

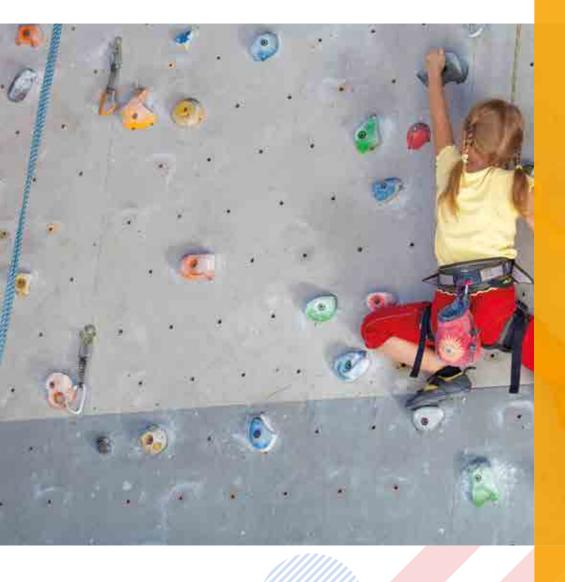


IMPACT PROTECTION SLABS & ACCESSORIES for Playgrounds and Multipurpose Sports Facilities









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



Outstanding durability

frost-proof and rot-proof



Environment-friendly manufacturing process

high recycling rate



High elasticity

for cushioning shocks / falls and for a pleasant walking sensation



Integrated connector pins

secure slabs against accidental displacement and theft; time-saving installation



Impact sound insulation

for a quiet environment



High anti-slip properties

due to granular structure; Water permeability prevents puddling



Complete traceability

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



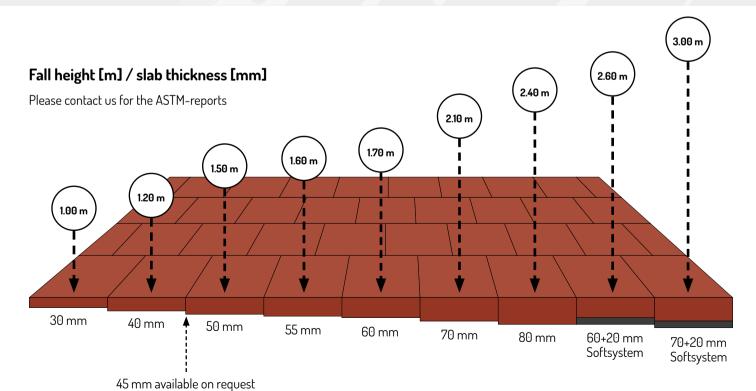
Great freedom for design

numerous standard and EPDM colours, multicolor, motifs, letters, numbers



Wide range of peripheral accessories

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





Highest safety performance since more than 40 years!

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.







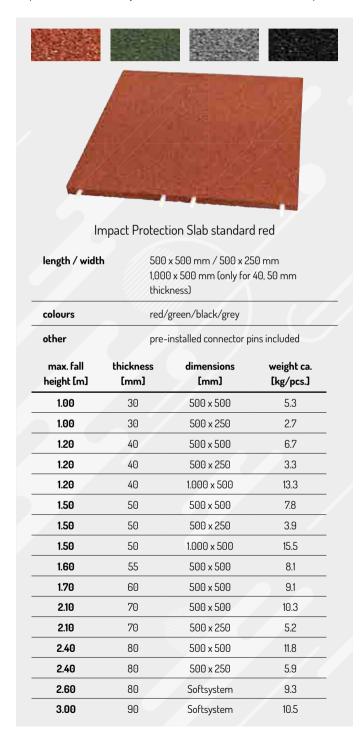


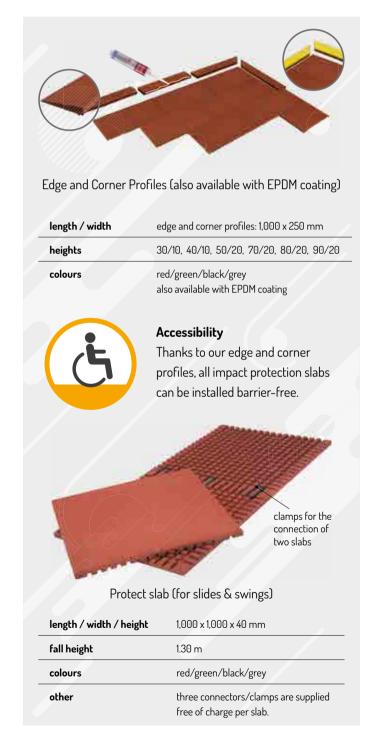




EUROFLEX® Impact Protection Slabs & edge and corner profiles made of recycled rubber granules

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.











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.











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.**



Impact Protection Slab EPDM



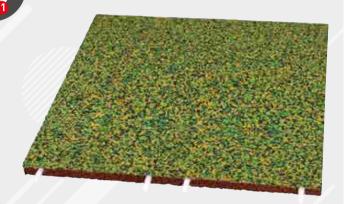
Impact Protection Slab EPDM Mulch - with mulch structure



beige-brown



light green - dark green



Impact Protection Slab EPDM Multicolor - up to three individual colours



example 3 colours



example 2 colours

Mix your own color!

kraiburg-relastec.com/euroflex/en/color-mixer

max. fall height [m]	thickness [mm]	dimensions [mm]
1.00	30	500 x 500
1.20	40	500 x 500
1.40	50	500 x 500
1.60	55	500 x 500
2.10	70	500 x 500
2.40	80	500 x 500
3.00	90	Softsystem

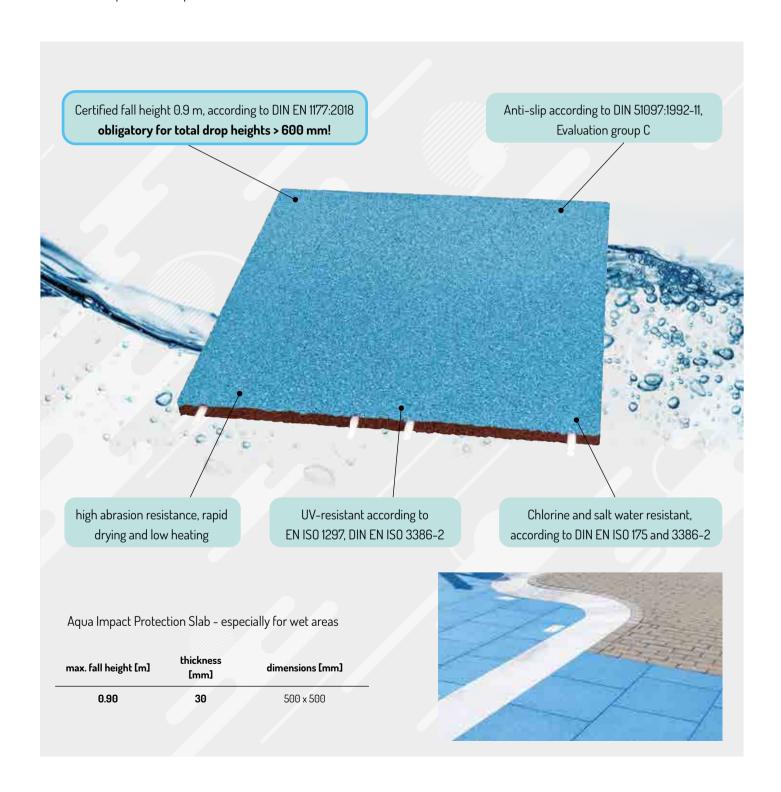






EUROFLEX® Aqua Impact Protection Slabs

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 1777, 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).



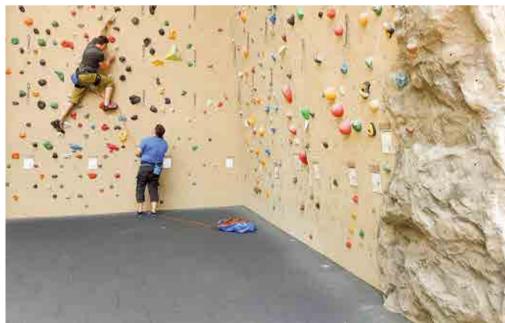


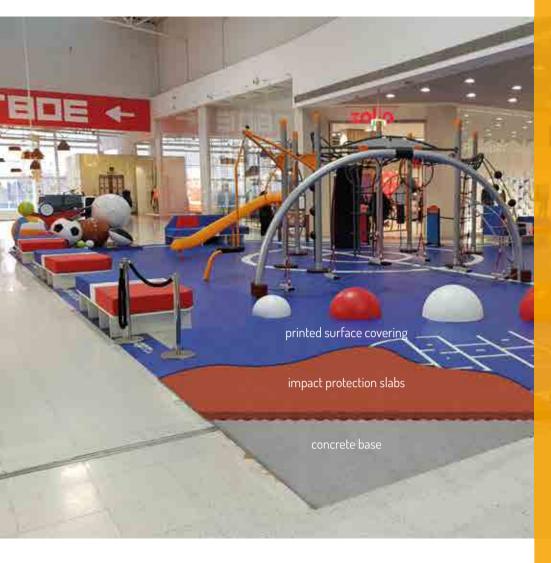












The best of both worlds

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!



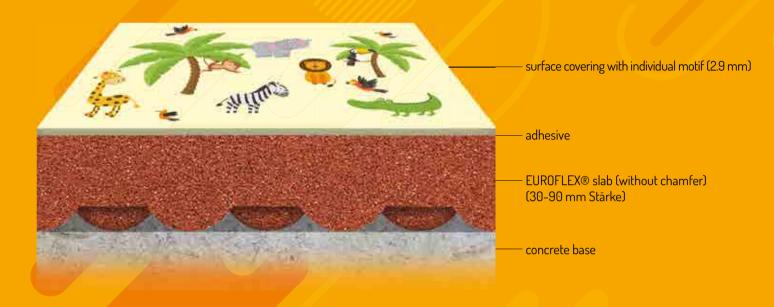
More information in our Indoor brochure





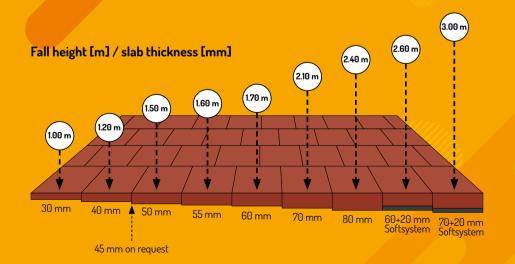
EUROFLEX® Visual System (indoor)

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







Airports



Shopping centers



opping Exhibitions



Climbing halls



Children's playgrounds



Iren's Kindergardens & counds schools



EUROFLEX® Visual System comfort (indoor)

Elastic layer with printed surface



surface covering with individual motif (2.9 mm)

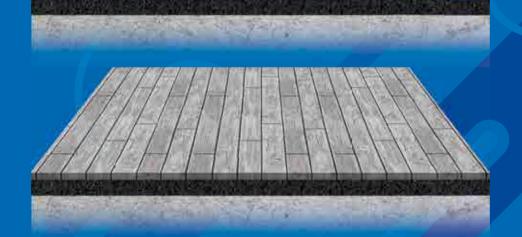
adhesive

elastic layer (4 mm)

adhesive

concrete base







Fire resistance

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



Shopping centers



Exhibitions

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 ($B_{\rm fl}$ -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?

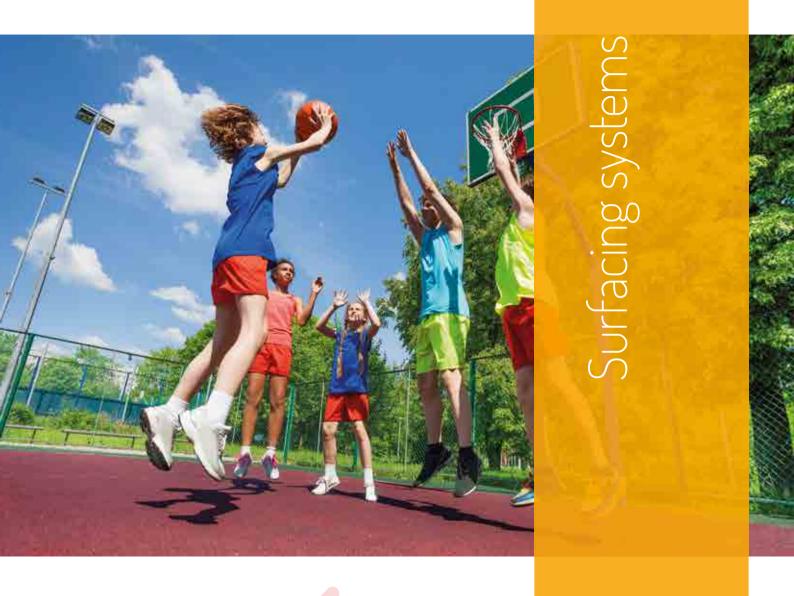
The elastic layer is 4mm thick and consists of high-quality recycled rubber granulate. Due to the excellent material properties of this material, a impact sound improvement of 20 dB according to ISO 10140 is achieved for the entire system. In addition, the elastic layer ensures pleasant walking comfort. 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 ($C_{\rm fl}$ -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.



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.





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



High resistance

against frost and weathering



Environmentally friendly production

high recycling rate



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



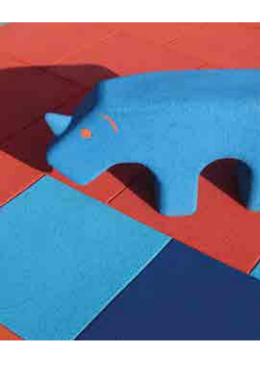
High slip resistance

for balancing on balls, half balls, dice and on steppers



Many design options

numerous standard and EPDM colors, multicolor, motifs, letters, numbers











Living Animals

- 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

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



EUROFLEX® INTERACTIVE GAMES



Talking Mushroom

- 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



EURCELEX® INTERACTIVE GAMES

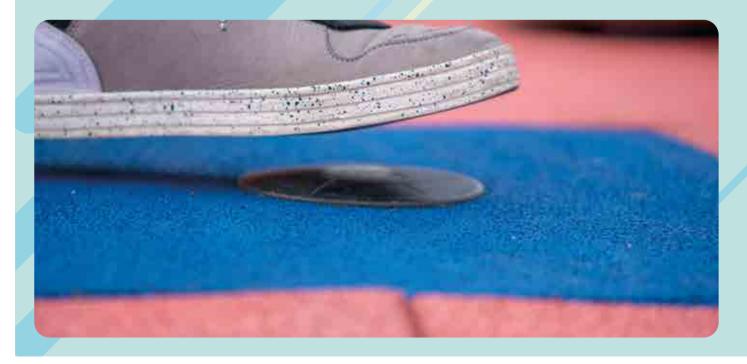


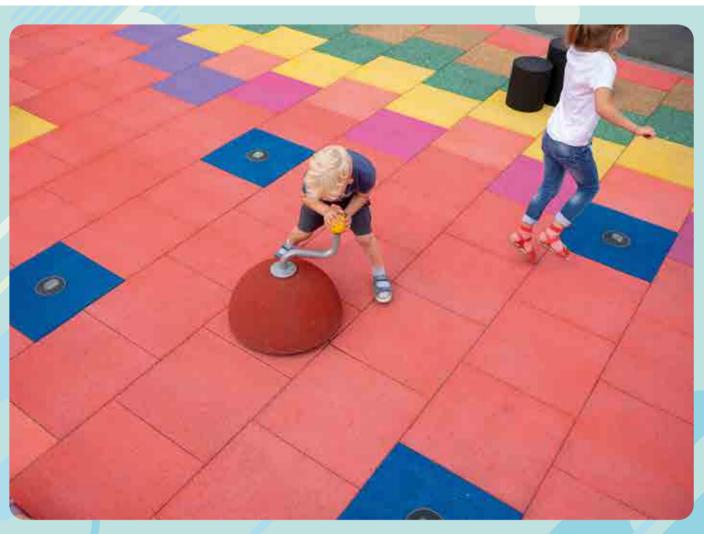
Game Floor

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









euroflex.

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 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



Half Heart

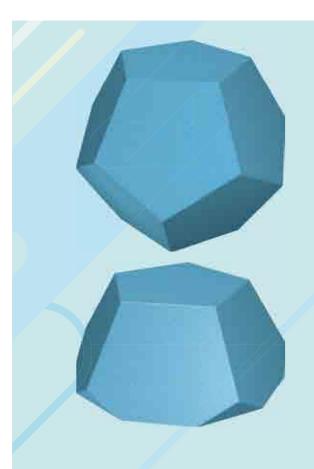
The EUROFLEX® half heart design element can be used individually as a composite seating element or as a decorative design element in pedestrian zones, shopping centres or parks. Ground anchor holes are provided on the side or on the bottom for safe installation vertically or horizontally.

Dimensions L x B x H: 850 x 451 x 180 mm

Ground anchor for vertical installation: 2x Ø 31.8 mm, length ca. 750 mm Ground anchor for horizontal installation: 2x Ø 31.8 mm, length ca. 300 mm

Colours EPDM colours: see page 3





Diamond

Colours

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 EUROFLEX® cubes, balls and half balls.

DimensionsFull diamond length x width x height: 500 x 500 x 450 mm

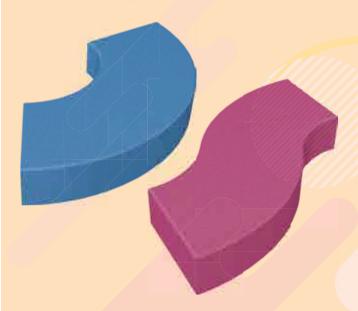
Half diamond length x width x height: 500 x 500 x 225 mm

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red/green/black/grey
EPDM colours; see page 3

availavle as EPDM glitter version on request





EUROFLEX® S-Block and C-Block

EUROFLEX® S-Block and C-Block are incredibly flexible design elements that can be used as a seat, balancing element or demarcation element. They can be put on top of each other to create cool geometric shapes that children will love.

Dimensions

S-Block length x width x height:

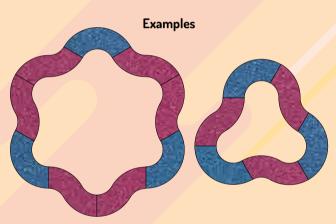
805 x 788 x 150 mm

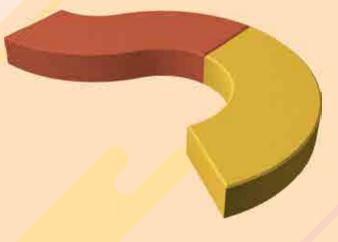
C-Block length x width x height: 630 x 945 x 150 mm

detailed dimensions in our data sheet

Colours

red/green/black/grey EPDM colours; see page 3







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.











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.







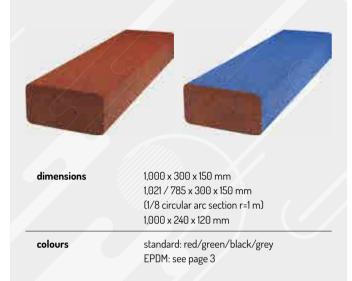






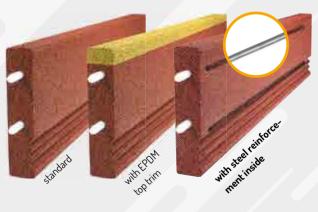
EUROFLEX® Step Blocks

- 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



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.



EPDM: see page 3

colours standard: red/green/black/grey

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



colours

red/green/black/grey







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

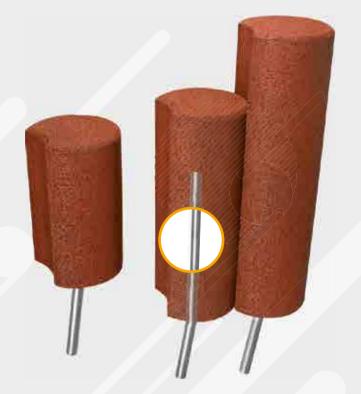
(rubber part 800 mm + steel anchor 250 mm)

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.





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 CO_2 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

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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

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