumper Guard Bar M with Underride Protection**

Highly loadable protective frame made of quality steel for indoor use with integrated underrun protection and three stable base plates.

The underrun protection reliably prevents the penetration of forklift forks and thus protects sensitive components below the impact protection from damage.

Execution: Ø 60 mm Wall thickness: 2 mm Base plate: 70 x 160 x 10 mm Drilling hole: Ø 14 mm Underride protection: Height 150 or 400 mm x 4 mm

The corner impact protection arch M with underride protection are to be anchored. Available for embedding in concrete upon request.



- **MADE IN GERMANY**

- Integrated underrun protection
- High-quality steel
- Highly loadable
- Absorbs strong impacts reliably
- Optional for indoors or outdoors

**Surface treatment:**

- For outdoor use: hot-dip galvanized and yellow plastic-coated, with black signal stripes
- For indoor use: yellow plastic coated, with black signal stripes



**BLACK BULL**

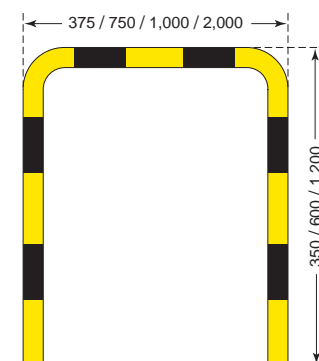
yellow with black stripes				
Execution	Dimensions (mm) H x W x D	Shipping weight kg/pc.	Item	€/piece
plastic coated	350 x 500 x 500	8.4	195.17.5594	
hot-dip galvanized and plastic coated			195.17.5596	
plastic coated	600 x 500 x 500	10.4	195.17.5595	
galvanized and plastic-coated			195.17.5597	
You need 6 fasteners. You can find suitable material on pages 74/75.				

yellow with black stripes					
Height of underbody protection (mm)	Version	Dimensions (mm) H x W x D	Shipping weight kg/pc.	Article	€/pc.
150	plastic-coated	350 x 500 x 500	12.6	195.17.5598	
	hot-dip galvanized and plastic-coated			195.17.5660	
400	plastic coated	600 x 500 x 500	22.2	195.17.5599	
	hot-dip galvanized and plastic coated			195.17.5661	
You need 6 fasteners. You can find suitable material on pages 74/75.					





- i**
- For indoors and outdoors
  - High-quality steel
  - No weld seams
  - Withstands hard impacts
  - Various heights and widths
  - TÜV certified according to DGUV 208-061



## BLACK BULL Bumper protection bar



MADE IN  
GERMANY



\* Max. power consumption;  
for details please request the data sheet.

Bent from a single piece – no weld seams.

High-load protective bars made of quality steel. Effectively prevent impact damage, secure inventory, traffic routes, and work areas.

The protective frames separate different traffic routes (e.g. forklift and pedestrian traffic), protect machines, pillars, supports, columns, shelves, (roll) gates, loading ramps, etc.

Design: Ø 76 mm  
3 mm wall thickness Base plate: 160 x 140 x 10 mm  
Drilling hole: Ø 14 mm

The ram protection brackets are bolted down. Available for embedding in concrete upon request.

### Surface treatment:

- For indoor use:  
yellow plastic coated,  
with black signal stripes
- For outdoor use: hot-dip galvanized and  
yellow plastic coated,  
with black signal stripes

### Option:

With counter plate for embedding  
(for screwing with the bracket)



plastic coated				
Design	Dimensions (mm) H x W	Shipping weight kg/pc.	Article	€/St.
yellow, with base plate	350 x 375	10	195.15.621	
yellow, black stripes, with base plate	350 x 750	12	195.14.4	
	350 x 1.000	13	50195.14	
	350 x 2.000	17	.589195.	
	350 x 2.000	17	29.70319	
	600 x 750	14	5.18.515	
	600 x 1.000	16	195.18.9	
	600 x 2.000	19	43195.23	
	600 x 2.000	19	.098195.	
	1.200 x 750	20	19.57319	
	1.200 x 1.000	22	5.17.903	
	1.200 x 1.000	22	195.21.1	
	1.200 x 2.000	25.5	70	

You need 8 fastening elements. You can find suitable material on pages 74/75.

Hot-dip galvanized and plastic-coated				
Execution	Dimensions (mm) H x W	Shipping weight kg/pc.	Item	€/St.
yellow, with base plate	350 x 375	10	195.18.233	
yellow, black stripes, with base plate	350 x 750	12	195.16.2	
	350 x 1.000	13	65195.13	
	350 x 1.000	13	.499195.	
	350 x 2.000	17	22.84619	
	600 x 750	14	5.17.623	
	600 x 1.000	16	195.19.1	
	600 x 2.000	19	57195.28	
	600 x 2.000	19	.325195.	
	1.200 x 750	20	17.29619	
	1.200 x 1.000	22	5.18.822	
Counter plate incl. screws	1.200 x 1.000	22	195.28.0	
	1.200 x 2.000	25.5	03	
Counter plate incl. screws	160 x 140 x 10 mm Length: 330 mm	4	195.28.577	

### BLACK BULL removable impact protection bar



High-load protection bar made of quality steel, removable using a special base plate.

Locks or temporarily clears access routes and aislesways.

Saves the complicated disassembly of fixed impact protection bars. Also suitable for areas with a high "risk of damage" as it is easily replaceable. For bolting down.

Design: Ø 76 mm  
3 mm wall thickness base plate: 160 x 140 x 15 mm  
Drilling hole: Ø 14 mm

**BLACK BULL**

MADE IN  
GERMANY

- For indoors
- High-quality steel
- Removable
- Easy assembly/disassembly

**Installation:** The two solid steel plates are bolted down. The separate pipe bracket is inserted, pushed back, and fixed. Additionally, a fitting is placed that covers the inlet opening and protects against dirt.

**Surface treatment:**  
yellow plastic coated, with black signal stripes

### BLACK BULL impact protection bar with underride protection



High-load protective frame made of quality steel for indoor use with integrated underrun protection.

Prevents the dangerous threading of the forklift forks into shelf areas or other protected facilities.

With 4 mm thick steel plate. For bolting.  
Execution: Ø 76 mm  
3 mm wall thickness Base plate: 160 x 140 x 10 mm  
Drilling hole: Ø 14 mm

Height of the underrun protection:  
150 or 400 mm

**BLACK BULL**

MADE IN  
GERMANY

- For indoors
- High-quality steel
- Additional steel plate
- Withstands hard impacts

**Surface treatment:**  
yellow plastic coated, with black signal stripes



Dimensions (mm) H x W	Shipping weight kg/pc.	Article	€/St.
350 x 750	12.5	196.15.471	
350 x 1,000	13.5	196.17.299	
600 x 750	14.5	196.17.689	
600 x 1,000	16.5	196.19.365	

You need 8 fastening elements. You can find suitable material on pages 74/75.

Height of underbody protection (mm)	Dimensions (mm) H x W	Shipping weight kg/pc.	Article	€/piece
150	350 x 750	14.5	196.16.857	
	350 x 1,000	17.5	196.15.132	
400	600 x 750	24	196.17.125	
	600 x 1,000	29	196.17.619	

You need 8 fasteners. You can find the suitable material on pages 74/75.





- i**
- For indoors and outdoors
  - High-quality steel
  - Flexible protective bracket
  - UV-resistant spring element
  - Different heights and widths
  - Floor-friendly
  - TÜV-tested according to DGUV 208-061



## BLACK BULL Bumper protection brackets SWING

More info about the product:



The standard version of the Black Bull bumper protection brackets is equipped with additional polyurethane spring elements. The UV-resistant and permanently elastic PU element absorbs the forces acting on the brackets.

- Yielding, flexible protective bracket
- Inclination: maximum 10°
- Minimizes impact and repair damage
- No torn-out dowels

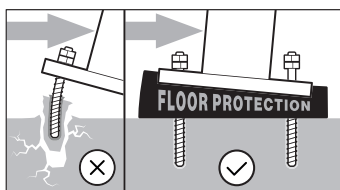
Execution: Ø 76 mm  
3 mm wall thickness Base plate: 160 x 140 x 10 mm

Maximum inclination:  
55 mm at a height of 390 mm  
95 mm at a height of 640 mm  
190 mm at a height of 1,240 mm

### Surface treatment:

- For outdoor use: hot-dip galvanized and yellow plastic-coated, with black signal stripes
- For indoor use: yellow plastic-coated, with black signal stripes

Mounting with composite anchors (accessories: set for 8 drill holes) can be retrofitted: already installed impact protection brackets can be retrofitted - re-drilling is necessary.



**BLACK BULL**

MADE IN  
**GERMANY**

Plastic-coated				
Execution	Dimensions (mm) H x W	Shipping weight kg/piece.	Item	€/piece.
yellow, with base plate	390 x 375	10.6	196.21.558	
yellow, black stripes, with base plate	390 x 750	12.6	196.23.9	
	390 x 1,000	13.6	27196.20	
	390 x 2,000	17.6	.479196.	
	390 x 2,000	17.6	23.13819	
	640 x 750	14.6	6.27.339	
	640 x 1,000	16.6	196.29.6	
	640 x 2,000	19.6	17196.28	
	640 x 2,000	19.6	.884196.	
	1,240 x 750	20.6	21.97819	
	1,240 x 1,000	22.6	6.21.739	
	1,240 x 2,000	26.1	196.27.0	
	1,240 x 2,000	26.1	54	

hot-dip galvanized and plastic-coated				
Execution	Dimensions (mm) H x W	Shipping weight kg/pc.	Article	€/piece
yellow, with base plate	390 x 375	10.6	196.24.195	
yellow, black stripes, with base plate	390 x 750	12.6	196.28.8	
	390 x 1,000	13.6	70196.28	
	390 x 2,000	17.6	.678196.	
	390 x 2,000	17.6	29.63919	
	640 x 750	14.6	6.26.638	
	640 x 1,000	16.6	196.21.6	
	640 x 2,000	19.6	58196.20	
	640 x 2,000	19.6	.921196.	
	1,240 x 750	20.6	23.97619	
	1,240 x 1,000	22.6	6.29.532	
	1,240 x 2,000	26.1	196.22.9	
	1,240 x 2,000	26.1	22	

You need 1 mounting set. You can find suitable material on page 74/75.

## BLACK BULL Corner Bumper Protection Bar



Three-legged "Corner Variant" of the 76 series bumper protection bars. Effectively prevent collision damage, secure inventory, traffic routes, and work areas. The corner bars protect machines, pillars, supports, columns, shelves, etc.

Execution: Ø 76 mm  
3 mm wall thickness Side  
length: 600 mm Base plate:  
160 x 140 x 10 mm

Corner bumper protection brackets are bolted down. Available for embedding in concrete upon request.

Option: With counter plate for embedding in concrete (for screwing with the bracket).

**BLACK BULL**

MADE IN  
GERMANY

- For indoor and outdoor use
- High-quality steel
- Protects corners
- Absorbs hard impacts

### Surface treatment:

- For outdoor use: hot-dip galvanized and coated
- For indoor use: plastic-coated

### Colors:

- yellow with black signal stripes
- white with red signal stripes



## BLACK BULL Corner Bumper Protection Bar with Underride Protection



High-load protective bracket made of quality steel for indoor use with integrated underrun protection.

Prevents the dangerous threading of forklift forks into shelf areas or other protected facilities.

With 4 mm thick steel plate. For bolting down.

Execution: Ø 76 mm  
3 mm wall thickness Base  
plate: 160 x 140 x 10 mm  
Drilling hole: Ø 14 mm

**BLACK BULL**

MADE IN  
GERMANY

- For indoors
- High-quality steel
- Additional steel plate
- Withstands hard impacts

Height of the underrun protection:  
150 or 400 mm

### Surface treatment:

yellow plastic-coated,  
with black signal stripes



BLACK BULL corner impact protection bracket, three-legged			plastic coated		galvanized and plastic-coated	
Dimensions (mm) H x W x D	Color	Shipping weight kg/piece	Article	€/pc.	Article	€/pc.
350 x 600 x 600	yellow-black	20	195.13.241		195.14.708	
	red-white		195.28.711		195.24.042	
600 x 600 x 600	yellow-black	24	195.14.637		195.17.083	
	red-white		195.27.199		195.28.676	
1,200 x 600 x 600	yellow-black	34	195.17.512		195.13.874	
	red-white		195.27.817		195.20.484	
Counter plate for embedding in concrete including screws, 160 x 140 x 10 mm, Length: 330 mm		4	195.28.577		195.28.577	

BLACK BULL corner impact protection bracket with underrun protection				plastic coated	
Dimensions (mm) H x W x D	Color	Shipping weight kg/pc.	Height of underbody protection (mm)	Article	€/piece
350 x 600 x 600	yellow-black	22	150	196.22.305	
600 x 600 x 600	yellow-black	34	400	196.27.835	

You need 12 fasteners. You can find suitable material on pages 74/75.





- i**
  - For indoors and outdoors
  - High-quality steel
    - Extremely load-bearing
    - Withstands the toughest impacts
  - Different heights and widths
  - TÜV certified according to DGUV 208-061



**BLACK BULL**  
Bumper protection bracket XL



MADE IN  
GERMANY



\* Max. power absorption;  
for details please request the data sheet.

Extremely durable pipe bracket made of quality steel to protect against impact damage. Secures particularly important or sensitive facilities (e.g. pillars, supports, columns, pipes, building parts, etc.).

Version: Ø 108 mm  
3.6 mm wall thickness base plate: 200 x 140 x 10 mm  
Drilling hole: Ø 18 mm

**Surface treatment:**

- For outdoor use: galvanized and yellow plastic-coated, with black signal stripes
- For indoor use: yellow plastic-coated, with black signal stripes

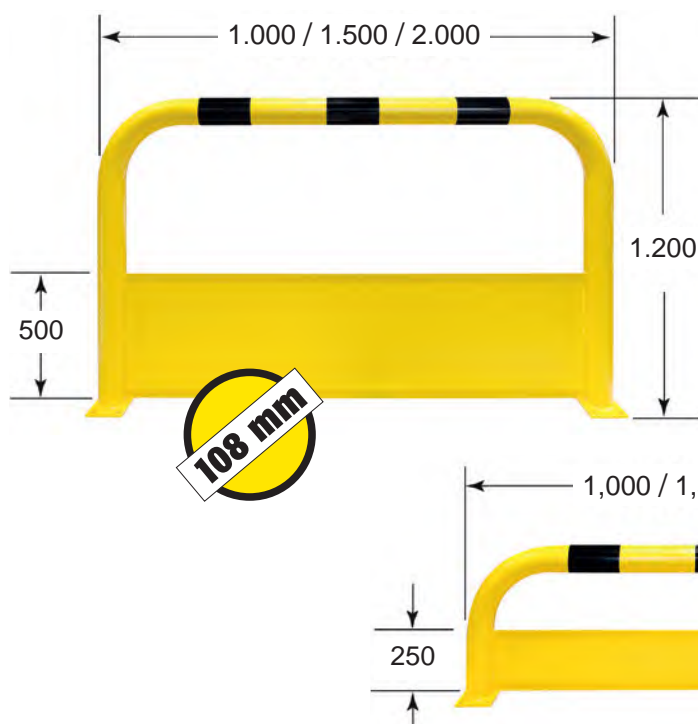
The impact protection brackets XL are to be anchored. Available for embedding in concrete upon request.



Plastic-coated				
Design	Dimensions (mm) H x W	Shipping weight kg/piece	Article	€/piece
yellow, with base plate	600 x 650	17.5	195.23.294	
yellow, black stripes, with base plate	600 x 1,000	22	195.20.0	
	600 x 1,500	27.5	48195.28	
	600 x 2,000	33.5	.885195.	
	600 x 2,000	33.5	22.64819	
	1,200 x 650	31	5.26.829	
	1,200 x 1,000	35	195.23.5	
	1,200 x 1,500	40.5	19195.25	
	1,200 x 2.000	46.5	.036195.	
			23.300	

Hot-dip galvanized and plastic-coated				
Execution	Dimension (mm) H x W	Shipping weight kg/pc.	Article	€/piece
yellow, with base plate	600 x 650	17.5	195.22.231	
yellow, black stripes, with base plate	600 x 1.000	22	195.23.3	
	600 x 1,500	27.5	38195.28	
	600 x 2,000	33.5	.652195.	
	600 x 2,000	33.5	20.48119	
	1,200 x 650	31	5.27.565	
	1,200 x 1,000	35	195.26.5	
	1,200 x 1,500	40.5	54195.26	
	1,200 x 2,000	46.5	.278195.	
			28.961	

You need 8 fastening elements. You can find suitable material on page 74/75.


**NEW**


- Integrated underrun protection
- Extremely loadable
- Withstands the toughest impacts
- TÜV tested  
according to DGUV 208-061\* optionally

for indoors or outdoors

**BLACK BULL** Ram protection bar XL with underrun protection

**BLACK BULL**

MADE IN  
GERMANY



\* Max. power consumption;  
for details please request data sheet.

Extremely durable protection bar made of quality steel for indoor and outdoor use with integrated underrun protection.

The underrun protection reliably prevents the penetration of forklift tines and thus protects sensitive components below the ram protection from damage.

Execution: Ø 108 mm  
3.6 mm wall thickness base plate: 200 x 140 x 10 mm  
Drilling hole: Ø 18 mm

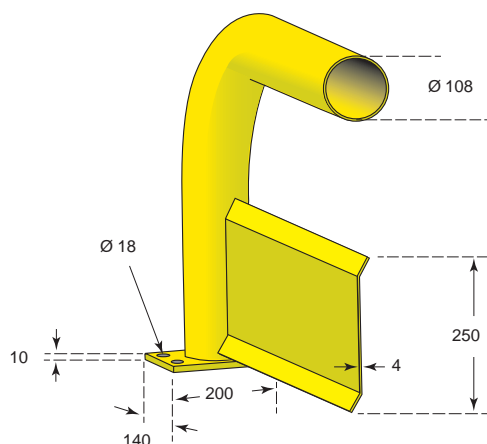
Height of the underrun protection:  
250 or 500 mm

#### Surface treatment:

- For outdoor use: hot-dip galvanized and yellow plastic-coated, with black signal stripes
- For indoor use:  
yellow plastic-coated, with black signal stripes

The XL impact protection brackets with underrun protection are to be anchored. Available for embedding in concrete upon request.

Maximum stability through Z-bending of the 4 mm thick steel plate.



Plastic coated				
Design	Dimensions (mm) H x W 600 x 1000	Shipping weight kg/pc.	Article	€/St.
yellow, black stripes, with base plate		29	196.17.57	
	600 x 1500	37	75196.17.	
	600 x 2000	46	5777196.1	
	1200 x 1000	47.5	7.5779196	
	1200 x 1500	59.5	.17.57811	
	1200 x 2000	72.5	96.17.578	

Hot-dip galvanized and plastic-coated				
Execution	Dimension (mm) H x W	Shipping weight kg/pc.	Artikel	€/St.
yellow, black stripes, with base plate	600 x 1000	29	196.17.57761	
	600 x 1500	37	96.17.57761	
	1200 x 1000	47.5	77819	
	1200 x 1500	59.5	6.17.57761	

You need 8 fasteners. You can find suitable material on pages 74/75.



## BLACK BULL Eck-Rammschutz-Bügel XL



Dreibeinige „Eck-Variante“ der 108er-Rammschutz-Bügel XL. Sichert besonders wichtige oder empfindliche Einrichtungen (z.B. Pfeiler, Stützen, Säulen, Leitungen, Gebäudeteile etc.). Massiver Schutz von Inventar, Arbeits- und Verkehrsbereichen.

Ausführung: Ø 108 mm  
3,6 mm Wandstärke  
Seitenlänge: 900 mm  
Bodenplatte: 200 x 140 x 10 mm  
Bohrloch: Ø 18 mm

### Oberflächenbehandlung:

- Für den Außeneinsatz: feuerverzinkt und gelb kunststoffbeschichtet, mit schwarzen Signalstreifen
- Für den Inneneinsatz: gelb kunststoffbeschichtet, mit schwarzen Signalstreifen

**BLACK BULL**

MADE IN  
GERMANY



- Für innen und außen
- Hochwertiger Stahl
- Extrem belastbar
- Schützt Ecken
- Hält harte Stöße ab

Die Eck-Rammschutz-Bügel XL werden aufgedübelt. Auf Wunsch zum Einbetonieren lieferbar.



## BLACK BULL Eck-Rammschutz-Bügel XL mit Unterfahrschutz



Extrem belastbarer Schutzbügel aus Gütestahl mit integriertem Unterfahrschutz und drei massiven Bodenplatten.

Der Unterfahrschutz verhindert zuverlässig das Durchstoßen von Staplergabeln und schützt so empfindliche Bauteile unterhalb des Rammschutzes vor Beschädigungen.

Mit 4 mm starker Stahlplatte.

Ausführung: Ø 108 mm  
3,6 mm Wandstärke  
Bodenplatte: 200 x 140 x 10 mm  
Bohrloch: Ø 18 mm

Höhe des Unterfahrschutzes: 250 oder 500 mm



- Integrierter Unterfahrschutz
- Extrem belastbar
- Hält härteste Stöße ab
- TÜV-geprüft nach DGUV 208-061
- Wahlweise für innen oder außen

### Oberflächenbehandlung:

- Für den Außeneinsatz: feuerverzinkt und gelb kunststoffbeschichtet, mit schwarzen Signalstreifen
- Für den Inneneinsatz: gelb kunststoffbeschichtet, mit schwarzen Signalstreifen

Die Eck-Rammschutz-Bügel XL mit Unterfahrschutz werden aufgedübelt. Auf Wunsch zum Einbetonieren lieferbar.

**BLACK BULL**

MADE IN  
GERMANY



Ausführung	Abmessung (mm) H x B x T	Versandgew. kg/St.	Artikel	€/St.
kunststoffbeschichtet	600 x 900 x 900	42	195.23.857	
feuerverzinkt und kunststoffbeschichtet			195.27.689	
kunststoffbeschichtet	1.200 x 900 x 900	55	195.27.431	
feuerverzinkt und kunststoffbeschichtet			195.23.796	

Ausführung	Abmessung (mm) H x B x T	Versandgew. kg/St.	Artikel	€/St.
kunststoffbeschichtet	600 x 900 x 900	43	196.17.5787	
feuerverzinkt und kunststoffbeschichtet			196.17.5788	
kunststoffbeschichtet	1.200 x 900 x 900	55	196.17.5789	
feuerverzinkt und kunststoffbeschichtet			196.17.5790	

Sie benötigen 12 Befestigungselemente. Passendes Material finden Sie auf Seite 74/75.



- For indoors
- High-quality steel
- Low construction
- Various lengths

### BLACK BULL bumper protection beam



Stops pallet trucks, roll containers, transport carts. Protects shelves, cabinets, etc. from impact damage.

Also serves as a spacer for wall constructions (equipment, control boxes, first aid facilities, etc.).

Low construction for unobstructed access to the protected (indoor) areas.

Thick-walled pipe made of quality steel, ends beveled (45°). With extra strong base plates (10 mm).

**Surface treatment:**  
yellow plastic-coated, with black signal stripes

Execution: Ø 76 mm  
3 mm wall thickness base plate: 130 x 70 x 10 mm  
Drilling hole: Ø 14 mm

The impact protection beams are to be anchored. Special lengths and a version for embedding in concrete are available upon request.



Execution	Number of required dowels	Dimensions (mm) H x L	Shipping weight kg/pc.	Article	€/St.
Impact protection beams	4	86 x 400	5	199.13.478	
		86 x 800	7.5	199.19.220	
		86 x 1,200	10	199.14.143	
Eck-Ram protection beam	6	86 x 638 x 638	11	199.22.677	

You need 4 or 6 fastening elements. You can find suitable material on pages 74/75.





- For indoors
  - Solid steel
  - Indestructible
  - Various heights
  - TÜV certified
- according to DGUV 208-061



## BLACK BULL Bumper protection



MADE IN  
GERMANY

Bumper protection elements are required for stationary shelves in connection with forklifts, provided they are not track-bound.

Protects shelf supports in corner and passage areas.

Also usable as bumper protection for storage facilities, machine grids, partition wall systems. For bolting. Drill hole: Ø 14 mm

Design according to safety guideline DGUV rule 208-061 and ASR A1.3/5.2. Complies with DIN EN 15512.

### Variants:

- Angle: two-sided protection
- U-profile: three-sided protection

### Surface treatment:

yellow plastic-coated, with black signal stripes



### Note:

According to DIN EN 15512, a height of 400 mm for the impact protection is required.



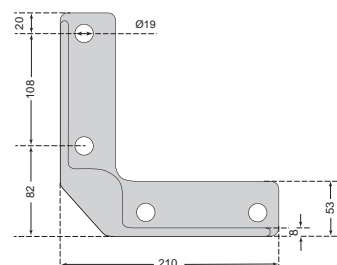
Execution	Number of required dowels	Dimensions (mm) H x SL x Thickness 400 x 160 x 5	Shipping weight kg/pc.	Article	€/piece.
Angle 400	4	400 x 160 x 6	8	197.15.9	
Angle 800		800 x 160 x 6	9	28197.13	
Angle 1.200		1.200 x 160 x 6	16	.182197.	
U-profile 400	6	400 x 160 x 5	22	14.60519	
U-profile 800		400 x 160 x 6	10	197.28.8	
U-profile 1.200		800 x 160 x 6	11	97197.18	
			20	.365197.	
			26	28.18919	
				7.88.004	

You need 4 or 6 fastening elements. You can find suitable material on pages 74/75.





- i**
- For indoors
  - Floor-friendly
  - Highly load-bearing
  - Strongly damping
  - TÜV certified according to DGUV 208-061



**BLACK BULL** Bumper protection SWING



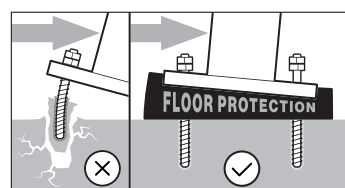
MADE IN GERMANY

Extremely load-bearing impact protection angle made of steel, equipped with an additional damping element made of polyurethane. The stable PU element with lateral protective edges absorbs impact forces and protects the floor.

Impact protection angle yellow plastic-coated with black signal stripes for indoor use.

The black damping element is UV-resistant and permanently elastic.

- No torn dowels
- Minimizes impact damage
- Inclination: approx. 45/90 mm
- Angle of inclination: 6.5°



More info about the product:



## Easy installation:

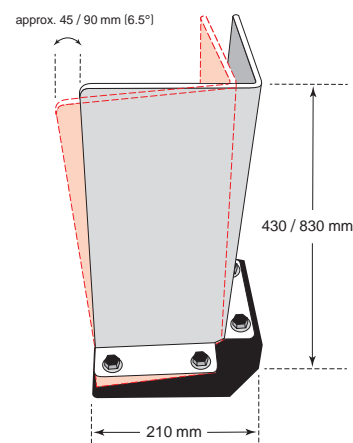
Align impact protection angle and 30 mm high damping element (total height 430/830 mm) and anchor it.

## Surface treatment:

yellow plastic-coated, with black signal stripes

## Retrofit:

Already installed BLACK BULL impact protection corners can be retrofitted – re-doweling is necessary.



Angle with damping element	Number of required dowels	Dimensions (mm) (H x SL x thickness)	Shipping weight kg/pc.	Article	when purchasing at €/piece.
Angle 400	4	430 x 160 x 5	8.5	197.25.180	
Angle 800		830 x 160 x 6	16.5	197.25.566	

Mounting set (for 8 drill holes)

You need 1 mounting set.  
You can find suitable material on pages 74/75.



## Bumper protection

### BLACK BULL bumper protection with guide roller



Bumper protection elements are required for stationary shelves in connection with forklifts, provided they are not track-bound.

The vertically fixed roller redirects a large part of the laterally incoming forces. It increases the lifespan, dampens, and reduces shocks. It is gentle on the floor. Thus, it optimally protects shelf supports in corner and passage areas.

For doweling. Drill hole: Ø 14 mm.  
Polyamide roller: 110 mm high, black.  
Installation: 75 mm above the floor.

#### Surface treatment:

yellow plastic-coated, with black signal stripes



MADE IN  
GERMANY



- For indoors
- Solid steel
- Indestructible
- With 1 or 2 guide rollers

#### Variants:

- Angle:  
two-sided protection with 1 guide roller • U-profile:  
three-sided protection with 2 guide rollers

Design according to safety guidelines  
DGUV rule 208-061 and ASR A1.3/5.2.



### BLACK BULL guide board



- For inside
- Solid steel angle
- Protects restricted areas
- Two wall thicknesses

Often, storage, fire protection doors and gates are damaged. Cause: Pallets/grid boxes were placed in the blocking area in the reversing area. Damage can also be caused by forklift drivers entering these areas while the gate is opening.

This massive steel angle for bolting secures critical restricted areas and avoids costly repairs. With rounded corners and miter cut (45°) for angle mounting. Drill hole: Ø 14 mm.

#### Surface treatment:

yellow plastic-coated



MADE IN  
GERMANY

Execution	Dimensions (mm) H x SL x thickness	Shipping weight kg/pc.	Article	€/pc.
Angle Number of dowels = 4	400 x 160 x 6	9	197.22.542	
U-profile Number of dowels = 6	400 x 160 x 6	12	197.22.021	

You need 4 or 6 fastening elements. You can find the suitable material on pages 74/75.

Dimensions (mm) H x L x T	Thickn ess (mm)	Shipping weight kg/pc.	Article	€/piece
150 x 800 x 100 Number of dowels = 5	6	10.5	197.24.121	
	10	16	197.17.683	
150 x 1,200 x 100 Number of dowels = 7	6	14.5	197.29.576	
	10	24	197.13.775	

You need 5 or 7 fastening elements. You can find suitable material on pages 74/75.

## Bumper Post FLEX



Proven material in a new application: Yielding posts made of high-quality plastic (TPU). Flexible yet still shape-stable.

Due to the classic design, the bumper post FLEX looks like a conventional steel post, whose yielding property is only noticeable upon impact.

Absorbs impact forces, protects vehicle and bollard. Particularly suitable in narrow traffic areas.

Mounting type: for doweling  
Base plate: 140 x 140 x 25  
Drill hole: mm Ø 14 mm

**Note:**

TPU = Thermoplastic Polyurethane. Environmentally friendly and biodegradable.



- Made of flexible plastic
- Yielding
- "Steel Post Look"
- Two colors



## MORION Impact Protection Plastic



Start protection element made of yellow, high-quality polyethylene (MDPE) for the protection of shelf supports. Additionally secured by two Velcro straps – prevents unwanted slipping.

- For shelf supports from 60 to 120 mm
- Protects the floor, as it is not doweled
- Recyclable

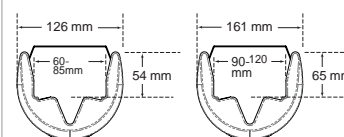
Quickly assembled and disassembled (e.g. for annual shelf inspection).



- Elastic, spring-back
- Shape-stable
- Assembly without tools
- TÜV certified according to DIN EN 15512
- Fixation by Velcro

**Note:**

According to DGUV Regulation 208-061, impact protection elements that are connected to the shelf support must not be used in corner areas or passages. Here, I recommend steel impact protection angles for bolting.



Color	Dimensions (mm) Ø x Height	Shipping weight kg/pc.	Article	€/pc.
yellow-black	80 x 1,000	3.7	292.24.601	
red-white			292.20.434	
You need 4 fastening elements. You can find suitable material on pages 74/75.				

For shelf support	Dimensions (mm) H x W x D	Shipping weight kg/pc.	Article	upon purchase of €/pc.
60-85 mm	550 x 126 x 104	1	197.29.201	
86-120 mm	550 x 161 x 115	1.5	197.22.285	



Bumper protection



- i**
  - For indoors
  - Made of steel
  - For all shelf widths
  - Protective panels adjustable
  - Easy assembly

BLACK BULL shelf protection plank A



MADE IN GERMANY

The shelf protection plank made of steel is specially designed for end protection of shelves against collision damage from forklift and maneuvering traffic.

The protective panels are adjustable in width. Black stripes increase visibility.

For single and double shelf rows.

**Surface treatment:**  
yellow plastic coated, with black signal stripes

**Easy assembly:**  
Bolt the stand post, screw the plank (C-profile) to the post using a connecting element.  
Secure the protective cover (350 x 300 x 4 mm) with clamping jaws at the desired location.

**Stand post:** 465 x 80 x 80 mm,  
3 mm wall thickness, cap black

**Base plate:** 380 x 140 x 10 mm (Set 900)  
160 x 140 x 10 mm (Set 1,700/2,300)

**Protective plank:** C-profile, 100 x 40 mm, 3 mm wall thickness



- Simple shelf set A 900**  
- extendable up to 1,300 mm:  
1 double post, 2 planks 900 mm,  
2 protective covers
- Double shelf set A 1,700** -  
extendable up to 2,100 mm:  
2 stand posts, 2 planks 1,700 mm,  
2 protective covers
- Double shelf set A 2,300** -  
extendable up to 2,700 mm:  
3 stand posts, 2 planks 2,300 mm,  
2 protective covers



Execution	number of required dowels	dimensions (mm) H x W x D	Shipping weight kg/pc.	Article	€/pc.
simple shelf Set A 900	4	465 x 900 – 1.300 x 160	31	198.25.566	
double shelf Set A 1,700	8	465 x 1.700 – 2.100 x 160	44	198.24.401	
double shelf Set A 2.300	12	465 x 2.300 – 2.700 x 160	58	198.22.991	
You need 4, 8, or 12 fasteners. You can find suitable material on pages 74/75.					



- i**
- For indoors
  - Made of steel
  - Height of bumper protection angle 500 mm
  - For all shelf widths
  - Width adjustable
  - Easy assembly
  - TÜV certified according to DGUV 208-061



## BLACK BULL shelf protection plank B



MADE IN  
GERMANY

The shelf protection plank made of steel is specially developed for the frontal protection of shelves and shelf supports against impact damage from forklift and maneuvering traffic.

The special design of the impact protection angles protects the front shelf posts and allows the lateral insertion of two steel planks (C-profile). The 300 mm wide protective angles allow for shifting of the planks by up to 200 mm per protective angle. Thus, each plank set can be individually adjusted in width up to 400 mm. Black stripes increase visibility.

A plank set B consists of two impact protection angles (H x W x D

500 x 300 x 190 mm, 4 mm material thickness), two planks (C-profile, 100 x 40 x 3 mm) and four clamping pieces.

**Surface treatment:**  
yellow plastic-coated, with black signal stripes

Easy assembly: Bolt the approach protection angle, insert both planks, bolt the second protective angle, and secure the planks with clamping pieces.

### Single shelf set B 900

- for widths from 900 to 1,300 mm

### Double shelf set B 1,700

- for widths from 1,700 to 2,100 mm

### Double shelf set B 2,300

- for widths from 2,300 to 2,700 mm

Variant with additional guide rollers. Diverts a large part of the laterally incoming forces. Dampens impacts, protects the floor, and increases the lifespan.



Execution	Anzahl/erford. Dowels	Dimensions (mm) H x W x D	Shipping kg/pc.	Article	€/pc.
Set B 900	12	500 x 900 – 1,300 x 190	32	198.23.925	
Set B 900, guide roller			39	198.22.540	
Set B 1,700		500 x 1,700 – 2,100 x 190	43	198.25.753	
Set B 1,700, guide roller			50	198.25.188	
Set B 2,300		500 x 2,300 – 2,700 x 190	48	198.22.185	
Set B 2,300, guide roller			55	198.26.651	

You need 12 fasteners. You can find suitable material on pages 74/75.



\* Max. Load capacity;  
for details please request the data sheet.



Start protection



- i**
  - For indoors
  - Made of steel and plastic
  - Height 400 mm
  - Widths adjustable
  - Affordable
  - TÜV certified

according to DGUV 208-061

**BLACK BULL**  
*Shelf protection plank C*



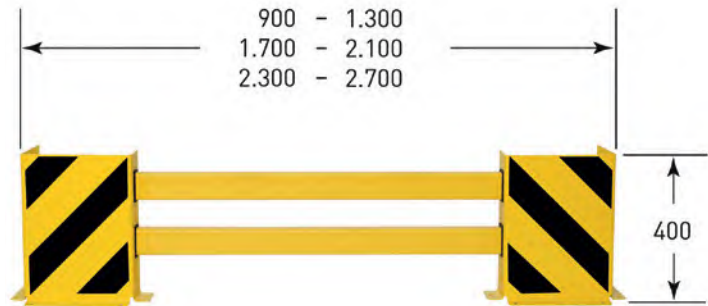
The shelf protection plank C serves to protect the front side of shelves and shelf supports. Combination of impact protection angles made of steel and two planks made of plastic.

Provides firm protection for the shelf supports, while the spring-loaded planks forgive minor maneuvering errors.

The outer side of the impact protection angle is extra long to additionally protect the shelf post. On the other side of the angle, the shelves are inserted and secured.

Impact protection angle  
(H x W x D): 400 x 300 x 190 mm  
Wall thickness: 3 mm  
Plank (H x D x WS): 74 x 52 x 5 mm

Three variants cover shelf widths from 900 mm to 2,700 mm.



Execution	Dimensions (mm) H x W x D	Shipping weight kg/pc.	Article	€/pc.
Set C 900	400 x 900 – 1.300 x 190	18	198.23.829	
Set C 1.700	400 x 1.700 – 2.100 x 190	21	198.20.242	
Set C 2.300	400 x 2.300 – 2.700 x 190	23	198.24.154	

You need 12 fastening elements. You can find suitable material on pages 74/75.





- i**
- For indoors
  - High-quality steel
  - Various lengths
  - Single or continuous construction
  - Integrated cable holder



## BLACK BULL Bumper Protection Barrier



MADE IN  
GERMANY

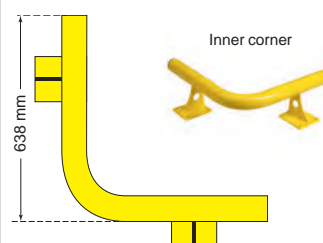
Guidance system made of steel. For separating traffic routes, protecting against damage to walls, machines, technical facilities, and delineating work areas.

Very robust construction: The thick-walled steel pipe is connected by metal struts with a solid base plate. Side closures with black plastic caps (optional).

Two application types: As a single barrier or in continuous construction using an adapter that connects the pipes together.

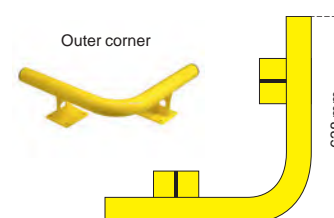
Integrated cable holder: Protects cables, pressure hoses, lines up to 48 mm, which can be guided through the cutouts of the webs.

Also available as a flexible version SWING (see page 35)



**Surface treatment:**  
yellow plastic-coated

Execution: Ø 76 mm  
3 mm wall thickness Total  
height: 200 mm Base plate  
160 x 140 x 10 mm



The bumper barriers are anchored with dowels. Drill hole: Ø 14 mm.

Special lengths are available on request.

Version		Number of required dowels	Dimensions (mm) H x L x D	Shipping weight kg/pc.	Article	€/piece
Bumper barrier		8	200 x 1,000 x 160	12.5	202.29.766	
			200 x 1,500 x 160	15	202.24.306	
		12	200 x 2,000 x 160	20.5	202.27.522	
Corner bumper barrier	Outer corner	8	200 x 638 x 638	12.5	202.27.943	
	Inner corner				202.24.284	
Adapter				0.5	202.29.983	
Plastic cap, black				0.1	202.20.854	

You need 8 or 12 fastening elements. Suitable material can be found on pages 74/75.








BLACK BULL Floor Barrier ECO



MADE IN  
GERMANY

More info  
about the  
product:



Execution	Post (250 x 70 x 70 mm)		
	Start/End	Middle	Corner
			
Shipping weight kg/piece	3.4	3.4	3.4
Plastic coated	202.21.049	202.26.384	202.24.365
Price €/pc.			



Affordable, modular floor barriers with low steel posts and round crossbeams. Ideal for picking areas, goods in and out, as well as for delineating pallet storage spaces. Ground-level protection for maneuvering zones and shelving areas. Customizable to the object. Easy, screwless assembly through twist-proof plug profiles.

- Variable system with stand posts and crossbeams
- Compact dimensions
- Quick, easy assembly
- Form-fitting: no protruding tabs or screws
- Durable: Many plastics become brittle – steel does not.

## Surface treatment:

- Steel posts black plastic-coated, crossbeams yellow plastic-coated
- For outdoor use (optional): hot-dip galvanized and plastic-coated

## Dimension s:

Post: 250 x 70 x 70 x 3 mm

Base plate: 160 x 140 x 10 mm

Cross beam: 1,000 x 48.3 x 2 mm

1,500 x 48.3 x 2 mm

2,000 x 48.3 x 2 mm

Nut depth: 25 mm

Pipe elbow: 170 x 170 x 48.3 x 2 mm

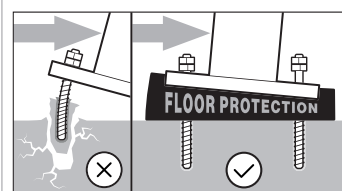
## Mounting:

For screw mounting

Drill hole: Ø 14 mm



- Ground-level protection
- Modular construction
- With pipe bend
- Cost-effective







## Note:

Also available as a flexible version SWING: Gives up to 10° inclination. Spring element and mounting set see p. 35.

## Mounting accessories

You need 4 mounting elements per post. You can find suitable material on pages 74/75.

Cross beam (48.3 x 2 mm) Grid dimension/clear dimension		
1,000/950	1,500/1,450	2,000/1,950
		
		
		
3	4.8	6.1
202.27.871	202.26.841	202.24.589

Dimensions (mm) H x W x D x WS	Pipe elbow corner 90°
48.3 x 170 x 170 x 2	
Shipping weight kg/pc.	1.2
Plastic coated	202.23.461
Price €/pc.	



Barriers



- i*
  - For indoors
  - Ground-level protection
  - Modular design
  - TÜV certified



BLACK BULL Ground  
Barrier Hybrid



MADE IN  
GERMANY

Versatile ground-level barrier.  
Protects shelf areas, maneuvering  
zones, and wall surfaces. Serves  
as a "spacer" for wall attachments  
as well as column protection.

The modular ground barrier  
consists of low steel posts and  
spring-loaded crossbeams made of  
special plastic. Striking black-  
yellow color scheme. Version for  
bolting down.

Post: 255 x 100 x 100 mm  
Wall thickness: 3 mm Base  
plate: 200 x 200 x 10 mm  
Crossbeam: 74 x 52 x 5 mm

**Surface treatment:**  
Steel post black coated,  
crossbeam yellow dyed  
special plastic



Stand post	Dimensions (mm) H x W x D	Shipping weight kg/pc.	Article	€/piece
Start/End	255 x 100 x 100	6.5	203.26.335	
Middle		6	203.24.605	
Corner		6	203.26.312	
You need 4 fastening elements. You can find suitable material on pages 74/75.				
Cross beam for start/end and middle posts	Dimensions (mm) B x D x WS	Shipping weight kg/pc.	Article	€/St.
1,000 mm	74 x 52 x 5	2	203.22.870	
1,500 mm		2.5	203.27.147	
2,000 mm		3	203.21.049	



Image source: Stadtwerke Jena

**i**

- All-round protection
- Hot-dip galvanized, robust and durable• Easy installation• For indoor and outdoor use
- Also suitable for embedding in concrete



## MORION column protection

MADE IN  
GERMANY

Optimal all-round protection for columns, posts, pillars, (light) masts, etc. against collision damage.

Two-part steel pipe construction made of 60 mm round arches and 48 mm cross braces.

### Simple assembly:

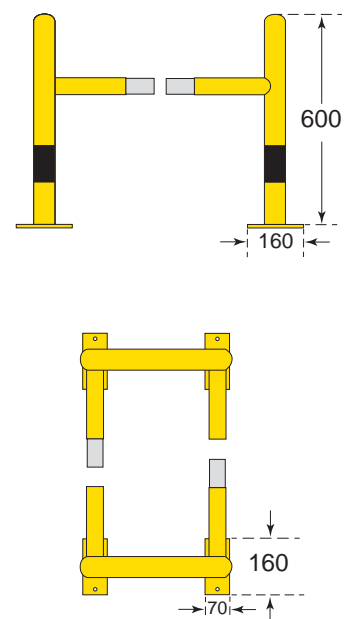
Both cross braces are inserted into each other and form a solid, stable unit, which is anchored with 4 base plates.

### Surface treatment:

- hot-dip galvanized
- hot-dip galvanized and yellow plastic-coated, with black signal stripes
- only plastic-coated for indoor use

Execution: Ø 60 mm/48 mm  
2 mm wall thickness Base plate: 160 x 70 x 10 mm  
Drilling hole: Ø 14 mm

The column protection is for anchoring - optionally with a counter plate for concreting.



Dimensions (mm) H x W x D	Shipping weight kg/pc.	coated		hot-dip galvanized		hot-dip galvanized and coated	
		Article	€/St.	Article	€/pc.	Article	€/pc.
600 x 520 x 520 Inside: 400 x 400	14.5	200.26.557		200.22.925		200.20.623	
600 x 620 x 620 Inside: 500 x 500	16	200.28.694		200.29.787		200.23.561	
600 x 720 x 720 Inside: 600 x 600	17.5	200.24.782		200.26.195		200.29.660	

You need 8 fastening elements. You can find suitable material on pages 74/75.

Counter plate for embedding in concrete (4 pcs. per bracket)

200.20.157





- i*
  - Made of plastic
  - Easy installation
  - Customizable
  - Floor-friendly
  - Cost-effective



MORION column protection  
Plastic ECO

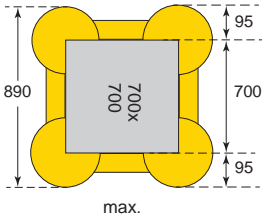
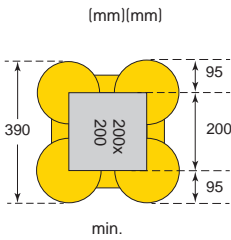
Simple, effective protection of rectangular columns against impact damage. Particularly suitable when full surface wrapping of the column is not necessary.

Consists of four identical side parts that are plugged together and fixed with the supplied screws. The adjustment to different column sizes is done by simply cutting the cross beams on site. The cross beams are already provided with scales at a distance of 50 mm.

Made of modified, yellow-colored polyethylene.

Suitable for columns with a side length of 200 mm to 700 mm.

Floor-friendly: No need for doweling, as it is directly connected to the column in a form-fitting manner.



Execution	Column size (mm)	External width (mm)
Column protection Plastic ECO	min. 200 x 200 max. 700 x 700	min. 390 x 390 max. 890 x 890



	Dimensions (mm) per side part H x W	Versandg ew.kg/St.	Article	€/piece
Set of 4 side parts	1,000 x 770	19.7	206.23.751	



- i**

  - High-quality plastic
  - Customizable to column size
  - For indoor and outdoor use
  - Easy installation
  - Floor-friendly
  - TÜV certified

## MORION column protection

### Plastic

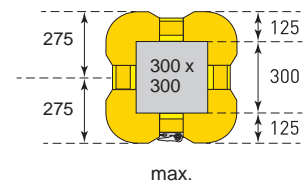
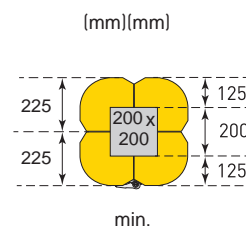
Perfect protection of rectangular columns against impact damage from forklifts, industrial trucks, or lorries.

The side parts of the four individual elements can be pushed into each other and cover all column diameters from 200 x 200 mm to 300 x 300 mm, including rectangular sizes (e.g. 200 x 300 mm).

Made of modified, yellow-dyed polyethylene for particularly high load capacities.

Two tension straps (each 220 cm) ensure a firm connection.

Extension element for expanding column protection by 200 mm each. Thus suitable for column diameters up to 600 x 600 mm. Longer straps (each 400 cm) necessary.



Version	Column size (mm)	External width (mm)
Column protection	min. 200 x 200 max. 300 x 300	min. 450 x 450 max. 550 x 550
Extension element black	min. 400 x 200 max. 600 x 600	min. 650 x 450 max. 850 x 850



	Dimensions (mm)	Shipping weight kg/pc.	Article	upon purchase of €/piece
Column protection	1.100	34	206.28.690	

Accessories	Dimension (mm)	shipping weight kg/piece	item	€/piece
Extension element black	200 x 1.100	5	206.21.704	
Tension strap	4,000 x 50	0.5	206.23.007	



Column and pipe protection

MORION pipe protection 180° large



Protects (fall) pipes, lines, cable ducts, etc. against impact damage.

Quality steel bracket in a semi-circular shape. For mounting and bolting with two base and wall plates each.

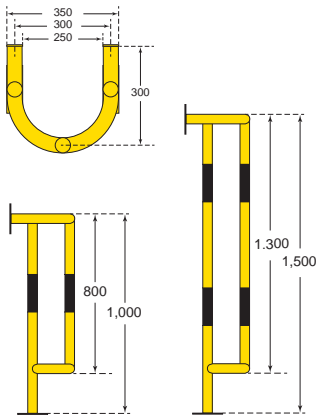
**Surface treatment:**  
hot-dip galvanized and yellow plastic-coated, with black signal stripes

Execution: Ø 48 mm  
2 mm wall thickness floor-/

Wall plate: 150 x 50 x 5 mm  
internal dimensions: 250 x 275 mm (W x D) drill hole: Ø 14 mm

MADE IN GERMANY

- High-quality steel bracket
- Withstands hard impacts
- Easy installation



Dimensions (mm) H x W x D	Shipping weight kg/pc.	Article	€/pc.
1,000 x 350 x 300	15	200.27.919	
1,500 x 350 x 300	21	200.20.402	

MORION pipe protection 180° large for wall mounting



Protects (fall) pipes, lines, cable ducts, etc. against impact damage.

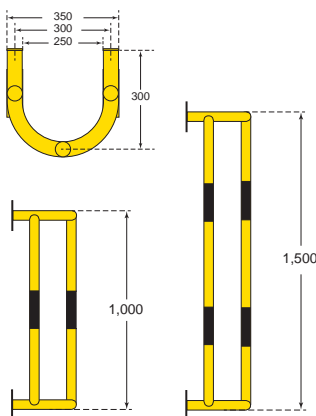
Quality steel bracket in a semi-circular shape. Attachment using four wall plates. This makes the pipe protection variable and can be mounted at the desired height.

**Surface treatment:**  
hot-dip galvanized and yellow plastic-coated, with black signal stripes

Design: Ø 48 mm  
2 mm wall thickness wall panel: 150 x 50 x 5 mm  
Internal dimension: 250 x 275 mm (W x D)  
Borehole: Ø 14 mm

MADE IN GERMANY

- High-quality steel bracket
- Withstands hard impacts
- Easy assembly



Dimensions (mm) H x W x D	Shipping weight kg/pc.	Item	€/pc.
1,000 x 350 x 300	15	200.28.423	
1,500 x 350 x 300	21	200.20.616	

You need 8 fasteners. You can find suitable material on pages 74/75.

## MORION pipe protection small



To protect (fall) pipes, lines, cable bundles, etc. against impact damage.

Steel profile in U-shape for wall mounting. With 4 keyhole drillings for easy hanging: mark, set dowels, hang, tighten.

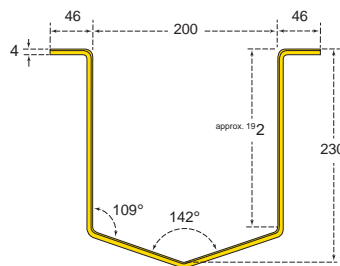
### Surface treatment:

- For outdoor use: hot-dip galvanized
- For indoor use: yellow plastic coated, with black signal stripes

Two heights: 300 and 500 mm  
Execution: 4 mm wall thickness  
Interior dimensions: 200 x 230 mm (W x D)  
Drilling hole: Ø 14 mm

**MADE IN GERMANY**

- For indoor and outdoor use
- For wall mounting
- Easy installation



Execution	Dimensions (mm) H x W x D	Shipping weight kg/pc.	Article	€/piece
hot-dip galvanized	300 x 292 x 230	7	200.26.403	
yellow plastic coated			200.28.445	
galvanized	500 x 292 x 230	12	200.26.783	
yellow plastic coated			200.20.282	

You need 4 fasteners. You can find suitable material on pages 74/75.



All-round protection against impact damage for freestanding pipes and masts. Two-part steel pipe construction made of 48 mm pipe bends.

### Easy installation:

The pipe bends are inserted into each other and screwed together. The thus connected solid unit is anchored with 4 base plates.

### Surface treatment:

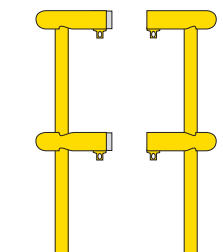
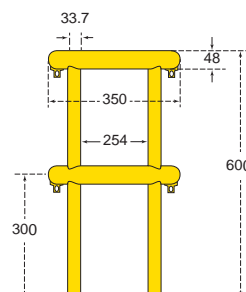
- Hot-dip galvanized
- Hot-dip galvanized and yellow plastic coated  
Height: 600 mm  
Ø outside: 350 mm  
Ø inside: 254 mm

Ø Pipe bend: 48 mm  
Wall thickness: 2 mm  
Stand legs: Ø 33.7 x 2 mm  
Base plates: 115 x 32 x 5 mm

- High-quality steel bracket
- Perfect all-round protection
- Easy assembly



**MADE IN GERMANY**



Execution	Dimensions (mm) H x W x D	Shipping weight kg/pc.	Article	€/pc.
hot-dip galvanized	600 x 350 x 350 Ø inside 254 mm	13	200.26.309	
hot-dip galvanized and yellow plastic coated			200.21.992	

You need 8 fasteners. You can find suitable material on pages 74/75.





- i*
  - Cost-effective protection for wall installations
  - Large selection of heights and widths
  - Optionally for indoors or outdoors
  - Bent from a single piece without weld seams
  - Shipping-optimized base plate

**BLACK BULL  
SafeWall wall  
protection bracket**



MADE IN  
**GERMANY**

Wall installations such as switch boxes, control units, air conditioning units, fire extinguishers, as well as pipes and lines are often susceptible to impact damage. The 48 mm protection bracket made of robust metal reliably protects these sensitive installations. This stable construction effectively prevents costly repairs and contributes to a safe working environment.

**Various designs:**  
 Available in three heights and four widths, thus flexibly adjustable to the object being protected

**Reliable protection:**  
 Robust protection against impacts and damage

**Versatile use:**  
 Ideal for operational areas, warehouses, parking lots, underground garages

Design: Ø 48 mm  
 2 mm wall thickness Base plate: 160 x 70 x 10 mm  
 Drilling hole: Ø 14 mm

The wall protection brackets are anchored to the wall.

plastic coated				
Design	Dimensions (mm) T x B	Shipping weight kg/piece	Article	€/St.
yellow, with base plate	350 x 350	4.6	200.17.5575	
yellow, black stripes, with base plate	350 x 500	4.8	200.17.5576	
	350 x 750	5.5	200.17.5578	
	350 x 1,000	6.1	200.17.5600	
yellow, with base plate	600 x 350	5.7	200.17.5601	
yellow, black stripes, with base plate	600 x 500	6.1	200.17.5604	
	600 x 750	6.6	200.17.5605	
	600 x 1,000	7.2	200.17.5606	
yellow, with base plate	1,000 x 350	7.6	200.17.5607	
yellow, black stripes, with base plate	1,000 x 500	7.9	200.17.5609	
	1,000 x 750	8.5	200.17.5610	
	1,000 x 1,000	9	200.17.5611	

You need 4 fasteners. You can find suitable material on page 74/75.

Available in three heights and four widths:

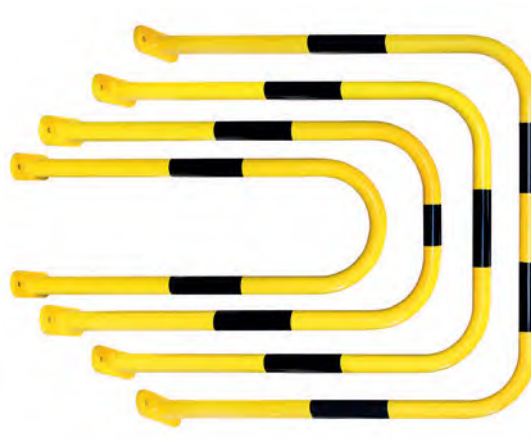
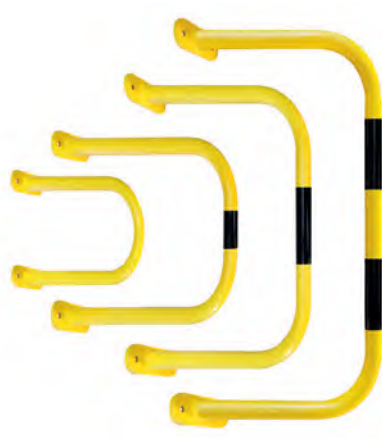
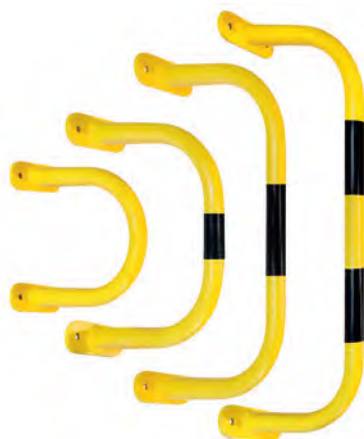
#### Surface treatment:

For indoor use:

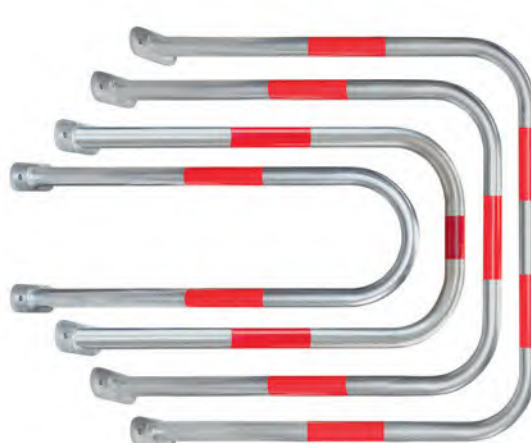
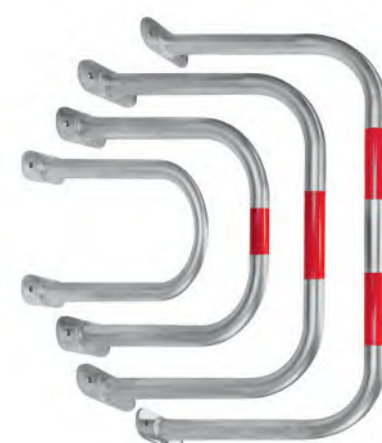
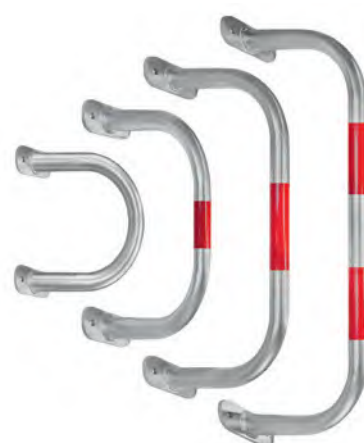
- yellow plastic coated
- yellow plastic coated, with black signal stripes

For outdoor use:

- hot-dip galvanized
- hot-dip galvanized, with red reflective stripes



plastic coated



hot-dip galvanized + red reflective rings

Hot-dip galvanized + red reflective rings				
version	Dimensions (mm) T x B	Shipping weight kg/piece	Article	€/St.
zinc color, with base plate	350 x 350	4.6	200.17.5612	
zinc color, red reflective stripes, with base plate	350 x 500	4.8	200.17.5613	
	350 x 750	5.5	200.17.5614	
	350 x 1,000	6.1	200.17.5615	
zinc color, with base plate	600 x 350	5.7	200.17.5616	
zinc-colored, red reflective stripes, with base plate	600 x 500	6.1	200.17.5617	
	600 x 750	6.6	200.17.5618	
	600 x 1,000	7.2	200.17.5619	
zinc-colored, with base plate	1,000 x 350	7.6	200.17.5620	
zinc-colored, red reflective stripes, with base plate	1,000 x 500	7.9	200.17.5621	
	1,000 x 750	8.5	200.17.5622	
	1,000 x 1,000	9	200.17.5623	

You need 4 fasteners. You can find suitable material on pages 74/75.



## Our fastening solutions - Reliable hold for every application

Discover our wide range of fastening materials that are perfectly tailored to the requirements of your projects. From versatile universal fasteners to powerful through anchors and chemical composite anchors, we offer solutions in three different strength grades. Our high-quality products guarantee you easy assembly as well as reliable and durable hold.

	Universal plug S12 with screw 8/100	Universal plug with screw 14/110	Through anchor 12/110 (for concrete)	Through anchor 16/125	Composite anchor M12/160	Composite anchor M16/190	
							
Strength grade							
Application area	Universal fastening material consisting of dowel and screw, stable solution for many application areas. For drill hole diameter min. 13 mm.		Through anchor for concrete floors for maximum stability and safety. For drill hole diameter min. 13mm.		Composite anchor with nut, U-washer and adhesive cartridge. Extremely strong holding force. For drill hole diameters min. 13 mm.		
Article	109.17.393	109.18.268	109.24.665	109.14.550	109.27.334	109.25.253	
€/pc.							
Railing							
BLACK BULL impact protection railing S-Line, XL-Line	✓	✓	✓		✓		
BLACK BULL sliding door set	✓	✓	✓		✓		
BLACK BULL Column Protection Hybrid	✓	✓	✓		✓		
BLACK BULL Undercarriage Protection Beam	✓	✓	✓		✓		
BLACK BULL Protection Grid Hybrid, rigid	✓	✓	✓		✓		
BLACK BULL Impact Protection Plank, Plank XL	✓	✓	✓		✓		
Bollard							
BLACK BULL Impact Protection Bollard S - L		✓	✓		✓		
BLACK BULL Ram protection post XL - 3XL				✓		✓	
BLACK BULL Ram protection post SWING, Ram protection post FLEX, CITY post	✓	✓	✓		✓		
Bracket							
MORION protective bracket (all sizes)	✓	✓	✓		✓		
BLACK BULL Ram protection bar (for all variants Ø 60 - 76 mm)	✓	✓	✓		✓		
BLACK BULL Ram protection bar XL (for all variants Ø 108 mm)		✓		✓		✓	
CITY safety guard	✓	✓	✓		✓		
Impact protection/barriers/pipe protection							
BLACK BULL Ram protection beam, impact protection, impact protection with guide roller, guide board	✓	✓	✓		✓		
BLACK BULL shelf protection plank (A, B, C)	✓	✓	✓		✓		
BLACK BULL ram protection barrier, floor barrier ECO	✓	✓	✓		✓		
BLACK BULL Ground Barrier Hybrid	✓	✓	✓		✓		
MORION Column Protection	✓	✓	✓		✓		
MORION Pipe Protection (360°, 180°, small)	✓	✓	✓		✓		
SWING versions							
BLACK BULL impact protection railing SWING (S-Line)							
BLACK BULL impact protection railing SWING (XL-Line)							
BLACK BULL Rammschutz-Geländer Hybrid, railing door for hybrid railing							
BLACK BULL Rammschutz-Planke SWING							
BLACK BULL Ram Protection Barrier XL SWING							
BLACK BULL Protection Grid Hybrid, flexible							
BLACK BULL Ram Protection Bracket SWING							
BLACK BULL Impact Protection SWING							
Barrier Post	✓	✓	✓		✓		
Parking Aids							
BLACK BULL Truck Entry Aid, BLACK BULL Ram protection pole truck parking aid						✓	
Scooter parking/bicycle support bracket	✓	✓	✓		✓		
Road bumps							
EasyRide road bump					✓		
Saferide road bump					✓		
TOPSTOP road bump 10	✓		✓		✓		
TOPSTOP road bump 20	✓		✓		✓		
TOPSTOP road hump recycling/TOPSTOPer	✓		✓		✓		

# Protect what matters to you – our flexible fastening solutions

Our special fastening materials have been developed to provide leeway and flexibility while ensuring a secure and reliable fastening. These solutions are designed to minimize or completely avoid damage to materials, vehicles, and floors. With our innovative products, you can securely fasten your objects while protecting the integrity of your equipment and floors.

	Composite anchor M12/300	Through anchor FLEX	Spring element for stand posts, 160 x 140	Spring element for stand posts, 200 x 200	Fastening set for spring element (for 8 drill holes)	Street anchor 10/150	Street anchor 10/110	Rubber dowel 26/127
	Connection anchor with nut, U-washer and adhesive cartridge. Extremely strong holding power. Suitable for asphalt. For minimum drill hole diameter of 13 mm.	Set of 4 through anchors with rubber buffers. For yielding posts and bollards. Suitable for concrete floors. For minimum drill hole diameter of 13 mm.	Spring element made of polyurethane, UV-resistant and permanently elastic. Gives way when starting and returns to the original position. Protects materials and floors, prevents pulled-out dowels.		Mounting set for two spring elements (8 drill holes) with adhesive, dowels, nuts, and washers.	For road bumps for securing on concrete and asphalt. Easy installation, reliable fixation.		Rubber dowels, recommended for high levels of heavy traffic.
	109.25.692	109.21.961	422.23.497	422.21.456	109.20.858	284.24.099	109.22.755	280.11.734
	✓	✓						
	✓	✓						
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	✓							✓





# Floor repair and floor marking

FOR SAFE AND BEAUTIFUL FLOOR SURFACES

Our solutions for floor repair and floor marking offer optimal safety and durability for operational areas. From powerful graffiti and label removers to anti-slip products to precise floor and warning markings – we ensure that floor surfaces remain not only safe but also clean and well visible.

Floor marking anti-	77
slip products	80
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Floor repair	92
Graffiti and label removers	93





*i*

- Durable marking
- Easy application
- Professional solution
- Reflective
- Various symbols and sizes



## PROline-thermo

Thermoplastic road marking

Preformed thermoplastic mass for perfect, permanent, and sharp-edged marking of lines, symbols, letters, numbers, and traffic signs on roads.

The white reflective marking adheres to almost all floors, e.g. concrete, asphalt, tar, composite paving, and tiles. It can be driven over after just 30 minutes. Lasts 5 times longer than floor marking paint.

An optimal adhesion on critical substrates is achieved by using a primer.

### Installation instructions:

- Align form elements on the dry, dust and grease-free substrate.
- Joints between the elements should be smaller than 5 mm.
- Fragments (e.g. from transport) can be easily integrated through the melting process.
- In cold weather: Preheat the substrate with a gas burner.


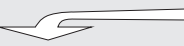
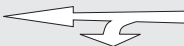




















Only one person and a gas burner are required for installation.

Other colors available upon request (e.g. yellow).

Marking line	Dimensions (mm)	Shipping weight kg/pc.	Article	when purchasing at €/piece.	upon acceptance of €/pc.
50 mm	50 x 1,000	0.3	262.14.318		
75 mm	75 x 1,000	0.4	262.17.550		
100 mm	100 x 1,000	0.5	262.16.291		
	100 x 5,000	2.2	262.18.379		
120 mm	120 x 1,000	0.6	262.14.022		
	120 x 5,000	3.2	262.18.805		
150 mm	150 x 1,000	0.7	262.18.732		
	150 x 5,000	3.2	262.17.412		
250 mm	250 x 1,000	1	262.18.428		
500 mm	500 x 1,000	2	262.14.914		
gas burner		4	262.17.348		
Primer for Bitumen	4.5 kg (19 m2)	6	262.14.507		
Primer for Concrete/Metal	380 ml (for about 1.9 m2)	1	262.21.426		
Dispenser for primer (concrete/metal)			262.29.502		



# Ground marking

Execution		Dimension (mm)	Shipping weight kg/pc.	Article	€/piece
	Arrow straight ahead	1,000	2.5	262.17.539	
		2,500	4.5	262.16.822	
		5,000	8.5	262.19.506	
	Turn arrow right	2,500	4.5	262.16.590	
	Turn arrow left			262.19.162	
	Turn arrow right	5,000	8.5	262.14.083	
	Turn arrow left			262.16.049	
	Arrow straight/right	2,500	4.5	262.17.836	
	Arrow straight/left			262.16.022	
	Arrow straight/right	5,000	8.5	262.13.407	
	Arrow straight ahead/left			262.16.188	
	Triangles/Sawtooth	500 x 600	0.6	262.19.219	
	Symbol "Bicycle"	700 x 500	0.8	262.18.879	
		900 x 800	1	262.17.056	
		1,300	3	262.17.347	
	Symbol "Disabled"	1,000	2.5	262.19.724	
		1,300	3	262.17.797	
	Symbol "Pedestrian"	1,000	2.5	262.18.171	
	Symbol "Electric Car with Plug"	1,000 x 700	3	262.24.084	
	Symbol "Parking Electric Car"	700 x 800	2	262.29.350	
	Letters/Numbers (* exemplary for letter A)	300	0.8	262.14.093*	
		500	1.3	262.19.223*	
		1,000	2.5	262.16.775*	
		1,600	4	262.18.718*	
	Pedestrian crossing	1,000 x 1,000	5	262.13.933	
		1,200 x 2,400	8.5	262.13.623	
	Children	1,000 x 1,000	6	262.19.604	
		1,200 x 2,400	9	262.15.995	
	Yield	1,000 x 1,000	5	262.15.630	
		1,200 x 2,400	8.5	262.18.610	
	Stop! Give way	2,000 x 2,000	21	262.15.574	
		2,500 x 2,500	31	262.15.051	
	Footpath	1,000 Ø	7	262.14.162	
	Shared foot and bike path	1,000 Ø	7	262.17.147	
	Prohibition for cyclists	1,000 Ø	7	262.15.135	
	Bike path	750 Ø	5	262.18.218	
		1,000 Ø	7	262.17.605	
	Limitation zone	600 x 900	8	262.13.413	
		1,200 x 2,000	14	262.15.867	
	Permissible maximum speed (30 km/h)	1,000 Ø	7	262.14.002	
	Absolute no stopping	750 Ø	5	262.16.753	
		1,000 Ø	7	262.18.745	
	Restricted parking ban	750 Ø	5	262.18.021	
		1,000 Ø	7	262.13.616	
	Traffic-calmed area	1,000 x 1,200	13	262.18.896	



Execution		Dimension (mm)	Shipping weight kg/piece	Article	€/piece
	Symbol E-bike with plug	530 x 800	1.49	262.22.370	
		660 x 1,000	2.33	262.28.773	
	Symbol cargo bike	430 x 1,000	1.49	262.29.500	
		580 x 1,350	1.49	262.20.492	
		800 x 1,890	5.00	262.21.446	
	Symbol E-scooter with plug	390 x 500	0.8	262.21.831	
		620 x 800	1.27	262.25.725	
		775 x 1,000	2.20	262.29.718	
	Bicycle street VkZ Z244.1	600 x 900	4.48	262.27.041	
	Bicycle street VkZ Z244.1	1,200 x 2,000	15.18	262.28.408	
	Bicycle fast track VkZ Z350.1	600 x 900	4.48	262.24.937	
	Bicycle fast track VkZ Z350.1	1,200 x 2,000	15.18	262.23.731	
	Symbol Carsharing vehicles	1,000 x 1,000	2.61	262.22.272	
	Charging station for electric vehicles VkZ Z365-65	1,000 x 1,000	7.47	262.20.478	
	Symbol charging station for electric vehicles	1.400 x 1.500	8.66	262.20.712	
	Prohibition for e-bikes	750 Ø	3.73	262.29.503	
		1.000 Ø	6.74	262.24.955	
		1.500 Ø	11.40	262.26.183	
	Prohibition for e-scooters	750 Ø	3.73	262.22.045	
		1.000 Ø	6.74	262.20.502	
		1.500 Ø	11.40	262.26.073	



Anti-slip products



- i**
  - For indoors and outdoors
  - Self-adhesive
  - High abrasion resistance
  - Temperature resistant
  - Easy to install



PROline anti-slip covering

MADE IN  
GERMANY

Self-adhesive anti-slip covering with coarse surface, strong adhesive, and excellent abrasion resistance: 1 million steps. High slip resistance – slip factor R13 (DGUV rule 108-003, previously BGR 181).

For walkways, stairs, entrances and exits, ramps, ladders, vehicles.

- Self-adhesive – easy to install
- Chemical and mineral oil resistant
- UV-stable: suitable for outdoor use
- Temperature range: -40 to +80 °C

Roll goods: Length 18.3 with prefabricated cutouts



**Note:**  
For wet rooms and outdoor use, edge sealing is necessary.



Rolls				
Dimensio ns (mm)	Color	Shipping weight kg/m	Article	€/roll
25	black	1.2	265.15.300	
	gray		265.13.246	
	transparent		265.16.486	
	yellow		265.26.079	
50	black	2	265.13.195	
	gray		265.14.026	
	transparent		265.17.560	
	yellow		265.22.144	
	yellow-black		265.17.329	
100	black	3.5	265.13.274	
	gray		265.19.012	
	transparent		265.16.851	
	yellow		265.20.587	
	yellow-black		265.14.441	
edge sealing, Tube 140 ml (for approx. 1 roll)		0.5	265.18.646	
Adhesion promoter (primer), 1 Ltr. (for approx. 3 sqm)		1,2	265.27.866	

Cuttings				
Dimensio n (mm)	Color	Shipping weight kg/pc.	Article	€/VEVE = 10 pcs.
25 x 800	black	1.0	265.20.485	
50 x 800		1.2	265.25.933	
150 x 610		1.5	265.28.717	

## PROline anti-slip coating deformable



Self-adhesive anti-slip coating on flexible aluminum carrier for structured surfaces.

Coarse surface, strong adhesive, and high abrasion resistance. Slip-resistant: Slip factor R13 (DGUV rule 108-003, previously BGR 181).

For uneven, rough or profiled surfaces (e.g. ribbed, corrugated sheets, ladder steps).

- Self-adhesive – easy to install
- Chemical and mineral oil resistant
- UV stable: suitable for outdoor use
- Temperature range: -20 to +60 °C

Roll goods: Length 18.3 m

Recommendation: Installation with rubber mallet or pressure roller

- For indoors and outdoors
- For structured surfaces
- High abrasion resistance
- UV-stable
- Temperature resistant

**MADE IN GERMANY**



Dimensions (mm)	Color	Shipping weight kg/pc.	Article	€/roll
25	black	1.2	265.29.332	
	yellow		265.25.088	
	yellow-black		265.24.261	
50	black	2	265.28.596	
	yellow		265.20.051	
	yellow-black		265.22.821	
100	black	3.5	265.27.886	
	yellow		265.20.038	
	yellow-black		265.28.229	
150	black	4.5	265.28.107	
	yellow		265.29.244	
	yellow-black		265.24.113	
Profile pressure roller		0.3	265.22.731	

## PROline anti-slip angle made of fiberglass



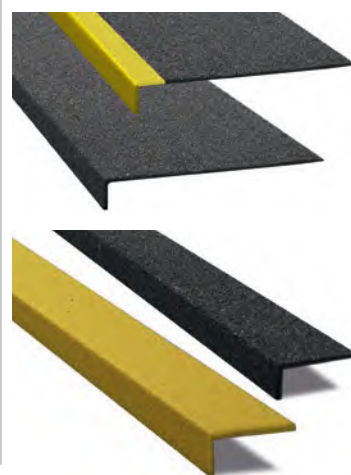
Anti-slip angle for stairs. Made of fiberglass reinforced special plastic (GFRP). Excellent abrasion resistance: 5 million steps. High slip resistance – slip factor R13 (DGUV Rule 108-003, previously BGR 181).

The corners can be screwed onto all substrates (holes to be drilled individually) or glued (structural adhesive to be ordered). Consumption: 350 ml for about 10 m (at 6 mm thickness).

- Easy to lay
- Chemical and mineral oil resistant
- UV stable, non-conductive, flame retardant
- Temperature range: -20 to +120 °C
- Material thickness 3.8 mm



- For indoor and outdoor use
- 5 million steps
- High abrasion resistance
- Temperature resistant
- Easy installation



Dimensions (mm) T x B Flanging 30 mm	color	Vers.ge w.kg/St.	Article	upon purchase of €/piece
70 x 600	black	0.6	265.26.654	
	yellow		265.26.127	
70 x 800	black	0.8	265.23.006	
	yellow		265.22.758	
70 x 1,000	black	1	265.26.096	
	yellow		265.24.780	
230 x 600	black	1.4	265.24.529	
	black, edge yellow		265.22.504	
230 x 800	black	1.9	265.23.269	
	black, edge yellow		265.21.985	
230 x 1,000	black	2.4	265.21.164	
	black, edge yellow		265.27.378	
Structural adhesive for GFRP angles, 350 ml		0.8	265.25.657	



## Floor marking



- For internal company areas
- Extra strong
- Residue-free removable
- In various colors



### Note:

ASR A1.3

### Markings of traffic routes

"The marking of traffic route boundaries must be colorful, clearly recognizable, and continuous. If the marking is applied to the ground, this can be achieved, for example, by using stripes at least 5 cm wide in a highly visible color – preferably white or yellow – with sufficient contrast to the color of the ground surface."

### PROline-tape Self-adhesive Floor marking

More info  
about the  
product:



The extra strong floor marking tape made of high-quality vinyl for internal areas. With this, you can mark paths, roadways, and other boundaries precisely and cleanly.

PROline tape can be removed residue-free from most floors and is therefore particularly suitable for short- and medium-term measures.

### Execution:

Tape length: 33 m

Widths: 50 and 75 mm  
With the TAPEliner – the tape dispenser – you can mark comfortably and effortlessly.



### TIP:

Only compatible with the PROline tapes on page 83











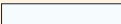







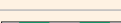
## PROline-tape marking

### set consisting of:

1 tape liner,  
2 rolls of PROline-tape,  
1 chalk line  
and chalk

Color		PROline-tape, marking set 50 mm			PROline tape, marking set 75 mm		
		Shipping weight kg/pc.	Article	€/piece	shipping weight kg/piece	article	€/St.
	white	11.5	261.15.202		12	261.19.212	
	yellow		261.17.297			261.18.900	
	blue		261.14.977			261.16.487	
	red		261.15.660			261.16.560	
	green		261.19.541			261.17.656	
	orange		261.17.130			261.13.748	



Color		PROline tape, 50 mm			PROline tape, 75 mm		
		Shipping weight kg/pc.	Article	when purchasing €/piece.	Shipping weight kg/piece.	Article	when purchasing at €/piece.
	white	1.0	261.16.606		1.2	261.16.619	
	yellow		261.13.796			261.18.798	
	blue		261.19.771			261.15.989	
	red		261.13.752			261.18.675	
	green		261.18.249			261.16.655	
	orange		261.16.322			261.17.531	
	red-white		261.18.826			261.15.954	
	yellow-black		261.17.941			261.13.438	
	green-white		261.17.310			261.19.066	



TAPEliner	Shipping weight kg/pc.	Article	€/pc.
Marking device	10	261.16.528	



# Floor marking



- For indoor and outdoor use
- Highly opaque, durable
- Quick-drying
- Abrasion-resistant, chemical-resistant
- Easy to use
- Available in various colors

## PROline-paint

### Line marking paint

With the PROline-paint marking system, you can mark quickly and effortlessly in indoor and outdoor areas.

PROline-paint line marking paints are highly opaque, abrasion-resistant, chemical-resistant, and adhere to practically all surfaces, e.g. concrete, asphalt, tar, metal, tiles.

Durable and economical marking in large cans of 750 ml. Depending on the substrate and line thickness, one can can perfectly mark 50–90 m with a line width of 50 mm.

Quick-drying – walkable after just a few minutes.

PROline-paint marking devices are track-safe and easy to use: shake the can – insert – drive the marking line – done.

By removing the rear wheels, marking close to walls, shelves, etc. is made possible.

#### PROliner

The easy-to-use mechanism allows for any line width between 50 and 75 mm to be set.

#### ROADliner

Same advantages as the PROliner. With two cans of paint, any line width between 100 and 130 mm can be achieved.

#### HANDliner

Facilitates spraying for marking or labeling work by hand.

PROline-paint marking set – consisting of PROliner, two cans of paint (white or yellow) and chalk line.

*PROline-paint stencil set* made of durable plastic, consisting of letters and numbers.



More info about the product:



#### Note:






PROline-paint line marking paint is not compatible with PROline-paint indoor marking paint and PROline-paint outdoor marking paint.



#### TIP:

When marking plastic floors or floors sealed with plastic, we recommend a test regarding compatibility, drying time, and adhesion of the paint.



Color – 750 ml/can			Shipping weight kg/pc.	Article	upon acceptance of €/piece
	white	~ RAL 9016	1.5	260.11.745	
	yellow	~ RAL 1023		260.11.089	
	orange	~ RAL 2009		260.17.886	
	red	~ RAL 3020		260.12.976	
	green	~ RAL 6024		260.11.015	
	blue	~ RAL 5017		260.12.531	
	gray	~ RAL 7042		260.11.057	
	black	~ RAL 9017		260.11.954	



Marking devices	Shipping weight kg/pc.	Article	€/pc.
<b>PROliner</b> for line widths 50 to 75 mm	5	260.10.174	
<b>ROADliner</b> for line widths 100 to 130 mm	7	260.10.383	
<b>HANDliner</b> Hand marking device	1.5	260.10.437	



Marker set	Shipping weight kg/pc.	Article	€/pc.
PROline paint marking set <b>WHITE</b> consisting of: 1 PROliner; 2 cans of PROline-paint line marking paint white; 1 PROline chalk line, with chalk	8	260.11.610	
PROline-paint marking set <b>YELLOW</b> consisting of: 1 PROliner; 2 cans of PROline-paint line marking paint yellow; 1 PROline chalk line, with chalk		260.10.795	



Stencil set	Shipping weight kg/pc.	Article	€/pc.
Stencil set 15 cm for letters, numbers, and arrows; durable plastic; without fastening	1.5	260.10.503	
Stencil set 30 cm for letters, numbers, and arrows; durable plastic; without fastening	2	260.11.149	



Accessories	Shipping weight kg/pc.	Article	€/St.
PROline-paint chalk line: Line length 30 m. Facilitates the application of an exact guide line	1	260.11.401	
Refill chalk for PROline-paint chalk line	0.5	260.11.117	



Floor marking



- For indoors
- Suitable for forklifts
- Durable
- Abrasion-resistant, chemical-resistant
- Silicone-free
- High coverage, quick-drying
- Various colors



**PROline paint**  
*Hall marking paint*

MADE IN  
**GERMANY**

Extremely durable and resistant one-component paint for indoor use.

For heavily used industrial and workshop floors, storage and sales areas, etc.

Adheres to concrete, asphalt, screed, composite stone, and open-pored tiles.









**TIP:**  
For coated substrates (e.g. epoxy floors), we recommend a compatibility test for the drying time and adhesion of the paint.

Easy to process. Application of paint using a roller (for larger areas), brush, or spray method.

- PROline-paint hall marking paint is:**
- Highly opaque and quick-drying
  - Dirt-repellent, easy to clean
  - Very durable and long-lasting
  - Silicone-free
  - Largely resistant to oil, solvents, and cleaning agents
  - Suitable for forklifts
  - Decorative

Consumption:  
5-liter container for approximately 20 to 25 square meters with one coat.  
  
(Tip: Depending on the floor condition, we recommend 2 coats.)



Color				Shipping weight kg/pc.	Article	€/pc.
	white	matte gloss level	~ RAL 9016	7	263.13.824	
	yellow		~ RAL 1003		263.14.807	
	red		~ RAL 3001		263.18.881	
	blue		~ RAL 5017		263.19.179	
	silver gray		~ RAL 7001		263.13.740	
	stone gray		~ RAL 7030		263.14.968	



- For indoors
- Suitable for forklifts
- Extremely durable
- Resistant
- High coverage
- Solvent-free
- Silicone-free



**PROline paint**  
*2K hall coating*

MADE IN  
**GERMANY**

Extremely durable, resistant, water-based two-component paint. For coating industrial floors indoors.

PROline-paint 2K hall coating is mechanically significantly more load-bearing and chemically more resistant than comparable one-component paints. For heavily used industrial and workshop floors, storage and sales areas, etc.

Adheres to concrete, coated floors, asphalt, screed, composite stone, and open-pored tiles. Easy to process. Color application using a roller or brush.



**TIP:**

For coated substrates (e.g. epoxy floors), we recommend a compatibility test for the drying time and adhesion of the paint.

**PROline-paint 2K hall coating is:**

- Very resistant and durable
- High opacity and quick-drying
- Suitable for forklifts
- Dirt-repellent, easy to clean
- Silicone-free
- Largely resistant to oil, solvents, and cleaning agents
- Decorative

Consumption:

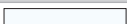




5-l container (3.9 l paint + 1.1 l hardener) for about 20 to 25 sqm with one coat. (Tip: Depending on the floor condition, we recommend 2 coats.)

**2K deep primer**

Solvent-free, colorless primer for pre-treatment of mineral and highly absorbent substrates (e.g. open-pored concrete floors).

Consumption: 4.8-l container for about 40 sqm



Color				shipping weight kg/piece	Article	€/pc.
	white	gloss level satin glossy	~ RAL 9016	7	263.22.815	
	yellow		~ RAL 1003		263.21.637	
	blue		~ RAL 5017		263.23.837	
	silver gray		~ RAL 7001		263.25.357	
	stone gray		~ RAL 7030		263.20.039	
2K deep primer, 4.8 l, solvent-free				5	263.21.889	



Floor marking



- For indoors and outdoors
- Non-slip surface
- Suitable for forklifts
- Durable and long-lasting
- Silicone-free
- High coverage, quick-drying
- Abrasion-resistant, chemical-resistant



**PROline paint**  
*Anti-slip hall marking paint*

MADE IN  
**GERMANY**

Same properties as PROline-paint hall marking paint, but additionally with fine quartz granulate.

Provides a rough, supportive, slip-resistant surface indoors. Slip resistance R10 (DIN 51130/BGR 181).

For heavily used industrial floors. Adheres to concrete, asphalt, screed.

Easy to process: stir the paint and apply with a paint roller or brush. Consumption: 5-liter container for approx. 20 sqm with one coat.





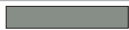
(Tip: Depending on the floor condition, we recommend 2 coats.)

**Note:**  
Also suitable for outdoor use.



**TIP:**  
For coated substrates (e.g. epoxy floors), we recommend a compatibility test for drying time and adhesion of the paint.



Color				Shipping weight kg/pc.	Article	€/piece
	white	Gloss level matte	~ RAL 9016	7	263.23.941	
	yellow		~ RAL 1003		263.24.370	
	blue		~ RAL 5017		263.25.507	
	silver gray		~ RAL 7001		263.26.072	
	stone gray		~ RAL 7030		263.24.599	



- i**
  - High coverage and quick-drying
  - Abrasion-resistant and weatherproof
  - Ready for immediate use
  - With brush
    - or can be ordered as a role
  - Silicone-free and oil-resistant
  - Available in 6 colors



**PROline-paint**  
*External marking paint*

MADE IN  
**GERMANY**

High-quality, single-component marking paint with extremely low abrasion. Specifically designed for operational and local area marking of surfaces and stripes. For repairing local road markings.

Adheres to concrete, screed, asphalt, and paving stones. Easy to process. Application of paint using a roller (for larger areas), brush, or spray method.

**PROline-paint external marking paint is:**

- Highly abrasion-resistant
- Quick-drying and highly opaque
- Excellent adhesion
- Very resilient and durable
- Largely resistant to oil
- Silicone-free

Consumption: 5-liter container for approximately 25 sqm with one coat. (Tip: Depending on the surface condition, we recommend 2 coats.)

**Ground stencil E-parking lot**  
Ground stencil made of reinforced special cardboard with E-car pictogram. For spraying with PROline-paint spray paint or for rolling the paint. Reusable.



Color		Shipping weight kg/pc.	Article	€/pc.
	white	7	~ RAL 9016	263.22.420
	yellow		~ RAL 1023	263.25.624
	red		~ RAL 3020	263.23.804
	blue		~ RAL 5017	263.21.512
	gray		~ RAL 7043	263.25.110
	green		~ RAL 6018	263.28.934

		Shipping weight kg/pc.	Article	when purchasing at €/pc.
Floor template	Dimensions E-car: 700 x 1,000 mm	1.0	260.22.347	
PROline-paint spray white	Content: 750 ml	1.5	260.11.745	



# Floor marking

PROline-tape vinyl forklift suitable floor marking



Especially strong floor marking tape (1000 my) made of high-quality vinyl for internal areas. For precise and permanent marking.

PROline-tape vinyl is strongly adhesive, durable, and long-lasting. Can be driven over by pallet trucks, forklifts, and cleaning machines. (Rotational movements of warehouse vehicles on the tape should be avoided.)

**Execution:**

Tape length: 25 m

Widths: 50 and 75 mm

With anti-slip embossing – R10

- i

  - For internal areas
  - Forklift suitable
  - Made of vinyl
  - With anti-slip embossing
  - Permanent
  - In various colors



Color	Tape length (m)	50 mm			75 mm		
		Shipping Weight kg/pc	Article	€/piece	Shipping weight kg/piece	Article	€/St.
white	25	2.0	261.27.044		2.5	261.28.523	
yellow			261.24.239			261.24.227	
blue			261.26.957			261.25.412	
red			261.21.702			261.29.359	
green			261.28.007			261.28.249	
yellow/black			261.26.263			261.27.320	

PROline-tape steel forklift stable floor marking



Extra strong floor marking tape (700 my) made of colored flat steel for internal areas. For precise marking on smooth and even floors.

PROline tape steel is strongly adhesive, durable, and long-lasting. Can be driven over by pallet trucks, forklifts, and cleaning machines. Withstands limited rotational movements of industrial trucks.

**Version:**

Band lengths: 1.5 m and 6 m

Width: 75 mm

- i

  - For internal areas
  - Forklift resistant
  - Made of flat steel
  - Permanent



Color	Band length (m)	Shipping weight kg/each	Article	€/each
yellow	1.5	1.0	261.22.021	
	6	1.7	261.27.500	



- i**
- For internal company areas
  - Forklift-proof
  - Made of flat steel
  - Permanent

**TIP:**  
According to ASR A1.3 Section 5.2, permanent obstacles or danger spots are marked in yellow-black and temporary obstacles or danger spots are marked in red-white.

## Warning marking self-adhesive

Accidents often occur because danger spots, bump and trip edges were not marked immediately.

Self-adhesive warning tape, quick to apply and inexpensive. Adheres to smooth, dust-free surfaces. Firm, permanently adhesive and safe – yet removable if necessary.



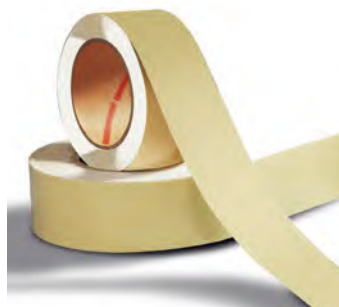
### Non-reflective

Inexpensive, self-adhesive warning tape for quick marking indoors. Good warning effect during the day.



### Retroreflective

High-quality and durable self-adhesive warning tape for permanent marking indoors and outdoors. UV resistant. Very good warning effect in all lighting conditions.



### Long-lasting glow-in-the-dark

High-quality adhesive tape for permanent marking indoors. For passages, escape routes, and walls (as part of a safety system according to DIN 67 510). Dangerous installations, obstacles, or stairs are recognizable even in darkness and smoke. Long-lasting glow-in-the-dark framed safety installations and emergency exits are clearly visible even from a great distance.

Version	Dimension	Color	Shipping weight kg/pc.	article	upon purchase of €/piece.
<b>Non-reflective</b> Directional role	60 mm x 66 m	red-white	0.5	420.11.054	
		yellow-black		420.11.965	
<b>Retroreflective</b> 2 rolls (1 directional to the right and 1 to the left)	at 50 mm x 25 m	red-white	1	420.11.114	
		yellow-black		420.12.062	
<b>Long afterglow</b> 1 roll	25 mm x 25 m	single color glow-in-the-dark (lux white)	0.2	420.18.600	
	50 mm x 25 m		0.4	420.15.285	



# Floor repair

## Restore floor repair



A repair mixture for three different substrates: concrete, (cast) asphalt, screed

Extremely durable and resistant three-component mixture with fast-reacting binder for short curing times.

Freely moldable. For repairing unevenness, holes, and large cracks. Also for shaft renovation. Also for height adjustment, for designing ramps, loading aids, etc.

- Easy handling
- Very wear-resistant and durable
- No interaction with silicones
- Drivable after a few minutes (20 to 30 min at +20° C)
- Neutral, dark color (RAL 7021)

Consumption:

approx. 9 kg/sqm (at 6 mm

layer thickness) Packaging: 17.2 kg of which:

12 kg quartz sand (filler), 5 kg binder and 0.2 kg hardener

**MADE IN GERMANY**

- i

  - Wear-resistant and long-lasting
  - Freely moldable
  - Quick-drying
  - Easy application
  - For all common floors



Container size	Shipping weight kg/piece.	Article	€/pc.
12 kg quartz sand, 5 kg binder, 0.2 kg hardener	18	266.27.978	

## Restore easy repair floor repair



Complete floor repair set for smaller repairs of damaged areas.

Usable on bitumen-containing substrates, e.g. (cast) asphalt.

Extremely durable, resistant, and thanks to quick curing (about 20 min at +20° C) can be driven on after a short time. Neutral, dark color (approx. RAL7021).

The complete set consists of:  
10 kg of quartz sand (including activator) 1.25 kg of binder  
1 mixing bucket

Fill mixing bucket (= shipping bucket) with binder, add quartz sand and mix with stirring tool. Done.

Consumption:

approx. 9 kg/sqm (at 6 mm layer thickness)

Easy Repair is not moldable – for this, Restore floor repair is suitable (see page 92).

**MADE IN GERMANY**

- i

  - For small repairs
  - Wear-resistant and durable
  - Fast curing
  - For all common floors



Package size	Shipping weight kg/pc.	Article	€/St.
Set including mixing bucket: 10 kg sand, 1.25 kg hardener	12.5	266.20.652	

# Floor Repair/Graffiti and Label Remover

## Joint Repair Restoration



Extremely durable and resistant two-component mixture with fast-reactive binder for short curing times.

For quick, permanent filling of joints, deep cracks, or holes. Loadable after just 60 minutes (at +20 °C).

Permanently elastic, therefore particularly suitable for heavily used floors. Additionally prevents further stress cracks.

For various substrates: concrete, asphalt, screed

- Mechanically highly loadable
- Self-leveling
- Very wear-resistant and durable
- No interaction with silicones
- UV and weather resistant
- Solvent-free
- Neutral, dark color (RAL 7021)

Consumption: 1 kg/m for joint 20 x 50 x 1,000

Packaging: 5 kg elastic resin and 0.2 kg hardener



**Note:**  
Joint width: at least 5 mm



- **MADE IN GERMANY**
- For indoor and outdoor use
- Permanently elastic
- Wear-resistant and durable
- Self-leveling
- For all common floors



## graffitiCRACK Graffiti Remover and Label Remover P



- **MADE IN GERMANY**
- Extremely gentle
- Quick acting
- Biodegradable

Gel-based graffiti remover. Highly effective thanks to nanotechnology. Removes spray paints, markers, and various adhesives.

The novel active system does not "etch" the paint away, but causes the coating to swell and separates it from the substrate.

Works on all mineral substrates as well as on glass, metal, wood, 2-component paints.

- No smearing, no shadow formation
- Quick acting: 2 to 10 min

Apply graffitiCRACK with a brush. The paint swells up and is broken down into the smallest parts. Then wipe off with a damp brush and rinse with water. Done!

Consumption: 1 liter for up to 10 sqm  
Container size: 1 and 10 liters

It is also based on the same principle

**graffitiCRACK label remover P** for the effortless removal of stickers, adhesive residues, and labels from paper. Acts quickly and powerfully, without attacking the substrate.

- Spray bottle for easy handling
- Suitable for metal, glass, ceramics, wood, plastic

Container size: 500 ml spray bottle



**TIP:**  
For printed or painted surfaces, check material compatibility.



Container size	Shipping weight kg/pc.	Item	€/piece
5 kg elastic resin, 0.2 kg hardener	6	266.20.698	

Execution	Container size	Shipping weight kg/piece	Article	€/St.
graffitiCRACK Graffiti Remover	1 Ltr.	1,2	267.20.224	
	10 Ltr.	10.5	267.26.321	
graffitiCRACK Label Remover P	500 ml	0.6	267.27.100	



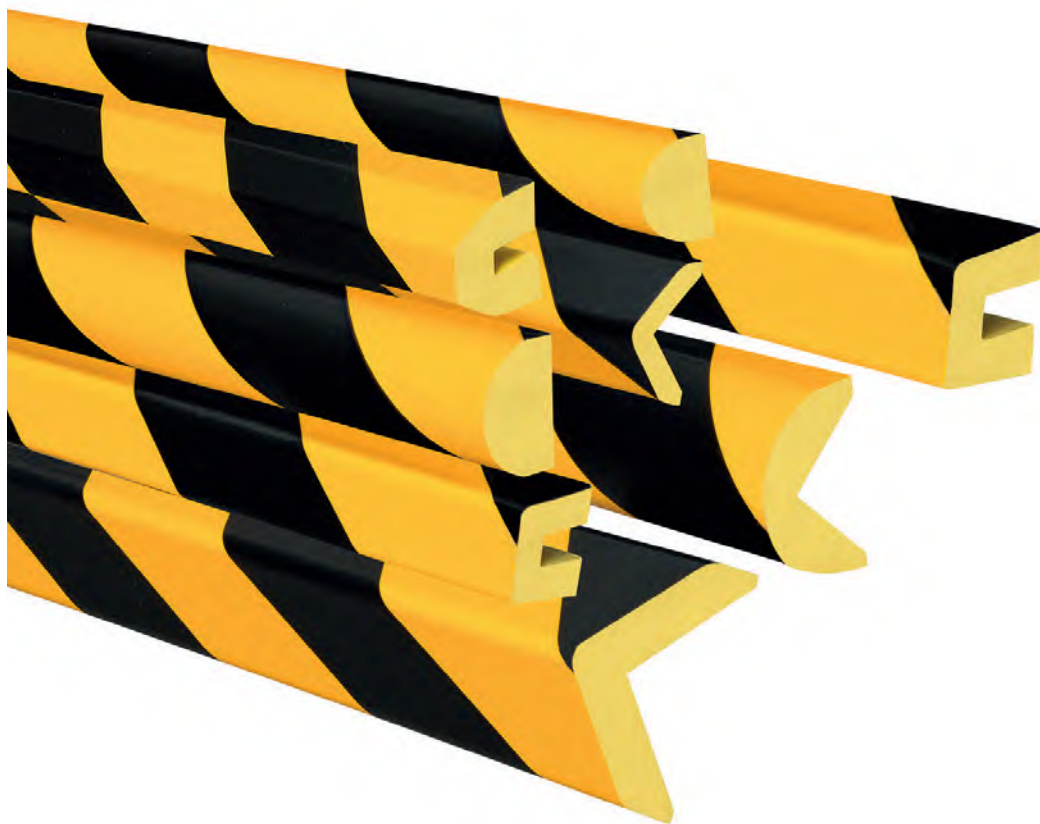


# Warning and protection profiles

## AVOIDING IMPACTS AND SCRATCHES

Our warning and protection profiles provide optimal protection against impacts and damage while also offering a clearly visible marking. Whether robust impact protection or reliable wall protection – our solutions protect both walls and equipment as well as employees from impacts and injuries, to increase safety in the workplace.

Impact protection	95
Wall protection	102



## MORION impact protection

1m length

Warns and protects against danger areas. Neutralizes corners and edges, prevents impact injuries.

The self-adhesive elements adhere permanently and securely to smooth, cleaned, dust-free, and degreased surfaces, corners, and edges.

High-quality protective elements made of flexible, aging-resistant polyurethane foam with protective film.

- UV and solvent resistant, silicone-free
- Temperature resistant from -40°C to +100°C
- Brand classification B2
- For indoor and outdoor areas
- Easy cutting possible (knife)



- Protective strips made of recycled paper

### Areas of application:

On machines, vehicles, mobile inventory, walls, beams, and passages. In storage, shipping, production areas, on transport routes, in laboratories, clinics.

### Execution:

Length: 1,000 mm

Color: yellow-black Other colors available upon request (e.g. red-white or solid black) Easy installation: The protective elements are equipped with adhesive strips or are simply pushed onto the profiles to be secured.

(TIP: For extreme loads, additionally secure with commercially available PU glue.)




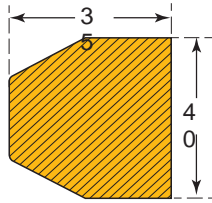
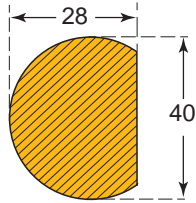
- For indoors and outdoors
- High-quality PU foam
- Absorbs even hard impacts
- Yellow-black (according to ASR A1.3)
- UV and solvent resistant
- Temperature resistant


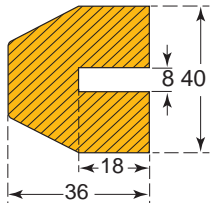
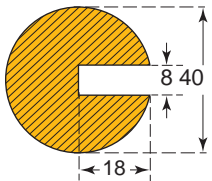
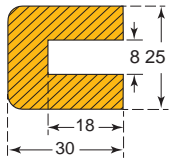



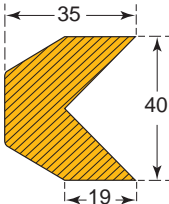
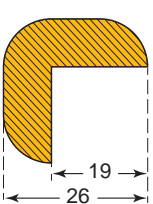
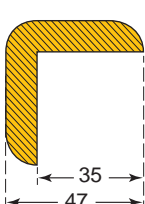
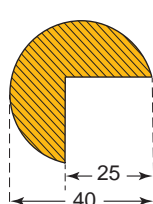
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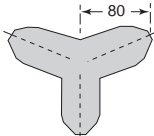
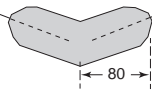
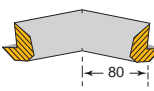
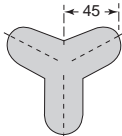
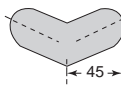
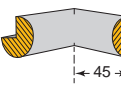
For installation, practical 1-meter pieces have proven effective. For longer distances, 5-meter pieces are more advantageous.



Surface protection	Trapezoid 40/35	Circle 40/28
Fastening:	self-adhesive	
		
Shipping weight kg/piece	0.9	0.8
Article:	422.23.025	422.22.446
Price €/pc from 1 piece		
Price €/pc from 5 pieces		

Profile protection	Trapezoid 40/36/8	Circle 40/40/8	Rectangle 30/25/8
Mounting:	for plugging on		
			
Shipping weight kg/piece	0.8	0.8	0.6
Article:	422.21.711	422.24.672	422.24.758
Price €/pc from 1 piece			
Price €/pc from 5 pieces			


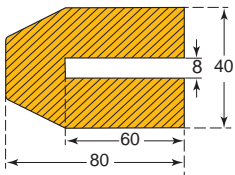

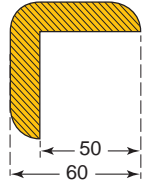
Edge protection	Trapezoid 40/35	Store 26/26	Angle 47/47	Circle 40/40
Mounting:	self-adhesive			
				
Shipping weight kg/piece	0.7	0.4	0.8	0.6
Article:	422.29.433	422.28.546	422.22.200	422.23.691
Price €/pc. from 1 piece				
Price €/pc. from 5 pieces				


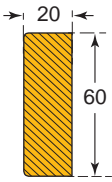
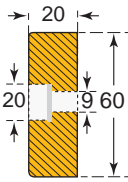
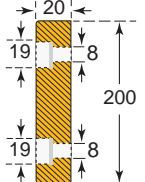
Accessory edge protection, black	TRAPEZOID edge length inside 80 mm			KREIS edge length inside 45 mm		
	Outer corner, three-legged	Outer corner, two-legged	Inner corner, two-legged	outer corner, three-legged	outer corner, two-legged	Inner corner, two-legged
Fastening:	self-adhesive					
						
Shipping weight kg/piece	0.2	0.2	0.2	0.2	0.2	0.2
Article:	422.18.641	422.16.525	422.18.012	422.19.578	422.18.356	422.17.839
Price €/piece						


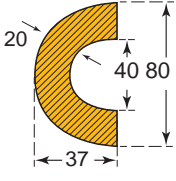
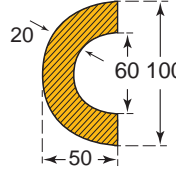
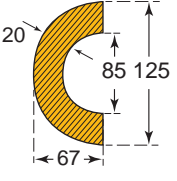
**Now NEW with improved adhesive tape**


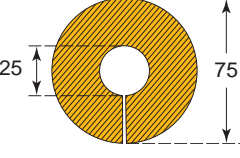
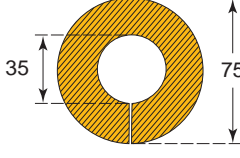
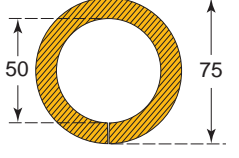
**MADE IN  
GERMANY**

MORION impact protection special profiles made of black PU with yellow painted stripes, fire classification UL94, temperature resistance from -40°C to +90°C, length 1,000 mm. Otherwise, the product criteria on page 95 apply.

Profile protection	Trapezoid 40/80/8	Edge protection	Angle 60/60
Mounting:	for plugging on	Fastening:	self-adhesive
			
Shipping weight kg/piece	0.7	Shipping weight kg/piece	0.8
Article:	422.15.601	Article:	422.18.566
Price €/pc from 1 piece		Price €/pc from 1 piece	
Price €/pc from 5 pieces		Price €/pc from 5 pieces	

Surface protection	Rectangle 60/20	Rectangle 60/20 with 3 holes	Rectangle 200/20 Length 500 mm with 4 holes
Attachment:	self-adhesive	for screw mounting	
			
Shipping weight kg/piece	0.7	0.7	1.2
Article:	422.19.912	422.19.509	422.15.592
Price €/piece from 1 piece			
Price €/piece from 5 pieces			

Pipe protection	Arch 40 (for pipes 30 – 50 mm Ø)	Sheet 60 (for pipes 50 – 70 mm Ø)	Arc 85 (for pipes 70 – 100 mm Ø)
Fastening:	self-adhesive		
			
Shipping weight kg/piece	1	2	2.5
Article:	422.16.740	422.17.049	422.17.488
Price €/piece from 1 piece			
Price €/pc from 5 pieces			

Full pipe protection	Circle 25/75	Circle 35/75	Circle 50/75
Mounting:	for clipping with slot		
			
Shipping weight kg/piece	1.5	1.5	1.3
Article:	422.22.400	422.29.721	422.29.595
Price €/pc. from 1 piece			
Price €/pc. from 5 pieces			





## MORION impact protection

5 m length

MADE IN  
GERMANY

Ideal for longer distances. High protection and warning effect. Mitigates corners and edges, prevents impact injuries.



Adheres permanently and securely to smooth, cleaned, dust-free, and degreased surfaces, corners, and edges.

High-quality protective elements made of flexible, aging-resistant polyurethane foam:

- Temperature resistant from -40° C to +90° C
- Fire classification UL94
- For indoor and outdoor areas
- Easy to cut (knife)

### Design:

Roll: 5,000 mm

Color: yellow-black 10 profiles

available – more on request.

- For indoors and outdoors
- Yellow-black (according to ASR A1.3)
- UV and solvent resistant
- Temperature resistant
- 5 m roll

Variable edge protection profile for angles up to 160 degrees (self-adhesive)



422.28.508



### Note:

For longer distances, 5-meter pieces are advantageous. For shorter distances, we recommend the practical 1-meter pieces.

Profile	Edge protection Angle 26/14	Surface protection Circle 40/32	Surface protection Rectangle 150/20	Surface protection rectangle 50/20	Area Protection Rectangle 40/11
Attachment:	self-adhesive				
Shipping weight kg/pc.	2.2	2.5	9.9	2.7	2.4
Article:	422.28.508	422.29.052	422.28.090	422.29.669	422.27.694
Price €/pc.					

Profile	Edge Protection Angle 26/26	Edge protection Angle 47/47	Edge protection Circle 40/40	Profile protection Circle 40/40/8	Profile protection Rectangle 25/30/8
Fastening:	self-adhesive			for plugging on	
Shipping weight kg/pc.	2.2	2.7	2.3	2.4	2.2
Article:	422.26.236	422.22.011	422.24.291	422.23.704	422.29.978
Price €/pc.					



*i*

- For indoors
- High-quality EVAC foam
- Compliant with ASR A1.3
- Oil and solvent resistant
- Temperature resistant



MORION Impact Protection XL

Impact protection in XL version. Prevents impact injuries, warns of danger areas, softens corners and edges.

The elements adhere permanently and securely to smooth, cleaned, dust-free, and degreased edges and profiles.

**Areas of application:**

For machines, railings, columns, shelves. In the storage, shipping, production area.

High-quality protective elements made of EVAC foam:

- Temperature resistant from -20 to +60°C
- tested according to EN 13501-1 and ISO 11925-2
- For indoor areas

**Execution:**

Length: 1,000 mm

Diameter: 100 or 150 mm

Color: yellow-black


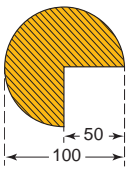
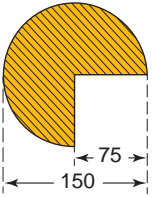
**Mounting:**


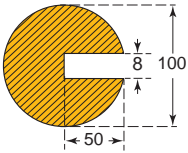
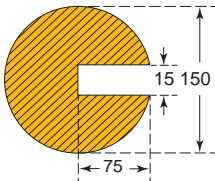
Self-adhesive (edge protection) or for clipping on (profile protection)



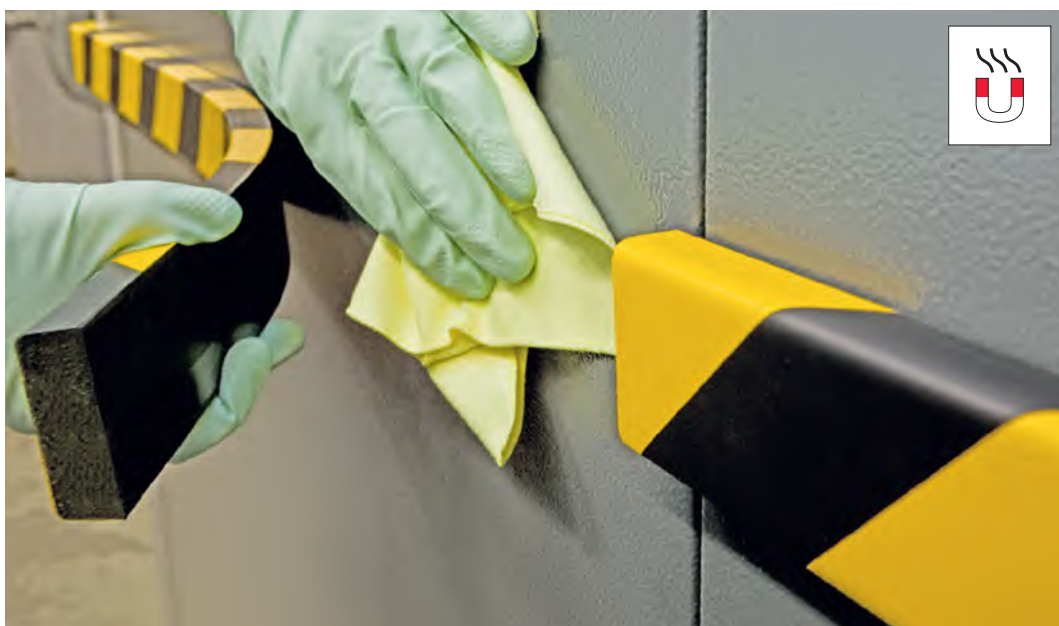
**Easy installation:**

The protective elements are equipped with adhesive strips or are simply clipped onto the areas to be secured.

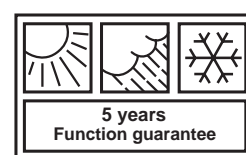
Edge protection	Circle 100	Circle 150
Mounting:	self-adhesive	
		
Shipping weight kg/piece.	1	1.3
Article:	422.24.373	422.21.092
Price €/piece		

Profile protection	Circle 100	Circle 150
Attachment:	for plugging on	
		
Shipping weight kg/pc.	1.1	1.4
Article:	422.26.991	422.25.576
Price €/piece		





- i**
- For indoors
  - Yellow-black (according to ASR A1.3)
  - UV and solvent resistant
  - Temperature resistant



**MORION impact protection**  
*magnetic*

MADE IN  
**GERMANY**

Innovative fastening through integrated, foamed magnetic strips – flush with the surface.

Easy attachment to all metallic surfaces (steel beams, cabinets, frames). Easily adjustable and removable – e.g. for cleaning work. Also for temporary applications

High-quality protective elements made of flexible, aging-resistant polyurethane foam:

- UV and solvent resistant, silicone-free
- For indoors
- Temperature resistant from - 20 °C to +90 °C
- Fire classification UL94

**Execution:**

Length: 1,000 mm

Color: yellow-black  
Almost all profile types can be equipped with magnets.

magnetic	Edge protection Trapezoid 40/40	Edge protection Angle 30/30	Edge protection Angle 60/60	Edge protection Circle 40/40	Pipe Protection Bend 40
Shipping weight kg/piece.	0.7	0.5	0.8	0.7	1
Article:	422.23.243	422.24.979	422.25.253	422.20.276	422.21.293
Price €/pc. from 1 pc.					
Price €/pc. from 5 pcs.					

magnetic	Pipe Protection Bend 60	Rohrschut zBogen 85	Area Protection Trapezoid 40/40	Area Protection Circle 40/32	Area Protection Rectangle 60/20
Shipping weight kg/pc.	2	2.5	0.7	0.7	0.7
Article:	422.22.247	422.20.581	422.26.582	422.27.977	422.20.678
Price €/pc. from 1 pc.					
Price €/pc. from 5 pcs.					



*i*

- White through-colored
- Temperature resistant
- UV and solvent resistant
- Silicone-free



MORION **impact protection**  
*white*

MADE IN  
**GERMANY**

Specifically developed for areas where the protective function prevails and the warning effect is less significant. Ideal for hospitals, laboratories, food industry, clean rooms.

High-quality protective elements made of flexible polyurethane foam:

- No open-pore surfaces
- Temperature resistant from -40 °C to +90 °C
- Fire classification UL94
- Also for outdoor use

**Design:**  
Length: 1,000 mm  
Color: white 7 profiles available – others on request.


white	Profile protection Circle 40/40/8	edge protection Angle 30/30	edge protection Circle 40/40	Area Protection Circle 40/32
Mounting:	for plugging in	self-adhesive		
Shipping weight kg/pc.	0.7	0.5	0.7	0.7
Article:	422.18.250	422.15.712	422.15.039	422.18.541
Price €/pc. from 1 pc.				
Price €/pc. from 5 pcs.				

white	Surface Protection Rectangle 60/20	Circle, outer corner, three-legged	Circle, outer corner, two-legged
Fastening:	self-adhesive		
Shipping weight kg/pc.	0.7	0.2	0.2
Article:	422.18.163	422.14.008	422.17.487
Price €/pc. from 1 pc.			
Price €/pc from 5 pcs.			

5 years  
Function guarantee





- 
  - For indoors and outdoors
  - For corner and round columns
  - With steel sheet
  - UV resistant



MORION impact protection  
for columns

MADE IN  
GERMANY

Designed to protect columns, e.g. in parking lots and underground garages. Prevents expensive and annoying damage to vehicles.

Suitable for rectangular and round columns as well as for walls, wall projections, passages, beams, etc.

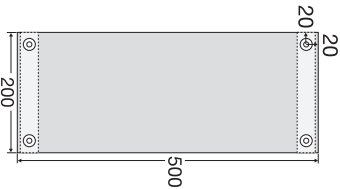
Yellow-black protective profile with two embedded steel sheets for permanent fastening (anchors).


High-quality protective elements made of flexible, aging-resistant polyurethane foam:

- UV-resistant signal colors according to DIN 4844
- Temperature resistant from -40 °C to +90 °C
- Fire classification UL94
- Suitable for indoor and outdoor areas
- Silicone-free



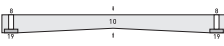
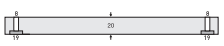
**Design:**  
(L x W x H) 500 x 200 x 20 mm  
Color: yellow-black





**TIP:**  
We recommend that when using rectangular columns, the protective profile should not be flush, but rather installed with a little "play" – this increases the absorption effect.



Column protection	For doweling on corner columns	For doweling on Round columns
		
Shipping weight kg/pc.	1.6	1.6
Article:	422.16.620	422.18.949
Price €/pc. from 1 pc.		
Price €/pc. from 5 pcs.		

## MORION Ramp Fender



Optimal impact protection due to high force absorption. For ramps, walls, forklifts, and vehicles.

High-quality elastic protective profiles made of wear-resistant, aging and weather-resistant polyurethane with embedded steel perforated plate and mounting holes.

For vertical and horizontal installation.

Three cross-sections for graduated force absorption.

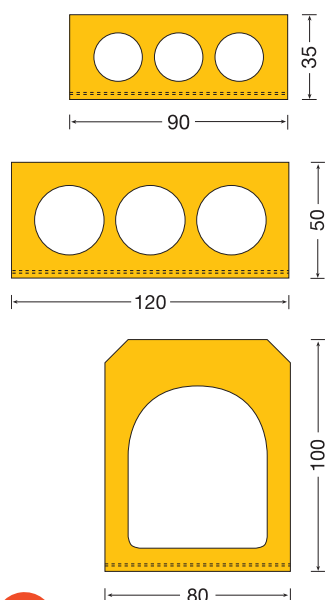
Other lengths on request (from 5 pieces).

Mounting dowels are not included in the delivery.



**i** • **MADE IN GERMANY**

- Made of polyurethane
- With perforated sheet insert
- Elastic
- Weather-resistant
- Three cross-sections



**Note:**  
Fire classification UL94

Execution	Length (mm)	Shipping weight kg/pc.	Article	€/piece
Ramp fender 35/90	1,000	4	422.15.292	
Ramp fender 50/120		6	422.16.763	
Rampenfender 100/80		7	422.19.641	

## Bumper

Loading ramp protection

**NEW**



**i** • Versatile

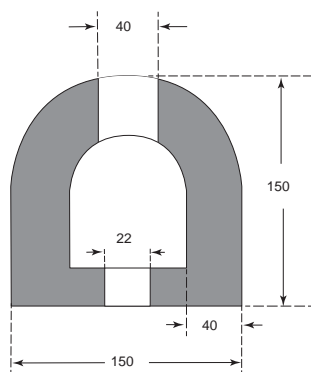
- Effective protection
- Durable and flexible
- Easy installation

**i** • Robust protection thanks to integrated steel reinforcement

- Versatile application
- Effective damage prevention

This flexibly applicable protective element is suitable for warehouses, parking garages, and (underground) garages. It effectively protects against damage in confined space conditions.

Suitable for indoor and outdoor use. Including mounting material: 3 x through anchors M8 x 120 mm



This protective element in hollow D-shape made of black rubber with steel reinforcement reliably protects against damage, absorbs hard impacts, and provides reliable protection even under high loads.

Ideally suited for loading ramps, storage, shipping, docks, and body construction.

Including fastening material:  
3 x through anchors  
M8 x 120 mm



Color	L x H x D (mm)*	integrated steel reinforcement	Shipping weight kg/pc.	Article	€/St.
yellow-black	1,000 x 50 x 160	–	4.9	422.17.5846	
black	900 x 100 x 100	890 x 40 x 5	9.6	422.17.5847	
black	900 x 150 x 150	890 x 50 x 5	20	422.17.5848	



Wall protection



- i*
  - Extremely impact and shock resistant
  - Shape-retaining and cold-resistant
  - Fire protection class B2
  - Insensitive to cleaning agents
  - Easy installation



MORION scratch protection

MADE IN  
GERMANY

Versatile profiles made of HDPE (High Density Polyethylene) for the protection of walls. Particularly suitable for rooms and corridors in public buildings, nursing homes, waiting rooms, industrial/craft businesses, and retail. Also suitable for use in wet areas.

Extremely impact and shock resistant, through-colored polyethylene. Shape-retaining and cold-resistant down to -30 °C. Easy to care for, physiologically harmless, and resistant to common cleaning agents.

Simple assembly using 6 mm countersunk screws (not included in the delivery). The holes are already pre-drilled and will be closed with a color-matching plug (almost invisible).



Color	Dimension (mm) H	Thickness (mm)	Versandgewicht.kg/St.	Article	€/St.
white (approx. RAL 9016)	150	10	3.5	423.14.241	
		20	6.5	423.17.402	
	200	10	4.5	423.18.836	
		20	8.5	423.14.682	
light granite	150	10	3.5	423.14.556	
		20	6.5	423.18.514	
	200	10	4.5	423.15.743	
		20	8.5	423.15.499	



MADE IN  
**GERMANY**

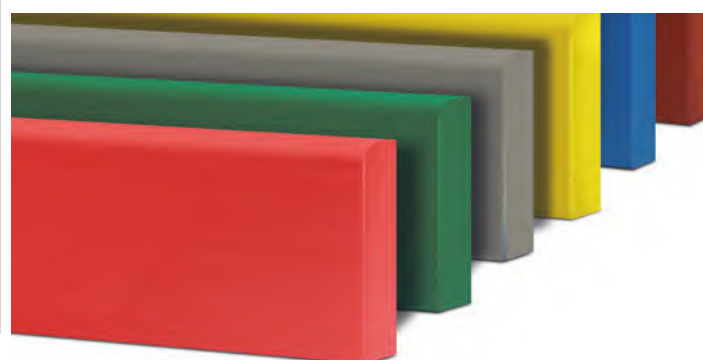
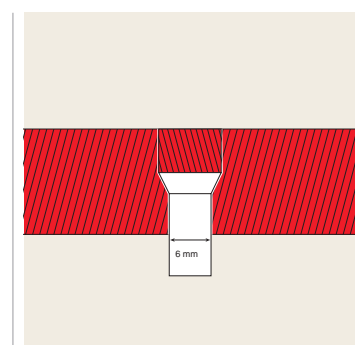
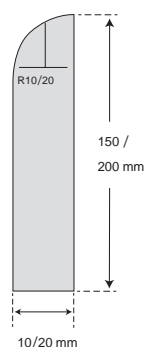
The material can be easily cut on-site with standard woodworking tools (drilling, sawing, milling).

Fire protection class: B2

#### Execution:

Length: 2,060 mm

Other thicknesses, heights, profiles, and colors available upon request (from 10 pieces).



Color	Dimension (mm) H	Thickness (mm)	Shipping weight kg/m.	Article	€/St.
anthracite gray (approx. RAL 7016)	150	10	3.5	423.20.934	
		20	6.5	423.22.484	
	200	10	4.5	423.28.271	
		20	8.5	423.20.395	
black (approx. RAL 9004)	150	10	3.5	423.18.669	
		20	6.5	423.18.122	
	200	10	4.5	423.19.744	
		20	8.5	423.15.908	



## Barrier elements

### OPTIMAL GUIDING AND SECURING

Our barrier elements offer flexible solutions for blocking and control in various areas such as storage, production, shipping, and administration – both indoors and outdoors. From chain and belt stands to warning signs and barrier chains, our products ensure clear demarcations and efficient traffic management.

#### Chain stand 107

<b>Belt stand</b>	111
warning sign	113
Wall belt	114
<b>Accessories</b>	115
Cone belts	116
<b>Belt cassette</b>	117
<b>Barrier chains</b>	119
<b>Barrier posts</b>	118, 122-135





## Chain stand



- Made of plastic
- Lightweight
- Quick and easy to block off
- Three variants
- Extremely cost-effective



### GUARDA

#### Light chain warning stand

For easy, quick, and mobile blocking in storage, production, shipping, and administration. For indoor and temporary outdoor use.

Upper part made of plastic, cap with four integrated chain holders. Low center of gravity, secure stand.

Post with integrated plug connection for secure fixation with the base plate.

Also available as a set: 6 chain stands, 10 m chain (M-Poly-View), 10 connecting links, and 10 hanging hooks.



#### Note:

Maximum distance of the chain stands when using plastic chains: 2.0 m



Execution	Color	Height/Top Ø (mm)	Foot (mm)	Shipping weight kg/pc.	Article	€/piece
Plastic base filled with concrete (triangular)	red-white	870/40	300 SL	3.4	175.13.895	
	black-yellow				175.14.011	
Plastic base fillable (round)	red-white		300 Ø	2	175.16.320	
	black-yellow				175.18.711	
Hard rubber foot(square)	red-white		265 x 265	2.3	175.19.222	
	black-yellow				175.16.601	
Set: 6 chain stands, 10 m chain (M-Poly view), 10 connecting links, 10 hanging hooks						
Plastic foot filled with concrete (triangular)	red-white	870/40	300 SL	20	175.16.146	
	black-yellow				175.13.735	
Plastic foot refillable (round)	red-white		300 Ø	9.5	175.15.850	
	black-yellow				175.17.247	
Hard rubber foot (square)	red-white		265 x 265	12.5	175.19.176	
	black-yellow				175.17.668	



# Chain stand

GUARDA-Plus chain warning stand with heavy base



Chain warning stand made of robust plastic with a heavy, stable base plate (already filled with concrete). Upper part with two integrated chain hooks.

Easy assembly: Insert the upper part into the recess in the base.  
Easy disassembly: Upper part removable for space-saving storage

Delivery is made as a complete set consisting of:  
4 tops  
4 base plates  
12.5 m plastic chain,  
8 mm link thickness

Total height: 900 mm  
Top: Base 50 mm Ø  
plate: 280 x 280 x 45 mm

Set available in red-white or black-yellow.

- For indoor and outdoor use
- Made of plastic
- Stable
- Cost-effective



Color	Height (mm)	Shipping company kg/St.	Article	€/Set
red-white	900	20.7	175.22.245	
black-yellow			175.22.063	

GUARDA-Flex chain warning stand, foldable



Folding chain warning stand made of robust plastic with a heavy base plate (filled with concrete). For indoor and outdoor use. Quickly set up and quickly stored. Extremely space-saving to store.

Top part with two integrated chain hooks.

Top: 50 mm Ø Base plate: 280 x 280 mm

- For indoor and outdoor
- Made of plastic
- Foldable
- Space-saving
- Quick and flexible to use

Also available as a set: 4 chain stands and 10 m chain (M-Poly-View)



Color	Height (mm)	Shipping weight kg/pc.	Article	€/St.
red-white	900	4.5	175.15.959	
black-yellow			175.18.435	
Set: 4 chain stands and 10 m chain (M-Poly-View)				€/Set
red-white	900	18	175.16.132	
black-yellow			175.18.626	

## MORION Chain Warning Stand



Robust, stable barrier and guidance system. Quickly ready for use to block paths and areas or to create pedestrian routes. For hanging barrier chains.

For industry, warehouses, parking garages, open spaces, etc.

The rotatable top of the ball head protects the suspended chain from unauthorized detachment. A turn in the other direction releases the chain for detachment.

Patented ball head made of UV-stable ABS plastic.

Dimensions:  
Base plate: 330 mm Ø  
Top part: 60 mm Ø

Upper part made of painted aluminum. The plastic base can be filled on-site with sand or gravel (13.5 kg). White reflectors ensure good visibility at night.

Option: permanent fixation through four integrated dowel sockets

Accessories chains pages 120/121.

- For indoors and outdoors
- Made of aluminum
- High warning effect
- Very stable
- Cost-effective



Surface	Dimension (mm) H	Shipping weight kg/pc.	Article	€/pc.
 yellow painted	975	2.9	179.16.360	

## EXTERNAL Chain Warning Stand with Eye Cap



Chain warning stand consisting of a guide pin with eyelet cap and heavy base made of recycled PVC. Guide pin fully red-white reflective for good visibility.

In combination with a plastic chain, even larger areas can be easily, flexibly, and cost-effectively delineated. Suitable for both temporary and permanent use.

With the rotatable eyelet cap, any corner variant can be easily realized. Simply pull the plastic chain through the eyelet cap and secure the starting and end posts with a link or hook.

Height with base: 1,100 mm  
Diameter: 100 mm  
Dimensions of the base:  
70 mm Height 570 mm Ø  
Maximum distance of the chain stands: 2.5 m

Accessories chain sides 120/121.

- Made of polyethylene
- With chain attachment
- Red-white reflective
- Stable



Color	Height/ Ø (mm)	Shipping weight kg/pc.	Article	when purchasing at €/pc.
red-white	1.050/100	2.7	290.22.907	
Recycling foot (order separately)		8.5	291.26.009	



Chain stand

EXTERN Heavy chain warning stand with steel base



For permanent and temporary barriers. Flexible handling. Very robust and stable.

Upper part made of steel, hot-dip galvanized and plastic-coated. With two eyelets for hanging a chain. Base tray black, rust-proof painted, with or without carrying handle. Made of 2 mm steel sheet.

Base tray dimensions: 300 x 300 x 100 mm

• Low transport weight, as it can be filled on-site with sand, gravel, etc. (or permanently filled with concrete).

• Steel post can be firmly screwed to the base tray. When moving or repositioning, only the post needs to be lifted.

MADE IN GERMANY

- For permanent blocking
- Made of steel
- Very stable
- Fillable



Execution		Height/ Ø (mm)	Shipping weight kg/piece	Article	€/pc.
Without carrying handle	red-white	1.000/60	7.3	170.10.853	
With carrying handle			8.3	170.10.985	

Equip with reflective red rings (Recommendation = 2 pcs. per post)

EXTERN Heavy chain warning stand with recycling base



For permanent and temporary outdoor barriers. Flexible handling. Very robust and stable.

Steel post hot-dip galvanized and painted, with eye cap. Particularly durable. Solid, round base (15 kg) with grip recess.

Dimension of recycling base: 450 mm Ø

• The chain (6 mm Ø) can be threaded through the eye cap. Aligning the post distances according to the chain length is not necessary.

• Simple insertion of the steel posts into the recycling base for quick assembly and disassembly.



**TIP:**  
The affordable M-DEKO view chain is excellent for this application.

- For permanent blocking
- Particularly durable
- Heavy-duty design
- High stability
- With grip recess

MADE IN GERMANY



Version		Height/ Ø(mm)	Shipping weight kg/pc.	Article	€/pc.
With grip recess	red-white	1.000/60	17.5	170.18.374	
	black-yellow			170.88.030	



- For indoors and outdoors
- Made of aluminum
- High warning effect
- Very stable

## MORION Belt Warning Stand

Robust, stable barrier and guidance system. Quickly ready for use to block paths and areas or to create pedestrian routes.

For industry, warehouses, parking garages, open spaces, etc.

The self-retracting belt can be easily pulled out of the cassette and hung on the next belt stand. The tension spring ensures a controlled retraction of the self-rolling belt.

Each belt warning stand has a departing belt and three sockets for incoming belts.

Dimensions:

Base plate: 330 mm Ø

Top part: 60 mm Ø



Belt length: 3 m and 4 m

Belt width: 50 mm

Upper part made of painted aluminum. The plastic base can be filled on-site with sand or gravel (13.5 kg). White reflectors ensure good visibility at night.

Option: permanent fixation through four integrated dowel sockets



Surface	Belt color/length (mm)		Dimension (mm) H	Shipping weight kg/pc.	Article	€/piece
 yellow painted	black/yellow	3,000	985	2.9	179.14.759	
		4,000			179.22.511	
	yellow	3,000			179.17.353	
		4,000			179.26.335	
 red painted	red/white	3,000			179.19.970	
		4,000			179.28.338	



Belt stand



- Made of aluminum
- For permanent installation
- Temporarily block
- Various color options



MORION  
Belt warning stand BASIC

Functional, stable barrier and guidance system. Quickly ready for use to block paths and areas or to design pedestrian routes.

For industry, warehouses, parking garages, open spaces, etc.

Space-saving storage: The top can be easily separated from the base plate.



The self-tensioning strap can be easily pulled out of the cassette and hung on the next strap stand. The tension spring ensures a controlled return of the self-retracting strap.

Top made of plastic. The plastic base can be filled on-site with sand, gravel, etc. (9.0 kg).

Each belt warning stand has a departing belt and three receptacles for incoming belts.



Dimensions:  
Base plate: 360 mm Ø  
Top: 50 mm Ø  
Strap length: 3 m  
Strap width: 50 mm

Surface	Belt color	Dimension (mm) H	Shipping weight kg/pc.	Article	€/pc.
	red/white	950	1.8	179.21.658	
	black/yellow			179.28.568	



- For indoors and outdoors
- Sturdy and stable
- Highly visible
- Large symbols

## MORION Warning sign

These particularly wide warning signs made of plastic not only mark danger zones (yellow) but also prohibition zones (red) or mandatory areas (blue). The international symbols are centrally placed and significantly larger than usual. Thus, they are visually quickly perceivable and unambiguous.

- Stable, robust, very stable
- Large warning symbol (double-sided)
- For indoor and outdoor use
- Locking in open position (no unintended folding)
- Folded with clip closure

- Side recordings for plastic chains

Dimension  
s:

folded: 610 x 275 x 25 mm  
set up: 600 x 275 x 270 mm  
Weight: 890 g

Colors: yellow, blue, red  
Individual warning symbols  
or texts on request (from 10  
pieces).

Design				
Shipping weight kg/pc.	1.5			
Article:	345.22.142	345.20.868	345.26.119	345.27.829
Price €/pc. from 1 pc.				
Price €/pc. from 5 pcs.				

Version				
Shipping weight kg/pc.	1.5			
Item:	345.27.556	345.21.616	345.20.363	345.28.917
Price €/pc. from 1 pc.				
Price €/pc. from 5 pcs.				

Version				
Shipping weight kg/pc.	1.5			
Article:	345.24.447	345.24.769	345.27.651	345.24.247
Price €/pc. from 1 pc.				
Price €/pc. from 5 pcs.				



Wall belt



- i**
  - For indoor and outdoor use
  - High warning effect
  - Belt length 3 m or 4 m
  - Two types of attachment



MORION wall belt

Temporarily block or release paths quickly and effectively. For wall mounting. Wall bracket made of high-strength ABS plastic.

Two types of attachment:

- For screwing (e.g. wall, columns)
- Magnetic (e.g. in storage/shelf area)

The self-tensioning belt can be easily pulled out and hung on a wall clip (please order with it). The tension spring

ensures a controlled retractable self-retracting belt.

Using a belt connector (accessories see p. 102), two belt straps can be connected for blockages up to 8 m.

Dimensions:  
Height : 130 mm  
Depth: 110 mm  
Belt length: 3 m and 4 m Belt width: 50 mm



		Wall belt for screwing			Magnetic strap		
Belt color	Belt length (mm)	Shipping weight kg/pc.	Article	€/piece	Shipping weight kg/pc.	Article	€/St.
yellow/black striped	3.000	1.4	179.18.124		1.5	179.27.462	
	4.000	1.5	179.23.024		1.6	179.23.187	
red/white striped	3.000	1.4	179.13.738		1.5	179.27.835	
	4.000	1.5	179.23.085		1.6	179.21.407	
black/yellow/black	3.000	1.4	179.19.708		1.5	179.20.545	
	4.000	1.5	179.29.337		1.6	179.29.326	
black/red/black	3.000	1.4	179.16.023				
	4.000	1.5	179.26.981				
Wall clip			179.16.000				
magnetic wall clip						179.26.987	

## Accessories for belt and chain stands / cone belts

### Wall clip for band attachment / magnetic wall clip



For the belt stands on pages 111-112 and the wall belt on page 114.

### Belt connector



Connects two belt straps together. Allows blockages up to 8 m. For the belt stands on pages 111-112 and the wall belt on page 114.

Execution	Shipping weight kg / St.	Article	€/piece
Wall clip	0.2	179.16.000	
Magnetic wall clip	0.3	179.26.987	
Belt connector	0.2	179.17.430	

### Safety chain



Plastic chains made of polyethylene (6 mm link thickness).

For the chain stands on pages 107-110.

Further barrier chains on pages 120/121.

### Hook



For chain reception for the chain warning stand on page 110.

Chain M-Poly-View 6	Bundle length (m)	Shipping weight g/m approx.	Article	€/per m (only sold by the bundle)
red-white	10	150	212.14.592	
yellow-black			212.15.705	

Version	Shipping kg/pc.	Article	€/pc.
Hook	0.2	179.13.851	

### MORION cone belt reflective



Traffic cone attachment for quick and ineffective blocking of areas indoors and outdoors. Can be attached to standard traffic cones.

The MORION cone belt features a double-sided integrated silver reflective strip. Increased visibility, both in unfavorable lighting conditions and during the day.

Clearly noticeable due to the bright orange housing with two additional hooks for hanging chains or barrier tape.

The self-tensioning belt can be easily pulled out and hung on another cone belt. Alternatively, the belt can be hung in a permanently mounted wall clip (accessories see this page left).

Dimensions:

Height 200 mm

:

Depth: 110 mm

Belt length: 3 m

Belt width: 50 mm

A cost-effective version without reflective strips, but with a belt length of 4 m, is also available.



- For indoors and outdoors
- Silver reflective strip
- High warning effect
- With hook



Surface	Belt length (mm)	Shipping weight kg/pc.	Article	€/pc.
without reflective stripes	4.000	2.0	179.25.662	
with reflective stripes	3.000		179.28.234	



Kegel straps



- i**
  - For inside and outside
  - UV resistant
  - Strap length 9 m
  - As a cone attachment



Skipper cone strap

The cone strap is attached to the guide cone or fixed to the wall with an adapter.

Especially suitable for outdoor use. Quickly and effectively block off larger areas: Four strap cassettes secure up to 80 sqm.

The self-tensioning belt can be easily pulled out and hung on the next belt cassette or a wall clip (accessory).

- 9 m long strap
- Red-white tape with high warning effect
- The lock button protects against unwanted rewinding.
- Alternatively: Wall mounting (via adapter)

Dimensions:  
Height : 240 mm  
Depth: 145 mm  
Belt length: 9 m  
Belt width: 50 mm

Accessories: wall clip, wall adapter

Skipper plastic post for attaching the belt cassette - for particularly good hold.  
Top part orange, 95/130 mm Ø, with two reflective stripes.  
Plastic base, 500 mm Ø, black, refillable.  
Total height: 1,000 mm with base, 1,110 mm with base and belt cassette



Design	Color	Shipping weight kg/pc.	Article	€/piece
Skipper cone belt	Red-white striped	1.2	179.16.914	
Skipper plastic post	Orange/black	3	179.25.947	
Wall adapter	Black	0.36	179.16.064	
Wall clip	Black	0.07	179.19.426	
Magnetic wand clip	black	0.08	179.23.841	



- i**
- For indoors
  - Belt length 9 m
  - Three different mounts
  - Versatile use



Cord holder



## Skipper belt cassette 9 m

Belt cassette with extra long belt (9 m) for quick and effective blocking of areas and access.

The self-tensioning belt can be easily pulled out and hung on the holder (accessory). A locking button protects against unwanted rewinding.

Three different types of mounting are available:

- Cord holder with additionally integrated magnets

(for posts, supports, pillars)  
Elastic cord, length: 600 mm

- Clamp mount (for door frames, work tables, shelves, etc.) Maximum span 95 mm

- Suction cup mount (for smooth, unpainted surfaces and glass), very high suction power



Clamp mount



Suction cup mount

Dimensions:

Height: 126 mm

Depth: 145 mm

Belt length: 9 m

Belt width: 50 mm



The belt cassette is delivered without a holder (please order additionally). Additionally, another holder for the belt reception is required.

Version	Belt color	Shipping company kg/pc.	Article	€/pc.
Skipper belt cassette	red-white	1.2	179.28.163	
	yellow-black		179.20.603	
Cord holder		0.19	179.22.846	
Clamp holder		0.4	179.27.905	
Suction cup holder		0.15	179.29.146	
Wall clip (only for belt attachment)	black	0.07	179.19.426	
Magnetic wall clip	black	0.08	179.23.841	



Barrier post

MORION fire service guide post



Steel barrier post for marking the object side of setup and movement areas for fire service vehicles.

With black aluminum cap. Hot-dip galvanized and coated white, post head painted black (stripe 100 mm).

Dimensions: 60/900 mm

Mounting:

For embedding in concrete option: For bolting

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Note:

Observe the state building regulations (execution may vary).

- Made of steel
- For embedding in concrete
- For fire service setup areas



Surface	Ø x WS x total height (mm)	Shipping weight kg/piece.	Article	€/pc.
hot-dip galvanized and white coated with black head piece	60 x 2 x 900	3.5	100.88.090	

MORION barrier post for screwing in



Barrier posts to limit (parking) spaces and traffic routes. The stable screw connection allows for the easy screwing of the upper part into the base foot without additional tools.

Steel barrier post with aluminum cap. Post end with a strong threaded rod for screwing into a white, elegantly shaped aluminum base.

Drive-over height: 30 mm

Surface treatment:

Hot-dip galvanized and painted red-white

Fastening:

For doweling with three drill holes. Low drill hole depth of only 80 mm – also suitable for intermediate ceilings (e.g. underground garages, parking garages).

Fastening material included in the delivery.

- For indoors and outdoors
- Made of steel
- Screw connection
- Removable

MADE IN GERMANY



Execution	Ø x WS x Total height (mm)	Color	Shippin g weight kg/each	Item	€/each
Base foot 170 mm Ø x 30 mm H	60 x 2.0 x 1.030	red-white	5.7	105.24.175	
	76 x 2.5 x 1.030		7.1	105.21.124	
Equip with reflective red ring, post Ø 60 mm (Recommendation: 2 pcs per post)					
Equip with reflective red ring, post Ø 76 mm (Recommendation: 2 pcs per post)					



## Sperrketten

Sperrketten werden in Verbindung mit Sperrpfosten zum Abgrenzen von Fahrbahnen, Gehwegen, Parkplätzen usw. eingesetzt.

Sie sind – wie viele Einrichtungen im Straßenraum – stark belastet, z.B. durch Vandalismus.

Zugbelastung und Beständigkeit von Sperrketten sind deshalb wichtige Kriterien.

Sperrketten werden nur in vollen Bunden (= Verpackungseinheit) abgegeben.



### ZerreiBlast:

Durchschnittliche Belastungsgrenze (Längsrichtung). In der Praxis können bei Querbelastung höhere Werte auftreten (Kräfteparallelogramm). Deshalb Sicherheit einrechnen.

### Prüflast:

Bei MNK-Gütekettten wird jeder Meter mit der angegebenen Prüflast (Längsrichtung) getestet.

### MNK-NYLON-Gütekettten

Seit Jahrzehnten bewährte langlebige, hochbelastbare Gliederketten. Hervorragende Signalwirkung durch auffällige, lichtbeständige Verkehrsfarben (durchgefärbt). Die Ketten sind Meter für Meter auf Reißfestigkeit geprüft. Jedem Bund liegt ein Prüfvermerk bei.

Aus hochwertigem UV- und witterungsbeständigem Nylon. Resistent gegen Seewasser und viele chemische Verbindungen. Weder strom- noch wärmeleitend; antimagnetisch. Beständig von -40° bis +80° C. Geringes Gewicht. Hochbelastbar. 3 Jahre Garantie

### M-DEKO-Sichtketten

Aus hochwertigem Nylon. Mit den gleichen Eigenschaften wie MNK-Gütekettten, jedoch nicht auf Belastung geprüft. Zu empfehlen, wenn es hauptsächlich „auf Sicht“ ankommt.

### M-POLY-Sichtketten

Aus Polyethylen. Besonders für Innenräume zu empfehlen. Äußerst preiswert.

### M-FERRO-SIGNAL

Für höchste Belastungen, wo selbst MNK-NYLON-Gütekettten nicht mehr ausreichen. Hervorragende Warnwirkung durch Verkehrsfarben. Stahlkette, verzinkt. Zusätzlich mit hoch wetterfestem Kunststoff beschichtet. Keine offenen Kettenglieder – alle einzelnen Kettenglieder geschweißt.

### SM-Stahlketten










Sie werden eingesetzt, wenn extreme Belastbarkeit wichtiger ist als Signalwirkung. Preiswert. Stahl, feuerverzinkt. Langjährig korrosionsbeständig. Zinkfarben.

### Edelstahlketten

Eine hochwertige Alternative zu SM-Stahlketten. Sie passen besonders zu den Edelstahl-CITY-Pollern BERLIN und MILANO. Repräsentativ und langlebig. Edelstahl, Werkstoff 1.4401. Korrosionsbeständig. Für extreme Belastungen. Glänzend.



## Barrier chains

	Execution	ØLink thickness	Material	Clear link dimensions (mm)	Test load* (daN)	Tensile strength* (daN)
	MNK quality 6	6	Nylon	42 x 12	200	340
	MNK-Quality 8	8	Nylon	51 x 15	340	530
	M-DEKO-View 6	6	Nylon	53 x 13	–	250
	M-POLY-View 6	6	Polyethylene	46 x 11		–
	M-POLY-View 8	8		52 x 11		
	SM-Steel 6	6	Steel + Zinc	41 x 12	250	1,250
	SM-Steel 8	8		52 x 15	440	2,200
	M-FERRO-Signal	6	Steel + Zinc + Plastic	41 x 12	250	1,250
	M-Edel 6	6	Stainless Steel Material 1.4401	42 x 12	–	1,250

### Barrier chain accessories

For chain assembly, connecting links are required. If chains are to be hooked in and out, hook hooks (S-hooks) are needed. Connecting links and hook hooks are packed in sets of 10 each. Connecting parts are used in RED for red-white chain and in BLACK for black-yellow chain.



Connection link Nylon



Nylon hook hooks



Hanging hook galvanized and coated steel



Connection link galvanized steel and connection link with screw thread coated



\*1 daN = 10 Newton ^= 1 kg

Shipping weight (g/m) approx.	Color change (links)	Bundle length (m)	Standard Color	Article	€/m (Submission only by federal state)
300	11	50	red-white	210.12.037	
			yellow-black	210.10.833	
			red	210.10.822	
			white	210.11.697	
			black	210.11.993	
			yellow	210.10.976	
		25	red-white	210.17.569	
			yellow-black	210.20.275	
400	9	25	red-white	210.11.278	
			yellow-black	210.10.234	
			red	210.12.774	
			white	210.10.033	
			black	210.11.281	
			yellow	210.10.607	
200	9	50	red-white	211.12.699	
			yellow-black	211.12.819	
150	13	10	red-white	212.14.592	
			yellow-black	212.15.705	
		50	red-white	212.10.805	
			yellow-black	212.13.380	
200	16	25	red-white	212.19.390	
			yellow-black	212.13.210	
700	–	30	zinc-colored	214.12.451	
1,400	–	10	zinc colors	214.10.709	
800	18	15	red-white	213.12.984	
			yellow-black	213.11.240	
800	–	10	steel, bare	217.17.890	

execution	VE	Material	for chains	Color	Shipping weight kg/VE	Article	€/VE
connecting link	10	steel + galvanized + plastic-coated	MNK Quality Chains M-Ferro Signal	red	0.8	216.10.614	
				black		216.12.503	
		steel, galvanized	SM Steel Chains	zinc-colored	0.5	214.12.849	
		Nylon	M-sight chains	red	0.2	216.12.210	
				black		216.11.828	
Hangin g Hook	10	Steel + galvanized + plastic-coated	MNK quality chains M-Ferro signal	red	0.8	216.12.687	
				black		216.10.012	
		Steel, galvanized	SM steel chains	zinc-colored	0.5	214.10.329	
		Nylon	M-sight chains	red	0.4	216.10.962	
				black		216.10.490	
Connecting link with screw thread 6 mm	10	steel + galvanized + plastic coated	MNK-Quality-ChainsM-Ferro-Signal	red	0.8	216.14.713	
				black		216.13.271	
	1	stainless steel	M-Edel	stainless steel	0.2	216.18.191	
Connecting link with screw thread 8 mm	1	stainless steel	M-Premium	stainless steel	0.2	216.17.181	



Barrier post



- i**
  - Minimizes damage, as it is spring-loaded
  - Hot-dip galvanized, robust and durable
  - Low maintenance effort
  - Also suitable for embedding in concrete



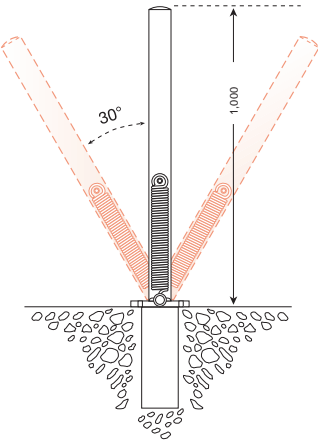
MORION-Swing  
Self-righting barrier  
post

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GERMANY

Barrier post made of steel with integrated spiral spring. For tight, confined maneuvering areas with a high risk of damage: parking lots, underground garages, curves, etc.

When starting, the post gives way up to 30° and automatically returns to the starting position. This avoids expensive damage.

- Execution:**  
76 mm Ø  
Wall thickness: 2.9 mm Base plate: 200 x 200 x 10 mm
- Surface treatment:**  
Hot-dip galvanized and plastic-coated
- Types of fastening:**  
For embedding in concrete or for screw mounting



Color	For screw mounting Total height 1,000 mm			For concreting Total height 1,330 mm, of which 330 mm is below ground		
	Shipping weight kg/pc.	Article	€/pc.	Shipping kg/pc.	Item	€/pc.
red-white	11.9	104.15.052		10.3	104.16.832	
black-yellow		104.17.486			104.14.916	
You need 4 fastening elements. You can find suitable material on pages 74/75.						

## New Color DB 703



- For bolting or embedding in concrete
- Fixed or removable, with profile cylinder or triangular lock
- In the SESAM variant also tiltable
- Diameter:  
60, 76, 90, 70 x 70 mm
- Color variants: DB 703, red-white, black-yellow, hot-dip galvanized, available on request in all RAL colors



### MORION barrier post

MADE IN  
**GERMANY**

#### Barrier posts – Safety and flexibility in perfection

Our high-quality barrier post combines the highest safety standards with flexible application possibilities. Available in various designs, it offers the right solution for every requirement.

##### Fixed installation

The variants for bolting or embedding in concrete ensure a stable and permanent connection with the substrate, ideal for permanent barriers.

#### Removable models

Our removable models ensure maximum flexibility, equipped with a triangular lock or a profile cylinder lock. These allow for easy and quick disassembly when needed.

##### Practical drill holes

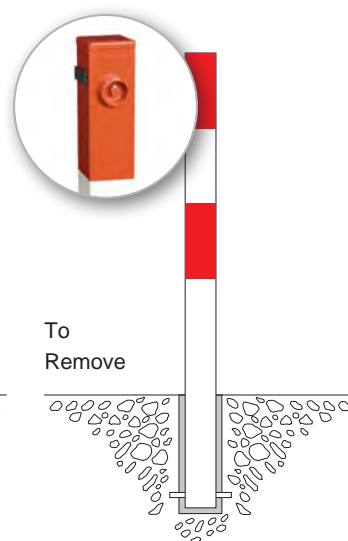
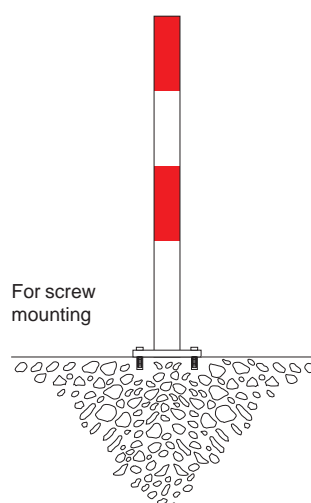
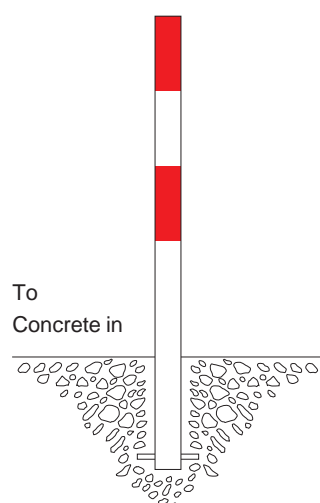
By default, there are drill holes for up to two eyelets (180°). These can be ordered directly or retrofitted at any time to attach additional barriers or chains.

#### Increased visibility

Especially in hazardous areas or in darkness, the red-white model with a reflective red ring offers optimal visibility and safety.

#### Modern color variant

New in our range is the elegant color variant DB703 (Anthracite Iron Glitter Fine Structure). Optionally available with a stylish white reflective ring, this barrier post harmoniously integrates into modern environments while providing the highest functionality.





# Barrier post

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60 mm Ø		MORION barrier post – wall thickness 2.0 mm							DB 703 NEW in the range
Surface	Color	Chain eyes	For embedding in concrete Total height 1,330 mm, of which 330 mm is below ground			For screw mounting Total height 1,000 mm			
			Shipping weight kg/pc.	Article	€/pc.	Shipping weight kg/pc.	Article	€/St.	
hot-dip galvanized	hot-dip galvanized	0	4.7	100.11.255		6.2	100.12.048		
		1		100.12.523			100.12.996		
		2		100.10.353			100.10.239		
hot-dip galvanized and non-reflective	hot-dip galvanized, red reflective ring	0		100.10.491			100.13.031		
		1		100.10.064			100.11.177		
		2		100.11.008			100.12.130		
hot-dip galvanized, painted and reflective	red-white, red reflex ring	0		100.10.016			100.12.839		
		1		100.13.027			100.10.083		
		2		100.12.191			100.12.554		
hot-dip galvanized and painted	black-yellow	0		100.11.947			100.11.028		
		1		100.13.144			100.11.376		
		2		100.10.784			100.11.853		
hot-dip galvanized and plastic-coated	DB 703	0	4.8	100.17.5682		6	100.17.5683		
		1		100.17.5711			100.17.5712		
		2		100.17.5715			100.17.5718		
galvanized and plastic-coated reflective	DB 703, white reflex ring	0		100.17.5685			100.17.5710		
		1		100.17.5720			100.17.5721		
		2		100.17.5722			100.17.5723		
plastic coated	red-white	0	4.7	100.10.043		6.2	100.11.659		
		1		100.12.009			100.11.309		
		2		100.12.507			100.11.595		

90 mm Ø		MORION barrier post – wall thickness 2.9 mm							DB 703 NEW in the range
Surface	Color	Chain loops	For embedding in concrete Total height 1,330 mm, of which 330 mm underground			For doweling Total height 1,000 mm			
			Shipping weight kg/pc.	Article	€/piece	Shipping weight kg/pc.	Article	€/St.	
hot-dip galvanized, painted and non-reflective	red-white, red reflective ring	0	8.5	103.10.646		8.6	103.10.703		
		1		103.11.576			103.10.157		
		2		103.10.382			103.11.100		
hot-dip galvanized and painted	black-yellow	0		103.11.316			103.12.047		
		1		103.12.272			103.12.995		
		2		103.10.091			103.10.814		
hot-dip galvanized and plastic-coated	DB 703	0	9.5	103.17.5761			103.17.5762		
		1		103.17.5764			103.17.5765		
		2		103.17.5766			103.17.5767		
hot-dip galvanized and plastic-coated reflective	DB 703, white reflective ring	0		103.17.5768			103.17.5769		
		1		103.17.5771			103.17.5772		
		2		103.17.5773			103.17.5774		

Accessories	MORION barrier post 60 mm Ø			MORION barrier post 90 mm Ø		
	Shipping weight kg/pc.	Article	€/piece	Shipping weight kg/piece	Article	€/piece
Non-lockable MORION ground sleeve	3.0	100.10.773		4.1	103.10.698	
Cover cap for ground sleeve	0.2	100.12.773		0.2	103.11.933	
Chain eyes for wall mounting		109.17.947			109.17.947	
You need 4 fastening elements. You can find suitable material on pages 74/75.						

## DB 703 NEW in the range

76 mm Ø		MORION bollard – wall thickness 2.5 mm						
Surface	Color	chain eyes	For embedding in concrete Total height 1,330 mm, of which 330 mm underground			For screw mounting Total height 1,000 mm		
			Shipping weight kg/pc.	Article	€/pc.	Shipping weight kg/pc.	Article	€/piece
hot-dip galvanized	hot-dip galvanized	0	5.9	101.11.405		6.6	101.10.006	
		1		101.12.184			101.10.949	
		2		101.13.133			101.11.894	
hot-dip galvanized and non-reflective	hot-dip galvanized, red reflective ring	0		101.13.126			101.11.328	
		1		101.10.362			101.12.282	
		2		101.11.299			101.10.101	
hot-dip galvanized, painted and reflective	red-white, red reflex ring	0		101.13.035			101.10.225	
		1		101.12.498			101.11.164	
		2		101.11.727			101.12.118	
hot-dip galvanized and painted	black-yellow	0		101.10.007			101.11.989	
		1		101.10.074			101.12.943	
		2		101.11.018			101.10.764	
galvanized and plastic-coated	DB 703	0	8	101.17.5724		7.5	101.17.5725	
		1		101.17.5726			101.17.5727	
		2		101.17.5728			101.17.5729	
galvanized and plastic-coated reflective	DB 703, white reflex ring	0		101.17.5740		8	101.17.5741	
		1		101.17.5743			101.17.5744	
		2		101.17.5745			101.17.5746	
plastic-coated	red-white	0	5.9	101.10.036		6,6	101.10.313	
		1		101.12.776			101.11.258	
		2		101.10.609			101.12.870	

## DB 703 NEW in the range

70 x 70 mm		MORION barrier post – wall thickness 2.0 mm						
Surface	Color	Chain loops	For embedding in concrete Total height 1,330 mm, of which 330 mm is below ground			For screw mounting Total height 1,000 mm		
			Versandgewicht kg/St.	Article	€/piece	Versandgewicht kg/St.	Article	€/St.
hot-dip galvanized, painted and non-reflective	red-white, red reflective ring	0	6.7	102.12.561		7.3	102.12.682	
		1		102.12.841			102.10.420	
		2		102.12.358			102.10.515	
hot-dip galvanized and plastic-coated	DB 703	0	8	102.17.5747		7.2	102.17.5748	
		1		102.17.5749			102.17.5751	
		2		102.17.5752			102.17.5753	
galvanized and plastic-coated reflective	DB 703, white reflective ring	0		102.17.5754			102.17.5755	
		1		102.17.5756			102.17.5757	
		2		102.17.5758			102.17.5760	

Accessories	MORION barrier post 70 x 70 mm			MORION barrier post 76 mm Ø		
	Shipping weight kg/pc.	Article	€/piece	Shipping kg/pc.	Article	€/pc.
Non-lockable MORION ground sleeve	3.6	102.10.906		3.7	101.12.484	
Cover cap for ground sleeve	0.2	102.13.107		0.2	101.12.156	
Chain eyes for wall mounting		109.17.947			109.17.947	
You need 4 fasteners. You can find suitable material on pages 74/75.						



# Barrier post - removable

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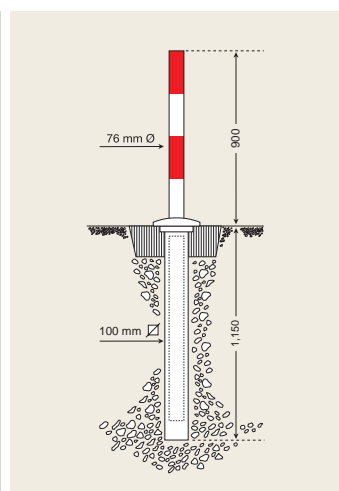
**NEW in  
the range**

60 mm Ø		MORION removable barrier post - total height 1,330 mm, of which 330 mm is below ground, wall thickness 2.0 mm					
Surface	Color	Profile half-cylinder			Three-point closure (DIN 3223)		
		Shipping weight kg/pc.	Article	€/pc.	Shipping weight kg/pc.	Article	€/St.
hot-dip galvanized	hot-dip galvanized	8.2	100.17.6228		8.2	100.17.6117	
hot-dip galvanized and reflective	hot-dip galvanized red		100.17.6229			100.17.6118	
hot-dip galvanized, painted and reflective	red-white		100.17.6230			100.17.6119	
hot-dip galvanized and plastic coated	DB 703		100.17.6231			100.17.6120	
hot-dip galvanized, plastic coated and reflective	DB 703, white		100.17.6232			100.17.6121	

76 mm Ø		MORION removable barrier post – total height 1,330 mm, of which 330 mm is underground, wall thickness 2.0 mm					
Surface	Color	profile half-cylinder			Triangular closure (DIN 3223)		
		Shipping weight kg/pc.	Article	€/pc.	Shipping weight kg/pc.	Article	€/pc.
hot-dip galvanized	hot-dip galvanized	9.7	101.17.6245		9.7	101.17.6122	
hot-dip galvanized and reflective	hot-dip galvanized red		101.17.6234			101.17.6123	
hot-dip galvanized, painted and reflective	red-white		101.17.6235			101.17.6142	
hot-dip galvanized and plastic-coated	DB 703		101.17.6236			101.17.6146	
hot-dip galvanized, plastic-coated and reflective	DB 703, white		101.17.6237			101.17.6147	

90 mm Ø		MORION removable barrier post – total height 1,330 mm, of which 330 mm is underground, wall thickness 2.0 mm					
Surface	Color	Profile half-cylinder			Triangular closure (DIN 3223)		
		Shipping weight kg/pc.	Article	€/pc.	Shipping weight kg/piece	Article	€/St.
hot-dip galvanized	galvanized	11.5	103.17.6287		11.5	103.17.6163	
galvanized and reflective	hot-dip galvanized red		103.17.6289			103.17.6164	
galvanized, painted and reflective	red-white		103.17.6290			103.17.6187	
hot-dip galvanized and plastic coated	DB 703		103.17.6291			103.17.6188	
hot-dip galvanized, plastic coated and reflective	DB 703, white		103.17.6292			103.17.6189	

70 x 70 mm		MORION removable barrier post – total height 1,330 mm, of which 330 mm underground, wall thickness 2.0 mm					
Surface	Color	Profile half-cylinder			Triangular closure (DIN 3223)		
		Shipping weight kg/piece.	Article	€/piece	Shipping weight kg/pc.	Article	€/pc.
galvanized	galvanized	9.7	102.17.6272		9.7	102.17.6148	
galvanized and reflective	galvanized-red		102.17.6273			102.17.6149	
galvanized, painted and reflective	red-white		102.17.6274			102.17.6160	
galvanized and plastic-coated	DB 703		102.17.6275			102.17.6161	
galvanized, plastic-coated and reflective	DB 703, white		102.17.6276			102.17.6162	



- Made of steel •
- Fully retractable •
- With triangular lock •
- Almost imperceptible crossing height



## PARATlift

Retractable barrier post

MADE IN  
**GERMANY**

The PARATlift solves many barrier problems. Ideal for streets and squares that are only temporarily open to traffic: pedestrian zones, marketplaces, parking areas, garage entrances, archways, etc.

The post can be lowered in seconds with a triangular key according to DIN 3223. Traffic can roll over the nearly flush concrete ground sleeve unhindered.

## Variants:

- Semi-automatic: After unlocking, the gas spring pushes the upper part almost completely out of the ground sleeve. A short manual lift and the post locks automatically. To lower it, the upper part is unlocked and simply pushed down.
- Manual: A spiral spring pushes the upper part 5 to 8 cm out of the ground sleeve after unlocking. By manual lifting, the post locks automatically. To lower it, the upper part is unlocked and manually guided down.

## Design:

- Upper part: 76 mm Ø 2.5 mm wall thickness
- Lower part: 100 x 100 mm

Total length: 2,050 mm, of which 1,150 mm underground

Easy installation. If damaged, the upper part can be replaced.

## Surface treatment:

Top galvanized and painted (base housing galvanized)



## Installation note:

Pay attention to proper drainage (gravel filling). The PARATlift must not be installed in standing water (e.g. groundwater).



## Maintenance:

Important for proper function. Remove accumulated dirt at least biannually, clean all moving parts, and grease the locking hook.

Execution	Surface	Color	shipping weight kg/each	article	€/each
Manual	galvanized and painted	red-white	22.3	140.16.470	
Semi-automatic			23.8	140.12.403	
triangular key (please order additionally)			0.2	130.12.326	



# Barrier post



- Best seller
- Top price-performance ratio
- Durable locking mechanism
- Diverse selection



## PARAT B Removable Barrier post

MADE IN  
**GERMANY**



The PARAT B is a flexible, removable barrier post with a standardized triangular lock. Ideal for temporarily released roads and areas such as pedestrian zones, marketplaces, parking lots, or garage entrances.

Recommended by the fire department according to DIN 14 090 for access roads and rescue areas.

### Surface treatment:

Hot-dip galvanized or hot-dip galvanized and painted

### Types of fastening:

- For embedding in concrete with ground sleeve
- For screw mounting with special base plate (250 x 100 x 48 mm)

### Closure:

Removable by triangular lock according to DIN 3223



### Note:

No accident risk with removed post: The embedded and flush ground sleeve with the road surface has only a small opening.



### Note:

Simply screw it in – without earthworks or concreting. This saves effort and costs, while the appearance of the surface, such as paving, remains completely intact.

60 mm Ø		PARAT B – Wall thickness 2 mm						
Surface	Color	Chain eyes	For embedding in concrete Total height 1,330 mm, of which 330 mm underground			For screwing on with special base plate, total height 1,000 mm		
			Shipping weight kg/pc.	Article	€/pc.	Versandg ew.kg/St.	Article	€/pc.
hot-dip galvanized	hot-dip galvanized	0	7.3	130.12.406		7.6	130.12.177	
		1		130.11.447			130.12.405	
		2		130.10.224			130.11.163	
hot-dip galvanized and painted	red-white	0		130.10.465			130.10.107	
		1		130.10.469			130.12.123	
		2		130.10.674			130.13.073	
	black-yellow	0		130.12.117			130.13.067	
		1		130.10.884			130.11.823	
		2		130.12.775			130.10.608	

76 mm Ø		PARAT B – Wall thickness 2.5 mm						
Surface	Color	chain eyes	for embedding in concrete total height 1,330 mm, of which 330 mm underground			For doweling with special base plate, total height 1,000 mm		
			shipping weight kg/pc.	Article	€/piece	Versandg ew.kg/St.	Article	€/piece
hot-dip galvanized	hot-dip galvanized	0	9.6	131.10.765		9.4	131.10.590	
		1		131.10.026			131.11.519	
		2		131.12.483			131.10.301	
galvanized and painted	red-white	0		131.11.804			131.11.899	
		1		131.11.699			131.11.829	
		2		131.12.397			131.12.845	
	black-yellow	0		131.11.243			131.12.194	
		1		131.13.143			131.10.654	
		2		131.11.584			131.12.543	

70 x 70 mm		PARAT B – Wall thickness 2 mm						
Surface	Color	chain eyes	for embedding in concrete Total height 1,330 mm, of which 330 mm underground			For doweling with special base plate, total height 1,000 mm		
			shipping weight kg/pc.	Article	€/pc.	Shipping weight kg/pc.	Article	€/pc.
galvanized and painted	red-white	0	9.8	132.12.385		9	132.12.527	
		1		132.11.423			132.12.665	
		2		132.12.069			132.10.356	

Accessories	Shipping weight kg/pc.	Item	€/St.
Triangular key (please order together)	0.2	130.12.326	
Additional base sleeve (for safe storage of the upper part)	2.5	130.10.004	
Cover/dirt cap for base sleeve, plastic 20 x 40 mm	0.1	130.10.931	
Equip PARAT 60 mm Ø with reflective red ring (Recommendation: 2 pcs. per post)			
Equip PARAT 76 mm Ø with reflective red ring (Recommendation: 2 pcs. per post)			
Equip PARAT 70 x 70 mm with reflective red ring (Recommendation: 2 pcs. per post)			
You need 4 fastening elements. You can find suitable material on pages 74/75.			



# Barrier post



- Made of steel
- Ground-level installation
- No tripping hazard
- With triangular or cylinder lock
- Foldable



## SESAMplus tipping post

MADE IN  
**GERMANY**



### Maintenance:

Important for proper function.  
Remove accumulated dirt at  
least biannually, clean all  
moving parts.

Modern tipping post that fully  
preserves the traffic area and  
avoids tripping hazards. In the  
folded state, the SESAMplus  
disappears flush into a robust  
ground basin. The vehicle can then  
roll over the post unhindered.

Ideal for blocking traffic routes of all  
kinds, parking lots, garage entrances, fire  
department access according to DIN 14  
090, etc.

The erection of the upper part is  
done using a special wire hook.  
Once the post is upright, the open  
basin (aluminum) is automatically  
protected by a stable metal plate.  
This eliminates tripping hazards.

### Execution:

Robust steel post: 70 x 70 mm

Above ground: 900 mm

Wall thickness: 2 mm

### Surface treatment:

Hot-dip galvanized and painted

### Mounting:

For embedding in concrete. Extremely  
low installation depth due to horizontal  
mounting type. Ensure horizontal  
installation.

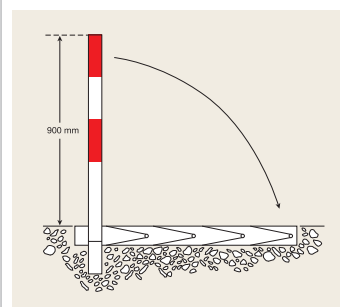
### Closure:

Optionally with a keyed alike round  
cylinder lock, including two keys  
(Model A) or a triangular lock  
(Model B) according to DIN 3223.



### Installation note:

Pay attention to proper drainage (gravel  
filling). The SESAMplus must not be  
installed in standing water (e.g.  
groundwater).



Execution	Surface	Color	SESAMplus A with locking cylinder + 2 keys			SESAMplus B with triangular closure, without key		
			Shipping weight kg/pc.	Article	€/pc.	Shipping kg/pc.	Article	€/pc.
Total height 900 mm	hot-dip galvanized and painted	red-white	23.7	113.10.561		23.8	113.11.493	
Additional key for cylinder lock (keyed alike)						0.2	116.24.144	
Triangular key (please order additionally)							130.12.326	

## SESAM-Sprint tipping post



This patented tipping post excites: reliable technology, modern design, attractive price.

The annoying bending is eliminated: Just step on the foot pedal and the post will automatically straighten itself – supported by a gas spring. Folding it is just as easy: Unlock with the key, give it a light push, and the SESAM-Sprint gently lays down on the ground.

The drive-over height is completely unproblematic at 75 mm for all vehicle types.

### Execution:

Profiled aluminum post: 70 x 50 mm  
Wall thickness: 3 mm

Base plate: 250 x 90 mm

### Surface treatment:

Anodized aluminum with red reflective stripe

### Mounting:

For screw mounting, mounting dowels included in the delivery



- Aluminum post
- Foldable
- Convenient operation
- Corrosion resistant
- Modern design

### Closure:

With a keyed alike or differently keyed round cylinder lock, including two keys

**MADE IN GERMANY**



## SCHUPO tipping post



For blocking parking spaces, driveways, access paths, etc.

After folding in the direction of travel, the post can be driven over. The locking bracket is secured with a padlock (provided by the customer).

Drive-over height: 110 mm

### Design:

Steel post: 60 mm Ø  
Wall thickness: 2 mm  
Opening max. 5 mm  
Ø for padlock  
Base plate: 160 x 140 x 10 mm

### Surface treatment:

Hot-dip galvanized or hot-dip galvanized and painted

**MADE IN GERMANY**



- Made of steel
- Foldable
- For padlock
- Cost-effective

### Types of fastening:

For embedding in concrete (with ground anchor) or for screw mounting



Design	Total height (mm)	Closure	Shipping weight kg/pc.	Article	€/pc.
With locking cylinder + 2 keys	950	keyed alike	5	114.19.490	
		different closing		114.14.132	

Color	For embedding in concrete Total height 1,330 mm, of which 330 mm is below ground			For doweling Total height 1,000 mm		
	Shipping weight kg/pc.	Article	€/pc.	Shipping weight kg/pc.	Article	€/pc.
red-white	8.7	120.11.389		8.1	120.12.749	
black-yellow		120.11.990			120.12.019	

Equip with reflective red ring (Recommendation: 2 pcs. per post)

Surcharge per chain eye

You need 4 fastening elements. You can find suitable material on pages 74/75.



## Barrier post



**i**

- Made of steel
- Robust
- With triangular or cylinder lock
- Foldable



### SESAM tipping post

MADE IN  
**GERMANY**

Proven for decades: Tipping barrier post made of steel for blocking or temporarily releasing traffic routes, parking lots, restricted areas, and fire department access according to DIN 14 090.

Reduced crossing height: 76 mm

#### Design:

Robust steel post: 70 x 70 mm

Wall thickness: 2 mm

Base plate: 140 x 160 x 10 mm

#### Surface treatment:

Hot-dip galvanized or hot-dip galvanized and painted

#### Types of fastening:

For embedding in concrete or for bolting on

#### Closure:

Optionally with a matching round cylinder lock, including two keys (SESAM A) or a triangular lock according to DIN 3223 (SESAM B).

Option: Round cylinder lock with different keys (no extra charge)

NEW: SESAM A with double profile half cylinder and 3 keys each

- Upper cylinder keyed alike (e.g. for administrators or fire department. A separate cylinder can be installed later)
- Lower cylinder keyed differently (for tenants)

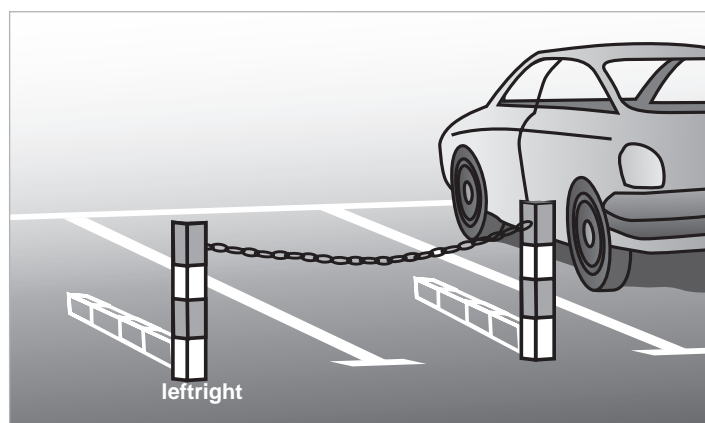


70 x 70 mm		SESAM A – Wall thickness 2 mm						
Execution	Surface	Color	For doweling Total height 1,000 mm			For embedding in concrete Total height 1,330 mm, of which 330 mm is below ground		
			Shipping weight kg/pc.	Article	€/pc.	Shipping weight kg/pc.	Article	€/piece
With locking cylinder + 2 keys, keyed alike	hot-dip galvanized	hot-dip galvanized	8	116.12.377		9.3	116.12.751	
	hot-dip galvanized and painted	red-white	8	116.10.429		9.3	116.12.098	
With double profile half cylinder + 3 keys each	hot-dip galvanized and painted	red-white	8	116.21.721		9.3	116.29.301	

Accessories	Shipping weight kg/pc.	Item	€/piece
Additional key for cylinder lock (keyed alike)	0.2	116.24.144	
Equip with reflective red ring (Recommendation: 2 pcs. per post)			
Surcharge per chain eyelet			
Pre-prepared for profile half-cylinder			
Different closing			
You need 4 fasteners. You can find suitable material on pages 74/75.			

70 x 70 mm		SESAM B – Wall thickness 2 mm						
Version	Surface	Color	For doweling Total height 1,000 mm			For embedding in concrete Total height 1,330 mm, of which 330 mm underground		
			Shipping weight kg/piece	Article	€/pc.	Versandgew.kg/St.	Article	€/piece
With triangular lock, without key	Hot-dip galvanized and painted	red-white	8.2	116.12.343		9.5	116.11.675	

Accessories	Versandgew.kg/piece	Article	€/pc.
Triangular key (please order additionally)	0.2	130.12.326	
Equip with reflective red ring (Recommendation: 2 pcs. per post)			
Surcharge per chain eye			
You need 4 fastening elements. You can find suitable material on pages 74/75.			

**Note:**

When ordering with an eyelet, please specify the tilt direction.

**Tilt direction for posts with a chain eyelet**



# Barrier post



i

- Made of steel
- Integrated impact protection
- With cylinder locking
- Tire-friendly



## SESAM-private

*Tilt post*

MADE IN  
**GERMANY**

The extra-flat parking bracket: With the unique SESAM-private, you can reliably protect parking spaces from unauthorized parkers.

- The minimized drive-over height (68 mm) can be easily driven over by all types of vehicles.
- The impact protection spares the tires.
- Exceptionally stable due to the lateral guidance of the upper part

### Execution:

Robust steel post: 70 x 50 mm wall thickness: 3 mm  
Locking width: 780 mm base plate: 220 x 140 x 68 mm

### Surface treatment:

Hot-dip galvanized or hot-dip galvanized with reflective red rings or additionally painted white

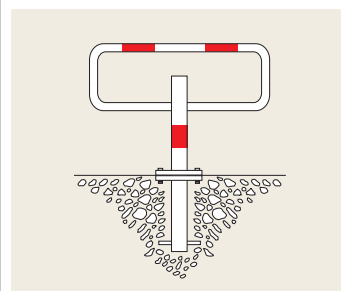
### Types of fastening:

For embedding in concrete or for bolting on

### Closure:

With a different closing cylinder lock, including two keys

Option: Cylinder lock keyed alike (no extra charge) or profile cylinder lock prepared



Execution	Surface	Color	For bolting down with base plate, total height 570 mm			For embedding in concrete Total height 900 mm, of which 330 mm is below ground		
			Shipping kg/pc.	Article	€/pc.	Shipping weight kg/each	Article	€/each
With locking cylinder + 2 keys, keyed differently	hot-dip galvanized	hot-dip galvanized	10.9	112.18.153		15.5	112.13.935	
	hot-dip galvanized with reflective red rings	hot-dip galvanized red		112.19.889			112.19.774	
	hot-dip galvanized, painted and with reflective red rings	red-white		112.14.827			112.14.005	
Pre-prepared for profile half-cylinder								
You need 4 fasteners. You can find suitable material on pages 74/75.								



- i**
  - Made of steel
  - Stable and sturdy
  - With cylinder locking
  - Tire-friendly

SESAM parking barrier

Foldable parking barrier made of round steel with a robust square middle post. Particularly stable and sturdy. Secures parking spaces and driveways from unauthorized parking and releases them easily. Simple handling through securing or unlocking the middle post via cylinder lock.

With reflective red rings for good visibility even in the dark. Suitable for all vehicle types due to the extremely low drive-over height of 55 mm. Tire-friendly thanks to rounded base plates.

The parking bracket is delivered fully assembled. Fastening material included in the delivery.

**Version:**  
Barrier width: 960 mm  
Total height: 455 mm  
Depth (folded): 955 mm  
Pipe diameter: 50 mm  
Middle post: 50 x 50 mm  
Wall thickness: 2 mm

**Surface treatment:**  
Hot-dip galvanized with two reflective red rings


**Type of fastening:**  
For doweling  
(Dowels and screws included)

**Closure:**  
With different closing cylinder lock, including two keys



Design	Dimensions (mm) H x W	Closure	Shipping weight kg/pc.	Article	€/pc.
With locking cylinder + 2 keys	455 x 960	different closing	17.5	115.23.824	



Three red and white traffic cones are positioned on a gravel construction site. A yellow caution tape is strung across the background, and a concrete wall is visible behind it. The cones are arranged in a slightly diagonal line from the top left towards the bottom right. The cone in the foreground on the right is the most prominent, showing its base and the 'ORALITE' brand name.

## Construction site

### OPTIMALLY MARKING AND SECURING CONSTRUCTION SITES

Our solutions for construction sites provide effective protection and clear boundaries to ensure safety and order on the construction site. Whether cable bridges, barriers, warning markings, or traffic cones – our products help minimize hazards and ensure a smooth process.

#### Cable bridges 137

Barriers	144
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Folding signals	148
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Warning marking DIN 30710	149
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Traffic cones	150
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Parking aids/separation barriers	155
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## MORION cable bridge for rolling up



Easy crossing and protection of cables and small hoses. The cable bridge is rolled out and the cable is inserted from above through the opening - done.

Flexible, high-strength rubber mixture. Profiled surface for easy crossing.  
Low crossing height 30 mm.

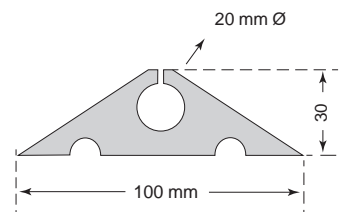
Cost-effective solution for protecting smaller cables over longer distances. Withstands truck and forklift traffic.

Recommended crossing speed:  
5 to 20 km/h  
1 cable/pipe channel: 20 mm

Dimension:  
ns:  
100 x 10,000 x 30 mm (L x W x H)



- For roads, construction sites
- Made of rubber
- Up to 4t axle load
- 10 m length
- Space-saving and can be cut
- Economical



Dimensions (mm) L x W x H	Color	Shipping weight kg/pc.	Article	€/pc.
100 x 10,000 x 30	black	21	279.26.118	

## MORION small cable bridge



Problem-free crossing and protection of cables and hoses.

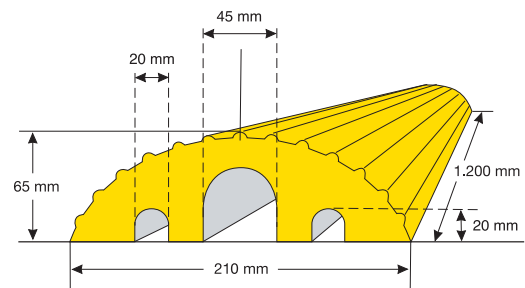
Flexible, high-strength mixture of recycled rubber. Profiled, grippy surface for easy driving over. Underside with anti-slip rubber lips. Drive-over height 65 mm.

Withstands truck and forklift traffic. Also suitable for occasional heavy traffic.

Recommended crossing speed:  
5 to 10 km/h  
Signal effect through yellow and black elements.

3 cable ducts:  
2 x 20 mm and 1 x 45 mm

- For roads, construction sites
- Recycling hard rubber
- Up to 8t axle load
- Grippy surface
- Two colors



Dimensions (mm) L x W x H	Color	Shipping weight kg/pc.	Article	€/pc.
210 x 1,200 x 65	yellow	12.8	279.28.720	
	black		279.21.784	



Cable bridges



- For roads, construction sites
- Recycled rubber
- Up to 8 t axle load
- Endless assembly
- With protective cover
- 2-channel

MORION cable bridge  
2-channel



Problem-free crossing and protection of cables or small hoses. Easy handling, quick assembly and disassembly, hassle-free transport. Ideal for trade fairs, events, folk festivals, company premises.

Made from a special, vulcanized hard rubber mixture. Signal effect through yellow cover made of high-quality polyethylene. Ribbed, slip-resistant structure.

All elements with pin/slot system for any expansion.

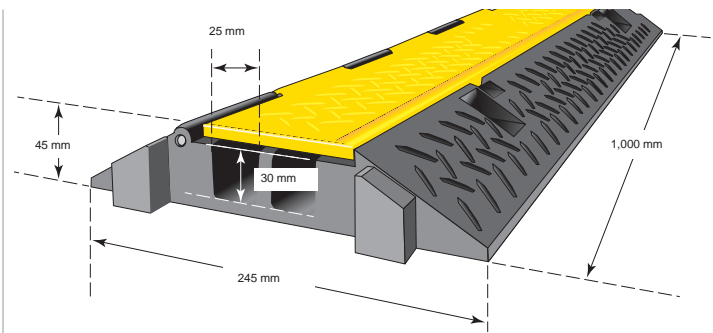
Withstands passenger car and truck traffic. Recommended crossing speed:

5 to 10 km/h

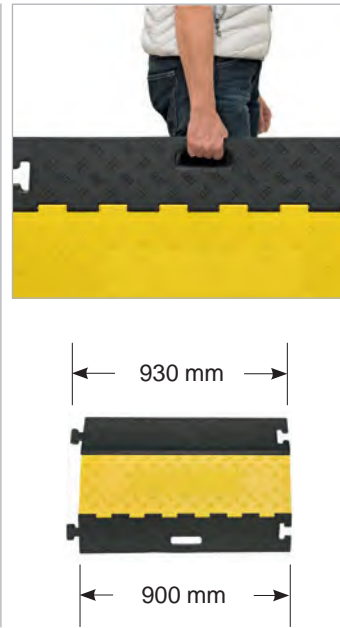
2 cable channels (W x H): 25 x 30 mm passing height 45 mm.

Dimensions:  
245 x 1,000 x 45 mm (L x W x H)  
net width in combination: 970 mm

Execution:  
Standard element



Dimension (mm) L x W x H	Color	Shipping weight kg/each	Article	when purchasing €/each
245 x 1,000 x 45	black/yellow	7.8	279.21.491	



- For roads, construction sites
- Recycling rubber
- Up to 8 t axle load
- Endless assembly
- With protective cover and carrying handle
- 5-channel

## MORION cable bridge

medium-sized



Problem-free crossing and protection of cables, small hoses, or pipes.

Made from a special, vulcanized hard rubber mixture. Signal effect through yellow cover made of high-quality polyethylene. Ribbed, slip-resistant structure.

Crossing height 50 mm.

All elements with pin/groove system for any expansion.

Withstands car and truck traffic. Heavy traffic should be avoided.

Recommended crossing speed:  
5 to 10 km/h

5 cable channels (W x H): 36 x 34 mm

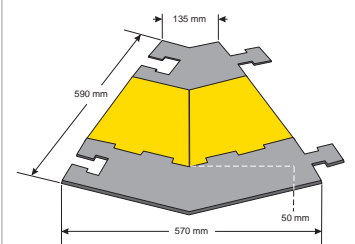
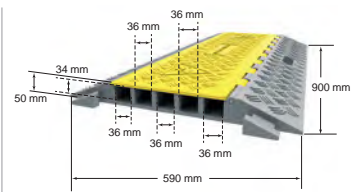
Dimensions:

590 x 930 x 50 mm (L x W x H)  
Net width in composite: 900 mm

End elements and angle pieces

Angle piece 45°: 590 x 570 mm / 135 x 50 mm

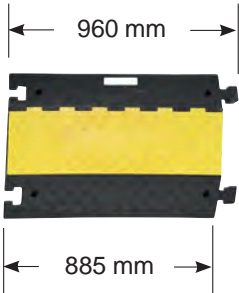
End piece: 590 x 190 mm



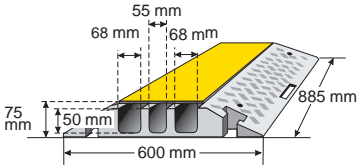
Version	Dimension (mm) L x W x H	Color	Shipping weight kg/pc.	Article	at a purchase price of €/piece
Standard element	590 x 930 x 50	black/yellow	18	279.29.623	
Left angle piece	590 x 570/135 x 50	black/yellow	9	279.23.599	
Right angle piece				279.24.283	
End piece pin	590 x 190 x 50	black	4.5	279.28.531	
End piece groove				279.21.828	



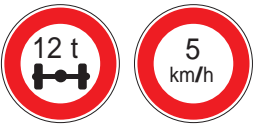
Cable bridges



- For roads, construction sites
- Recycling hard rubber
- Up to 12 t axle load
- Endless assembly
- With protective cover and carrying handle
- 3-channel



MORION cable bridge  
large



Problem-free crossing and protection of cables, hoses, or pipes.

Highly loadable due to special, reinforced hard rubber mixture. Signal effect through yellow cover made of high-quality plastic.

Ribbed, slip-resistant surface.

Crossing height 75 mm.

All elements with pin/groove system for any expansion.

With carrying handle for easier transport.

Withstands truck and forklift traffic. Also suitable for occasional heavy load traffic.

Recommended crossing speed: 5 km/h

3 cable ducts (W x H):  
2 channels 68 x 50 mm  
1 channel 55 x 50 mm

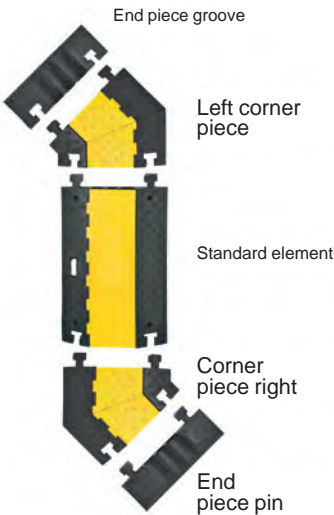
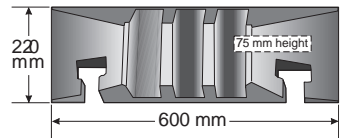
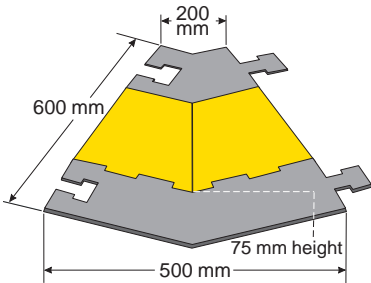
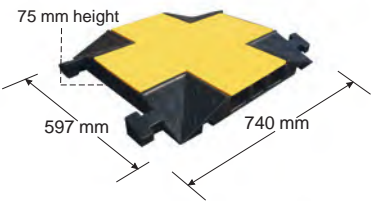
Dimensions:  
Standard element:  
600 x 960 x 75 mm (L x W x H)  
net width in combination: 885 mm

Crossing element:  
597 x 740 x 75 mm (L x W x H)  
net width in combination: 597 mm

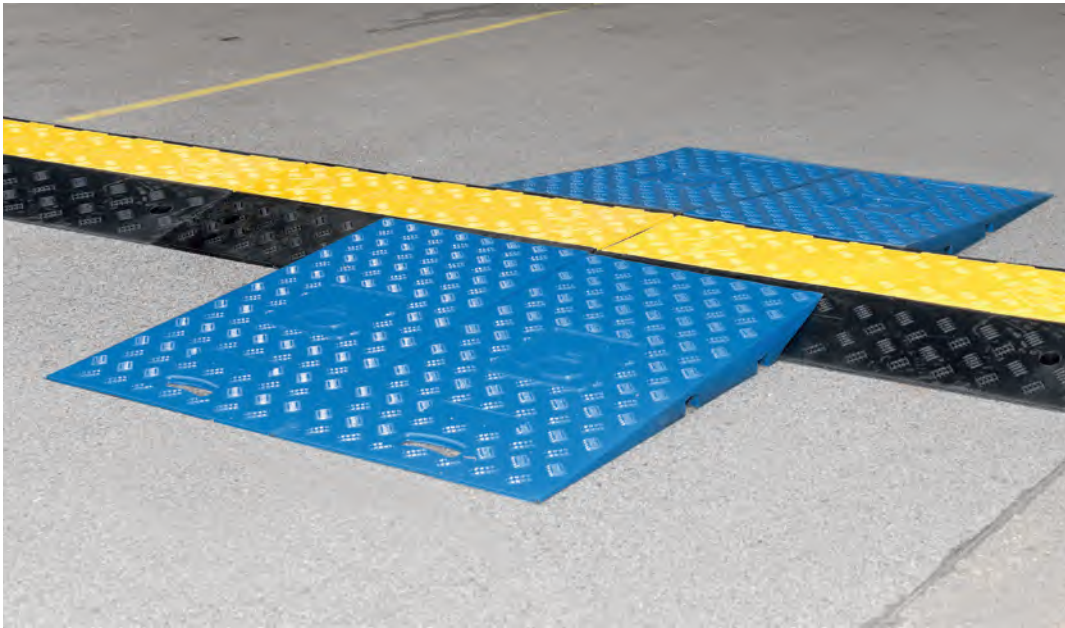
Corner piece 45°:  
600 x 500/200 x 75 mm (L x W x H)

End piece:  
Pin: 600 x 230 x 75 mm (L x W x H)  
Slot: 600 x 220 x 75 mm (L x W x H)

Permanent fixation possible through integrated dowel sockets.



Version	Dimensions (mm) L x W x H	Color	Shipping weight kg/pc.	Article	when purchased at €/piece.
Standard element	600 x 960 x 75	black/yellow	26.5	279.23.799	
Intersection element	597 x 740 x 75	black/yellow	17	279.24.311	
Corner piece left	600 x 500/200 x 75	black/yellow	12	279.29.848	
Corner piece right				279.26.562	
End piece pin	600 x 230 x 75	black	3	279.22.899	
End piece groove	600 x 220 x 75			279.20.233	



- i**
- Usable at any location
  - Easy to handle
  - With anti-slip surface
  - Carrying handle
- for convenient transport

**Wheelchair ramp set**  
*for cable bridges*

Robust wheelchair ramp made of recycled rubber for combination with the MORION cable bridge 3-channel (see p. 126). Allows wheelchair users to safely cross cable bridges. The structured, non-slip ramp surface provides reliable grip. Cables and hoses remain securely protected.

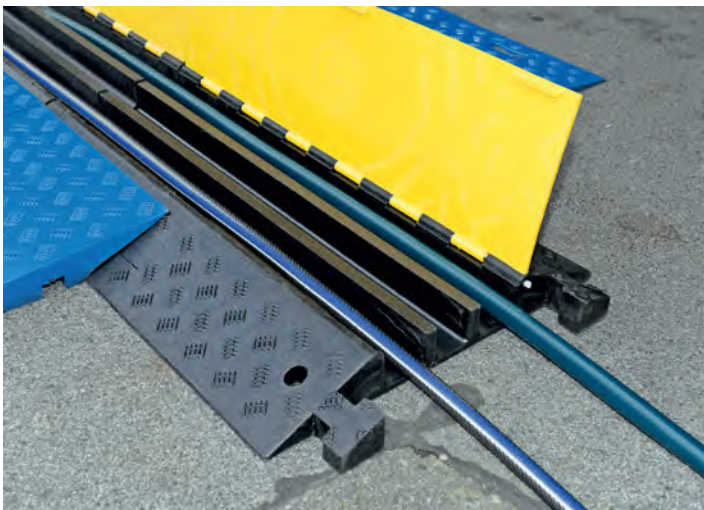
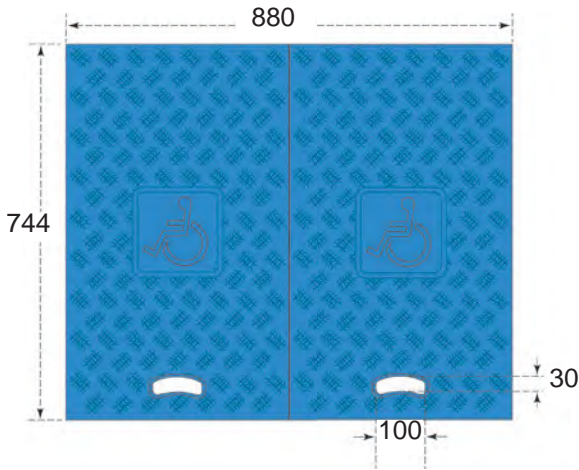
Also suitable for walkers, strollers, hand trucks, etc. Load capacity up to 200 kg.

A set consists of 2 ramps.

Dimensions of a single ramp: 744 x 440 x 75 mm Weight: 8 kg each

The wheelchair ramp is not suitable for motor traffic.

- No assembly required:  
Elements are placed on the longitudinal side of the cable bridge.
- The cover of the cable bridge can still be opened.
- Generous width of 880 mm



Dimensions (mm) in set L x W x H	Shipping weight kg/pc.	Item	€/set
744 x 880 x 75	17	279.25.942	



# Cable bridges



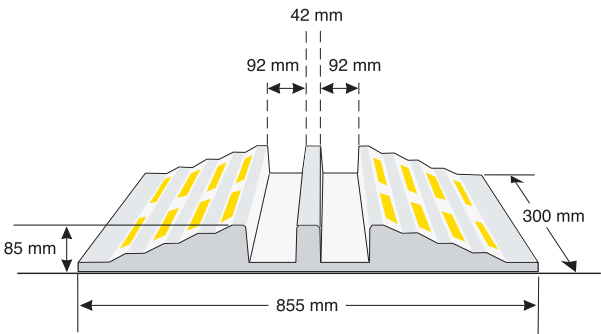
- i*
  - For roads, construction sites
  - Reinforced hard rubber
  - Highly load-bearing
  - For heavy traffic

## MORION hose bridge

For safely driving over hoses, pipes, and cables up to 75 mm in diameter. Profile elements made of highly load-bearing, reinforced hard rubber mixture.

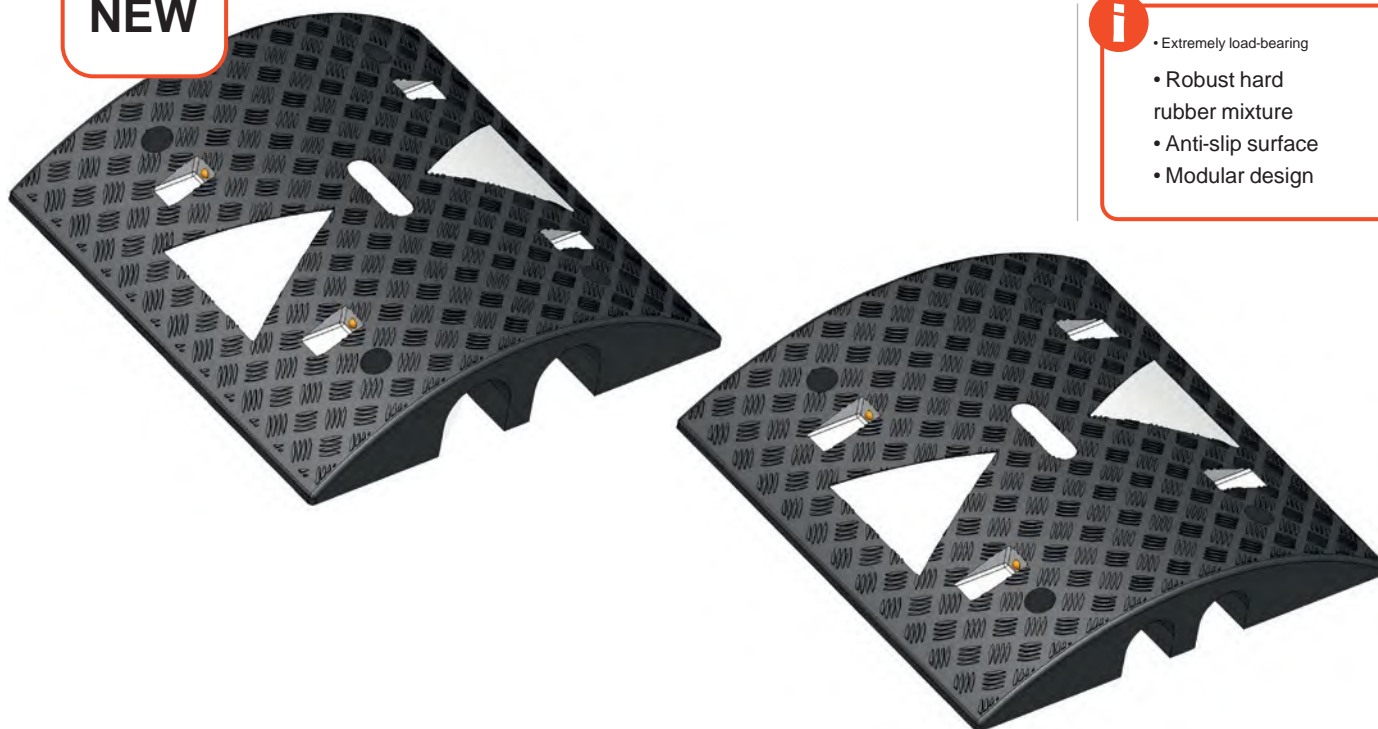
Designed for construction sites and frequent heavy traffic. Can be expanded as needed. Drive-over height 85 mm, extra flat ramped. Also suitable for forklifts with appropriately sized wheels (from 35 cm in diameter). Yellow reflective stripes for better visibility.

2 hose channels:  
each 92 mm for hoses up to 75 mm in diameter (B-, C-, and D-hoses).



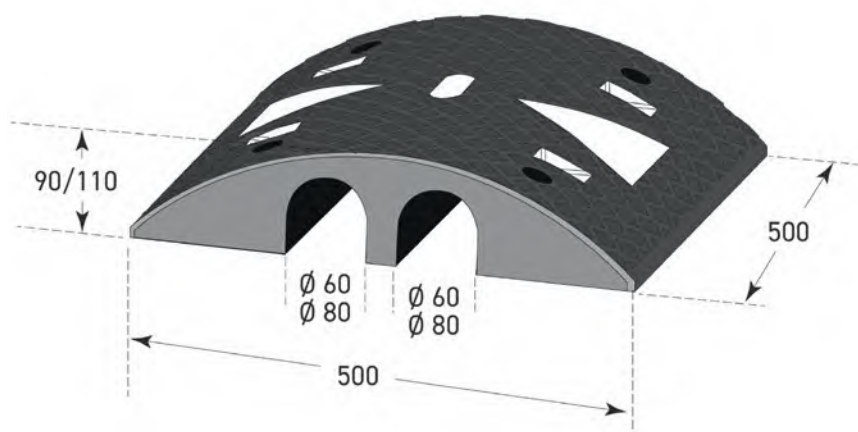
Dimensions (mm) L x W x H	Shipping weight kg/pc.	Article	€/pc.
855 x 300 x 85	13	279.14.327	

**NEW**



- Extremely load-bearing
- Robust hard rubber mixture
- Anti-slip surface
- Modular design

## MORION Cable Bridge XL



Specifically developed for the toughest requirements, the truck cable bridge effectively protects pipes, hoses, or cables from damage caused by heavy vehicles.

The robust hard rubber mixture with slip-resistant surface and white arrow markings ensures secure grip and clear traffic guidance.

Thanks to the modular design multiple elements can be assembled in endless construction using H-connectors.



### TIP:

Ideal for use in construction sites, events, or industrial applications.



### Note:

The cable bridge is specifically designed for use in heavy-duty areas and is not suitable for car traffic, as damage to the vehicle can occur due to the height of up to 110 mm. **ONLY** for trucks (max. 40t)

Dimensions (mm) L x W x H	2 cable channels (mm)	Shipping weight kg/piece	Article	€/St.
500 x 500 x 90	60 x 60	16.1	279.17.5844	
500 x 500 x 110	80 x 80	18.6	279.17.5845	



Barriers

MORION Barrier Tape



Inexpensive, extremely tear-resistant multipurpose tape made of polyethylene.

Environmentally friendly.

Quick securing of construction and hazard sites. Effective blocking of dangerous areas, driveways, and parking lots. Effortless marking of traffic routes and obstacles.

- Role 500 m / Width 80 mm
- Printed on both sides in red-white or black-yellow, lightfast
- In a sturdy roll box
- Recycled variant "Blue Angel" certified. PVC and heavy metal free.

i

- Made of polyethylene
- Quick blocking
- Tear-resistant
- Inexpensive
- Recycled variant



Barrier tape	Dimension Roll	Shipping weight kg/pc.	Article	when purchasing €/roll
recycled, red-white	500 m / 80 mm	1.5	330.25.943	
red-white			330.10.147	
black-yellow			330.12.762	

MORION Barrier Holder



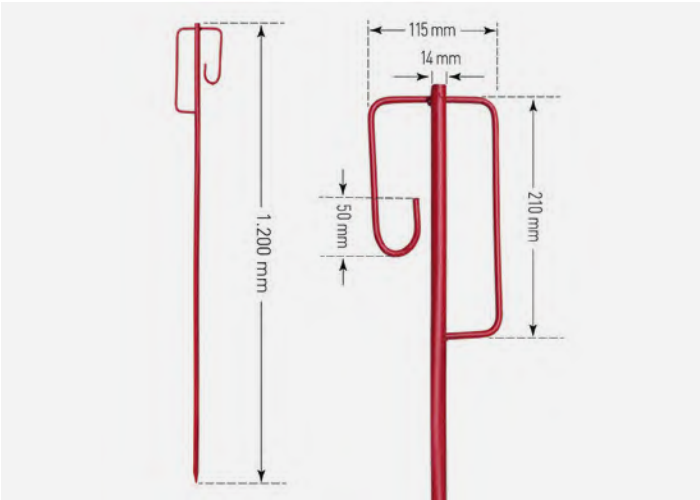
For versatile use in road construction. For securing barrier tape, strings, etc.

Made of smooth steel, with safety bracket. Red painted (in bundles). With a point for easy driving into the ground.

Dimensions: 1,200 x 115 mm, 14 mm Ø

i

- Made of steel
- With safety bracket



shut-off holder	Dimension H x Ø (mm)	Shipping weight kg/pc.	Article	upon purchase of €/piece.
red	1.200 x 14	2	339.12.480	

## MORION Barrier Fence Plastic



Barrier fence made of high-quality,

UV-resistant polyethylene (HDPE) in bright orange warning color with red and white reflective stripe (RA1). Unmissable by day and night.

For delineating non-public construction sites, blocking roads and squares. For events, to separate and direct pedestrian traffic.

Endless assembly through hook and eye principle.

Easy handling due to low weight. Still very stable due to wide base feet. The base foot is shortened towards the "pedestrian side" to minimize tripping hazards.

For the transport of the barrier grids, the base feet can be rotated sideways.

- Made of polyethylene
- With "anti-trip foot"
- Reflective
- Low weight
- Stable



Dimensions W x H x D (mm)	Shipping weight kg/pc.	Article	upon purchase of €/piece.
2,000 x 1,000 x 50	14	230.27.647	

## MORION Shaft Protection Gate Plastic



The foldable MORION shaft protection grid is made of recycled plastic with a wide reflective film type 1 for good visibility.

Four elements form a set. The clever connection technology allows for setup as a surround protection (for shafts, entrances) or in any angular shape to secure work areas.

Extremely robust design with high stability.

Each set can be connected with another set to form a larger unit.

Dimensions:  
1,000 x 1,000 x 1,000 mm

**Color:**

- red with red-white reflective film type 1

- Made of plastic
- Foldable
- Space-saving
- Low weight



Execution	Dimensions H x W x D (mm)	Shipping weight kg/piece.	Article	€/Set
red	1,000 x 1,000 x 1,000	16	230.28.687	



# Barriers

## MORION Barrier Grid Steel



For quick and effective long-term or short-term traffic management, for blocking and delineating roads and squares. For parking lots, industrial sites, events.

The hot-dip galvanized barrier grids are connected by patent closure – thus no opening by unauthorized persons.

Total width: 2,580 mm Grid width: 2,500 mm

Height: 1,100 mm

Frame tube: 34 mm Ø

Filling rods: 13 pieces, each 20 mm Ø



- Made of steel
- Patent closure
- Very robust
- Stable



Dimensions B x H (mm)	Shipping weight kg/pc.	Article	upon purchase of €/piece
2,580 x 1,100	22	230.12.918	

## Scissor Barriers



For quick blocking or releasing of construction sites, access roads, restricted areas, danger zones, etc.

### Heavy scissor barrier FRANKFURT

Stand made of steel tube. Bars made of flat steel 40/5 mm. With red reflective stripes. Extendable up to 4 m in length.

Height 1,000 mm.

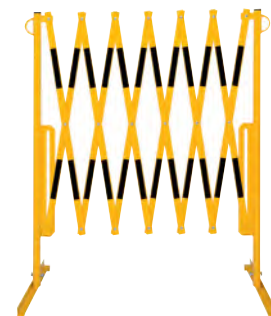
Stand feet 500 mm with wing nuts for locking.

### Light scissor lock HEIDELBERG

Like model FRANKFURT, but flat steel 25/4 mm. Extendable up to 3.6 m length. Height 1,000 mm.



- Made of steel tube
- Quick locking
- Extendable
- Two variants



Execution	Extendable up to mm	Shipping weight kg/piece	Article	€/piece
HEIDELBERG G red-white	3,600	13	340.11.363	
HEIDELBERG G yellow-black			340.88.015	
FRANKFURT	4,000	25	340.12.455	

## Scherensperre EASY-GATE

**NEW**



The mobile barrier made of robust plastic (PE) is ideal for securing hazardous areas. It can be filled with sand to increase stability. With the red and white reflectors, it also ensures good visibility in the dark.

The barrier can be extended up to a length of 2,500 mm and does not require permanent installation.

Total width: 2,500 mm  
Height: 960 mm  
Depth: 380 mm  
Weight: 6.1 kg (unfilled)

When not in use, the barrier can be folded down to 300 mm to save space.



- Mobile barrier
- Fillable for increased stability
- High visibility due to integrated reflective strips
- Also suitable for outdoor use
- Space-saving storage



## Mobile barrier FLEX-GUARD

**NEW**



The mobile barrier system is ideal for the flexible securing of maintenance, cleaning, and marking work indoors.

It consists of 16 permanently connected elements and can be extended up to 4 meters.

Smooth-running solid rubber wheels and ergonomic handles allow for easy transport.

Every second element is equipped with a warning symbol.

When not in use, the barrier can be folded down to save space to 320 mm.

Stable rubber bands keep the barrier closed.



- Mobile barrier for indoor use
- Quick and flexible to use
- Setup: straight, curved, circular
- Extendable up to 4 meters
- Easy transport



Dimensions W x H (mm)	Extendable up to (mm)	Shipping weight kg/pc.	Item	€/pc.
300 x 960	2.500	6.2	340.17.5842	

Dimensions W x H (mm)	Extendable up to (mm)	Shipping weight kg/pc.	Article	€/pc.
320 x 1,000	4.000	15.1	340.17.5843	





- i**
  - Flexibly usable
  - Tripod
  - Stable
  - Foldable

Equipped with carrying handle and standardized opening for the reception of warning lights (pipe diameter 12 mm, length 25 mm) (by the construction site).

Two versions:

- Retroreflective
- Fluorescent

Two sizes:

- 700 mm side length of the traffic sign, 970 mm total length (urban and rural areas)
- 900 mm side length of the traffic sign, 1,270 mm total length (expressways and highways)

TRIO folding signal

The three-legged folding signal quickly and conspicuously secures work, accident, and hazard sites. When deployed, large visibility areas ensure early recognition. When folded, the TRIO fits anywhere in the included transport case.

A high level of stability and a long service life are ensured by the robust construction, the practical folding mechanism, and the durable, mechanically high-loadable foil.

TRIO folding signals can be used flexibly. All traffic signs are available. Additional texts can be easily changed using 3 push buttons.

Other symbols and additional texts on request (from 5 pieces).

TRIO additional texts		reflective		
Execution	Dimensions (mm)	Shipping weight kg/pc.	Article	€/piece
Gas works	700	1	344.18.056	
	900		344.15.185	
Accident	700		344.18.698	
	900		344.14.828	
Oil trail	700		344.16.120	
	900		344.88.097	
Mowing work	700		344.14.101	
	900		344.13.756	
Sewer work	700		344.14.421	
	900		344.15.092	

TRIO Fault Signal		fluorescent			retro-reflective		
Execution	Dimensions (mm)	Shipping weight kg/pc.	Article	€/piece	Shipping kg/pc.	Article	€/pc.
Z 123 Construction site	700	5	344.15.646		5	344.16.330	
	900	6	344.15.416		6	344.13.291	
Z 101 "I" (Hazard area)	700	5	344.13.604		5	344.18.598	
	900	6	344.18.477		6	344.18.659	

## MORION Warning Marking

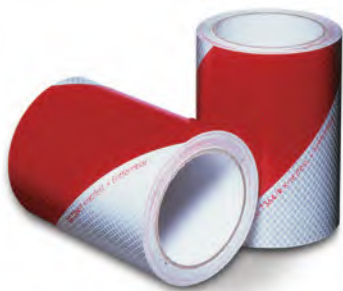


Vehicles used in the construction, maintenance, waste disposal, or cleaning of roads must be marked with red-white reflective warning marking, film type 2 (DIN 30 710) (§ 35 StVO, para. 6).

- Optimal for flat surfaces and curves
- For permanent use
- Right and left directing
- Durable



- According to DIN 30 710
- For vehicles § 35 StVO
- Reflective RA2
- Self-adhesive
- 3M quality



## MORION Warning Marking FLEX



Vehicles used in construction, maintenance, waste collection, or street cleaning must be marked with red-white reflective warning markings, film type 2 (DIN 30 710) (§ 35 StVO, para. 6).



- According to DIN 30 710
- For vehicles § 35 StVO
- Reflective RA2
- Self-adhesive and removable
- Flexible and elastic
- Cost-effective

Premium quality through elastic base film and special adhesive. Optimal for vehicles where the film needs to be removed later (leasing).

- Flexible, adapts to folds, edges, and curves
- Correctable and removable
- Right and left directional
- Durable



For temporary use: Warning marking laminated on magnetic film.



DIN 30 710, 3M film	Dimensions	Shipping weight, kg/St.	Article	€/unit
Application package 141 = 2 rolls (each 1 right- and left-directed)	at 141 mm x 9 m	1.5	430.12.392	
Application package 282 = 2 rolls (each 1 right- and left-directed)	at 282 mm x 9 m	3	430.10.124	
Roll 141 left-handed = 1 roll	141 mm x 45.7 m	4	430.11.067	
Roll 141 right-handed = 1 roll			430.12.012	

DIN 30 710, Flex film	Dimension	Shipping weight, kg/piece	Article	€/unit
Application package 141 = 2 rolls (each 1 right-handed and left-handed)	at 141 mm x 9 m	1.5	430.26.748	
Application package 282 = 2 rolls (each 1 right- and left-handed)	at 282 mm x 9 m	4	430.26.655	
Roll 141 left-handed = 1 roll	141 mm x 50 m	4	430.25.900	
Roll 141 right-handed = 1 roll			430.27.176	
Application package 141 = magnetic	at 141 mm x 282 mm	2	430.13.518	

8 cut pieces: 4 right-hand and 4 left-hand each



Traffic cone



- i**
  - Made of PVC
  - One-piece
  - Weight class II and III
  - Red-white retro-reflective
  - Film type A and B
  - According to TL and DIN 13422
  - BAST tested

750 mm with grip recess



MORION Traffic Cone EU

One-piece, red-orange traffic cones made of PVC for use in public areas. Fully red-white retroreflective. Meets weight class II of the TL traffic cones. Therefore particularly suitable for frequent repositioning of the cones (e.g. marking, mowing work).

Two heights: 500 and 750 mm

Cone base: 500 mm = 287 x 287 x 33 mm  
750 mm = 400 x 400 x 39 mm

Types of films:

- Type A; RA1 (Reflective film)
- Type B; RA2 (High reflective film)

Corresponds to the TL guide cone and DIN EN 13422 – BAST tested.

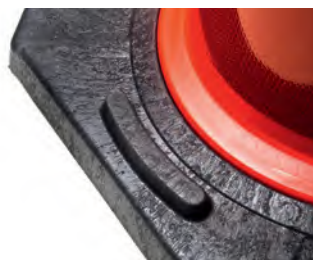
Weight class III for cones 750 mm for even higher stability (TL-compliant).



Note:

According to RSA21, the minimum reflection class is RA2.

Film type/BAST No.	Height (mm)	Shipping weight kg/pc.	Article	when purchasing €/pc.
A (RA1) V4-19/2013	500	2.5	353.27.477	
B (RA2) V4-20/2013	500 (according to RSA21, the minimum reflection class is RA2)		353.23.503	
A (RA1) V4-22/2013	750	4.5	353.24.250	
B (RA2) V4-07/2015	750 (according to RSA21, the minimum reflection class is RA2)		353.26.580	
A (RA1)	750	5.5	353.24.305	
B (RA2)			353.25.467	



- Made of PE and recycled PVC
- Two-part
- Weight class III
- Stable
- Film type A and B
- According to TL and DIN 13422
- BASt tested

## MORION Reflex Cone EU

Further development of the previous Reflex Cone. Takes into account increased requirements from practice and new international standards.

### Future-proof:

Meets national and international standards. Tested according to:

- TL traffic cone – BASt tested
- DIN EN 13422 – BASt tested

Usable throughout the EU, Switzerland, and Norway. Required for heavy-duty escort vehicles (BF3/BF4) – in version 750 mm RA2.

### Practice-oriented:

- Extra-wide grip recess for safe handling
- Better protection of the red-white reflective film through extra high spacers



### Note:

According to RSA21, the minimum reflection class is RA2.

- Bottom with corner knobs (adjustable over fresh markings)
- Heavy, optimized traffic cone base

Two heights: 500 and 750 mm

Cone base: 500 mm = 315 x 315 x 43 mm  
750 mm = 445 x 445 x 43 mm

### Types of films:

- Type A; RA1 (Reflective foil)
- Type B; RA2 (High reflective foil)

Foil type/BASt-No.	Height (mm)	Shipping weight kg/pc.	Article	upon removal of €/piece.
A (RA1) V4-05/2012	500	3	350.27.508	
B (RA2) V4-06/2012	500 (according to RSA21, the minimum reflection class is RA2)		350.29.878	
A (RA1) V4-07/2012	750	6	350.20.286	
B (RA2) V4-08/2012	750 (according to RSA21, the minimum reflection class is RA2)		350.28.280	



# Guide cone

## MORION Reflective Cone



Secure construction sites quickly and reliably. Excellent visibility day and night due to the fully retroreflective red-white reflective film. With particularly strong wide-angle effect.

Shatterproof, cold and heat resistant, flexible and stable. Comply with the TL guide cones.

The reflective material corresponds to film type A of the TL guide cones.

### High stability

Corresponds to weight class III of the TL guide cones. Can be easily removed by a slow-moving vehicle.

### Exemplary passive safety

Break point when driven over at high speed. The lightweight cone body separates from the heavy cone base.



- Made of PE and recycled PVC
- Two-part
- Weight class III
- Stable
- Cone Type A
- Tested according to TL, BAST

#### Environmentally friendly

Base made of recycled material. Base and reflective film can be separated and disposed of in a sorted manner.

Two heights: 500 and 750 mm

Cone base: 500 mm = 310 x 310 x 45 mm  
750 mm = 440 x 440 x 42 mm

Foil type/BAST. No.	Height (mm)	Shipping weight kg/pc.	Article	upon acceptance of €/piece.
A (RA1) 94 3F 001	500	3	350.10.927	
A (RA1) 94 3S 001	750	6	350.12.728	

## EUROPA Guide Cone



- Made of rubber
- One-piece
- Frost-resistant
- Stable

Guide cone made of durable rubber mixture for non-public areas. Extremely popular in traffic training and education, practice areas, test tracks, and car races due to its flexible shape.

Flexible and robust. Absolutely weather-resistant. Not brittle even at extremely low temperatures. Large square base plate, wide cone shape. Low center of gravity. Stable.

Two heights:

- 330 mm with a painted red ring
- 510 mm with two painted red rings



#### Note:

Traffic cones are required in public areas according to TL.

Colors: red-white or red-yellow. Other colors on request (e.g. blue-white), from 30 pieces.



Color	Height (mm)	Shipping weight kg/piece.	Article	when purchased at €/piece.
KOBOLD				
red-white	330	1.1	352.12.354	
red-yellow			352.11.420	
JUNIOR				
red-white	510	2.3	352.11.489	
red-yellow			352.11.136	

## Day-glow traffic cone



The affordable alternative.

Use in operational and non-public areas. For quick and short-term barriers and safety measures. Good warning effect due to the day-glow red-orange coloring. Not BASt tested.

Three heights:

- 350 mm with a white ring
- 500 and 750 mm with two white rings

Cone base: 350 mm = 230 x 230 mm, 500 mm = 290 x 290 mm, 750 mm = 400 x 400 mm



### Note:

In public areas, traffic cones are required according to TL.



- Made of PVC
- One-piece
- Durable
- Affordable
- Three sizes



## Day-glow traffic cone – Set



- Temporary blocking
- Space-saving
- Affordable
- Two sizes
- 5-piece set

The cone sets are quick and easy to set up. Ideal for temporary barriers.

Simply attach the freely rotating chain hook made of polyethylene to the cone and hang the chain. The hooks' slats adapt to the cone openings and ensure a secure hold.

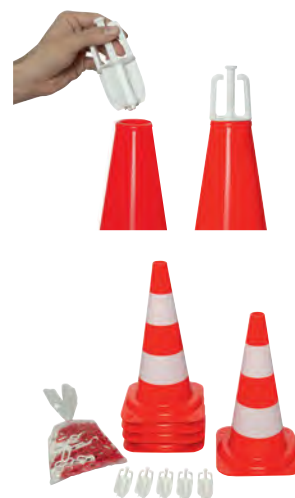
### Set consisting of:

5 day-glow traffic cones (500 or 750 mm), 10 m chain red/white (M-Poly-Visibility) and 5 chain hooks

Chain hooks also available individually:

1 package = 10 pieces

Alternatively also for blocking with barrier tape.



Height (mm)	Shipping kg/pc.	Article	when purchasing at €/pc.
350	1.4	353.15.697	
500	1.7	353.14.107	
750	3.6	353.19.386	

Height (mm)	Versandgewicht kg/St.	Article	€/Set
500	9	353.22.257	
750	23	353.24.112	
Chain hook 1 VE = 10 pieces	0.8	353.25.477	



Traffic cone



i

- Made of PVC
- One-piece
- Film type A
- Two sizes



Reflective traffic cone

Traffic cone made of high-quality PVC. For quick and short-term barriers and safety measures in operational and non-public areas. Solid orange with reflective stripes.

Cone base:  
300 mm = 225 x 225 mm  
500 mm = 285 x 285 mm

Reflective strip:  
300 mm = 1 reflective strip  
type A, 80 mm high  
500 mm = 2 reflective strips  
type A, 85 mm high



**Note:**  
In public areas, traffic cones are required according to TL.



Height (mm)	Shipping weight kg/piece	Article	upon purchase of	€/piece
300	1.1	353.20.251		
500	2	353.26.195		



- Made from recycled material
- For delimiting
- Low construction
- Reflective
- Two colors



## MORION divider

Frontal or lateral parking delimitation. Replaces or supports the marking of parking spaces. Provides orientation. Optimizes the available space. Ideal for parking lots, in parking garages and underground garages, for marking no-parking areas.

Also passable due to low construction height.

Made from reprocessed rubber. Available in black or reddish-brown, each with integrated white retroreflective tape.

Mounting dowels for concrete or asphalt floor are included in the delivery.

Additionally, bonding is possible.



Color	Dimensions (mm) L x W x H	Shipping weight kg/pc.	Item	€/piece
red-brown	1,200 x 150 x 45	8.5	287.27.076	
black			287.22.556	





## Traffic regulation and parking aids

FOR A FUNCTIONAL DESIGN OF  
PARKING AND TRAFFIC AREAS!

Our solutions for traffic regulation and parking aids help you and your customers to optimally organize parking spaces and traffic areas. Whether parking aids, curb ramps, guide cylinders, or road humps – our products enable targeted traffic control and contribute to speed reduction. Rely on our high-quality systems for smooth traffic management and well-structured parking space design.

### Parking aids 157

Curb ramps	160
Guide cylinders	164
Road humps	167



- Complete set including fastening material •
- Sustainable from recycled material •
- Durable and resistant •
- Optimal visibility •
- Bonding with special adhesive possible



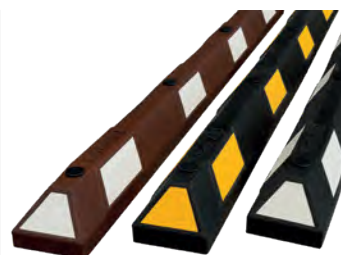
Wheel stop Park-AID®

The further development of our proven wheel stop: Optimized, modern design, even better quality. For lateral or frontal parking limitation. Facilitates parking, creates order and safety.

Recycled rubber, highly compressed, for long durability. Very good visibility all around: Double-sided reflective strips – also on the front side. Oil and temperature resistant as well as UV-stable. For bolting.

Colors: • Black with yellow or white reflective strips • Red-brown with white reflective strips

Mounting dowel for concrete or asphalt floor included. Alternatively, bonding is possible.



Special adhesive for Park-AID®

Bonding instead of bolting: 3-component adhesive based on resin with fast-reactive binding agent. For substrates made of concrete, asphalt, bitumen, and epoxy-coated surfaces. Neutral, dark shade (RAL 7021).

17.2 kg of which 12 kg quartz sand (filler), 5 kg binder and 0.2 kg hardener



Consumption: approx. 4.5 kg per sqm (at 3 mm layer thickness)



## Assembly instructions:

For a well-shaped finish of the extruding adhesive, a (cardboard) template is recommended.



## TIP:

Adhesion test on PU-coated or extremely smooth polished surfaces.

Color	Reflective strips	Dimensions (mm) L x W x H	Shipping weight kg/piece	Article	€/St.
black	white	550 x 150 x 100	4.5	284.26.477	
	yellow			284.27.207	
black	white	900 x 150 x 100	8	284.25.032	
	yellow			284.25.716	
red-brown	white			284.26.790	
black	white	1,200 x 150 x 100	11	284.24.168	
	yellow			284.29.869	
red-brown	white			284.29.455	
black	white	1.800 x 150 x 100	17	284.28.572	
	yellow			284.20.974	
red-brown	white			284.20.818	



Special adhesive for Park-AID®		
Shipping kg/pc.	Article	€/pc.
18	284.25.975	



## Parking aids



- Robust and eye-catching
- Simple, quick assembly through plug-in system
- Available in three color variations
- For bolting down



### BLACK BULL truck entry aid



MADE IN  
GERMANY

The truck entry aid clearly and safely delineates entry areas and assists truck drivers when reversing. Ideal for marking access to loading ramps. For better visibility with (reflective) stripes.

Set consisting of one left/right entry angle and two entry straight sections.

High resistance due to pressure distribution over three base plates on each side.

The truck entry aid can be ideally complemented with the impact protection post truck parking aid (see p. 141).

#### Surface treatment:

- For outdoor use:  
hot-dip galvanized  
hot-dip galvanized and plastic-coated

#### Color:

Zinc color with red reflective stripes  
White with red reflective stripes  
Traffic yellow with black stripes

#### Dimensions:

Total length: 2,800 mm each

Height: 280 mm

Diameter: 108 mm

Wall thickness: 3.9 mm

Base plate: 200 x 200 x 10

Drill hole: mm Ø 18 mm

#### Fastening:

for doweling

Fastening material: choose fastening according to substrate (24 dowels per set)



More info  
about the  
product:



Color	Design	Dimensions (mm) H x Ø x total length	Shipping weight kg/piece	Article	€/St.
zinc color with red reflective stripes	hot-dip galvanized	280 x 108 x 2,800	92.5	204.24.389	
white (RAL 9016) with red reflective stripes	hot-dip galvanized and plastic-coated			204.23.146	
yellow (RAL 1023) with black stripes				204.27.383	
You need 24 fastening elements. You can find suitable material on pages 74/75.					

You need 24 fastening elements. You can find suitable material on pages 74/75.



- Made of galvanized steel
- 4.5 mm wall thickness
- Perfect for combination with the BLACK BULL truck entry aid
- Three color variations
- For bolting down



## BLACK BULL impact protection post truck parking aid



MADE IN GERMANY

Robust and eye-catching truck parking aid for better marking of truck parking areas and entries. Ideal for loading ramp access.

Good visibility thanks to eye-catching signal colors and reflective strips.

The truck parking aid can be ideally complemented with the truck entry aid (see p. 140).

### Surface treatment:

- For outdoor use:  
hot-dip galvanized  
hot-dip galvanized and plastic-coated

### Color:

Zinc colors with red reflective stripes  
White with red reflective stripes  
Black with yellow reflective stripes

### Dimensions:

Height: 500 mm  
Diameter: 159 mm  
Wall thickness: 4.5 mm  
base plate: 250 x 250 x 15 mm  
drill hole: mmØ 18 mm

Mounting:  
for doweling

Fastening material: Choose fastening depending on the substrate (4 dowels per post)



More info about the product:



Color	Execution	Dimensions (mm) D x WS x H	Shipping weight kg/pc.	Item	€/pc.
zinc colors with red reflective stripes	hot-dip galvanized	159 x 4.5 x 500	17.8	204.23.278	
white (RAL 9016) with red reflective stripes	hot-dip galvanized and plastic-coated			204.22.040	
black (RAL 9005) with yellow reflective stripes				204.27.333	

You need 4 fasteners. You can find suitable material on pages 74/75.



Curbs ramps

Curbs ramp rubber



Curbs ramp made of vulcanized rubber, black dyed with white reflective areas.  
No assembly required. Safe due to high self-weight. Additional anchoring possible.

Especially suitable when a flat incline is desired.  
Ideal for walkers, wheelchairs, vehicles, hand trucks.

By using a plug-in system, multiple ramps can be connected side by side as needed to achieve the desired width and thus enable use for wheelchair users.

Mounting materials included in the delivery.

- Especially flat incline
- Low height
- Additional anchoring possible
- Ribbed surface
- Suitable for trucks



Execution	Dimensions (mm) W x D x H	Color	Shipping weight kg/pc.	Article	€/pc.
Standard element	450 x 1,000 x 75	black with white reflective areas	25.2	279.23.061	

MORION curbs ramp rubber



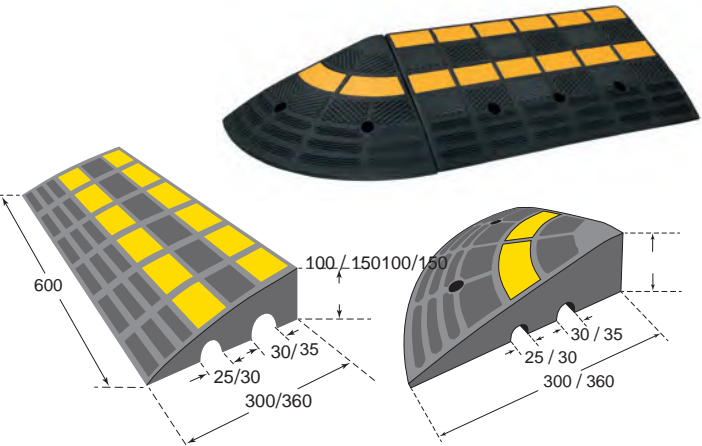
Curbs ramp made of robust hard rubber for barrier-free access  
sidewalks and steps. For home and garage driveways. Also usable in commercial areas (pallet trucks, hand trucks, etc.).

The profiled anti-slip surface and yellow reflective stripes ensure optimal safety. Cutouts on the underside allow rainwater to drain away. Also usable as cable channels.

Permanent fixation possible through integrated dowel receptacles. Load capacity: up to 40 t

- Made of hard rubber
- Suitable for trucks
- Ribbed surface
- Yellow reflective
- Two variants

No assembly required: End elements are placed laterally against the standard elements.



execution	dimensions (mm) L x W x H	Color	Shipping weight kg/pc.	Article	€/piece
standard element	300 x 600 x 100	black, yellow reflective	11	279.23.929	
	360 x 600 x 150		20	279.20.108	
End element	300 x 300 x 100		3.8	279.26.585	
	360 x 360 x 150		7.4	279.28.383	



- i**
  - Made from recycled material
  - For cars
  - For limiting
  - Reflective
  - Two colors

MORION wheel stop

Frontal parking limitation.  
Enables precise parking. Protects  
buildings, garden areas, vehicles.

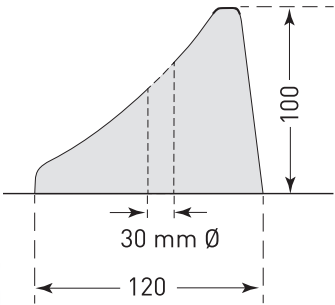
Optimizes the available space.  
Ideal for parking lots, in parking  
garages and underground garages.

Made from reprocessed rubber.  
Available in black or reddish-  
brown, each with integrated white  
retroreflective tape.

Mounting dowels for concrete  
or asphalt floors are included  
in the delivery.



**Note:**  
Additionally, bonding is possible.



Color	Dimensions (mm) L x W x H	Shipping weight kg/piece.	Article	€/piece
reddish- brown	750 x 120 x 100	6.5	287.26.302	
black			287.20.816	



Parking aids



- i**
  - Made from recycled material
  - For trucks, buses
  - Precise parking
  - Maneuvering aid
  - Massive construction

MORION wheel stop  
Heavy Duty

Parking limits and maneuvering aid for trucks, buses, large vehicles, and industrial trucks.

Enables precise parking and maneuvering. Prevents damage to vehicles, buildings, or attachments.

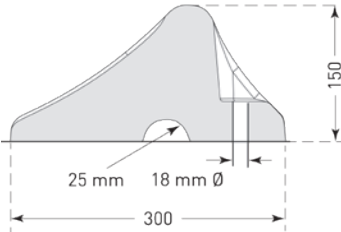
Made of reprocessed, highly compressed rubber. Black with a yellow reflective stripe.

The underside features a cable channel (25 mm), additional cutouts allow for rainwater drainage.

Mounting dowels (5 pieces) for concrete or asphalt floors are included in the delivery.

**👍**

**Note:**  
Additionally, gluing is possible.



Color	Dimensions (mm) L x W x H	Shipping weight kg/pc.	Article	€/pc.
black	1,000 x 300 x 150	26.5	284.29.405	

NEU



- Easy handling and low transport costs due to low weight (approx. 18 kg)
- Grip recesses on both sides
- Better CO2 footprint due to less material
- Four rain drainage channels
- Good visibility due to yellow signal strip

MORION wheel stop  
Heavy Duty ECO

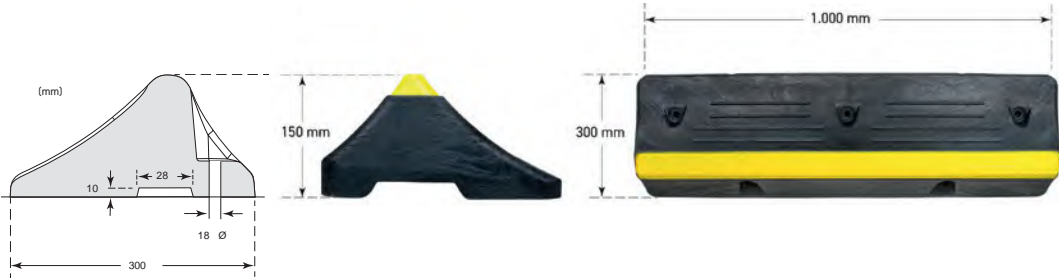
Parking limit and maneuvering aid for large vehicles

The ideal solution for precise parking and maneuvering of trucks, buses, large vehicles, and industrial trucks. This robust parking barrier helps to avoid damage to vehicles, buildings, and extensions.

Main features:

- Material: Recycled rubber, 100% recyclable
- Easy installation: Includes 5 mounting dowels, adhesive
- Cable channel: Bottom with cable channel (28 x 10 mm)
- Drainage: Cutouts for rainwater drainage
- Handling: Integrated grip recesses
- Visibility: Yellow marking for more safety

Dimensions:  
Length: 1,000 mm  
Width: 300 mm  
Height: 150 mm



Color	black	1,000 x 300 x 150	Shipping weight kg/pc.	18.7
schwarz	Dimensions (mm) L x W x H	Article	€/pc.	



Guide cylinder



- i*
  - For inside and outside
  - Made of polyethylene
  - Driveable
  - With joint
  - Two-part
  - Reflective



FlexPin

FlexPins are fully reflective guide cylinders made of polyethylene. They warn of dangers and obstacles, separate lanes or types of traffic from each other. For flexible separation of paths and transitions, as boundary posts. Unmissable by day and night.

The FlexPin is the "flexible" variant of the GuidePin. Due to a joint at the cylinder base, it can be approached safely and can be rolled over in an emergency. After that, it automatically rights itself.

Ideal where occasional driving on or over is unavoidable. A bayonet lock connects the cylinder to the robust rubber base. This is either anchored with screws or glued to the roadway with commercially available adhesive.

Diameter: 100 mm  
Base dimensions of the cylinder:  
60 mm height 270 mm Ø

- Guide cylinder red, red-white reflective foil
- Guide cylinder black, yellow reflective foil



Model	Height (mm)	Color	Shipping weight kg/pc.	Article	upon purchase of €/piece
46-TL	460	red-white	1.5	291.10.114	
		black-yellow		291.28.861	
76-TL	760	red-white	2	291.12.496	
		black-yellow		291.25.790	
100-TL	1,000	red-white	2.5	291.11.558	
		black-yellow		291.27.118	
recycling foot (order separately)	60	black	2	291.11.145	

## GuidePin



GuidePins are fully reflective guide cylinders made of polyethylene. They warn of dangers and obstacles, separate lanes or types of traffic from each other. For flexible separation of paths and transitions, as boundary posts. Unmissable by day and night.

Hit GuidePins realign themselves multiple times.

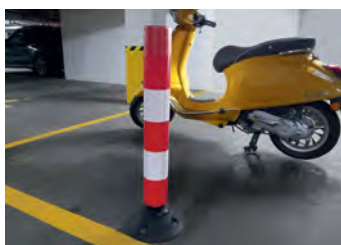
A bayonet lock connects the cylinder with the robust rubber foot. This is either anchored with dowels or glued to the roadway with commercially available adhesive.

Diameter: 100 mm

Dimensions of recycling foot: 60 mm height, 270 mm Ø



- For indoors and outdoors
- Made of polyethylene
- Driveable
- Two-part
- Red-white reflective



**TIP:** If a run-over is not excluded, the FlexPin or ComeBack is recommended.

## GuidePin with eye cap



- For indoor and outdoor use
- Made of polyethylene
- With chain attachment
- Two-part
- Red-white reflective

Lead pin with additional eye cap. In connection with a plastic chain, even larger areas can be easily, flexibly, and cost-effectively delineated.

With the rotatable eye cap, any corner variant can be easily realized. Suitable for both temporary and permanent use. Simply pull the chain through the eye cap and secure the starting and end posts with a link or hook.

Height: Dia 1,050  
meter: mm100  
mm  
Dimensions cylinder base:  
60 mm height 270 mm Ø

Maximum distance of the guide pins: 2.0 m

Accessories chains on page 120/121.



Model	Height (mm)	Shipping weight kg/pc.	Article	when purchasing at €/piece.
46-TL	460	1.5	290.11.651	
76-TL	760	2	290.12.493	
100-TL	1.000	2.5	290.10.629	
Recycling foot (order separately)		2	291.11.145	

Model	Height (mm)	Shipping kg/pc.	Article	when purchasing at €/pc.
100-TL	1.050	2.7	290.22.907	
Recycling foot (order separately)		2	291.11.145	



## LeitPin-Boje



Reflektierender Leitzyliner aus Polyethylen mit Stahlseil zur Decken- und Bodenmontage.

Konzipiert, um deutlich auf Schächte, Be- und Entlüftungsröhre, Leitungen oder Mauervorsprünge hinzuweisen.

Das Stahlseil wird an der Decke und am Boden befestigt. Fixierung der LeitPin-Boje in jeder beliebigen Höhe.

Maße Leitzyliner: 950 mm Höhe  
100 mm Ø  
Länge des Stahlseils: 2.500 mm

Im Lieferumfang sind Seil, Klemmen, Höhenfixierung und Spannschloss enthalten.



- Für innen und außen
- Aus Polyethylen
- Variable Befestigungshöhe
- Reflektierend



Farbe	Höhe (mm)	Versandgew. kg/St.	Artikel	bei Abnahme von €/St.
rot-weiß	950	2,5	290.28.881	
schwarz-gelb			290.22.266	

## ComeBack



Einteiliger, roter Leitzyliner mit integriertem Fuß zum Aufdübeln. Mit weiß reflektierenden Streifen.

Die besondere Materialmischung aus thermoplastischem Polyurethan (TPU) erlaubt ein gefahrloses Anfahren des ComeBack. Richtet sich danach von selbst wieder auf.

- Signalrot mit Reflexstreifen
- 360° knickbar
- Selbstaufrichtend
- Hohe Verschleißfestigkeit



- Hohe optische Schutzwirkung
- Minimiert Schäden bei Kollision
- Flexibel, selbstaufrichtend und langlebig
- Aus hochwertigem TPU-Kunststoff

Durchmesser: 80 mm

Fuß: 200 mm Ø



Höhe (mm)	Versandgew. kg/St.	Artikel	bei Abnahme von €/St.
460	2	290.22.452	
760	2,5	290.23.682	
1.000	3,0	290.28.332	



- Recyclingmaterial
- Extrabreite Elemente
- Für 1 bis 10 km/h
- Mit Katzenaugen
- Gelbe Reflexstreifen



## EasyRide Fahrbahnschwelle



Die EasyRide Fahrbahnschwelle ist der konzeptionelle Gegenentwurf zu der SafeRide Schwelle (S. 148).

Ziel ist es, eine sehr deutlich spürbare fahrdynamische Wirkung zu erzielen, um die Passiergeschwindigkeit stark zu reduzieren. Erreicht wird dies durch eine kurze Überfahrlänge von nur 300 mm und Bauhöhen von 55 und 75 mm.

EasyRide wird aus schwarzem Recycling-Gummi hergestellt. Gut sichtbar durch gelbes Reflexband und zusätzliche Katzenaugen.

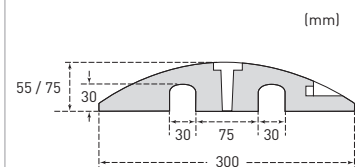
Die Elemente werden durch ein Nut- und Zapfensystem miteinander verbunden und anschließend aufgedübelt.

Zwei Höhen für verschiedene Geschwindigkeiten:

**EasyRide 55**  
(Bauhöhe 55 mm) für 6–10 km/h

**EasyRide 75**  
(Bauhöhe 75 mm) bis 5 km/h

- Schnell und leicht zu montieren
- Effizient: hoch wirksam
- Gut sichtbar
- Umweltfreundlich
- Als Kabelbrücke nutzbar (2 x 30 mm Ø)



Ausführung	Farbe	Abmessung (mm) L x B x H	Versandgew. kg/St.	Artikel	€/St.
Normelement	schwarz/gelb	300 x 1.800 x 55	35	284.21.993	
		300 x 1.800 x 75	38	284.25.570	
Abschlusselement mit Zapfen	schwarz	300 x 225 x 55	3	284.21.702	
		300 x 225 x 75	4	284.23.739	

Sie benötigen 4 Befestigungselemente pro Normelement und 1 Befestigungselement pro Abschlusselement. Passendes Material finden Sie auf Seite 74/75.



Road bumps



- i**
  - Recycled material
  - For heavy traffic
  - Pleasant to drive over
  - For 15 to 30 km/h
  - Yellow reflective stripes



SafeRide road bump



The SafeRide road threshold allows for a pleasant crossing without sacrificing the desired reduction of dynamic driving effects.

This is achieved by a crossing length of 900 mm or 940 mm and a less steep ramp.

Calms traffic in operational areas, airports and container ports, open spaces, entrances and exits, loading areas, etc.

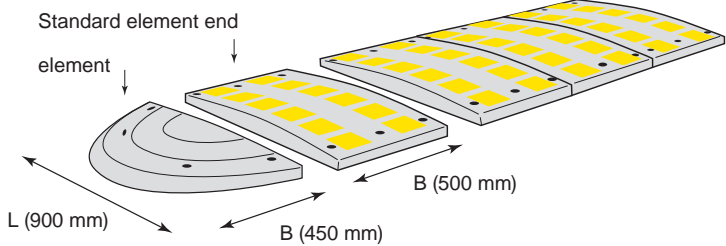
SafeRide is made from recycled rubber and is suitable for permanent heavy-duty traffic. Integrated yellow reflective inserts for good visibility at night.

The individual elements are connected through a tongue and groove system and then doweled.

For long-term use, additional gluing of the elements is recommended.

- Two heights for different speeds:
- SafeRide 50**  
(Construction height 50 mm) for 25-30 km/h
  - SafeRide 70**  
(Construction height 70 mm) for 15-20 km/h

- Pleasant crossing creates higher acceptance among the "users"
- Enforces appropriate driving behavior
- Grippy profile even in wet conditions
- Environmentally friendly
- For heavy-duty traffic
- Black end elements



Execution	Color	Dimension (mm)L x B x H	Shipping weight kg/pc.	Article	€/St.
Standard element	black/yellow	900 x 500 x 50	17	284.20.824	
		940 x 495 x 70	20	284.26.552	
End with pin	black	900 x 450 x 50	14	284.26.082	
		940 x 450 x 70	16	284.28.854	
End with groove		900 x 450 x 50	14	284.25.564	
		940 x 450 x 70	16	284.22.604	

You need 6 fasteners per standard element and 4 fasteners per end element. You can find suitable material on pages 74/75.



- High-quality rubber
- For heavy traffic
- Durable
- For 5 to 20 km/h
- With cat eyes



## TOPSTOP road bump

Rubber



The TOPSTOP road hump made of high-quality rubber is a proven means to force drivers not to exceed certain speeds.

TOPSTOP reliably regulates traffic at exits, loading areas, scales, intersections, or kindergartens and schools. The yellow-colored and black elements with embedded cat's eyes are clearly visible day and night.

The elements are doweled. A guide rod distributes the starting forces over the entire threshold and helps with alignment. For a high proportion of heavy traffic, we recommend rubber dowels.

For use on public roads, TOPSTOP-20 is recommended.

Two heights for different speeds:

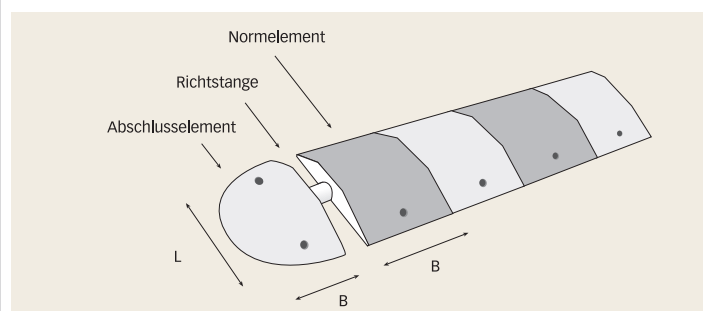
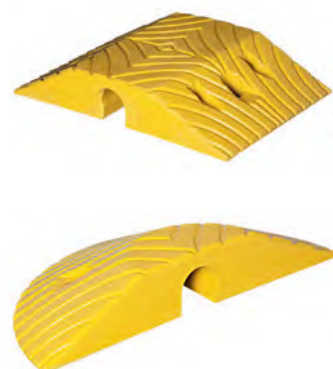
### TOPSTOP-10

(Construction height 70 mm) for 5–10 km/h

### TOPSTOP-20

(Construction height 50 mm) for 10–20 km/h

- Yellow-black contrast color
- Non-slip profile even in wet conditions
- Enforces appropriate driving behavior
- With cat eyes
- Yellow end elements



Execution	Element	Color	Dimension (mm) L x W x H	Shipping weight kg/pc.	Article	€/pc.
TOPSTOP-10	Standard element	black	405 x 250 x 70	6.5	280.10.797	
		yellow			280.12.597	
	End element	yellow	405 x 210 x 70	5.5	280.10.127	
Guide rod, price per meter (from 3 m in sections)			48 Ø/2.0 WS	4	280.10.230	
TOPSTOP-20	Normal element	black	340 x 250 x 50	5	280.11.430	
		yellow			280.12.126	
	End element	yellow	340 x 175 x 50	3	280.12.308	
Guide rod, price per meter (from 3 m in sections)			27 Ø/2.7 WS	2	280.10.955	
You need 2 fasteners per element. You can find suitable material on pages 74/75.						



## Road bumps



### TOPSTOP road bump recycling



The TOPSTOP road bump made of recycled plastic is an inexpensive means that forces drivers not to exceed certain speeds. TOPSTOP reliably regulates traffic at exits, loading areas, scales, intersections, etc. The yellow-black elements are clearly visible day and night.

The elements (5-RE and 20-RE) are connected by a groove and tenon system and then anchored.

Three heights for different speeds:

#### TOPSTOP 5-RE

(Construction height 70 mm) for 5–10 km/h

#### TOPSTOP 20-RE

(Construction height 50 mm) for 10–20 km/h

#### TOPSTOP 30-RE

(Construction height 30 mm) for 20–30 km/h

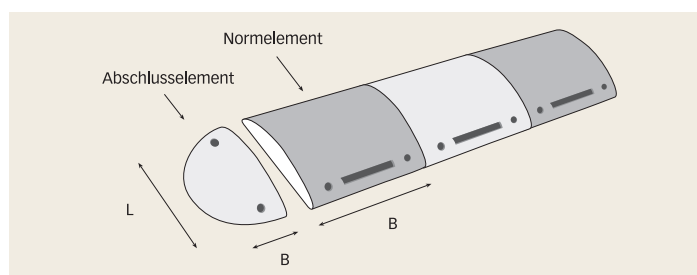
For use on public roads, TOPSTOP-20-RE and 30-RE are recommended.



# Road bumps

- Enforces appropriate driving behavior
- Grippy profile even in wet conditions
- Clearly visible thanks to cat eyes (5-RE and 20-RE)
- Yellow end elements
- Easy installation

For occasional heavy traffic and permanent use, additional bonding of the elements is recommended.



- Recycled material
- For heavy traffic
- For 5 to 30 km/h
- Environmentally friendly
- Cost-effective

Execution	Element	Color	Dimension (mm) L x W x H	Shipping weight kg/pc.	Item	€/piece
TOPSTOP 5-RE	Normal element	black	500 x 500 x 70	17	281.14.155	
		yellow			281.18.436	
	End with pin	yellow	500 x 250 x 70	5.5	281.18.224	
	End with groove				281.15.317	
TOPSTOP 20-RE	Standard element	black	400 x 500 x 50	9.5	281.16.415	
		yellow			281.18.692	
	End with pin	yellow	400 x 200 x 50	4	281.19.480	
	End with groove				281.15.466	
TOPSTOP 30-RE	Standard element	black	500 x 500 x 30	8.5	281.15.289	
		yellow			281.16.941	
	end element	yellow	500 x 250 x 30	3	281.17.266	
2-component adhesive for permanently securing the elements on traffic surfaces			ca.2 kg/m²	13.4	282.18.654	
				6.7	282.17.343	
You need 4 fastening elements per standard element and 2 fastening elements per end element. You can find suitable material on pages 74/75.						



## TOPSTOPer

Consists of two interconnected end elements of the TOPSTOP-5-RE road threshold.

For speed reduction, traffic control. To limit and mark operational areas.

For screwing or alternatively for gluing.



Dimension (mm) Ø x H	Shipping weight kg/pc.	Article	€/pc.
500 x 70	11	281.27.458	
You need 2 fasteners per element. You can find suitable material on pages 74/75.			





## Public Space

EVERYTHING ABOUT THE DESIGN OF PUBLIC AREAS!

Whether charging station protection, bike racks, bicycle stands, bollards, or system railings – our robust systems integrate seamlessly into the urban landscape and help to make public spaces safe, functional, and future-proof.

Charging Station Protection	173
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<b>Bicycle Stand</b>	181
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CITY protective frame

MADE IN  
GERMANY

Steel protective frame for securing charging stations. Cost-effective protective frame made of hot-dip galvanized steel, 60 mm Ø, 2 mm wall thickness, with reflective rings (75 mm).

Mounting types:

- for embedding in concrete, total height: 800 mm
- for bolting on, Base plate: 160 x 70 x 10 mm Drill hole: Ø 14 mm

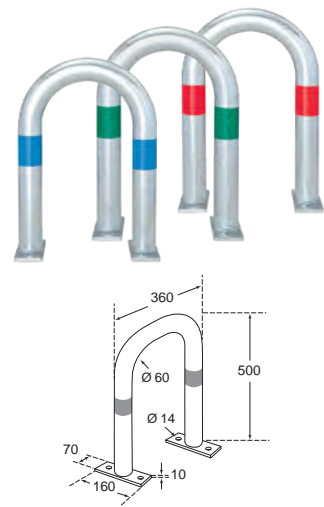
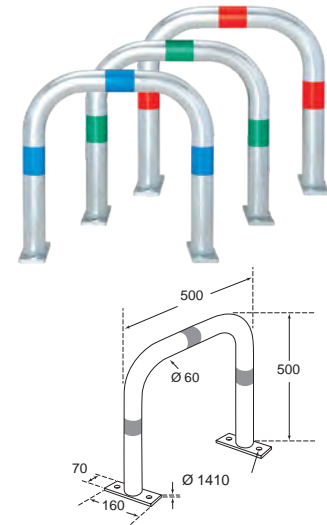
Dimensions (Above ground):

- Large bracket: Small bracket:
- 500 x 500 mm, 3 rings  
500 x 360 mm, 2 rings

Option: Hot-dip galvanized and color-coated with reflective rings. Available with additional potential equalization upon request.  
(HD 60364/OVE E 8101) for an additional charge.

i

- Reliable protection
- Robust and durable
- Available in many variants
- Corrosion protection through hot-dip galvanization
- Custom manufacturing possible



Mounting	Dimension		Shipping weight kg/pc.	Reflector rings	Article	€/piece
	Ø/H (mm)	B (mm)				
For doweling	60/500	360	5.9	blue	168.28.786	
		500	6.5		168.24.646	
		360	5.9	green	168.24.132	
		500	6.5		168.20.306	
		360	5.9	red	168.25.611	
		500	6.5		168.25.170	
For embedding in concrete	60/800	360	6.1	blue	168.24.372	
		500	6.4		168.29.954	
		360	6.1	green	168.27.147	
		500	6.4		168.21.864	
		360	6.1	red	168.24.530	
		500	6.4		168.28.150	

You need 4 fasteners. You can find suitable material on pages 74/75.





- Corrosion protected and durable
- Ideal for tight space conditions
- Optimal visibility
- Color customizable
- Individual design

## CITY protection bollard

MADE IN  
GERMANY



Steel bollard for the protection of charging stations and securing the power unit (PowerUnit).

Visually appealing protection bollard made of round steel (2.9 mm wall thickness) or stainless steel (2 mm wall thickness), 108 mm Ø, 800 mm above ground. With elegantly designed aluminum cap and reflective rings.

Available in many variants for optimal color coordination of charging station and protection bollard.

### Types of fastening:

- for embedding in concrete, total height: 1,200 mm
- for screw mounting, base plate: Ø 200 x 6 mm, drill hole: Ø 14 mm

### Additional options

- other heights and diameters
- removable with triangular lock or cylinder lock

Available on request with additional potential equalization (HD 60364/OVE E 8101) (surcharge).

Variant 1			Steel, hot-dip galvanized (Wall thickness 2.9 mm)			stainless steel (Wall thickness 2 mm)		
Fastening	Dimension s Ø/H (mm)	Reflex rings	Shipping weight kg/pc.	Article	€/piece	shipping weight kg/piece	Article	€/pc.
For doweling	108/800	–	9.3	168.28.926		5.9	168.29.681	
		white	9.4	168.24.924		6	168.27.679	
		blue		168.26.890			–	–
		green		168.25.450			–	–
		red		168.28.789			–	–
for embedding in concrete	108/1,200	–	9.8	168.20.923		7.2	168.25.595	
		white	9.9	168.28.402		7.3	168.26.474	
		blue		168.20.618			–	–
		green		168.20.538			–	–
		rot		168.23.713			–	–

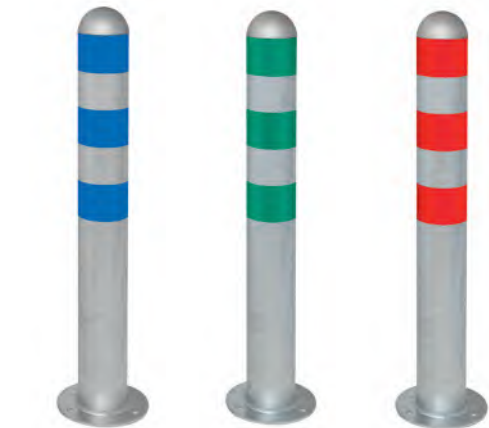
You need 3 fasteners. You can find suitable material on pages 74/75.



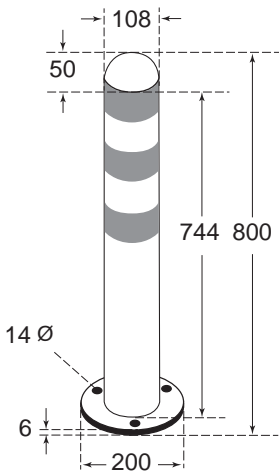
Variant 1 (Steel/Stainless Steel)



Variant 2



Variant 1 (Steel)



Variant 1:

- Hot-dip galvanized or made of stainless steel, uni or with three white reflective rings
- Hot-dip galvanized with three reflective rings, 75 mm (blue, green, or red)

Aluminum cap sandblasted.

Variant 2:

- Hot-dip galvanized and completely white-coated, with three reflective rings each, 75 mm (blue, green, or red)

Other variants – at no extra charge:

• Coating

- yellow (RAL 1023)
- black (RAL 9005)
- green (RAL 6009)
- blue (RAL 5017)
- anthracite gray (RAL 7016)

• Matching reflective rings of choice:

- white
- red
- blue
- green
- yellow

Variant 2		Steel, hot-dip galvanized and white coated (Wall thickness 2.9 mm)			
Fastening	Dimension Ø/H (mm)	Shipping weight kg/pc.	Reflector rings	Article	€/piece
For doweling	108/800	9.4	blue	168.23.819	
			green	168.25.354	
			red	168.21.079	
For embedding in concrete	108/1,200	9.9	blue	168.22.843	
			green	168.27.610	
			red	168.26.000	
You need 3 fasteners. You can find suitable material on pages 74/75.					



# Scooter-Parker

## CITY-Scooter-Parker 5 parking spaces



High-quality scooter parking made of bent flat steel with space for 5 scooters. For adjustment on both sides. Discreet, high-quality design. For a well-kept urban appearance.

Securing the scooters possible with curtains or a cable lock.

**Dimension s:**  
**Height:** 400 mm  
**Material: Ø** Flat steel, 70 x 10 mm  
**holding clamp closed:** inside 60 mm outside 120 mm

### Surface treatment:

- Hot-dip galvanized
- Hot-dip galvanized and coated in anthracite iron glitter (DB 703) in fine structure optics

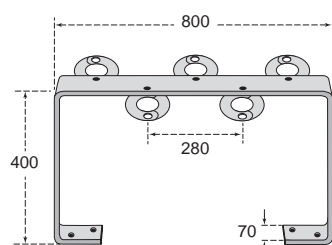
### Mounting type:

- For doweling drill hole: Ø 14 mm

Delivery is unassembled (clamps included).

**MADE IN GERMANY**

- Made of bent flat steel
- Modern, contemporary design
- Double-sided adjustment possible
- For (electric) scooters



## CITY-Scooter-Parker GILA



The GILA scooter parking system for wall mounting is ideal when anchoring to the ground is not possible or not desired. Space-saving and freely mountable in height.

Modern and at the same time unobtrusive design, high-quality workmanship made of quality steel. Additional diagonal braces provide increased stability. With 6 holding clamps to secure the scooter with curtains or a cable lock. The clamps can be reordered at any time.

**Dimension s:**  
**Height:** 250 mm  
**Width: D** 1.100 mm  
**epth: Ma** 250 mm  
**aterial: Dri** Flat steel, 70 x 8 mm  
**lling hole:** Ø 14 mm

### Surface treatment:

- Hot-dip galvanized
- Hot-dip galvanized and coated in anthracite iron glitter (DB 703) in fine structure optics

### Type of fastening:

- For wall mounting

**MADE IN GERMANY**

- Space-saving wall mounting
- Made of bent flat steel
- Modern, urban design
- Plenty of parking in a small space

### Holding clamps:

**Material:** Steel  
**Surface treatment:** hot-dip galvanized and black plastic coated Ø holding clamps closed: inner 60 mm, outer 120 mm  
**Ø Borehole:** 20 mm  
**Delivery is unassembled (Clamps, screws, and nuts for clamp attachment included). 6 dowels for wall mounting required (by the customer).**



Execution	Dimensions (mm) H x W x D	Shipping weight kg/pc.	Article	€/pc.
hot-dip galvanized	400 x 800 x 70	11	171.20.144	
hot-dip galvanized + DB 703			171.29.011	

You need 4 fasteners. Suitable material on page 74/75.

Execution	Dimensions (mm) H x W x D	Shipping weight kg/pc.	Article	€/pc.
hot-dip galvanized	250 x 1,100 x 250	12.5	171.23.834	
galvanized + DB 703			171.26.794	

You need 6 fastening elements. Suitable material on page 74/75.

# Scooter parking/bicycle support rack

## CITY-Scooter-Parker 2 parking spaces



Scooter parking in elegant design, high-quality processing from quality steel with 2 parking spaces.

Ideal as a contemporary parking offer in front of public buildings, facilities, and companies. For a well-kept urban image.

Plastic-coated holding clamps prevent scratches on the handlebars. Height-adjustable holder from 150 – 690 mm. Thus individually adjustable to different scooters.

Securing with curtain or chain lock possible.

### Dimension s:

Post: Base 800 x 80 x 80 mm  
plate: Drill 200 x 200 x 10 mm  
hole: Wall mmØ 14 mm  
thickness: 3 mm

Ø Holding clamps closed: inner 60 mm, outer 120 mm

### Surface treatment:

- Hot-dip galvanized and coated in anthracite iron glitter (DB 703) in fine structure optics

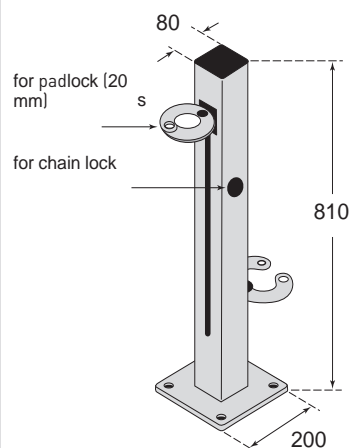
**MADE IN GERMANY**



- Elegant, modern design
- Height-adjustable holder
- Holder for Curtain and chain lock • For (electric) scooters

### Mounting type:

- For bolting
- For embedding in concrete Delivery is pre-assembled.



## CITY support rack VeloRama

**NEW**



- Timeless design
- Comfortable and safe parking
- Suitable as a leaning bracket or for wheel adjustments
- High theft protection due to solid steel construction
- Corrosion protected and weatherproof

The stable support frame made of quality steel is suitable for adjusting tires up to 29" and 85 mm width. Maximum theft protection through cutout for chain or lock passage (Ø 40 mm). Due to the space-saving design, multiple frames can be mounted side by side.

### Dimension s:

Post: Base 810 x 125 x 80 mm  
plate: 200 x 200 x 10 mm  
Drilling: 14 mm  
Bend profile: 14 mm  
Adjustment width: 80 x 20 x 2 mm  
Adjustment height: 85 mm

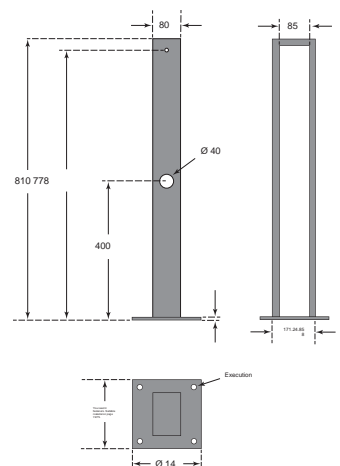
### Surface treatment:

- Hot-dip galvanized
- Hot-dip galvanized and coated in anthracite iron glitter (DB 703) in fine structure optics

### Type of fastening:

- For doweling

**MADE IN GERMANY**



	Dimensions (mm) H x W x D	Shipping weight kg/pc.	Article	€/piece
Scooter parking	810 x 80 x 80	10	171.23.074	
Base pipe for embedding including screws	200 x 200 x 10 330 mm length		171.23.074	
10				

4.6	200	Dimensions (mm) H x W x D	galvanized + DB 703	8.2
125			810 x 125 x 80	
hot-dip galvanized	200	Shipping weight kg/pc.	171.17.6011	
Article				



Bicycle parking rack



- Made of bent flat steel
- Modern, contemporary design
- Usable for bikes and scooters
- Adjustable on both sides

CITY parking rack GILA

MADE IN GERMANY

High-quality bicycle parking rack made of bent flat steel. Optionally with an additional knee support (Variant 2). For a well-kept urban appearance.

Variant 2: Can be additionally equipped with holding clamps for 5 scooters. Secured by a padlock or cable lock. Suitable for e-scooters and conventional models.

Ø Holding clamps closed: inner 60 mm, outer 120 mm

Surface treatment:

- Hot-dip galvanized
- Hot-dip galvanized and coated in anthracite iron glitter (DB 703) in fine structure optics

Type of fastening:

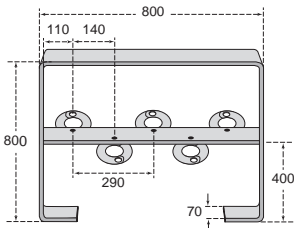
- For doweling, drill hole: Ø 14 mm



Variant 1



Variant 2



Version	Fastening	Surface	Dimensions (mm) H x W x D	Shipping weight kg/piece	Article	€/piece
Variant 1	for doweling	hot-dip galvanized	800 x 800 x 70	17.1	171.21.659	
		hot-dip galvanized + DB 703			171.23.908	
Variant 2		hot-dip galvanized	800 x 800 x 70	22.1	171.29.548	
		hot-dip galvanized + DB 703			171.23.534	
Set of holding brackets (for 5 scooters) for variant 2		black			171.20.463	
You need 4 fasteners. You can find suitable material on pages 74/75.						

## CITY-Support bracket GIRO



Support bracket made of steel, hot-dip galvanized and coated. Combination of round and square tube. The ring shape radiates a pleasant lightness.

Made of round tube 42 mm and central post 70 x 70 mm.

### Surface:

- Hot-dip galvanized and additionally coated with anthracite with iron glitter (DB 703) in a novel fine structure look

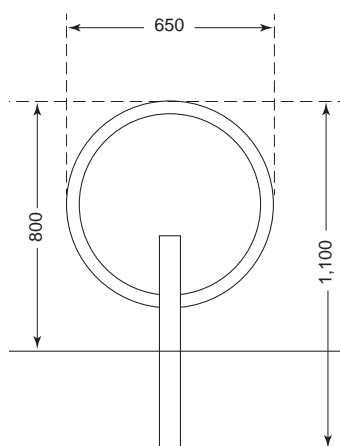
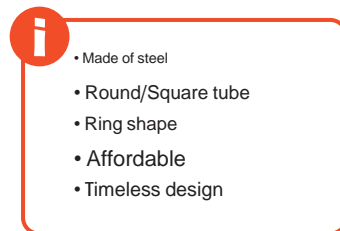
- Only hot-dip galvanized

### Types of fastening:

- For embedding in concrete
- For screw fastening

Base plate: 160 x 140 x 10 mm Drill hole: Ø 14 mm

**MADE IN GERMANY**



## CITY-Support bracket TOUR



Support bracket made of steel, hot-dip galvanized and coated. Combination of round and square tubes. Classic, robust design.

Made of round tube 48 mm and central post 60 x 40 mm.

### Surface:

- Hot-dip galvanized and additionally coated in anthracite with iron glitter (DB 703) in a novel fine structure look

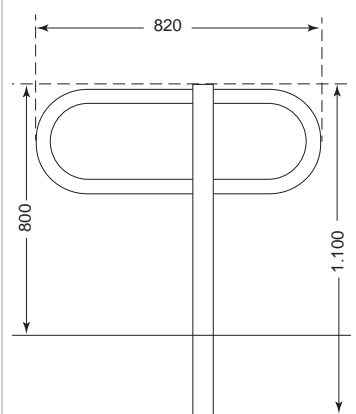
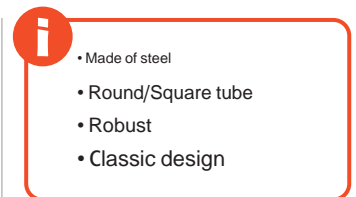
- Only hot-dip galvanized

### Types of fastening:

- For embedding in concrete
- For screw mounting

Base plate: 160 x 140 x 10 mm Drill hole: Ø 14 mm

**MADE IN GERMANY**



800 mm above ground, 650 mm wide				
Surface	Fastening	Shipping weight kg/pc.	Article	€/piece
hot-dip galvanized	for embedding in concrete	11.5	171.26.374	
	for screw mounting		171.22.579	
hot-dip galvanized + DB703	for embedding in concrete		171.27.900	
	for screw mounting		171.22.144	
You need 4 fastening elements. You can find suitable material on page 74/75.				

800 mm above ground, 820 mm wide				
Surface	Fastening	Shipping weight kg/pc.	Article	€/pc.
hot-dip galvanized	for embedding in concrete	12.5	171.21.197	
	for screw mounting		171.24.673	
hot-dip galvanized + DB703	for embedding in concrete		171.25.361	
	for screw mounting		171.22.397	
You need 4 fasteners. You can find suitable material on pages 74/75.				



Bicycle parking rack



- i**
  - Durable (quality steel)
  - For all types of bicycles
  - Optionally with knee support
  - Color customizable
  - Cost-effective installation



CITY parking rack  
SPRINT

MADE IN  
GERMANY

Affordable and universal parking rack made of 48 mm round steel. Its timeless design fits excellently into any environment. Optionally with knee support.

Various RAL colors available at no extra charge.

- Surface:**
  - Hot-dip galvanized
  - Hot-dip galvanized and coated in anthracite iron glitter (DB 703)
- Option:**

RAL colors at no extra charge • RAL 1023 traffic yellow • RAL 3020 traffic red • RAL 7016 anthracite gray • RAL 9016 traffic white
- Types of fastening:**
  - For embedding in concrete
  - For screw mounting

Base plate: 160 x 70 x 10 mm  
Drill hole: Ø 14 mm



Execution	Fastening	surface	Dimensions (mm) H x W x D	Shipping weight kg/pc.	Article	€/pc.
without cross beam	for concreting	hot-dip galvanized	1,100 x 800 x 48	9.7	171.26.930	
		hot-dip galvanized + DB 703			171.20.928	
	for screw mounting	hot-dip galvanized	800 x 800 x 160		171.21.749	
		hot-dip galvanized + DB 703			171.23.821	
with cross beam	for concreting	hot-dip galvanized	1,100 x 800 x 48	11.4	171.22.194	
		hot-dip galvanized + DB 703			171.27.935	
	for screw mounting	hot-dip galvanized	800 x 800 x 160		171.28.090	
		hot-dip galvanized + DB 703			171.29.268	

You need 4 fastening elements. You can find suitable material on pages 74/75.



## CITY bike rack MULTI-FLEX

**NEW**



This innovative bike rack offers maximum flexibility through its adjustable brackets, which can be perfectly adapted to various tire widths. Whether mountain bike, racing bike,

E-bike or cargo bike – this rack is the ideal solution for all types of bicycles.

- Individually adjustable: The bracket distance can be individually adjusted from 50 mm to 135 mm during assembly, adapting to any tire width.

• **Usable on both sides:**

Whether parking on one side or both sides, there are various adjustment options for maximum flexibility.

• **Sturdy and practical:**

Suitable for private use and for use in public areas due to its stable construction.



- Suitable for all types of bicycles
- Bracket spacing adjustable from 50 to 135 mm
- Single-sided and double-sided adjustment possible

The delivery is made in disassembled condition. All mounting materials as well as a detailed instruction manual are included in the package.

Height : 360 mm  
Depth: 370 mm



Number of bicycles	Width (mm)	Shipping weight kg/pc.	Article	€/piece
2	770	3.8	169.17.5502	
3	1120	5.4	169.17.5508	
4	1470	7.3	169.17.5509	
5	1820	9	169.17.5520	

## CITY bike rack BASIC



The CITY bike rack BASIC is extremely compact due to its clever screw construction, as well as cost-effective in shipping.

It is made of galvanized steel with robust brackets made of round tube and can be expanded as desired.

This stand is suitable for bicycles with tire widths of up to 68 mm. Typical areas of use can be found in businesses, smaller residential complexes, and private homes.



- Cost-effective
- Easy assembly
- Up to 68 mm tire width

The delivery is made in disassembled condition. All assembly materials as well as a detailed instruction manual are included in the package.

Height : 260 mm  
Depth: 370 mm



Number of bicycles	Width (mm)	Shipping weight kg/pc.	Article	€/St.
2	480	3.2	169.28.433	
3	780	4.8	169.22.650	
4	1.080	6.4	169.23.119	
5	1.380	8	169.21.112	



# Bicycle rack

CITY bicycle rack CLASSIC single-sided

CITY bicycle rack CLASSIC double-sided



The CITY bicycle rack CLASSIC with straight wheel support provides stable support for single-sided parking of bicycles. By simply screwing together several racks, the parking capacity can be expanded as needed. The high and low positioned brackets allow for space-saving use.

Suitable for mountain bikes with up to 68 mm tire width and wheels with disc brakes.

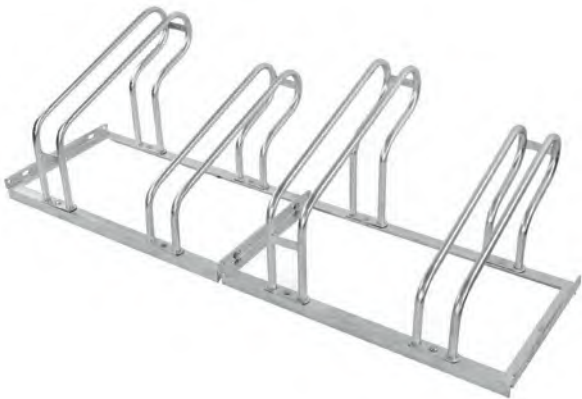
Made of galvanized Ø 18 mm steel tube and 30 x 30 mm steel angle for maximum stability and durability.

- i

  - Suitable for different bicycle parking facilities
  - Robust and durable due to hot-dip galvanization
  - Up to 68 mm tire width
  - Single-sided and double-sided versions available

The delivery is made in disassembled condition. All assembly materials as well as a detailed instruction manual are included in the package.

Height : 405 mm  
Depth: 535 mm



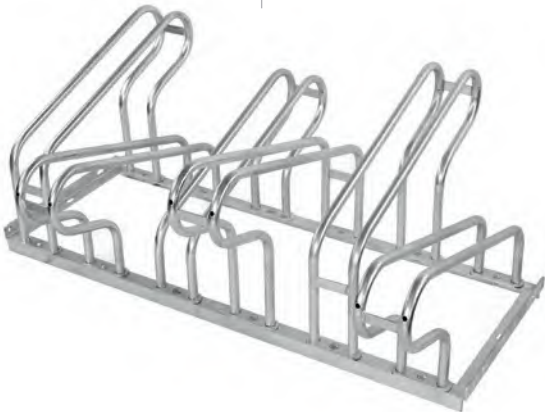
Number of Bicycles	Width (mm)	Shipping weight kg/pc.	Article	€/piece
2	700	7.1	169.21.760	
3	1,050	9.5	169.29.661	
4	1,400	12	169.29.324	
5	1,750	14.6	169.21.267	
6	2,100	17.6	169.26.155	

The double-sided version of the CITY bicycle rack CLASSIC not only saves space but also provides enough room for parking.

With one-sided wheel adjustment, the adjustment depth is about 1,850 mm, with two-sided wheel adjustment about 3,200 mm.

The delivery is made in disassembled condition. All assembly materials as well as a detailed instruction manual are included in the package.

Height : 400 mm  
Depth: 700 mm



Number of Bicycles	Width (mm)	Shipping weight kg/pc.	Article	€/piece
6	1.050	14.6	169.22.758	
10	1.750	23	169.24.529	
12	2.100	27	169.21.033	

## CITY bicycle rack HELIOS h-shape



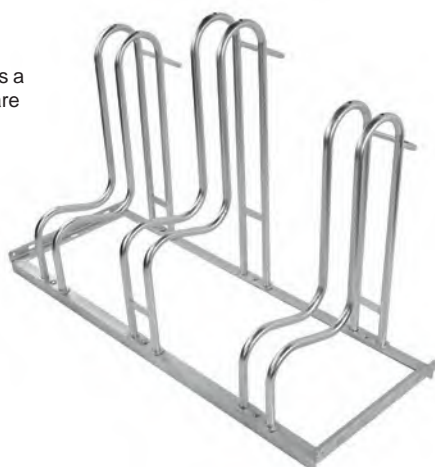
The CITY bicycle rack HELIOS made of hot-dip galvanized steel offers a comfortable and secure way to park bicycles with extra wide tires of up to 68 mm as well as 29-inch wheels.

Thanks to the high support brackets, tipping of the bicycles is prevented, thereby avoiding damage to the rims.

The parking spaces are arranged at different heights to save valuable space. With single-sided wheel positioning, the parking space depth is about 1,850 mm.

The delivery is made in disassembled condition. All mounting materials as well as a detailed instruction manual are included in the package.

Height : 710 mm  
Depth: 465 mm



Number of bicycles	Width (mm)	Shipping weight kg/pc.	Article	€/pc.
2	700	8.2	169.21.663	
3	1,050	12.1	169.28.004	
4	1,400	14.7	169.22.560	
5	1,750	18.1	169.20.804	
6	2,100	21.5	169.29.466	

## CITY bicycle rack MAGNIS M-shape

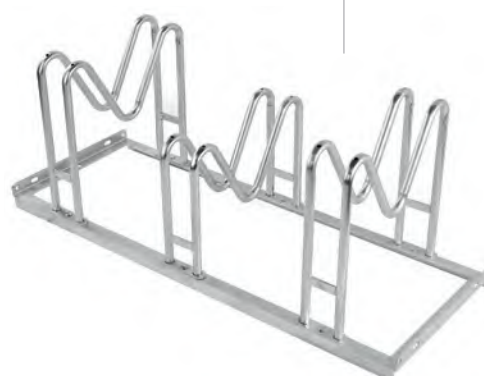


The CITY bicycle rack MAGNIS is made of hot-dip galvanized steel and features special M-shaped adjustment brackets designed to protect the rims, axles, and especially disc brakes of bicycles. This bicycle rack is suitable for all places where bicycles need to be parked quickly, easily, and securely, such as in front of shops or medical practices. Thanks to the option of height-offset or two-sided parking, valuable space is used extremely efficiently.

- Optimal protection for rims, axles, and disc brakes
- Space-saving by height-offset or two-sided parking
- Suitable for tire widths up to 68 mm

With one-sided wheel positioning, the parking space depth is about 1,850 mm, and with two-sided wheel positioning, it is about 3,200 mm.

The delivery is made in disassembled condition. All assembly materials as well as a detailed instruction manual are included in the package.



Height: 410 mm  
Depth: 380 mm

Number of Bicycles	Width (mm)	Shipping weight kg/pc.	Article	€/pc.
2	700	7	169.26.041	
3	1,050	11	169.28.168	



Bicycle rack



- i**
  - Optimal protection against tipping over with support brackets
  - Space-saving due to height-offset or two-sided parking
  - Suitable for tire widths up to 68 mm

**CITY bicycle rack**  
**HYBRID**  
*with support bracket*

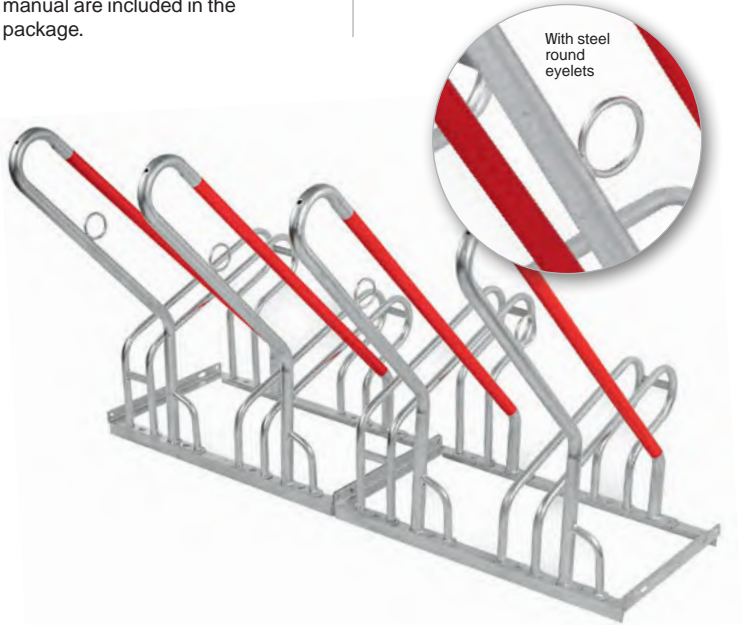
The robust bicycle rack made of hot-dip galvanized steel features practical support brackets with red protective coating. These functional support brackets not only protect against intentional pushing of the wheels but also against consequential damage to the rims. Integrated steel round eyes allow for the attachment of locking systems for theft protection.

Delivery is made in disassembled condition. All mounting materials as well as a detailed instruction manual are included in the package.

Height : 800 mm  
Depth: 945 mm

The alternating low/high adjustment with a height difference of 110 mm at a wheelbase of 350 mm allows for space-saving parking. Suitable for bicycles with tire widths up to 68 mm.

With one-sided wheel adjustment, the adjustment depth is about 1,850 mm.



Number of bicycles	Width (mm)	Shipping weight kg/pc.	Article	€/pc.
2	700	11.6	169.27.443	
4	1.400	23	169.27.385	
6	2.100	34	169.28.570	



- i**
  - For wall mounting
  - Available in three practical versions
  - Suitable for indoor and outdoor use
  - Durable and weather-resistant



180° rotatable

**CITY bicycle rack wall parker**  
*straight version, 45° version, 180° rotatable*

With a swivel range of up to 180°, the wall parker allows for the lateral adjustment of bicycles.

Made of galvanized steel with round tube bracket. This space-saving bracket is versatile and suitable for all bicycles with tire widths up to 68 mm. Due to its simple adjustment and pre-assembled construction, it is ready for use immediately.

The installation is done using a wall plate that is anchored.

The wall parker with a 45-degree angle, mountable on both the left and right, adapts flexibly to different spatial conditions and individual needs. Made of hot-dip galvanized steel, it offers reliable long-term use for indoor and outdoor areas.

With a tire width of up to 68 mm, it offers enough space for various types of bicycles. No risk of injury thanks to all-round rounded arches.

Additionally, the wall parking system is also available in a straight version.



45° version



straight version

Version	Number of bicycles	Dimensions (mm) W x H x D	Shipping weight kg/pc.	Article	€/St.
straight	1	250 x 540 x 210	2.5	169.26.860	
45°		250 x 540 x 260	2.8	169.20.849	
180° rotatable		330 x 310 x 290	1.6	169.22.820	



# Bicycle rack

## CITY bicycle rack LUNA round



The robust bicycle rack made of hot-dip galvanized steel is equipped with round tube brackets with a diameter of 18 mm. The high and low positioned brackets allow for space-saving use.

It is suitable for mountain bikes with up to 68 mm tire width and bikes with disc brakes. The arched bracket allows for both one-sided and two-sided parking of the bikes. With one-sided bike adjustment, the space depth is about 1850 mm, and with two-sided bike adjustment, it is about 3,200 mm.

- Suitable for different bicycle parking facilities
- Up to 68 mm tire width
- Two-sided adjustment possible
- Prepared for row connection (endless assembly)

The delivery is made in disassembled condition. All mounting materials as well as a detailed instruction manual are included in the package.

Height : 410 mm  
Depth: 385 mm



Number of bicycles	Width (mm)	Shipping weight kg/pc.	Article	€/piece
2	700	5.7	169.28.644	
3	1,050	8.5	169.27.661	

## CITY bicycle rack VARIO



The modern CITY bicycle rack VARIO is the ideal choice for a single parking space.

It consists of a robust, galvanized steel construction and is also suitable for mountain bikes.

With a maximum tire width of 68 mm and a height above the ground of about 540 mm, it is suitable for various types of bicycles.

The attachment is done by screwing on. The all-round rounded arches ensure a safe storage of the bicycle.

Height : 540 mm  
Depth: 440 mm

- For wall and floor mounting
- Suitable for indoor and outdoor use
- Safe storage through all-round rounded arches
- Cost-effective



Number of Bicycles	Width (mm)	Versandg ew.kg/St.	Article	€/St.
1	450	5	169.24.092	



- i**
  - Efficient and space-saving
  - Robust and durable
  - Suitable for all types of bicycles
  - With rim-protecting plastic coating

CITY wall mount  
CIELO

The space-saving CITY wall mount CIELO is designed to create space and maintain order. It is suitable for all types of bicycles, regardless of their tire width.

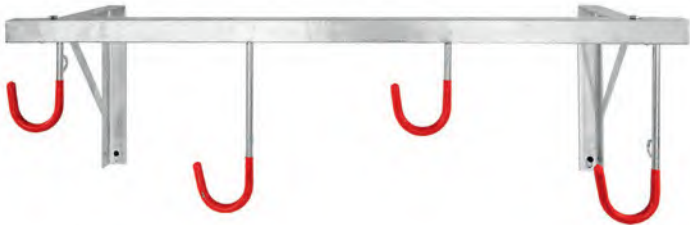
The construction consists of high-load steel angles with solid hanging hooks, which are equipped with steel ring eyes as theft protection. The hanging hooks are provided with a rim-protecting plastic coating in inconspicuous red.

Thanks to the galvanization, the system is protected against corrosion. The hooks are alternately 200 mm and 350 mm long, and the hook spacing is only 350 mm, allowing for a staggered suspension.

The recommended mounting height is about 2,000 mm (wall or ceiling mounting possible).

The delivery is in disassembled condition. All mounting materials as well as a detailed instruction manual are included in the package.

Height 350 mm  
:Depth 350 mm  
:



Number of bicycles	Width (mm)	Shipping weight kg/pc.	Article	€/St.
2	500	6	169.26.440	
3	850	7	169.28.815	
4	1.200	8	169.28.160	
5	1.550	9.2	169.22.105	





i

- Made of stainless steel
- Discreet and effective
- Durable
- Three types of mounting
- Three diameters



CITY-Poller MILANO

MADE IN  
GERMANY

Elegant, value-retaining, and sophisticated quality. With pressed cap. All versions optionally with chain eyes.

Accessories: High-quality link chain made of stainless steel (p. 120/121)

**Types of mounting:**

- For embedding in concrete
- For screwing on with base plate
- For removal through lateral triangular lock according to DIN 3223
- For repositioning

For repositioning with different closing cylinder lock (including 2 keys) or with triangular lock according to DIN 3223.



Execution	Ø x wall thickness (mm)	Shipping weight kg/piece	Article	€/St.
For embedding in concrete 925 mm above ground 260 mm below ground	60 x 2	4	167.13.331	
	76 x 2	5	167.15.826	
	102 x 2	6.8	167.15.704	
For removal with triangular closure 925 mm above ground 260 mm below ground	60 x 2	4.3	167.15.888	
	76 x 2	5.6	167.16.363	
	102 x 2	7.4	167.19.875	
For doweling with base plate 931 mm above ground	60 x 2	2.4	167.16.096	
	76 x 2	4.2	167.14.669	
	102 x 2	6.2	167.16.653	
For laying with cylinder lock (different closing) and 2 keys 925 mm above ground	76 x 2	5.3	167.22.695	
For folding with triangular lock 925 mm above ground		5.4	167.17.565	
Triangular wrench (please order additionally)		0.2	130.19.417	
Version with chain eyes				



*i*

- Made of stainless steel
- Elegant design
- Angled bollard head
- Two types of mounting



CITY Bollard BERLIN 45

MADE IN  
GERMANY

Based on the CITY Bollard BERLIN, but with a 45° angled bollard head – also highly polished. Demanding, functional appearance for representative tasks.

Mounting types:

- For embedding in concrete
- For bolting down  
Base plate: Ø 170 mm  
Drill hole: Ø 13 mm

Also removable on request with side triangular lock or with same closing cylinder lock.

All versions optionally with chain eyes (on request).

Version	Ø x wall thickness (mm)	Shipping weight kg/pc.	Article	€/pc.
For embedding in concrete 900 mm above ground 300 mm below ground	108 x 2	7	167.15.453	
For bolting with base plate 900 mm above ground	108 x 2	6.4	167.16.434	

You need 3 fastening elements. You can find suitable material on pages 74/75.



Bollard



- i**
  - Made of stainless steel
  - Elegant design
  - For the highest demands
  - Three types of mounting
  - Three diameters



CITY Bollard BERLIN

MADE IN  
GERMANY

A handcrafted masterpiece: Noble material in elaborate processing.

The seamless transition to the high-gloss polished cap gives the bollard a noble character. A demanding bollard, durable and timelessly representative.

Three cross-sections: A powerful bollard with 108 mm Ø as well as slimmer variants with 60 or 76 mm Ø. All versions optionally with chain eyes.

Accessories: base ring and high-quality link chain made of stainless steel (p. 120/121)

- Types of fastening:**
- For embedding in concrete
  - For screw mounting with base plate
  - For removal through lateral triangular lock according to DIN 3223 or with a keyed alike cylinder lock, including 3 keys



Execution	Ø x wall thickness (mm)	Shipping weight kg/piece	Article	€/piece
For embedding in concrete 900 mm above ground 300 mm below ground	60 x 2	3.9	167.18.689	
	76 x 2	5	167.17.883	
	108 x 2	7	167.16.287	
For doweling with base plate 900 mm above ground	60 x 2	3.6	167.18.490	
	76 x 2	4.7	167.16.483	
	108 x 2	6.5	167.13.788	
For removal with triangular closure 900 mm above ground 300 mm below ground	60 x 2	6.3	167.18.736	
	76 x 2	7.4	167.18.723	
	108 x 2	13.1	167.13.750	
<b>For removal</b> with cylinder lock, keyed alike 900 mm above ground 300 mm underground	76 x 2	8.6	167.14.189	
	108 x 2	13.2	167.15.768	
<b>base ring</b> for all types of fastening	60	0.3	167.14.049	
	76	0.4	167.18.323	
	108	0.5	167.13.917	
Triangular key (please order together)		0.2	130.12.326	
Surcharge per chain eye (stainless steel)				



i

- Made of stainless steel
- Heavy/  
Massive design• For  
the highest demands•  
Durable and timeless•  
Three types of  
mounting

CITY-Poller BERLIN XL

MADE IN  
GERMANY

Visually inspired by the CITY-Poller BERLIN. Sets unobtrusive yet clear design accents. Its diameter of 204 mm and the high-gloss polished cap give the BERLIN XL a special charisma.

Delimits pedestrian zones, public squares, paths, and driveways. Also usable for protecting shop window areas (jewelry stores, photo shops, etc.).

- Types of mounting:**
- For embedding in concrete
  - For bolting to the ground plate: Ø 300 mm Drill hole: Ø 14 mm
  - For removal with a matching cylinder lock, including 3 keys



Execution	Ø x wall thickness (mm)	Shipping weight kg/pc.	Article	€/piece
For embedding in concrete 600 mm above ground 400 mm below ground	204 x 2	11.5	167.17.981	
For screw mounting with base plate 600 mm above ground	204 x 2	9.8	167.18.112	
For removal with cylinder lock (keyed alike) 600 mm above ground 400 mm below ground	204 x 2	27.1	167.17.174	
Cover cap for ground sleeve, hot-dip galvanized, non-lockable		2.5	167.16.058	
You need 3 fasteners. You can find suitable material on page 74/75.				



Poller



- i*
  - Made of flexible plastic
  - Yielding
  - Two colors



CITY-Poller FLEX

Proven material in a new application: Yielding city bollards made of high-quality plastic (TPU). Flexible and yet shape-stable.

Due to the classic design, the CITY-Poller FLEX appears like a conventional city bollard, whose yielding property is only noticeable upon impact.

Absorbs starting forces, protects vehicle and bollard. Particularly suitable in narrow traffic areas.

**Type of attachment:**  
for bolting down

Also available as a crash protection bollard FLEX in yellow-black and red-white.

Base plate: 140 x 140 x 25 mm  
Drill hole: Ø 14 mm

*👍*

**Note:**  
TPU = Thermoplastic Polyurethane  
Environmentally friendly and biodegradable



Color	Dimension (mm)Ø x Height	Shipping kg/pc.	Article	€/pc.
green	80 x 1,000	3.7	292.20.605	
black			292.27.767	
You need 4 fastening elements. You can find suitable material on pages 74/75.				

CITY-Poller LEIPZIG



Solid steel bollard with an aesthetically pleasing aluminum cap. Discreet in design, modern in effect.

Surface:

Steel, hot-dip galvanized, anthracite gray painted (RAL 7016)

Types of fastening

- For embedding in concrete
- For screw mounting
- Removable with triangular lock (DIN 3223) Locking option: With cylinder lock (keyed alike)

All versions optionally with chain eyes (additional cost).

MADE IN GERMANY

- Made of steel with a shaped cap
- Modern
- Three types of fastening
- Two diameters



Execution	Ø x wall thickness (mm)	Shipping weight kg/pc.	Article	€/pc.
For embedding in concrete 940 mm above ground 300 mm underground	90 x 2.9	8.7	163.22.145	
	108 x 2.9	10.7	163.22.045	
For doweling with base plate 940 mm above ground	90 x 2.9	10.7	163.21.326	
	108 x 2.9	12.7	163.22.005	
For removal with triangular closure, 940 mm above ground, 300 mm below ground	90 x 2.9	12.6	163.29.253	
	108 x 2.9	14.7	163.25.886	
triangular key (please order together)		0.3	130.12.326	

CITY-Poller ZÜRICH



A lightweight aluminum city bollard that appears lighter and more elegant than a standard round post due to its tasteful design.

Surface:

Aluminum and additionally painted gray-brown (RAL 8019)

Types of fastening:

- For embedding in concrete
- For removal through lateral triangular closure according to DIN 3223

All versions optionally with chain eyes (upon request).

MADE IN GERMANY

- Made of aluminum
- Elegant design
- Antique look
- Two types of fastening



Execution	Chain eyelets	Ø x Wall thickness (mm)	Shipping weight kg/pc.	Article	€/pc.
For embedding in concrete 820 mm above ground 300 mm below ground	0	108 x 4	6.6	165.12.214	
	1			165.10.285	
	2			165.11.227	
For removal with triangular closure 820 mm above ground	0	108 x 4	11.8	165.12.625	
	1			165.11.011	
	2			165.11.950	
Triangular wrench (please order together)			0.3	130.12.326	



Poller



i

- Made of steel
- Simple elegance
- Durable
- Two types of fastening
- Three diameters



CITY-Poller VIENNA

MADE IN  
GERMANY

The CITY-Pollers are highly valued by architects and urban planners. Durable quality.

Round steel bollard made of quality steel with molded aluminum cap.

**Surface:**  
Hot-dip galvanized and additionally painted gray-brown (RAL 8019)

**Option:**  
Hot-dip galvanized and additionally painted anthracite gray (RAL 7016) at no extra charge. All versions optionally with chain eyes.

**Types of fastening:**  
• For embedding in concrete  
  
• For removal through lateral triangular closure according to DIN 3223 or with a keyed alike cylinder lock, including 3 keys



Execution	Ø x wall thickness (mm)	Shipping weight kg/piece	Article	€/piece
For embedding in concrete 950 mm above ground 300 mm below ground	76 x 2	6.1	160.24.262	
	90 x 2.5	7.4	160.23.890	
	108 x 2.9	10.3	160.10.243	
For removal with triangular lock 950 mm above ground 300 mm below ground	76 x 2	8.9	160.21.059	
	90 x 2.5	12.8	160.21.942	
	108 x 2.9	15.3	160.10.569	
Triangular key (please order together)		0.2	130.12.326	
For removal with cylinder lock, keyed alike 950 mm above ground 300 mm underground	76 x 2	9.9	160.21.544	
	90 x 2.5	13.8	160.29.018	
	108 x 2.9	16.3	160.20.581	
Surcharge per chain eye				

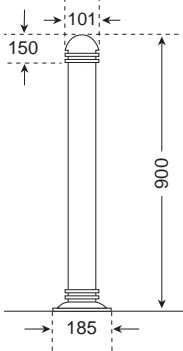
# CITY-Poller GOTHA



This solid, aesthetically pleasing steel bollard is suitable for any urban environment.

**Surface:**  
Aluminum casting and additionally painted anthracite gray (RAL 7016)

All versions optionally with chain eyes (upon request).



**MADE IN GERMANY**

- Made of steel with aluminum casting
- Discreet
- With decorative rings
- Two types of fastening

**Types of fastening:**

- For embedding in concrete
- For removal through lateral triangular lock according to DIN 3223



Execution	Chain eyes	Ø x wall thickness (mm)	Shipping weight kg/pc.	Article	€/piece
For embedding in concrete 900 mm above ground 400 mm below ground	0	90 x 4	12.2	163.26.932	
	1			163.27.006	
	2			163.24.261	
For removal with triangular lock 900 mm above ground 300 mm below ground	0	90 x 4	15.5	163.23.949	
	1			163.27.570	
	2			163.26.363	
Triangular key (please order together)			0.3	130.12.326	

# CITY-Poller POTSDAM



A decorative bollard made of steel with an aluminum decorative cap that discreetly blends into the surroundings. For cost-effective design of squares and paths in urban areas.

**Surface:**  
Hot-dip galvanized and additionally painted gray-brown (RAL 8019)

**Types of fastening:**

- For embedding in concrete
- For screw mounting, drill hole: Ø 14 mm
- For removal through side triangular closure according to DIN 3223

Closing option: With a matching profile cylinder, including 3 keys

- **MADE IN GERMANY**
- Made of steel
- Decorative
- Aluminium decorative cap
- Three types of fastening



Other RAL colors on request. All executions optionally with chain eyes (on request).

Execution	Ø x wall thickness (mm)	Shipping weight kg/pc.	Article	€/piece
For embedding in concrete 900 mm above ground 370 mm below ground	76 x 2	7.3	164.24.726	
For doweling Base plate: 160 x 140 x 10 mm 900 mm above ground		7.5	164.27.583	
For removal with triangular closure 855 mm above ground 335 mm below ground		8,9	164.25.863	
Triangular key (please order together)		0,3	130.12.326	
You need 3 fasteners. You can find suitable material on pages 74/75.				



## Guss-Poller DÜSSELDORF



The distinctly individual shape gives this Guss-Poller an absolute independence.

It stands out in a pleasant way from other design elements without being visually intrusive.

For further customization, your city coat of arms can be cast in up to 50 pieces.

### Surface:

Aluminum casting and additionally painted anthracite gray (RAL 7016)

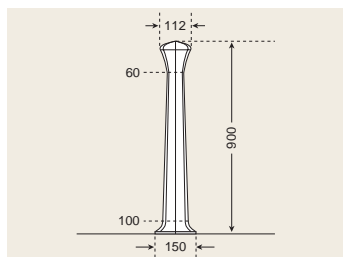
### Types of attachments:

• For embedding in concrete • For removal through lateral triangular closure according to DIN 3223

Standard version without chain eyes. A variant with two embedded chain mounts is available for attaching chains.



- MADE IN GERMANY • Made of aluminum casting • With steel core • Decorative • Two types of mounting



Execution	Chain eyes	Shipping kg/pc.	Article	€/pc.
For embedding in concrete 900 mm above ground 400 mm below ground	0	13.9	163.22.693	
	2		163.21.841	
<b>For removal</b> with triangular closure 900 mm above ground 300 mm below ground	0	15.2	163.24.679	
	2		163.26.693	
Triangular wrench (please order additionally)		0.3	130.12.326	
Tool costs for city coat of arms				

## Guss-Poller FLORENZ



An elegant bollard with an Italian touch. The lightly designed shape with a seamlessly formed base characterizes this bollard.

From as few as 50 pieces, the coat of arms of your city, municipality, or company can be integrated.

### Surface:

Aluminum casting and additionally painted anthracite gray (RAL 7016)

### Types of attachments:

• For embedding in concrete • For removal through lateral triangular closure according to DIN 3223

Closing option: With cylinder lock, including 2 keys

All versions optionally with chain eyes (on request).



- MADE IN GERMANY • Made of aluminum casting • With steel core • Decorative • Classic • Two types of attachments



Version	Chain eyes	Ø (mm)	Shipping weight kg/pc.	Article	€/piece
For embedding in concrete 900 mm above ground 300 mm below ground	0	80	13.2	163.12.445	
	1			163.12.806	
	2			163.10.325	
<b>For removal</b> with triangular closure 900 mm above ground 300 mm below ground	0	80	14.6	163.11.766	
	1			163.10.916	
	2			163.11.857	
Triangular key (please order together)			0.3	130.12.326	
Tool costs for city coat of arms					
Cylinder lock instead of triangular				163.28.608	



- Made of aluminum casting
- With steel core
- Decorative
- Two types of mounting



## Wappen-Poller

MADE IN  
**GERMANY**

A simple, powerful bollard that offers room for individuality: From 50 pieces, the coat of arms of your city, municipality, or company can be cast. Conveys durability without appearing antiquated.

### Surface:

Aluminum casting and additionally anthracite with iron glitter (DB 703) painted in fine structure optics

### Types of mounting:

- For embedding in concrete
- For removal via lateral triangular closure according to DIN 3223

Locking option: With cylinder lock, including 2 keys

All executions optionally with chain eyes (upon request).

Execution	Chain eyes	Ø (mm)	Shipping weight kg/pc.	Article	€/piece
For embedding in concrete 925 mm above ground 400 mm below ground	0	85	16.1	166.11.050	
	1			166.11.662	
	2			166.11.994	
<b>For removal</b> with triangular closure 925 mm above ground 400 mm below ground	0	85	18.1	166.12.948	
	1			166.11.197	
	2			166.12.149	
Triangular key (please order together)			0.3	130.12.326	
Tool costs for city coat of arms					
Cylinder lock instead of triangular				163.28.608	

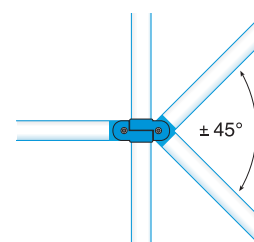
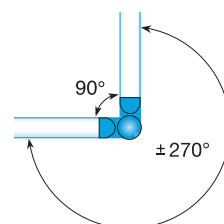


# System railing

**New color  
DB 703**



- TÜV certified according to DGUV 208-061
- Variable modular system
- Easy to assemble
- Adaptable to slopes and curves



## MORION system railing

**MADE IN  
GERMANY**



### TIP:

Also available in the conductive variant (p. 200)

Variable protective railings in a modular system. Secures traffic routes in operation, on public roads and squares. Separates lanes or different types of traffic from each other (public transport, stops). Used as a circulation barrier or people guidance system.

Practical: Variably adjustable connecting elements correct height compensation on uneven floors.

### Two designs:

Design URBAN with flat cap and Design CLASSIQUE with round cap.

### Consisting of:

- Vertical and horizontal pipes
- Clamps and caps made of aluminum
- Connecting parts made of plastic (electrically non-conductive)
- Stainless steel screws.

Standard overhead height 1,000 mm according to workplace guidelines. Any horizontal angles over 90° and vertical angles (inclines) up to 45° adjustable.

### Surface treatment:

Hot-dip galvanized or hot-dip galvanized and painted/coated.

### Types of fastening:

- For embedding in concrete
- For bolting with base plate
- For removal from non-lockable base sleeve

For a slimmer appearance, the cross tubes are also available with a diameter of 48 mm.


Other versions (height, length, color) or stainless steel upon request.




Max. power consumption;  
for details please request the data sheet.

## Design URBAN – Standpipe made of steel, with cover cap – 2.0 mm wall thickness

DB 703 NEW in the range

	Surface	Color	For embedding in concrete 60/1,330 mm; of which 330 mm below ground or for insertion into MORION base sleeve			For screw mounting 60/1,000 mm; with base plate 140 x 160 x 10 mm		
			Shipping weight kg/piece	Article	€/piece	Versandgewicht kg/St.	Article	€/pc.
	hot-dip galvanized	hot-dip galvanized	4.5	191.10.257		5.3	191.11.788	
	hot-dip galvanized and painted/coated	red-white		191.12.087			191.10.373	
		black-yellow		191.11.064			191.11.070	
		DB 703 anthracite gray		191.17.5837			191.17.5836	

## CLASSIC Design – Standpipe made of steel, with cover cap – 2.0 mm wall thickness

	Surface	Color	For concreting 60/1.330 mm; of which 330 mm for embedding or for insertion into MORION ground sleeve			For doweling 60/1,000 mm; with base plate 140 x 160 x 10 mm		
			Shipping weight kg/pc.	Article	€/piece	Shipping weight kg/pc.	Article	€/pc.
	hot-dip galvanized	hot-dip galvanized	4.5	191.10.603		5.3	191.10.815	
	hot-dip galvanized and painted	red-white		191.11.532			191.11.756	
		black-yellow		191.12.494			191.12.711	
	Available in color DB 703 upon request.							

## Cross tube 60 mm with clamps – 2.0 mm wall thickness

DB 703 NEW in the range

Surface	Color	1,000 mm; grid size 1,170 +/- 5 mm			1,500 mm; grid size 1,670 +/- 5 mm			2,000 mm; grid size 2,170 +/- 5 mm		
		Shipping weight kg/pc.	Article	€/piece	Shipping weight kg/piece	Article	€/piece	Shipping weight kg/piece	Article	€/pc.
hot-dip galvanized	hot-dip galvanized	3.8	191.11.348		5.7	191.11.891		7.5	191.13.077	
hot-dip galvanized and painted/coated	red-white		191.12.964			191.11.746			191.11.603	
	black-yellow		191.10.311			191.11.722			191.10.789	
	DB 703 anthracite gray		191.17.5838			191.17.5839			191.17.5840	

## Cross tube 48 mm with clamps – 2.0 mm wall thickness

Surface	Color	1,000 mm; grid size 1,170 +/- 5 mm			1,500 mm; grid size 1,670 +/- 5 mm			2.000 mm; Raster size 2.170 +/- 5 mm		
		Shipping weight kg/pc.	Article	€/piece	Shipping kg/pc.	Article	€/pc.	Shipping weight kg/pc.	Article	€/pc.
hot-dip galvanized	hot-dip galvanized	3.2	191.17.798		4.8	191.14.415		6.4	191.16.639	
hot-dip galvanized and painted	red-white		191.17.857			191.16.468			191.19.773	
	black-yellow		191.14.802			191.19.929			191.13.934	
Available in color DB 703 upon request.										

## Accessories

	Shipping kg/pc.	Article	€/pc.
Non-lockable MORION floor sleeve	3.0	100.10.773	
Ground sleeve made of gray cast iron; complete with clamping and threaded ring	5.5	150.18.049	



# System railing - conductive

**NEW**



- TÜV certified according to DGUV 208-061
- In accordance with the specifications of the German Railway according to DIN VDE 0100-706, VDE 0105-100, based on OVE E 8101 and HD 60364
- Electrically conductive, with grounding lugs
- Flexible modular system for versatile applications
- Angle adjustment up to 45° for uneven terrain

## MORION system railing

conductive

MADE IN GERMANY



Max. power consumption;  
for details please request the data sheet.

The MORION system railing is a professional solution for electrically conductive safety railings, characterized by its robust, flexible modular system. It can be ideally adapted to the individual requirements of traffic routes and various terrain forms and was specifically developed for use in the environment of Deutsche Bahn.

The railing is equipped with grounding lugs and electrically conductive connecting elements that allow for reliable dissipation of electrical currents. When installed correctly, it meets the grounding requirements.

Potential equalization and lightning protection complies with the specifications of Deutsche Bahn as well as the standards DIN VDE 0100-706, VDE 0105-100, based on OVE E8101 and HD 60364.

### Technical features:

- Vertical and horizontal pipes with 60 mm Ø
- Wall thickness: 2.0 mm
- Material: S235 (St 37)
- Corrosion resistant through hot-dip galvanized surface
- Electrically conductive connecting parts made of aluminum, with stainless steel screws
- Conductivity 10.5 mS/m (0.365 m )
- Flexible angle adjustment up to 45° for uneven terrain

• Standard above-ground height of 1000 mm according to workplace guidelines

• Mounting options: Cast-in or bolt-on with base plate



Welded grounding tab  
50 x 50 x 5 mm with 18 mm hole

### Design URBAN – conductive standpipe made of steel, with cover cap – 2.0 mm wall thickness

	Surface	Color	For embedding in concrete 60/1,330 mm; of which 330 mm is below the surface or for insertion into MORION ground sleeve			For doweling 60/1,000 mm; with base plate 140 x 160 x 10 mm		
			Shipping weight kg/pc.	Article	€/pc.	Shipping weight kg/piece	Article	€/piece
	hot-dip galvanized	hot-dip galvanized	4.5	191.17.5809		5.3	191.17.5864	
	hot-dip galvanized and painted/coated	red-white		191.17.5832			191.17.5866	
		DB 703 anthracite gray		191.17.5827			191.17.5865	

### 60 mm conduit with aluminum clamps conductive – 2.0 mm wall thickness

Surface	Color	1,000 mm; grid size 1,170 +/- 5 mm			1,500 mm; Grid size 1.670 +/- 5 mm			2,000 mm; grid size 2,170 +/- 5 mm		
		Shipping weight kg/piece	Article	€/piece	Shipping weight kg/pc.	Article	€/pc.	Versand gew.kg/St.	Article	€/piece
hot-dip galvanized	hot-dip galvanized	3.8	191.17.5823		5.7	191.17.5825		7.5	191.17.5826	
hot-dip galvanized and painted/coated	red-white		191.17.5833			191.17.5834			191.17.5835	
	DB 703 anthracite gray		191.17.5828			191.17.5829			191.17.5830	

## MORION pipe post



For permanently securing traffic signs. Steel pipe, hot-dip galvanized. With plastic cap. For embedding in concrete (with ground anchor).

Diameter/WS (mm)	Length (mm)	Shipping weight kg/pc.	Article	€/piece
60/2	3.000	10.5	310.10.164	
	3.500	12	310.10.576	
	4.000	13.5	310.10.166	
76/2.5	3.000	15	310.13.098	
	3.500	17	310.11.268	
	4.000	19	310.11.638	

## MORION stainless steel band and stainless steel loops



For permanently or temporarily securing traffic signs, traffic lights, etc. in conjunction with MORION band clamps.

Proven for creating hose connections, for holding pipes, lines, masts, sleepers, planks (protection against splicing), objects of various or irregular cross-sections, for mounting waste bins, control boxes, etc.

Cleanly rounded edges protect against injuries.

- Multi-purpose band made of corrosion-resistant stainless steel.
- Loops made of stainless steel.

For securing the band and for securing the band ends.

### Tensioning tool:

For securing and tensioning the stainless steel bands

Execution	Width (mm)	Shipping weight kg/pc.	Article	when purchasing at €/pc.
Stainless Steel Band	3/4" (19 mm)	4	320.10.735	
in roll box 30 m	1/2" (12 mm)	3	320.12.038	
Stainless steel loops	3/4" (19 mm)	2.5	320.11.434	
in a box of 100 pieces	1/2" (12 mm)	1.5	320.10.897	
Tensioning tool		2	320.11.712	

## CARAMBA pipe clamps



Base and bridge made from one piece. The offset bridge facilitates assembly. With two galvanized clamp screws M8/25.

Drilling distance 50 – 90 mm.

## MORION pipe clamps



The lower part and the bridge are riveted. With 2 galvanized clamp screws M8/25.

Drilling distance 50-90 mm.

## MORION Band Clamps



For attaching signs to masts, etc., regardless of the cross-section of the mast. In conjunction with MORION stainless steel band. Band steel, hot-dip galvanized.

Two drill slots 7/28 mm for sign attachment. Drill spacing 50-90 mm.

Execution	Ø (mm)	Shipping weight kg/pc.	Article	upon purchase of €/piece.
CARAMBA	60	0.35	312.10.340	
	76		312.11.516	
MORION	60		311.10.557	
	76		311.12.718	
MORION Band clamps	all		314.12.159	





## Barriers, access and height limiters

REGULATE, CONTROL AND MONITOR ACCESS! With barrier gates, turnstiles, swing gates, and sliding gates, access can be precisely controlled and unauthorized

or unintentional passage of vehicles or persons is prevented. Our robust systems are ideal for traffic regulation, protecting pedestrians and cyclists, and limiting vehicle heights.

Swing and gate barriers	203, 210-211, 216
<b>Barrier gates</b>	204
<b>Access limiters</b>	212
<b>Height limiters</b>	217





- i**
- Eine Schranke = zwei Flügel
  - Seitlich schwenkbar
  - Einfache Bedienung
  - Kompakte Bauform
  - Für Vorhängeschloss



## MORION Gatterschranke

MADE IN  
GERMANY

Robuste Konstruktion; wie ein Tor zu öffnen. Für Schulen, Parks, Brücken, Fuß- und Spazierwege etc.

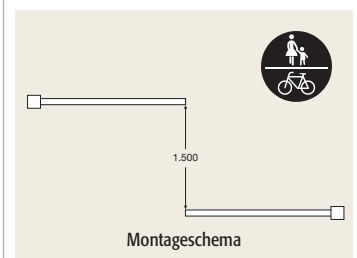
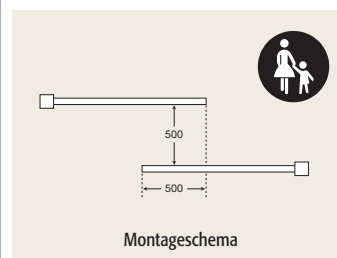
- Alle Stahlteile aus Gütestahl, feuerverzinkt und rot lackiert
- Schrankenbaum rot-weiß abgesetzt
- Mit Verschlussbolzen

Zum Einbetonieren (auf Wunsch zum Aufdübeln).

Arretieren der geöffneten oder geschlossenen Schranke mit Verschlussbolzen alle 90°. Dieser kann mit bau-seitigem Vorhängeschloss gesichert werden.

### Maße:

- Drehpfosten: 100 mm Ø  
1.500 mm Höhe  
(1.000 mm Überflur)
- Schrankenbaum: 60 x 30 mm,  
ab 3 m Flügelbreite  
mit zusätzlicher  
Teleskopstütze



Ausführung	Gesamtbreite pro Flügel (mm)	Lichte Weite (mm)	Versandgew. kg/St.	Artikel	€/St.
<b>Zum Einbetonieren</b> Eine Schranke = 2 Flügel	1.380	1.250	75	221.27.337	
	1.880	1.750	90	221.27.647	
	2.380	2.250	105	221.21.054	
	2.880	2.750	120	221.28.968	
	3.380	3.250	135	221.22.500	
	3.880	3.750	150	221.27.058	
<b>Zubehör</b>					€/St.
Drehpfosten zum Aufdübeln (je Flügel)					
Mit reflektierenden Rotringen ausstatten (Preis pro Meter der Gesamtbreite)					
Ausführung nur feuerverzinkt					



# Barrier gates



## COMPACT System barrier with gas spring

MADE IN  
**GERMANY**

More info  
about the  
product:



System barrier with integrated gas spring for high operating comfort. The modern design, high quality standards, and the already fully equipped standard version leave little to be desired:

- All steel parts galvanized and powder-coated red
- Wide aluminum beam with anti-slip strip and reflective strip
- Including locking cylinder

### Two versions:

With fixed support post or with swing support

Rotating and support post for bolting down (can be embedded in concrete upon request).

Support post height adjustable (see p. 207).

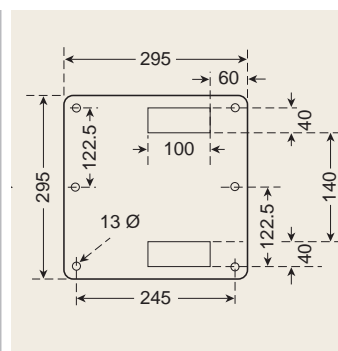
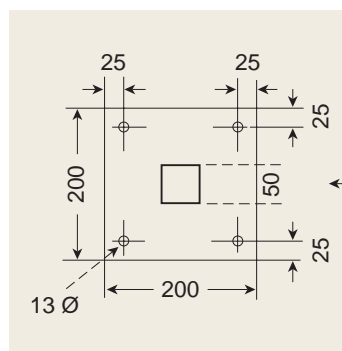
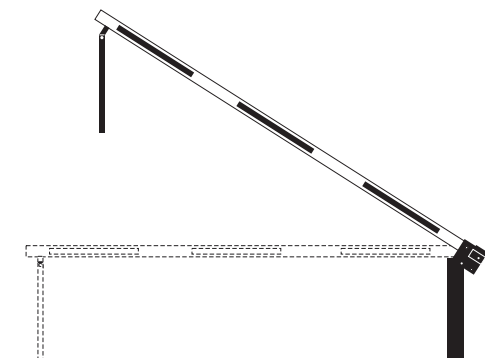
#### Dimensions:

Rotating post:	220 x 100 x 1,000 mm
Base plate:	295 x 295 x 10 mm
Support post:	50 x 50 x 1,000 mm
Base plate:	200 x 200 x 10 mm
Alu-tree:	90 x 60 mm

The locking bolt of the COMPACTSystem barrier automatically locks in the open and closed position. Lockable with a different locking round cylinder, including 2 keys. (The key can only be removed in the locked position.)

Further locking options:

- Triangular lock instead of round cylinder
- Round cylinder keyed alike
- Prepared for customer-side profile cylinder
- Double locking: triangular lock and profile cylinder



- High operating comfort
- Compact design
- Various closing variants
- Safety closure (automatically locking)

COMPACT system barrier with gas spring			With pendulum support			With support post		
Version	Total width (mm)	Light Width (mm)	Shipping weight kg/pc.	Article	€/piece	Shipping weight kg/pc.	Article	€/piece
For doweling, Round cylinder with 2 keys	3,320	2.900	60	222.24.949		75	222.29.410	
	3.820	3.400	70	222.25.156		85	222.28.372	
	4.320	3.900	80	222.22.549		95	222.25.184	
	4.820	4.400	90	222.27.060		105	222.23.852	
	5.320	4.900	100	222.22.516		115	222.27.798	
	5.820	5.400	110	222.26.548		125	222.20.858	
	6.320	5.900	120	222.24.380		135	222.29.758	

Accessories	Article	€/piece
Replacement triangular key	130.19.874	
Pivot post for embedding (version with pendulum support)		
Pivot and support posts for embedding (versions with support posts)		
Securing the locking bolt with a triangular lock instead of a round cylinder		
Securing the locking bolt with a padlock (provided by the construction site)		
Pre-arranged for profile half-cylinder		



# Barrier gates



## COMPACT System barrier *with counterweight*

MADE IN  
**GERMANY**

More info  
about the  
product:



Barrier gate with high functionality and aesthetically pleasing design. Easy to operate due to the length-dependent counterweight integrated into the barrier arm.

- All steel parts galvanized and powder-coated red
- Wide aluminum post with anti-sitting strip and reflective strip
- Including locking cylinder

### Two versions:

With fixed support post or with pendulum support

Rotating and support post for bolting down (can be embedded in concrete upon request).

Support post height adjustable.

#### Dimension s:

Rotating post:	220 x 100 x 1,000 mm
Base plate:	295 x 295 x 10 mm
Post for mounting:	50 x 50 x 1,000 mm
Base plate:	200 x 200 x 10 mm
Alu-tree:	90 x 60 mm

The locking bolt of the COMPACTSystem barrier automatically locks in the open and closed position. Lockable with a different locking round cylinder, including 2 keys. (The key can only be removed in the locked position.)

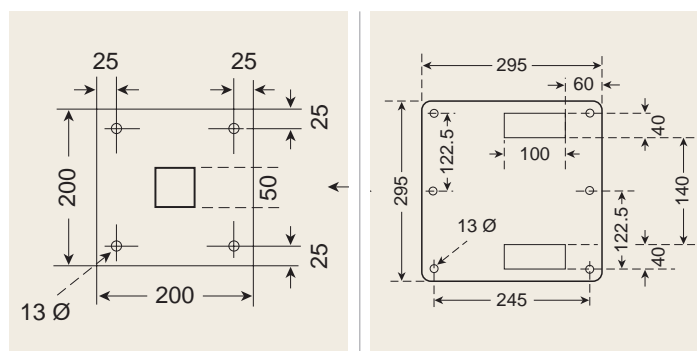
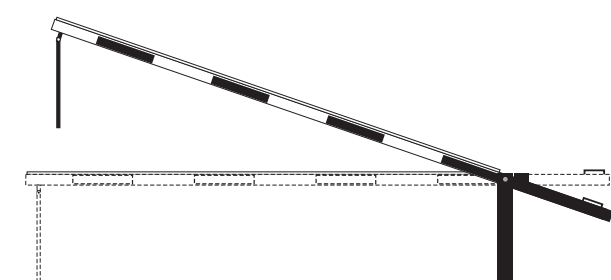
Additional locking options:

- Triangular lock instead of round cylinder
- Round cylinder keyed alike
- Prepared for customer-side profile cylinder
- Double locking: triangular lock and profile cylinder

## Barrier gates



- i**
- Easy operation
  - Robust construction
  - Various locking options
  - Safety lock (automatically engaging)



COMPACT system barrier with counterweight		With pendulum support				With support posts			
Version	Total width (mm)	Clear width (mm)	Shipping weight kg/pc.	Article	€/St.	Light Width (mm)	Shipping weight kg/pc.	Article	€/piece
For doweling, Round cylinder with 2 keys	3,000	1,895	75	226.24.283		–	–	–	–
	3,500	2,395	85	226.23.453		–	–	–	–
	4,000	2,895	95	226.20.211		2,895	110	226.29.274	
	4,500	3,395	105	226.23.358		3,395	125	226.25.650	
	5,000	3,895	115	226.26.559		3,895	135	226.29.856	
	5,500	4,395	125	226.20.445		4,395	145	226.27.529	
	6,000	4,895	135	226.26.388		4,895	155	226.25.934	
	6,500	5,395	145	226.28.093		5,395	165	226.24.133	
	7,000	5,895	155	226.23.827		5,895	175	226.28.401	

Accessories	Article	€/piece
Replacement Triangular Wrench	130.19.874	
Rotating post for embedding in concrete (version with pendulum support)		
Turning and support posts for embedding (versions with support posts)		
Securing the locking bolt with a triangular lock instead of a round cylinder		
Securing the locking bolt with a padlock (provided by the client)		
Pre-configured for profile half-cylinder		



Barrier gates



- i**
  - Electric
  - Solar module
  - Remote control
  - Simple and convenient
  - Compact design



COMPACT electric barrier

Compact, electrically operated barrier gate with integrated solar module. Extremely comfortable. Blocks access reliably. Suitable for short to medium barrier widths.

Aluminum housing coated in red, aluminum barrier arm white with red reflective stripes.

Pre-assembled and ready for installation: Simply screw it in. No electrical installation necessary. Functionally secure: with manual emergency release.



**Dimensions and data:**

Rotary post: 150 x 150 x 920 mm  
Base plate: 200 x 200 x 5 mm  
Aluminum pole: 60 mm Ø

Battery capacity: approx. 2,500 cycles (open/close)  
Solar module: additionally up to 50 cycles/day

Remote control: 12 m range The delivery includes 1 remote control and 1 battery 6V (already charged).

Additional accessories:  
spare battery, charger,  
additional remote controls

Version	Total width (mm)	Clear width (mm)	Shipping kg/pc.	Item	€/pc.
Included 1 remote control and 1 battery 6V	1,650	1,500	35	223.21.698	
	2,150	2,000	36.6	223.24.144	
	2,650	2,500	38.4	223.29.795	
Accessories				Article	€/St.
Remote control (max 24 pieces per barrier)				223.20.969	
Replacement battery (6 Volt)				223.23.724	
Charger (not included in the delivery)				223.26.644	



- Easy operation
- Compact design
- Smooth operation
- Various closing options

## COMPACT manual barrier

MADE IN  
GERMANY

A beautifully designed, easy-to-operate barrier for short to medium closure widths. Smooth operation through gas pressure spring.

- All steel parts galvanized and powder-coated red
- Wide aluminum beam with anti-sit strip and reflective strip
- Including locking cylinder

For screw mounting  
(for embedding in concrete upon request).

Lockable in open and closed position with different locking profile cylinder, including 2 keys.



**Dimension s:**  
Rotating post: 100 x 100 x 1,000 mm  
Base plate: 200 x 200 x 10 mm  
Aluminum tree: 90 x 60 mm  
Maximum length: 4,500 mm  
(from 3,500 mm with additional pendulum support.)

Execution	Total width (mm)	Clear width (mm)	Shipping weight kg/pc.	Article	€/piece
<b>For</b> doweling, Profile cylinder with 2 keys	2,500	1,720	45	224.29.696	
	3,000	2.220	50	224.22.401	
	3,500	2.720	55	224.20.095	
	4.000	3.220	60	224.28.826	
	4.500	3.720	65	224.29.890	

Accessories	Article	€/piece
Replacement triangular key	130.19.874	
Turn post for embedding in concrete		
Securing the locking bolt with a triangular lock instead of a cylinder lock		
Prepared for profile half-cylinder		



# Swing and gate barriers



- Laterally pivotable
- Easy operation
- Stable and robust construction
- Various closing options



## COMPACT swing barrier

MADE IN  
**GERMANY**

The new generation of horizontally pivotable barriers. Modern and visually appealing.

Easy-to-operate barrier with two support posts for optimal protection in closed and open positions.

- All steel parts galvanized and powder-coated red
- Wide aluminum frame with anti-sit strip and reflective strip
- Including locking cylinder

Rotating and two support posts for bolting (can be embedded in concrete upon request).

Support post height adjustable.

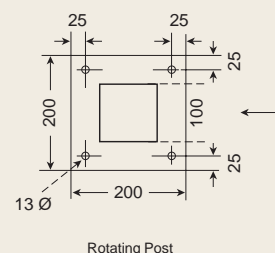
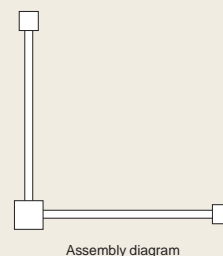
The pivoting wing locks automatically every 90°. Lockable with different locking round cylinders, including 2 keys.

Other locking options:

- Triangular lock instead of round cylinder
- Round cylinder keyed alike
- Prepared for customer-side profile cylinder
- Double locking: triangular lock and profile cylinder

Dimension  
s:

Pivot post: 100 x 100 x 1,000 mm  
Base plate: 200 x 200 x 10 mm  
Support post: 50 x 50 x 1,000 mm  
Base plate: 200 x 200 x 10 mm  
Alu tree: 90 x 60 mm  
Alu crossbar: 60 x 30 mm



Execution	Total width (mm)	Light Width (mm)	Shipping weight kg/pc.	Article	€/piece
<b>For</b> doweling, With two support posts; round cylinder with 2 keys	2.500	2.205	55	225.24.432	
	3.000	2.705	60	225.24.693	
	3.500	3,205	65	225.29.755	
	4,000	3,705	70	225.29.724	
	4,500	4.205	75	225.28.929	
Accessories				Article	€/St.
Replacement triangular key				130.19.874	
Post for embedding in concrete (per post)					
Securing the locking bolt with a triangular lock instead of a round cylinder					
Securing the locking bolt with a padlock (provided by the customer)					
Prepared for profile half-cylinder					



- One barrier = two wings
- Laterally pivotable •
- Easy operation • Stable and robust construction •
- Various closing options



## COMPACT gate barrier

MADE IN  
GERMANY

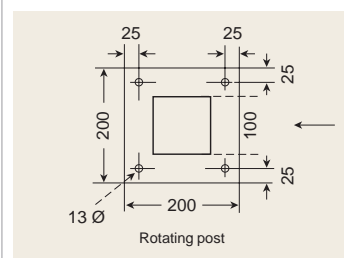
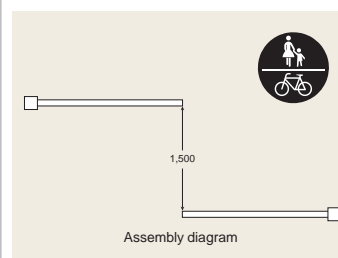
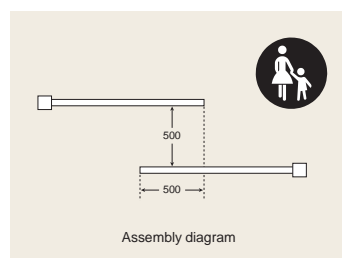
Modern, horizontally pivotable barrier. • Zinc-coated and red powder-coated pivot post • Wide aluminum beam with anti-sit strip and reflective strip • Including locking cylinder

For bolting down (optionally for embedding in concrete). The pivoting wing locks automatically every 90°. Lockable with different locking round cylinder, including 2 keys.

Additional closing options: • Triangular lock instead of round cylinder • Round cylinder keyed alike • Prepared for customer-side profile cylinder • Double locking: triangular lock and profile cylinder

### Dimension s:

Pivot post: 100 x 100 x 1,000  
Base plate: mm 200 x 200 x 10  
Aluminum beam: mm 90 x 60 mm  
Aluminum crossbar: 60 x 30 mm



Execution	Total width per wing (mm)	Clear width (mm)	Shipping weight kg/pc.	Article	€/piece
<b>For doweling, One barrier = 2 wings round cylinder with 2 keys</b>	1,250	1.050	75	221.29.973	
	1,750	1.550	90	221.22.813	
	2.250	2.050	105	221.27.418	
	2.750	2.550	120	221.21.467	
	3.250	3.050	135	221.25.404	
Accessories				Article	€/piece
Replacement triangular key				130.19.874	
Post for embedding in concrete (per wing)					
Securing the locking pin with triangular lock instead of cylinder lock (per wing)					
Securing the locking bolt with padlock (by the client)					
Prepared for profile half-cylinder (per wing)					



# Passage limiter



## COMPACT passage limiter *rigid*

MADE IN  
**GERMANY**

Prevents vehicles (e.g. trucks, caravans, motorhomes) from improperly accessing parking and rest areas or driveways.

Stable base construction for bolting down (can be embedded in concrete upon request). Consists of two hot-dip galvanized, red-coated steel posts and a white aluminum pole with red reflective strips.

The aluminum pole is securely screwed in place using two receiving tubes.

### Dimension s:

Stand post: 100 x 100 x 3,010 mm

Base plate: 295 x 295 x 10 mm

Aluminum pole: 105 x 60 mm

Total height: 3,010 mm

Max.

Pass height: 2,800 mmPossible

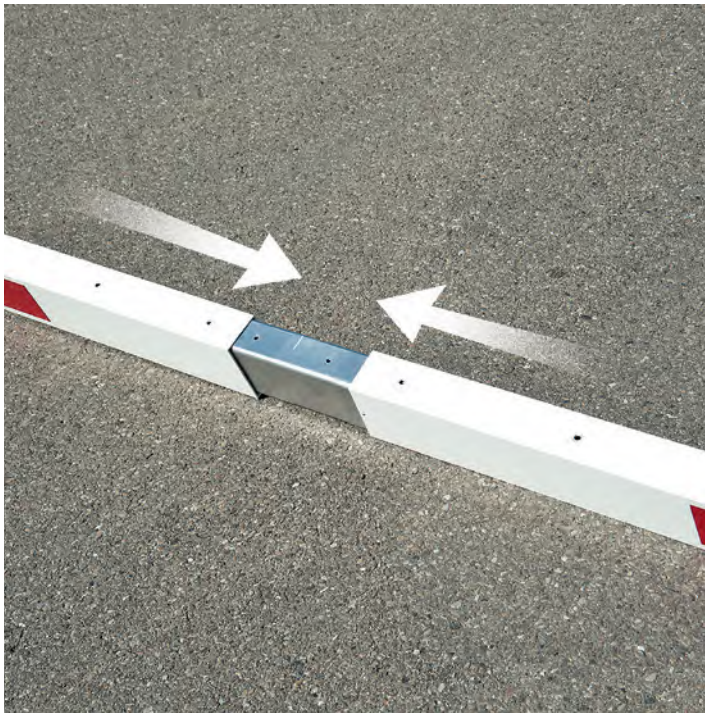
widths: 3,230 to 10,230 mm

(from 6,000 mm two-part beam,

bolted with inner tube) Five

different pass heights: 2,200 m



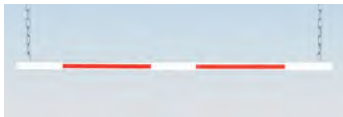


- i*
  - Fixed
  - Tree reflecting
  - Two types of fastening
  - Easy assembly

Version	Total width (mm)	Clear width (mm)	Shipping weight kg/pc.	Article	€/St.
For bolting	3.230	3.000	70	305.22.250	
	4.230	4.000	75	305.27.291	
	5.230	5.000	80	305.21.734	
	6.230	6.000	90	305.22.355	
	7.230	7.000	95	305.25.927	
	8.230	8.000	100	305.23.437	
	9.230	9.000	105	305.27.712	
	10.230	10.000	110	305.27.911	
Accessories				Article	€/piece
Ground Pipe for Concrete Embedding (2 pieces required)				222.22.548	

COMPACT Drive  
Limiter  
Height Adjustment

Additional height adjustment made of aluminum (60 x 30 mm), reflective on both sides, reduces the passage dimension by an additional 400 mm. Including two chains (6 mm steel, hot-dip galvanized) and screw connectors.



Execution	Width (mm)	for widths (mm)	Shipping weight kg/pc.	Article	€/pc.
Aluminum	2.000	3,000 – 5,000	8	305.21.100	
	4.000	5,000 – 8,000	10	305.23.888	
	6.000	8,000 – 10,000	12	305.21.949	



Passage Limiter



COMPACT Passage  
Limiter  
*rotatable*

MADE IN  
GERMANY

Prevents vehicles (e.g. trucks, caravans, motorhomes) from unlawfully accessing parking and rest areas or driveways.

Rotatable design allows controlled passage of vehicles whose structure exceeds the set passage height.

Stable base construction for bolting down (can be embedded in concrete upon request). Consisting of a rotating steel post and a white aluminum frame with red reflective stripes. Post hot-dip galvanized and red coated.

Dimension  
s:

Rotating post: 100 x 100 x 2,810 mm  
Base plate: 295 x 295 x 10 mm  
Aluminum post: 105 x 60 mm  
Total height: 2,810 mm Max.

passage height: 2,650 mm  
Possible widths: 3,205 to 5,205

mm Four different passage

heights: 2,200 mm, 2,350 mm, 2,50

Securing the rotatable steel post with a triangular lock.

Additional closing options:

- Cylinder lock
- Locking bolt (padlock provided by the customer)



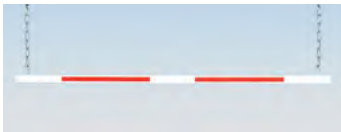


- i*
  - Rotatable
  - Tree reflecting
  - Two types of fastening
  - Easy assembly

Version	Total width (mm)	Light Width (mm)	Shipping weight kg/pc.	Article	€/piece
<b>For doweling</b> With triangular lock	3.205	3.000	55	305.27.817	
	3.705	3.500	60	305.22.859	
	4.205	4,000	65	305.23.208	
	4.705	4,500	70	305.22.147	
	5,205	5.000	75	305.22.810	
Accessories				Article	€/piece
Ground pipe for embedding in concrete				222.22.548	
Replacement triangular key				130.19.874	
Securing the locking bolt with a cylinder lock instead of a triangular key					
Securing the locking bolt with a padlock instead of a triangular key (lock provided by the construction site)					

**COMPACT passage limiter**  
*Height dependency*

Additional height adjustment made of aluminum (60 x 30 mm), reflective on both sides, reduces the passage dimension by an additional 400 mm. Including two chains (6 mm steel, hot-dip galvanized) and screw connectors.



Execution	Width (mm)	for widths (mm)	Shipping weight kg/piece	Article	€/piece
Aluminum	2,000	3,000 – 5,000	8	305.21.100	



# Swing and gate barriers



- i*
  - Two-sided barrier •
  - Laterally pivotable •
  - Stable construction •
  - Two closing variants



## PARAT gate barrier

MADE IN  
GERMANY

Durable, two-sided gate barrier, horizontally pivotable. With one fixed, yet rotatable post and one removable post. For temporarily blocking paths, driveways, etc.

All steel parts are hot-dip galvanized and painted red and white. Post with two recesses for receiving the crossbeams. For embedding in concrete.

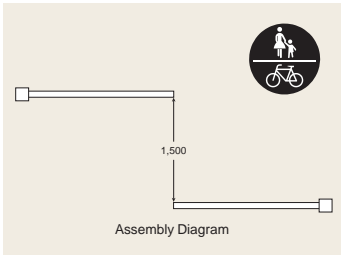
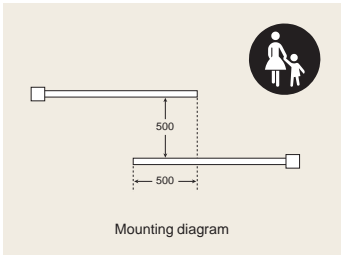
Lockable with a side triangular lock according to DIN 3223.

A triangular key is included in the scope of delivery.

Locking option: Cylinder lock, including 2 keys

Dimensions:  
Post: 70 x 70 x 1,000 mm  
(Above ground)  
Crossbeam: 60 x 40 mm

Accessories: Additional ground sleeves for parking the opened barrier wings



Design	Total width per wing (mm)	Light Width (mm)	Shipping weight kg/pc.	Article	€/piece
For embedding in concrete, One barrier = 2 wings triangular lock	1.500	1.400	80	220.12.694	
	2.000	1.900	95	220.10.527	
	2.500	2.400	110	220.11.460	
	3.000	2.900	125	220.12.737	
	3.500	3.400	140	220.12.333	
Accessories				Article	€/piece
Additional ground sleeve (for opened barriers) with closure lid				220.12.336	
Additional triangular key				130.12.326	
Locking device with cylinder lock instead of triangular (per wing)					
Execution red reflecting					

## MORION height limiter aluminum



Secures entrances, underpasses, and overbuildings (passages). For parking garages, halls, buildings, or facilities with restricted height.

Aluminum profile with side protective caps, 150 x 20 mm (H x D), one side covered with reflective type-1 film (double-sided on request).

Suspension by two knot chains with steel ring and screws, galvanically galvanized, each 2 m long.

- Aluminum profile
- Reflective
- Including chain
- Various widths

**MADE IN GERMANY**



Execution	Width (mm)	Shipping weight kg/pc.	Article	€/St.
red-white	2.000	6	302.15.082	
	2.500	7	302.16.975	
	3.000	11	302.18.457	
	4.000	13	302.13.245	
	5.000	15	302.15.125	
black-yellow	2.000	6	302.16.017	
	2.500	7	302.16.495	
	3.000	11	302.17.584	
	4.000	13	302.13.360	
	5.000	15	302.19.951	

## MORION height limiter plastic



Height limiter in lightweight construction. Secures entrances, underpasses, and overbuildings without damaging vehicles.

Round cylinder made of plastic (polyethylene), completely red-white reflective. Two lateral black borders. Completely edge-free.

Suspension by two knot chains, galvanically galvanized, each 2 m long. Chain end with steel ring for hanging the height limiter (ceiling hook on site).

- Plastic cylinder
- Completely edge-free
- Reflective
- Including chain



Also available in yellow reflective with black stripes.



Execution	Width x Ø (mm)	Shipping weight kg/pc.	Article	when purchasing at €/pc.
red-white	950 x 100	2.7	302.24.997	
black-yellow			302.22.967	





## Traffic Management

DISCOVER OUR DIVERSITY OF TRAFFIC SOLUTIONS!

Our comprehensive traffic management range, including our successful private label GAMMA, offers thoughtful solutions for the efficient control and security of traffic flows. Our range includes a variety of solutions such as traffic islands, elastic curbs, and paving stones that reflect the diversity of our offerings. Trust our expertise to optimally organize and protect traffic areas.

GAMMA **T**raffic **I**sland 219

GAMMA Elastic Curbs

222

GAMMA **P**aving **S**tones

224





## GAMMA traffic island

The GAMMA traffic island separates and organizes traffic flows. It serves as a crossing aid, protects pedestrians, mitigates intersections, and entrance and exit points, etc.

The semicircular traffic island is modular and available in two sizes. It is made of pure rubber granulate. This material is particularly suitable as it absorbs impact forces better than rigid materials made of concrete or plastic.



### Note:

In traffic areas with high vehicle volume, it is advisable to additionally glue the outer ring to the roadway.

Each traffic island consists of an outer ring that is bolted to the roadway and two inner parts. This makes the transport of the traffic island, the handling on site, and the assembly completely hassle-free.

The inner parts have a recess (60 mm) for the reception of the sign posts.

Cost-effective variant: The high stability of the outer ring allows for assembly without inner parts. The inner area of the traffic island can alternatively be planted, or – as is common in some European countries – filled with (coarse) gravel, stones, or chippings.

### Advantages:

- very affordable and flexible
- quickly assembled, saves complicated traffic management
- easier transport (no loading crane required)
- absorbs starting forces
- adapts to the road curvature
- plantable inner island



Outer ring of the GAMMA traffic island, silver-gray, with white reflective tape. Anchoring points for the reception of the mounting dowels (included).



Inner part of the GAMMA traffic island, silver-gray, with cutout for pipe post 60 mm. For insertion into the traffic island.



# Traffic island

## Execution

The base color of the elements is silver-gray. Outer ring with white reflective tape.

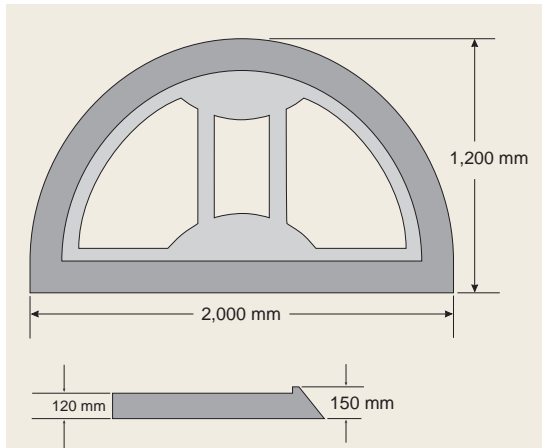
## Traffic island 200

Width: 200 cm  
Depth: 120 cm  
:Heig: 15 cm  
ht: 15 cm  
Mounting dowels: 6 pieces

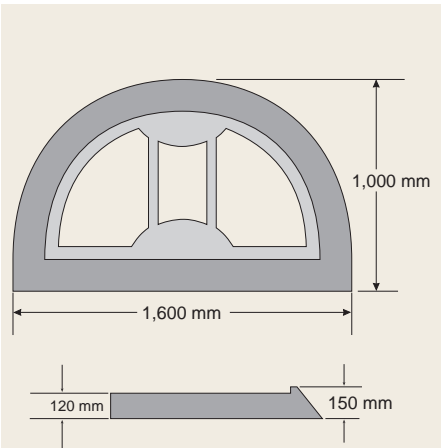
## Traffic island 160

Width: 160 cm  
Depth: 100 cm  
:Heig: 15 cm  
ht: 15 cm  
Mounting dowels: 6 pieces

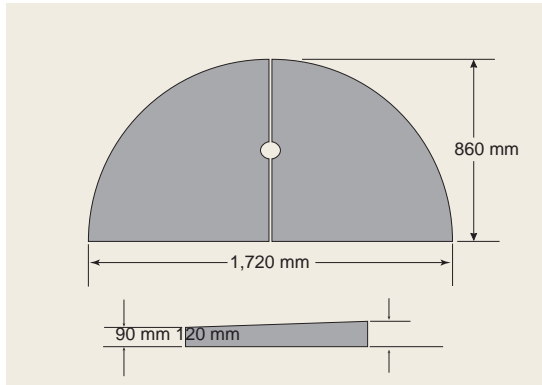
MADE IN  
GERMANY



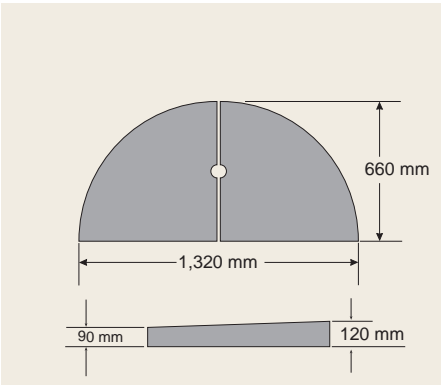
Traffic island 200, Outer ring



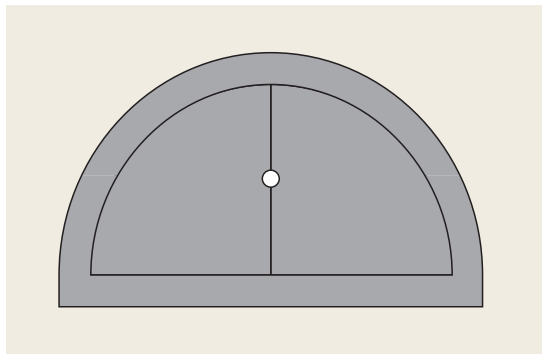
Traffic island 160, Outer ring



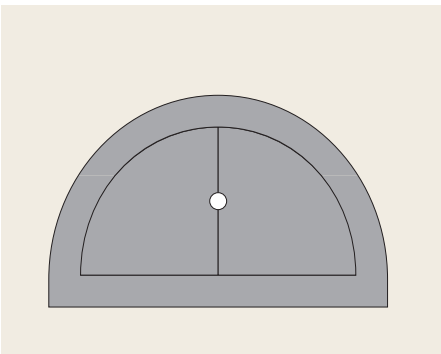
Traffic island 200, inner part



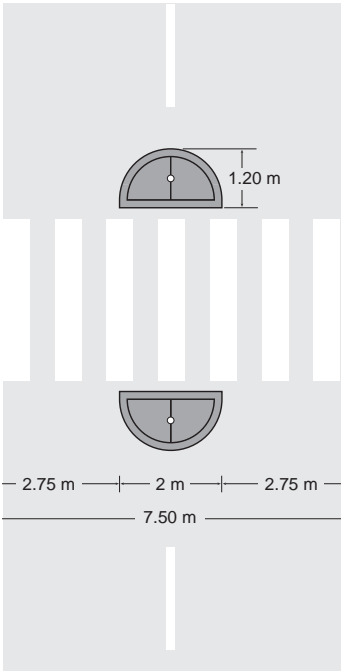
Traffic island 160, inner part



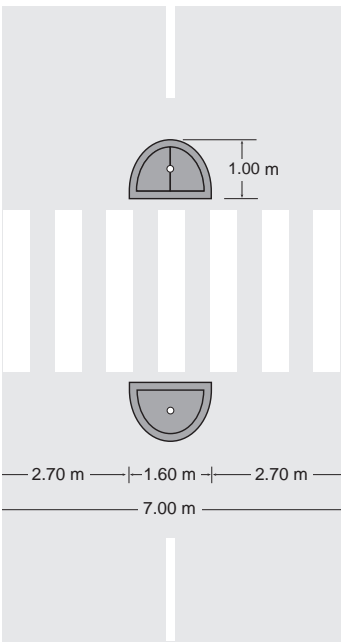
Traffic island 200, Variant outer ring with inner part



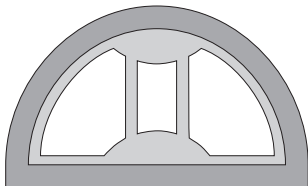
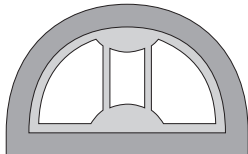
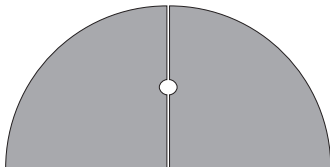
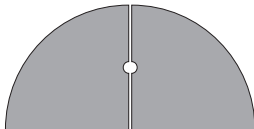



Traffic island 160, Variant outer ring with inner part



Application example:  
Traffic island 200



Application example:  
Traffic island 160

GAMMA traffic island outer ring 200 cm (including fastening material)		Width (cm)	Depth (cm)	Height (cm)	Shipping weight kg/pc.	Article	€/piece	
		200	120	15	75	283.13.530		
GAMMA traffic island outer ring 160 cm (including fastening material)								
		160	100	15	60	283.18.384		
GAMMA traffic island inner part, 2-piece, 200 cm								
		172	86	12	2 x 45	283.18.464		
GAMMA traffic island inner part, 2-piece, 160 cm								
		132	66	12	2 x 38	283.14.622		
GAMMA traffic island accessories		Dimensions (mm)			Shipping weight kg/pc.	Article	€/piece	
Sign post with base plate, hot-dip galvanized		60/1.550			7	283.17.120		
Sign post for embedding in concrete, hot-dip galvanized		60/1.950			6	283.19.819		
	Warning column, red/white, Type 2, right-facing		160 Ø, height 500		3	283.15.277		
	Warning column, red/white, Type 2, left-facing					283.19.289		
			Traffic sign 222 Type 2, profile reinforced (Alform)		600 Ø	1.5	283.15.463	
Alform pipe clamp (2 pieces per traffic sign)		60			0.5	283.19.442		
Cast iron base sleeve; complete with clamping and threaded ring				for pipes 60 Ø, length 300 mm		5.5	150.18.049	
2-component adhesive (for 4 island heads)					6.7	282.17.343		





## GAMMA Elastic curbstones



### TIP:

Elastic curbs must fundamentally be supported with solid materials, such as asphalt (up to 80 °C), concrete, paving stones, etc. The support can be formed as a wedge so that the remaining area can be filled with topsoil and planted, possibly excavated beforehand.

### Retroreflective, flexible curbstones – a brilliant idea

Versatile, flexible retroreflective traffic element for

- Limiting/encasing traffic islands and road dividers\*
- Limiting/encasing sidewalk widenings and road narrowing, road constriction
- Curbstone elevation/traffic island elevation
- Wheel guidance in parking garage exits (protection of rims and tires against rubbing on the curb)
- Curb protection in tunnels and underpasses (increased visibility through retroreflective tape)

\*Minimum diameter:  
250 cm/15 cm height  
350 cm/10 cm height

An elastic curbstone has different leg lengths: 10 and 15 cm. This allows for two construction heights with an elastic curbstone.

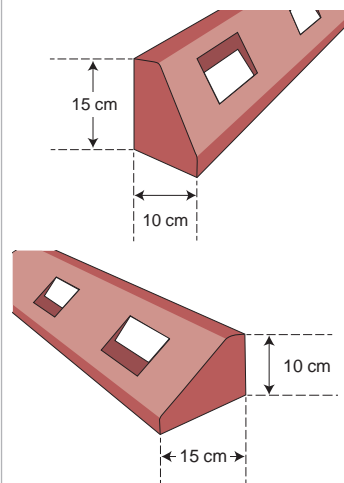
Matching corner elements (90°) are also available.

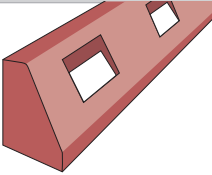
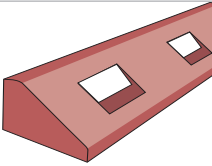
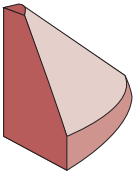
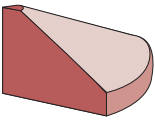
Optionally black or reddish-brown.

Elastic curbs can be cut on-site with a pendulum jigsaw or mitered.

The elements are secured with road dowels. In continuous assembly, they are glued together at the ends.





GAMMA elastic border stones		Width (cm)	Length (cm)	Height (cm)	Color	Shipping weight kg/pc.	Article	€/pc.
	Elastic border stone with 4 mounting plates/anchors	10	125	15	black	11	287.16.937	
					reddish-brown		287.14.428	
	Elastic curb stone with 4 mounting plates/anchors	15	125	10	black	11	287.16.937	
					reddish-brown		287.14.428	
	Corner element height with 1 mounting plate/plug	10	10	15	black	1	287.14.996	
					reddish-brown		287.18.334	
	flat angle element with 1 mounting plate/dowel	15	15	10	black	1	287.15.350	
					reddish-brown		287.17.756	



# Speed bumps

Dynamically effective speed bumps, such as the so-called "Berliner Kissen", are the most effective form of speed reduction. In addition to the dynamic effect, there is always a psychological effect, as the elements appear higher than they actually are.

The speed bumps used in public areas (minimum size 180 x 300 cm) made of recycled rubber offer additional advantages:

1. They can be easily crossed by all vehicles.
2. They provide maximum sound insulation when crossed.
3. The effect of traffic calming is more area-wide than point-specific.

The (road) thresholds that can also occasionally be found in public areas have disadvantages compared to the (longer) speed bumps, as their short crossing length achieves a more jolting, dynamic effect. Thresholds are therefore only effective at specific points and do not lead to the desired linear traffic calming.

The significantly higher noise emissions when driving over them also argue against their use in residential areas. Therefore, thresholds can only be recommended for public roads in exceptional cases.

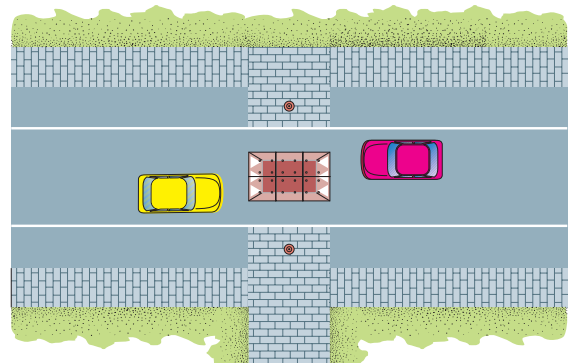


## TIP:

For design reasons, the black version is generally recommended for pavements, as it does not change its appearance even after years.

Plateau speed bumps are always preferred over large area partial speed bumps, especially when cyclists share the road. Additionally, the water drainage is maintained. Therefore, only examples of plateau speed bumps are presented here.

The water drainage is maintained. Therefore, only examples of plateau speed bumps are presented here.

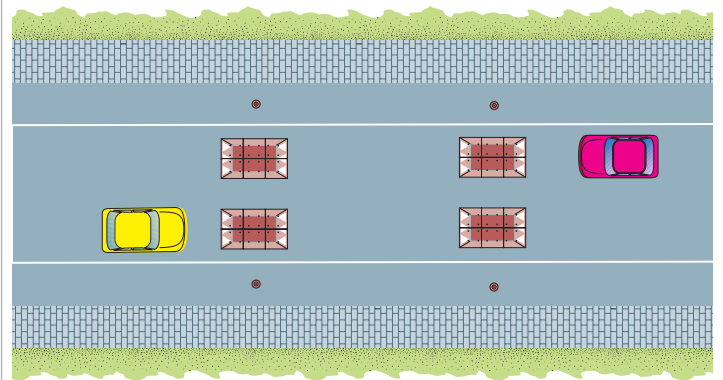


Plateau speed bump in the stretch area; road width at least 3.30 m.

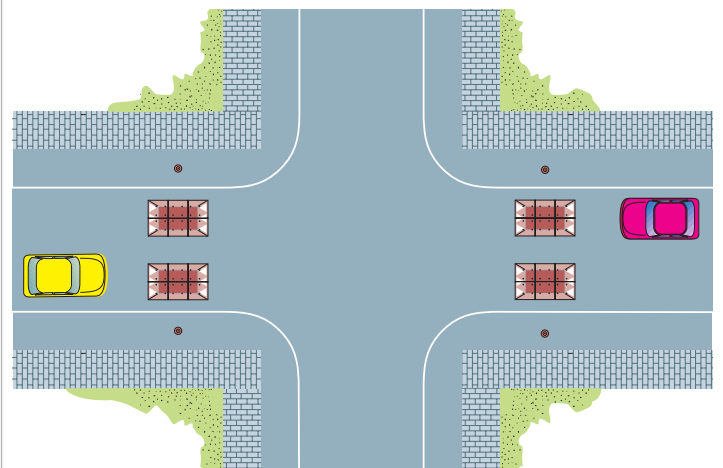
## Split plateau pavement

offer maximum flexibility: Buses and trucks can practically drive over these split plateaus unhindered. The lateral distance between the split pavements must not exceed 120 cm. Otherwise, cars try

drivers to "slip through" the center of the roadway – between the pavements. The lateral bypassing of the pavement – over the sidewalk – is prevented by bollards, railings, planting beds, etc.



Split plateau pavement in the stretch area; road width at least 5.80 m.

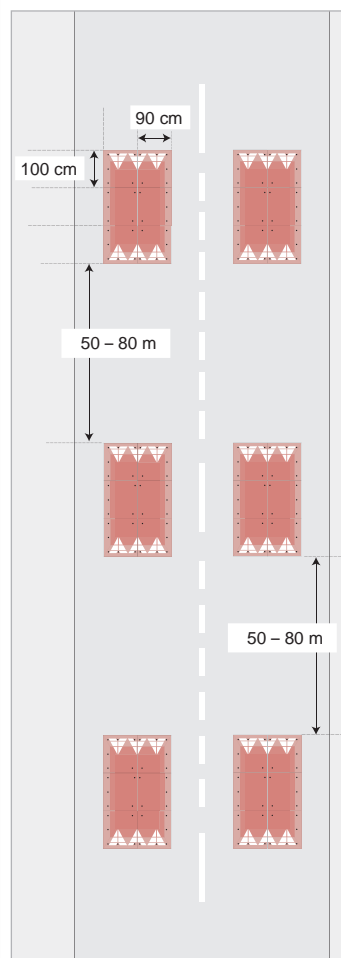


Split plateau pavement at the intersection; road width at least 5.80 m.

If only individual speed bumps are used, the speed especially in the area of the speed bumps decreases. Maintaining a certain 85-percent speed (V85) can be achieved linearly through the repetition of speed bumps after about 50 to 80 meters and/or through accompanying measures.

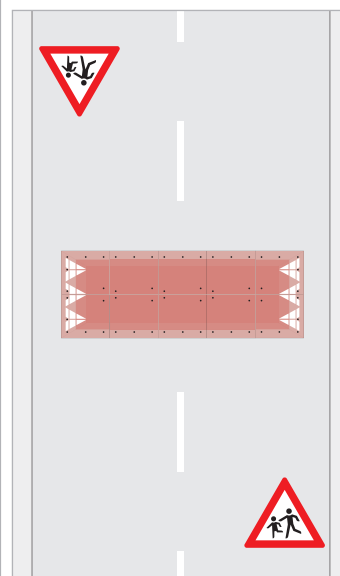
Here, complementary elements made from the same material, such as elastic curbs and traffic islands, are offered, with which islands, crossing aids, lane separations, etc. can be designed cost-effectively "in one piece."

The speed bump elements described below are made from recycled rubber (car tires). These elements are particularly resident-friendly, as rolling over rubber elements is significantly quieter than over concrete, paving, etc.



## TIP:

We recommend placing a traffic sign (Z112) in both directions so that winter services, street sweepers, etc. can recognize the speed bumps.



## TIP:

Tip: For pavements that are installed long-term, we additionally recommend securing them with road dowels and applying adhesive over the entire area. For medium-term use, we recommend at least gluing the edge areas to prevent dirt (gravel, sand, small stones) from penetrating between the roadway and the ramp. Where both is not possible or not desired, an injection resin (by the contractor) can strengthen the connection between the dowel and the road structure.



## TIP:

Pavements for area-wide traffic calming should generally be laid in the direction of travel (and not across it). Exception: At focal points (schools, kindergartens...) it may be sensible to lay them across the direction of travel for a point-specific traffic calming.



Speed bumps



GAMMA Berlin cushions EU



For speed reduction within 10 km/h and 30 km/h zones. Usable for both junctions and along routes (street sections).

The Berlin cushion EU has differently steep ramp inclinations. Thus, (viewed from the direction of travel) the side ramp inclination is steeper than the front and end ramp.

For the area-wide achievement of a target speed (V85) of max.  
At 30 km/h, the cushions are laid lengthwise. The lower ramp inclination – in conjunction with the "pleasant" feeling of going up and down – increases the acceptance of road users.

The desired point effect in exceptions (kindergarten, school) is achieved by laying the

The cushions reach across the roadway. Here, the steeper ramp and the short crossing distance create a significantly more uncomfortable dynamic driving effect.

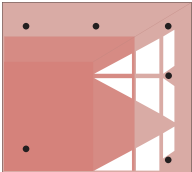
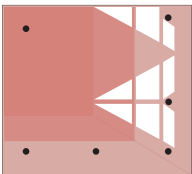
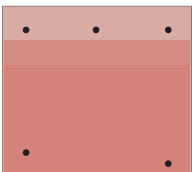
Berlin cushions EU are often used as the first measure when transitioning from 50 to 30 km/h. This makes the change to the lower speed clear to the road user.

Berlin cushions EU are safe for all vehicles to cross due to their low height (6.5 cm).

Berlin cushions EU are divided plateau speed bumps; thus, existing drainage facilities can be retained.



**Note:**  
Buses can pass over the Berlin cushions EU without hindrance. The buses only drive over the flat edge areas of the cushion due to the larger axle width (outer width 180 cm; plateau 120 cm), which remains without effect on driving dynamics.

GAMMA Berlin cushions EU (including fastening material)		Width (cm)	Length (cm)	Height (cm)	Color	Shipping weight kg/pc.	Article	€/pc.
	Corner element right (6 drill holes)	90	100	6.5	black	36	283.29.472	
					reddish- brown		283.21.797	
	Corner element left (6 drill holes)	90	100	6.5	black	36	283.20.959	
					reddish- brown		283.25.493	
	Edge element (5 drill holes)	90	100	6.5	black	46	283.22.072	
					reddish- brown		283.28.027	
2-component adhesive for permanently securing GAMMA elements on traffic surfaces				Consumption: approx. 2 kg/sqm		13.4	282.18.654	
						6.7	282.17.343	



- i**
  - Made of 100% vulcanized rubber
  - Effective speed limitation
  - Low noise and user-friendly
  - Durable and recyclable
  - Easy installation

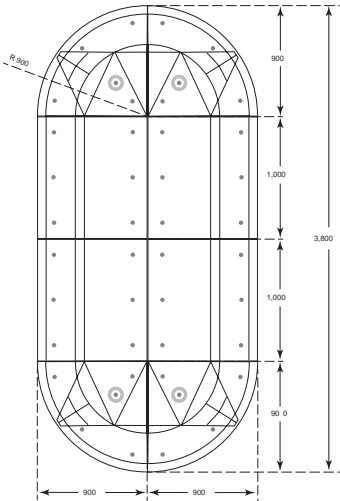


**GAMMA**  
*Berlin cushion oval*

The Berlin cushion in oval sinusoidal design is a high-quality, durable road cushion made of layer-vulcanized recycled rubber. Available in black or red, each with a white edge. Due to the vibration-insulating construction, it has lower noise pollution compared to other speed bumps.

The ramp gradient in a ratio of 1:8 creates a psychological effect for speed reduction to < 50 km/h. In combination with accompanying measures such as signage or road shifts, it is also suitable for speed limits in 30 km/h zones and traffic-calmed areas.

The low height of 7 cm can be easily crossed by all vehicles. The width of 180 cm makes the cushion user-friendly for buses, ambulances, and cyclists. The recommended distance between two cushions is between 70 to 140 m.



A set consists of 6 or 8 elements that are easily and securely connected using H-beams. Disassembly and storage, as well as later reuse of the set, is possible without any problems. The required fastening accessories are included in the delivery.



GAMMA Berlin cushions oval (including fastening material)	Length (mm)	Width (mm)	Height (mm)	Versandgewicht.kg/St.	Article	€/St.
black with white border	2.800	1,800	70	296	283.23.136	
	3.800			432	283.24.674	
red with white border	2,800			296	283.20.097	
	3,800			432	283.20.429	
2-component adhesive for permanently securing GAMMA elements on traffic surfaces			Consumption : approx. 2 kg/sqm	13.4	282.18.654	
				6.7	282.17.343	



# Raised Pavements



## GAMMA Plateau Cushion

For speed reduction within 10 km/h and 30 km/h zones.

The GAMMA Plateau Cushion made of vulcanized rubber is a modular "construction kit" with different shape parts. This allows for variable raised pavements in size (width and length).

Consciously, as with the Berlin Cushion, different ramp inclinations were also chosen: Front and end elements are flat rising/falling (1:15), while the side elements rise significantly steeper (1:3).

**Effect:**

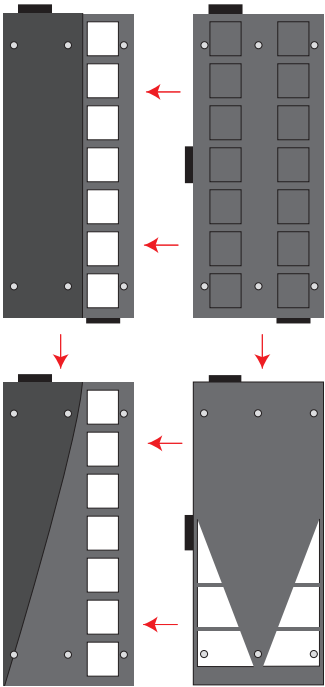
- High acceptance due to a moderate dynamic effect.
- Road users avoid driving over the side area that slopes towards the curb. The often observed "lateral evasion" usually does not occur.

All elements of the GAMMA plateau cushion have dimensions of 45 x 100 x 7.5 cm (W x L x H). The starting elements are wedge-shaped and rise from 0.8 cm to 7.5 cm. The middle elements are consistently 7.5 cm high.

For better connection of the elements to each other, the integrated groove and tongue system is used. Additional support is provided by an H-profile made of steel. The installation is done by doweling. Fastening material included (6 dowels and screws per element).

The elements are black throughout, with white reflective areas. White triangles in the direction of travel and rectangles running sideways to visually delineate the plateau.

Depending on the road width, four different plateau cushions have been predefined. The lateral distances to the curb should be between 60 and 80 cm (for cyclists).

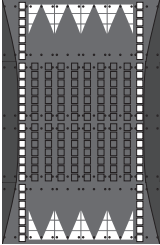
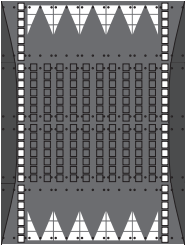
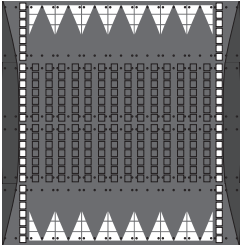
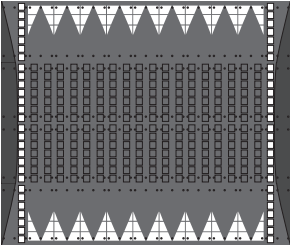


GAMMA plateau cushion (including fastening material)	Plateau size (W x L)	approx. road width
Set A:	270 x 400 cm	390 to 430 cm
Set B:	315 x 400 cm	435 to 475 cm
Set C:	405 x 400 cm	525 to 565 cm
Set D:	495 x 400 cm	615 to 655 cm
Other sizes are easily possible. In width in steps of 45 cm and in length by 100 cm each.		



**TIP:**

For paving that is to be installed long-term, we recommend additionally securing with road dowels and applying adhesive over the entire area of the elements. For medium-term use, we recommend at least gluing the edge areas to prevent dirt (gravel, sand, small stones) from penetrating between the roadway and the ramp.

GAMMA Plateau Cushion black (including fastening material)	Version	Width (cm)	Length (cm)	Height (cm)	Selection Elements	Shipping weight kg/pc.	Article	€/pc.
	Set A	270	400	7.5	24	734	286.25.158	
	Set B	315	400	7.5	28	862	286.25.640	
	Set C	405	400	7.5	36	1.112	286.23.804	
	Set D	495	400	7.5	44	1.362	286.27.722	
2-component adhesive for permanently attaching GAMMA elements to traffic surfaces				Consumption: approx. 2 kg/sqm		13.4	282.18.654	
						6.7	282.17.343	

