





IMPACT PROTECTION SLABS & ACCESSORIES for Playgrounds and Multipurpose Sports Facilities



#2 / Nov. 2020

Made in Germany



EPDM 01 standard colours





EPDM 03 mixed colours



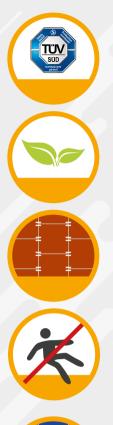


Fall heights & advantages

Tested quality - that is our promise!

The use of shock-absorbent floor systems is necessitated by the requirements of DIN EN 1177:2018. This standard requires shock-absorbent flooring for a fall height of 60 cm or more. The suitability of Impact Protection Slabs made of bonded, permanently elastic recycled rubber granules is documented by a test certificate. The impact attenuation is tested using the HIC method.

All EUROFLEX® Impact Protection Slabs are tested in accordance with DIN EN 1177:2018 to determine the HIC value.



Tested Quality ISO 9001 certified, Compliance with impact

protection standards EN 1177:2018

Environment-friendly manufacturing process high recycling rate



High anti-slip properties due to granular structure; Water permeability prevents puddling



Great freedom for design numerous standard and EPDM colours, multicolor, motifs, letters, numbers



High elasticity for cushioning shocks / falls and for a pleasant walking sensation



Impact sound insulation for a quiet environment

Outstanding durability

frost-proof and rot-proof

Complete traceability

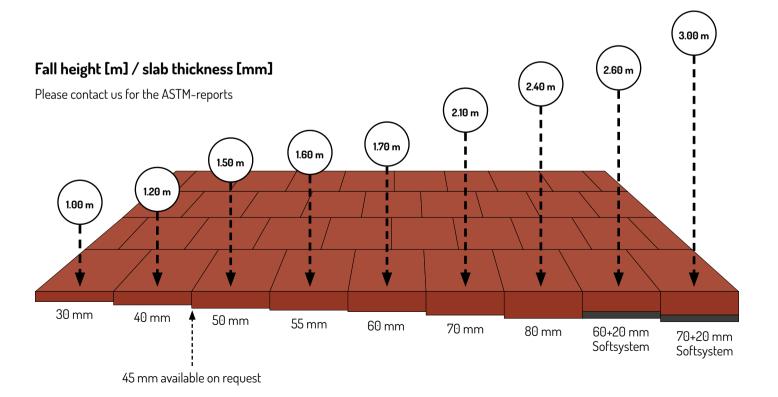
of the raw-materials through to the final product by using production codes on every single slab



123 456 78

Wide range of peripheral accessories

balls, half balls, cubes, diamonds, stepper, mushrooms, animals





Impact protection slabs

Highest safety performance since more than 40 years!

30

EUROFLEX® Impact Protection Slabs guarantee the highest safety standard on playgrounds - for the past 40 years. They allow children to romp about happily, without risk of injury. EUROFLEX® Impact Protection Slabs offer effective protection when children jump or fall to the ground by attenuating the impact and therefore reducing the risk of injury.













EUROFLEX® Impact Protection Slabs & edge and corner profiles made of recycled rubber granules

The shock absorption of EUROFLEX® impact protection slabs provides safety without sacrificing reliability and durability. Independent of weather or extreme temperatures children can always play carefree. EUROFLEX® impact protection slabs are TÜV approved according to DIN EN 1177:2018. Edge and corner profiles are significantly improving the safety around surfacing systems by reducing the danger of tripping. Another important benefit: They allow access with wheelchairs and pushchairs.



Impact Protection Slab standard red

		1,000 x 500 mm (only for 40, 50 mm thickness)		
colours	red/	green/black/grey		
other	pre-i	pre-installed connector pins included		
max. fall height [m]	thickness [mm]	dimensions [mm]	weight ca [kg/pcs.]	
1.00	30	500 x 500	5.3	
1.00	30	500 x 250	2.7	
1.20	40	500 x 500	6.7	
1.20	40	500 x 250	3.3	
1.20	40	1.000 x 500	13.3	
1.50	50	500 x 500	7.8	
1.50	50	500 x 250	3.9	
1.50	50	1.000 x 500	15.5	
1.60	55	500 x 500	8.1	
1.70	60	500 x 500	9.1	
2.10	70	500 x 500	10.3	
2.10	70	500 x 250	5.2	
2.40	80	500 x 500	11.8	
2.40	80	500 x 250	5.9	
2.60	80	Softsystem	9.3	
3.00	90	Softsystem	10.5	



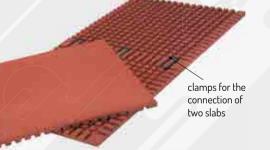
Edge and Corner Profiles (also available with EPDM coating)

	length / width	edge and corner profiles: 1,000 x 250 mm		
	heights	30/10, 40/10, 50/20, 70/20, 80/20, 90/20		
-	colours	red/green/black/grey also available with EPDM coating		

Accessibility

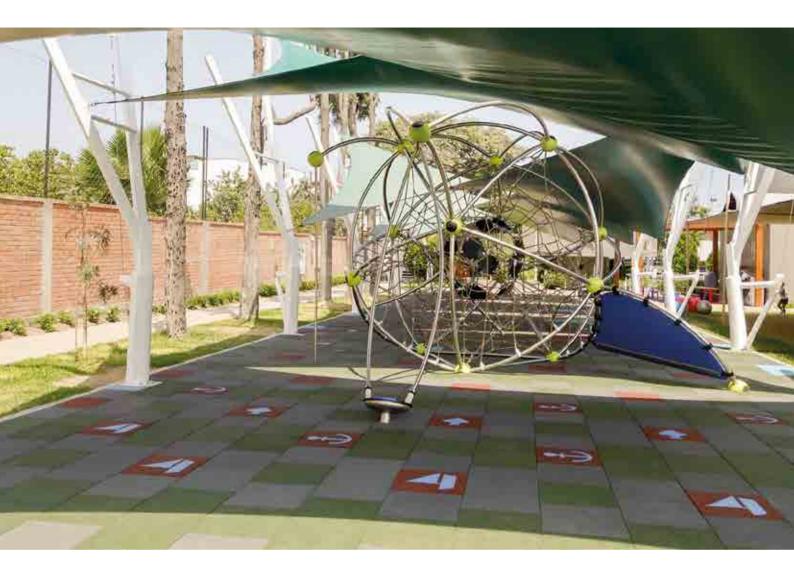
Thanks to our edge and corner profiles, all impact protection slabs can be installed barrier-free.

*Please contact Goric for US/Canada details



Protect slab (for slides & swings)

length / width / height	1,000 x 1,000 x 40 mm 1.30 m red/green/black/grey three connectors/clamps are supplied free of charge per slab.	
fall height		
colours		
other		







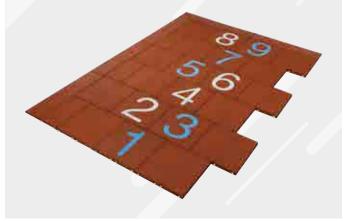
EUROFLEX® Impact Protection Slabs with letters, numbers and symbols

The EUROFLEX® letter and number slabs are ideal for designing playgrounds in schools, kindergardens and day care facilities and provide educational enhancement for all play and sports areas, as well as amusement parks. EUROFLEX® design slabs – alone or in combination with letter and number slabs – provide exciting design options. Areas with themes like e.g. farmhouse, star or sea can be created.



Impact Protection Slab with letters and numbers

length / width	500 x 500 mm please see page 5	
fall heights		
colours lower side: red/green letters/numbers: EPDM inlays in blue/red/grey		
available	numbers 0-9, letters A-Z	
other	pre-installed connector pins included	





Impact Protection Slab with symbols

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đ	¥	@	9	-	6

length / width	500 x 500 mm
fall heights	please see page 5
available colours	slabs with symbols are only available in colour combinations shown above
other	pre-installed connector pins included

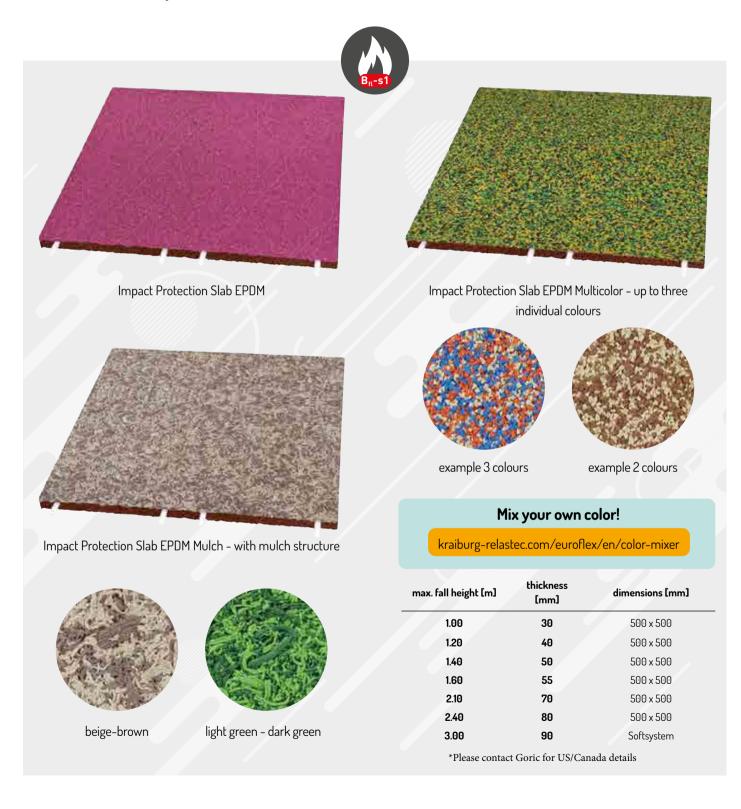






EUROFLEX® Impact Protection Slabs EPDM, Multicolor, Mulch

EUROFLEX® EPDM impact protection slabs enable unlimited colour design. They fulfill highest safety performance in accordance to EN 1177:2018, provide personalized colour patterns and stimulate childrens' creativity. **The Impact Protection Slabs EPDM are available in all EPDM colours, Mulch is only available in the two colours shown below**.



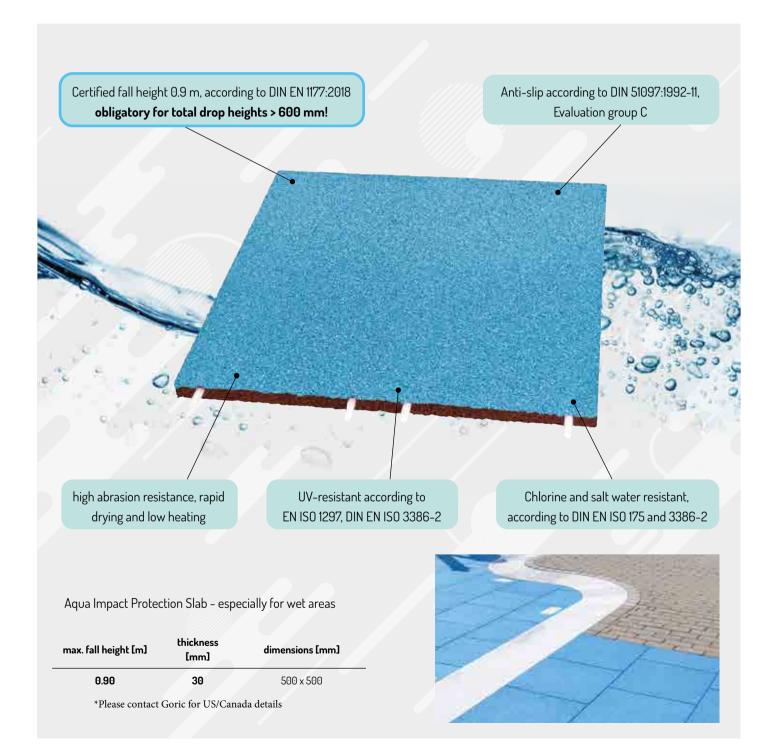






EUROFLEX® Aqua Impact Protection Slabs

EUROFLEX® aqua impact protection slabs are suitable as shock-absorbing surface cover for water playgrounds and spray parks. These slabs combine the safety aspect with all the EPDM options shown on page 13. It meets the standard DIN EN 1177, which mandates a certified fall height from total fall heights > 600 mm (according to DIN EN 17232:2019 Water play equipment and features - Safety requirements, test methods and operational requirements).



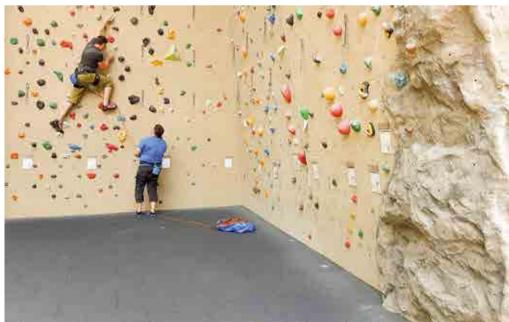














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VISUAL SYSTEM

The best of both worlds

EUROFLEX® impact protection slabs have been proving their worth for many years thanks to their high impact protection values for children's playgrounds. Although our EPDM impact protection slabs and their various designs already offer numerous design possibilities, there are still limits. With our new EUROFLEX® Visual System you can now print individual designs with pixel precision – in virtually any shape and size! From motifs such as stones, lawns, wooden floors, sea and jungle to your own logos, corporate design colours or lines, everything is possible!



More information in our Indoor brochure



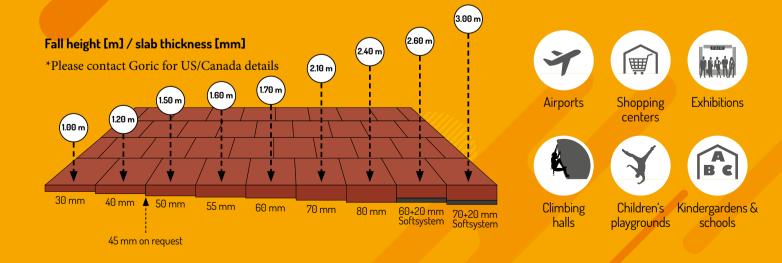
EUROFLEX® Visual System (indoor)

Impact protection slabs with printed surface



- Tested Quality (ISO 9001 certified, Compliance with impact protection standards EN 1177:2018)
- Easy cleaning due to a seamless surface
- High elasticity & walking comfort for cushioning shocks and falls
- Impact sound insulation for a calm room ambience
- High anti-slip properties R10 due to surface covering







Impact sound improvement: 20 dB

EUROFLEX® Visual System comfort (indoor)

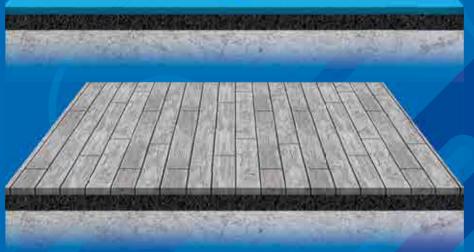
Elastic layer with printed surface



surface covering with individual motif (2.9 mm)

- adhesive
- elastic layer (4 mm)
- adhesive concrete base







Visual System comfort - Sound reduction & walking comfort

EUROFLEX® Visual System comfort is used wherever there is no statutory impact protection requirement. EUROFLEX® Visual System comfort allows you to design and print your surface to pixel accuracy - in virtually any shape and size - just like the version with impact protection tiles.





Airports

centers

Exhibitions

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FAQs for Visual System & Visual System comfort

What material is the printed surface layer made of?

The surface layer is a 2.9 mm thick vinyl covering. It is standardly divided into 2.0/3.0 m wide strips (max. 4 m possible). The surface layer is **sealed ex factory**.

Which motifs can be printed?

In principle, any motif can be printed on the vinyl surface layer. However, a high resolution of the motif is required. Mobile phone shots or shots with cameras are usually not sufficient. Especially for larger areas, professionally created textures or vector graphics are recommended, which can be scaled to any size without loss of quality. We have numerous motif suggestions available. You can also select motifs from an image database. We will be happy to send you detailed print data requirements upon request.

What is the slip resistance of the surrface?

The floor has achieved an excellent slip resistance value of R10 (tested according to DIN51130 with BGR181).

Is it possible to install Visual System in an outdoor area? Usage in outdoor areas is not possible.

You can find a detailed installation instruction here: www.kraiburg-relastec.com/euroflex/en/downloads



Visual System



Which impact protection slabs are suitable as substrate for the Visual System?

All impact protection slabs of 30-80 mm can be used depending on the required fall height. The only difference is that the edges of the impact protection slabs are not chamfered when used under a printed surface. This makes it easier to create a completely smooth, jointless surface. The colour of the slabs does not matter as the surface is 100% opaque.

Which fire protection class is achieved?

The system has achieved the best fire classification (B $_{\rm fl}\mbox{-s1}$) for impact protection systems.

Which fall height is achieved?

Depending on the thickness of the slab, the Visual System can achieve fall heights of up to 3.0 m.

Visual System comfort



What material is the elastic layer made of?

The elastic layer is 4mm thick and consists of high-quality recycled rubber granulate. Due to the excellent material properties of this material, a impact sound improvement of 20 dB according to ISO 10140 is achieved for the entire system. In addition, the elastic layer ensures pleasant walking comfort. The elastic layer is delivered with the separate printed surface and has to be bonded together on site.

Which fire protection class is achieved?

The system has achieved the best fire classification ($C_{\rm f}$ -s1) for acoustic insulation systems.

Which impact sound improvement value is achieved? 20dB (according to ISO 10140) are achieved.



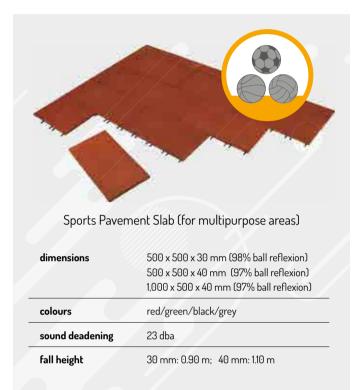


For recreational and sports facilities

Safety is of utmost importance in recreational activities and sports. Modern surfacing systems for multipurpose sports facilities provide essential cushioning protection for players' joints and ligaments. They also provide other benefits: they can be played on under almost all weather conditions and reduce noise levels.

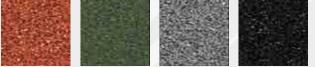
EUROFLEX® Sports Pavement Slabs

EUROFLEX® sports pavement slabs are highly compacted in manufacturing, giving them excellent abrasion resistance and outstanding ball rebound properties in accordance with DIN 18032 Part 2. Their high elasticity provides cushioning for players' ligaments and joints.



Also ideal for mobile applications!





EUROFLEX® Elastic Pavement Blocks & Paving Block Tiles

These products offer the familiar appearance of paving stones, but unlike concrete they are elastic and non-slip. Furthermore, they dry faster after rain. They are the ideal floor coverings for **footpaths in rehabilitation centres, day-care centres, retirement homes, hospitals, outdoor fitness parks and golf courses**.

	Elastic Pavement Blocks	
dimensions	full blocks: 200 x 165 x 43 mm half blocks: 100 x 165 x 43 mm starter: 200 x 140 x 43 mm	
need/m²	35 pcs.	
colours	red/green/black	
fall height	1.00 m	
dimensions	Paving Block Tile	
colours	red/green/black/grey	
fall height	1.10 m	



Playground accessories



Make every playground an experience!

Whether in schools and kindergartens, amusement parks, sports facilities or playgrounds: EUROFLEX® accessories turn every play area into an experience. They offer children space for creativity and imagination and provide a wide range of play and movement options. These accessories are not only enhancing your play space with individual and colourful design options but also compliment the EUROFLEX® impact protection slabs. Rubber as a material ensures a pleasant seat, dries quickly, is weather-resistant and soft.



Tested quality tested according to EN 71/3, tested safety according to the German Equipment Safety Act, fire test, special abrasion tests



Environmentally friendly production high recycling rate



High resistance against frost and weathering



Clear, natural design Attractive, simple, stable shapes



High-quality raw materials High-quality granulates and binding agents



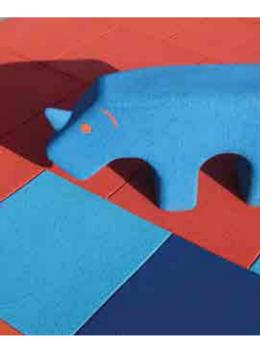
High elasticity minimizes the risk of injury during balancing and climbing on playground accessories



High slip resistance for balancing on balls, half balls, dice and on steppers

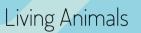


Many design options numerous standard and EPDM colors, multicolor, motifs, letters, numbers





EUROFLEX®

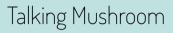


- Power is created by the user
- No exterior power supply needed
- Adjustable sound volume
- Digital audio quality
- USB storage for MP3 audio files inside (delivery contains USB stick with animal sounds and stories in German and English language)

.mp3 sound files available on request

dimensions L x W x H	elephant: 560 x 190 x 395 mm rhinocerus: 700 x 250 x 400 mm dromedary: 750 x 200 x 510 mm (dimensions with crank: + 143 mm length)
colours	elephant: red RAL 3017 rhinocerus: blue RAL 5015 dromedary: yellow RAL 1012
accessories	per animal 2 ground anchors with adapter (including screw-in bar and adhesive) or 1 base plate has to be ordered separately





- Power is created by the user
- No power supply needed
- Adjustable sound volume
- Digital audio quality
- USB storage for MP3 audio files inside (delivery contains USB stick with animal sounds and stories in German and English language)
- adjustable playback times

.mp3 sound files available on request

dimensions

stam: Ø 255 mm, height: 400 mm cap: Ø 500 mm, height: 250 mm

colours

stam: red **cap**: EPDM RAL 5015 blue with dots in RAL 1012 orange



I CAN TELL A STORY!

The interactive playground equipment fulfils the "two senses principle" according to DIN 18034:2019-12 and in this way contributes to barrier-free playgrounds.



EUROFLEX®



Game Floor

Energy is created with the crank on the half ball which generates a light effect in different colours on the elastic slabs (4 or 8 slabs possible). The children have to jump on the tiles and kick the current colour (an integrated speaker in the half ball is telling the colour). When the player kicks the illuminating tile, another one will illuminate and so on. The software will adapt the speed to the skill of the player.

dimensions

energy element: Ø 500 mm, height: 250 mm **slabs**: 500 x 500 x 30 mm

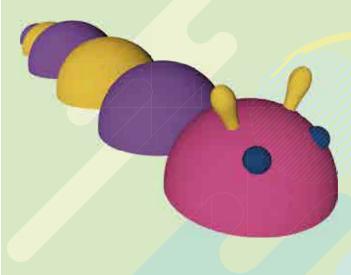
colours

energy element: bright red EPDM RAL 3017 slabs: blue EPDM RAL 5015









Dimensions

half ball with Ø 695 mm

Colours

half ball: EPDM colours: see page 3 feeler: EPDM bright green RAL 6017 or EPDM bright yellow RAL 1012 eyes: EPDM dark blue RAL 5010 or EPDM bright red RAL 3017



Caterpillar Head

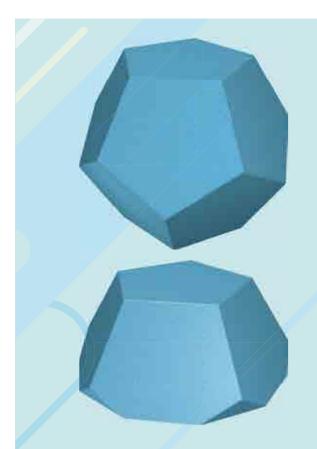
The EUROFLEX® caterpillar head is a design element that can be used to combine half balls and balls to form a caterpillar. This element in combination with EUROFLEX® half balls and balls offer children seating accommodations and play opportunities. It can be extended by any number and size of EUROFLEX® balls or half balls. The eyes are already glued on, the feelers must be glued on after delivery. The caterpillar adds a friendly face to every playground.



Half Heart

The EUROFLEX® half heart design element can be used individually as a composite seating element or as a decorative design element in pedestrian zones, shopping centres or parks. Ground anchor holes are provided on the side or on the bottom for safe installation vertically or horizontally.





Diamond

EUROFLEX® diamond is a design element that can be used as a seat, balancing element or demarcation element. It provides another geometric design feature that compliments the EURO-FLEX® cubes, balls and half balls.

Dimension<mark>s</mark>

Full diamond length x width x height: 500 x 500 x 450 mm Half diamond length x width x height: 500 x 500 x 225 mm

Colours

red/green/black/grey EPDM colours; see page 3 availavle as EPDM glitter version on request





EUROFLEX® animals and mushrooms

Imaginative play equipment or exciting seating options. They can be used for more than just play things but can be used also as little islands in playgrounds and kindergardens.



elephant, pony, dromedary, rhinocerus

dimensions L x W x H	elephant: 560 x 190 x 395 mm rhinocerus: 700 x 250 x 400 mm dromedary: 750 x 200 x 510 mm pony: 580 x 200 x 470 mm base plate: ø 700 mm
colours	EPDM: see page 3
accessories	to be ordered separately: outdoor areas : per animal 2 ground an- chors with adapter (including screw-in bar and adhesive) indoor areas : 1 base plate (including adhesive)





mushrooms

Ø stam	255 mm
height stam	200 / 300 / 400 / 500 mm
colour stam	red
Ø cap	450 mm
height cap	150 mm
colours cap	EPDM red, green, yellow, blue
accessories	to be ordered separately: per mushroom 1 ground anchor with adapter (including adhesive)









EUROFLEX® Balls & Half Balls

EUROFLEX® Balls and Half Balls are highly successful design components for distinctively remarkable playgrounds. They are suitable for playgrounds, as well as seating or border elements in pedestrian areas. They are also perfect as climbing and balancing elements.



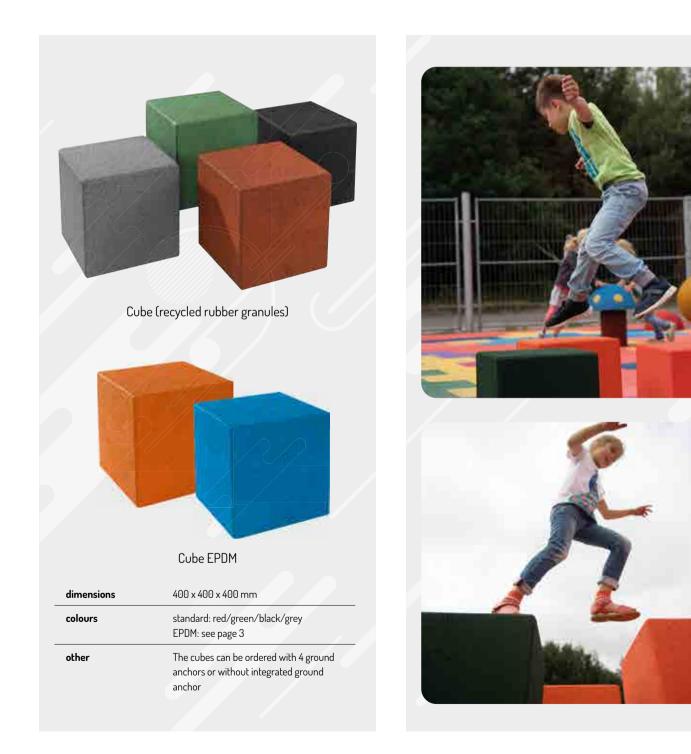






EUROFLEX® Cubes

EUROFLEX® cubes are highly successful design components for distinctively noticeable playgrounds. They are suitable for playgrounds, as well as seating or border elements in pedestrian areas. They are also perfect as climbing and balancing elements.









EUROFLEX® Modular Sandbox Edging & Stepper

Playing in a sandbox is one of children's favourite activities. The EUROFLEX® modular sandbox edging is the ideal supplement for separating the sandbox from the remainder of the playground. The soft rubber surface offers active all-round protection and protects children from painful and serious injuries (opposed to slippery and hard wooden or concrete sandbox edges). The use of separate retaining wall elements allows for a high degree of / design freedom regarding the shape and access for sand replacement machinery.

Steppers are balancing elements with 4 different heights for fitness and play areas. They promote balance and co-ordination skills in a playful way. The easy-to-install base socket provides stable support and facilitates installation and removal.







Safety all over - even in the smallest details!

Although the playing surface is the obvious center of attention in playgrounds, sports and recreational facilities, it is not the only area where impact protection makes a difference. Edge and corner profiles are ideal to avoid trip hazards. Other borders can be used to define lawn areas or to cover hard concrete edges. Border elements can also be combined with balancing elements.













EUROFLEX® Step Blocks

- edging of jumping pits and playgrounds
- · boards and peripheral enclosures around sports surfaces
- stairways, e.g. for downhill slopes or slides
- spectator standing or seating areas
- customized seating arrangements



dimensions

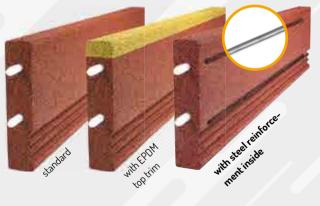
1,000 x 300 x 150 mm 1,021 / 785 x 300 x 150 mm (1/8 circular arc section r=1 m) 1,000 x 240 x 120 mm

colours

standard: red/green/black/grey EPDM: see page 3

EUROFLEX® Lawn Edging

Ideal bordering for impact protection slabs, sandboxes, walkways or edge trim for trees and bushes.



dimensions

1,000 x 250 x 50

colours

red/green/black/grey also available with EPDM top trim (see page 3)

EUROFLEX® Protective Edging

Ideal for covering trampoline springs and frames. It provides effective protection against injuries that could be caused by impact on unprotected trampoline edges.



dimensions

1,000 x 250 x 50 mm

colours

standard: red/green/black/grey EPDM: see page 3

EUROFLEX® Edge Protectors & Perimeter Panels

EUROFLEX[®] edge protectors provide reliable covering of all types of concrete edges, minimizing danger of injury in schoolyards, playgrounds and daycare centres.

With our EUROFLEX® perimeter panels, functional concrete areas can be covered





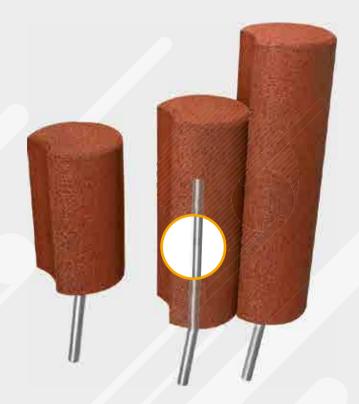




EUROFLEX® Rubber Palisade

- edging for trees, shrubbery and flower beds
- support for slopes and embankments
- stairways, e.g. for downhill slopes or slides
- balancing walkways

dimensions	total height = 650 mm
	(rubber part 400 mm + steel anchor 250 mm)
	total height = 850 mm
	(rubber part 600 mm + steel anchor 250 mm)
	total height = 1050 mm
	(rubber part 800 mm + steel anchor 250 mm)
colours	red/green/black/grey
quantity required	5 pcs./linear meter



The steel anchor extends 2/3 into the rubber palisade. This ensures extremely high stability.



We turn waste rubber materials into new raw materials and products, making a valuable contribution to waste reduction and the protection of the environment.

We invest in innovative and environmentally friendly production methods and technologies.

Our products are subject to continuous quality testing and further development, whereby environmental concerns are given priority. We are always on the lookout for even more environmentally friendly alternatives that enable us to further reduce emissions and protect resources.

All employees of KRAIBURG Relastec undertake to implement sustainable practices in their daily work and to protect the environment wherever they can.

We expect the same from our suppliers and constantly monitor their performance.

Environmental management at KRAIBURG Relastec

KRAIBURG Relastec is one of the best known global companies that specialise in the production of technical rubber materials from old tyres. As a recycling specialist, we have for many years been committed to the protection of the environment. Every year, we process and recycle about 85,000 tons of old tyres, closed-cell rubber and rubber production scrap. From these raw materials, we produce high-quality granules based on our internally developed formulations. These granules make up more than 90 % of the material used in our finished products. All our products are 100 % recyclable without loss of quality. KRAIBURG Relastec also makes a positive contribution to reducing CO2 emissions - in Germany alone, 400,000 tonnes of CO₂ can be saved annually by using used tyre granulates instead of new rubber materials.

At KRAIBURG Relastec, protecting the environment is a strategic priority. We are convinced that sustainable growth is only achievable, if we meet our responsibilities towards the environment. KRAIBURG Relastec has therefore adopted a very simple policy: Protecting the environment is part and parcel of what we do every day!

Our "pro environment" logo stands not only for 40 years of sustainable business practices that protect resources, but emphasises our commitment to product quality and continuous improvement for the protection of the environment beyond the statutory regulations.





Production loading address

KRAIBURG Relastec GmbH & Co. KG Fuchsberger Straße 4 D-29410 Salzwedel

Sales office & marketing

KRAIBURG Relastec GmbH & Co. KG Kehlsteinstraße 2 D-84529 Tittmoning





IMPACT PROTECTION & PLAYGROUND ACCESSORIES FOR PLAYGROUNDS AND MULTIPURPOSE SPORTS FACILITIES made from rubber granules

North American Distributor:

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