



IMPACT PROTECTION SLABS & ACCESSORIES for Playgrounds and Multipurpose Sports Facilities

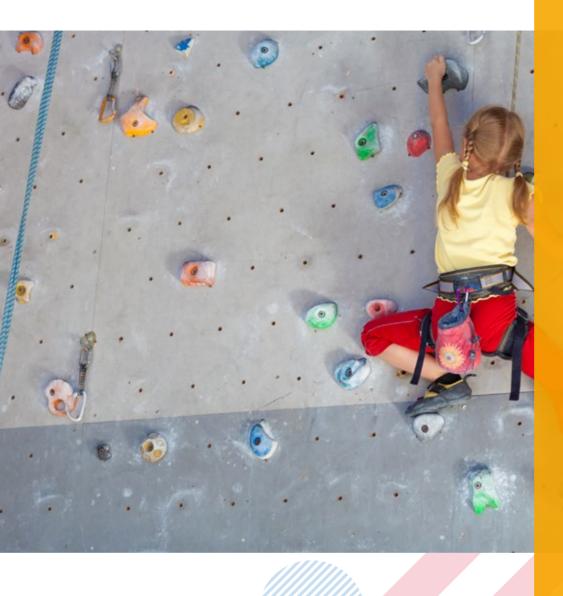












Fall heights & advantages



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 stickers with production codes on every single slab



Great freedom for design

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



Wide range of peripheral accessories

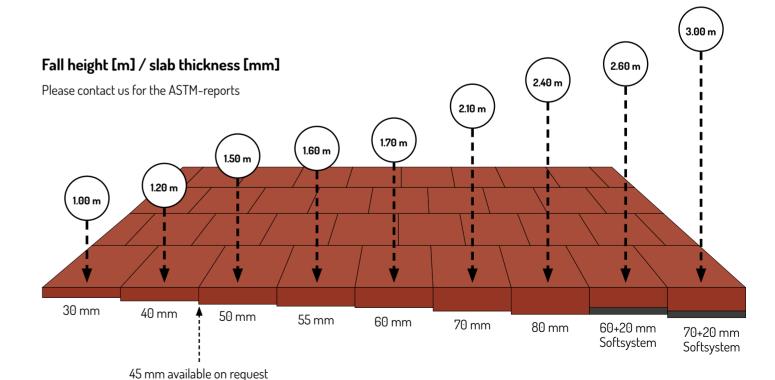
balls, half balls, cubes, diamonds, stepper, mushrooms, animals

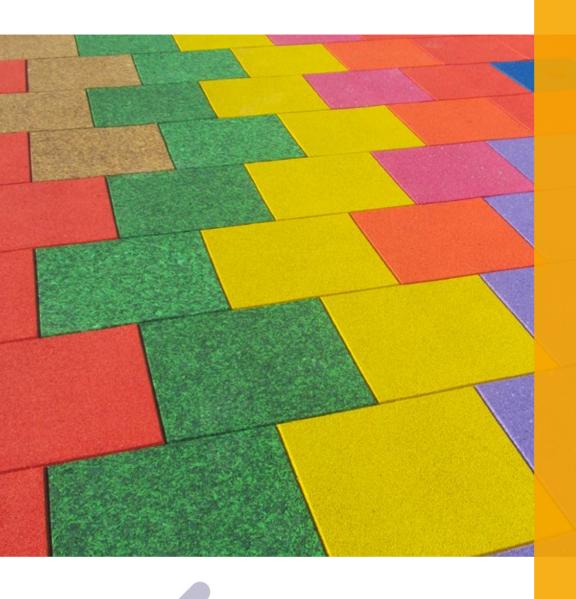


Tested quality - that is our promise!

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.

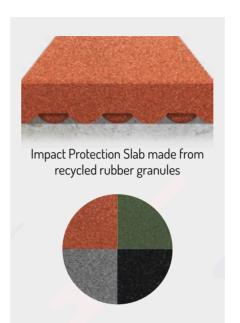




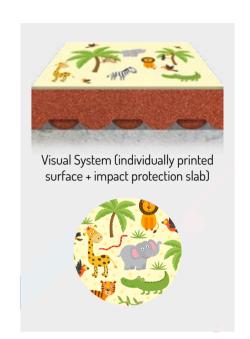
Impact protection slabs

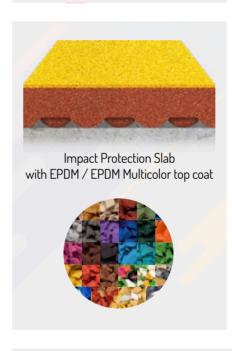


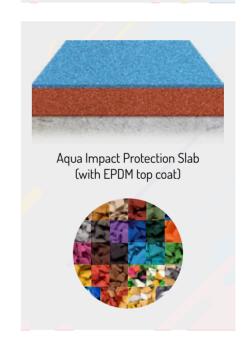
EUROFLEX® impact protection solutions at a glance

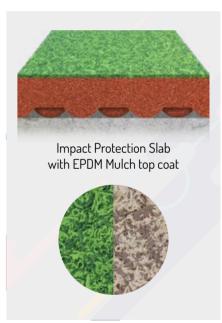




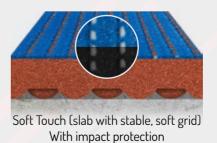












Soft Grip (slab with rough grid)

Without impact protection



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.

Highest safety performance since more than 40 years!





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

gth / width 500 x 50

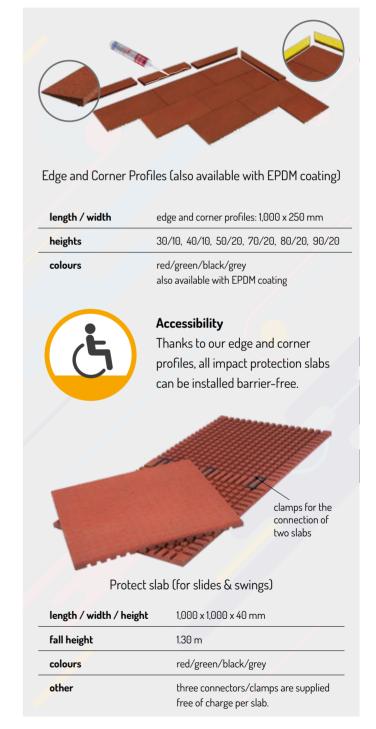
500 x 500 mm / 500 x 250 mm 1,000 x 500 mm (only for 40, 50 mm

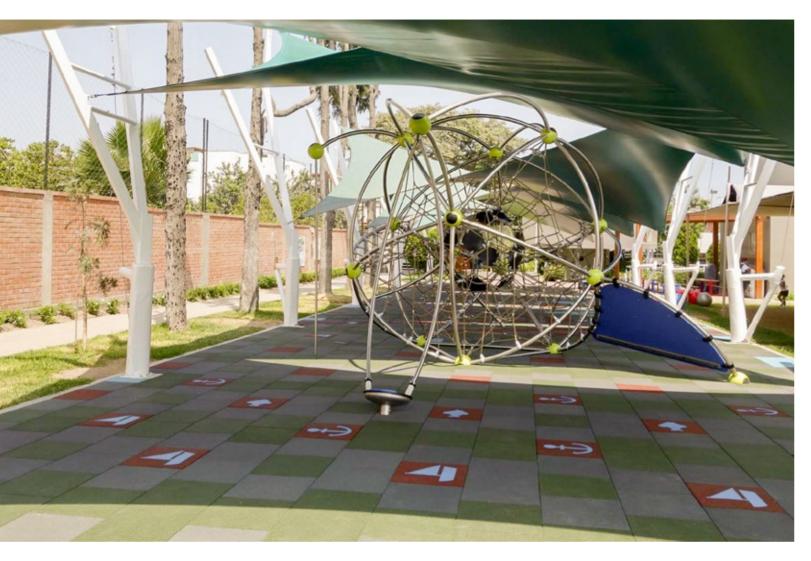
thickness)

colours red/green/black/grey

other 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



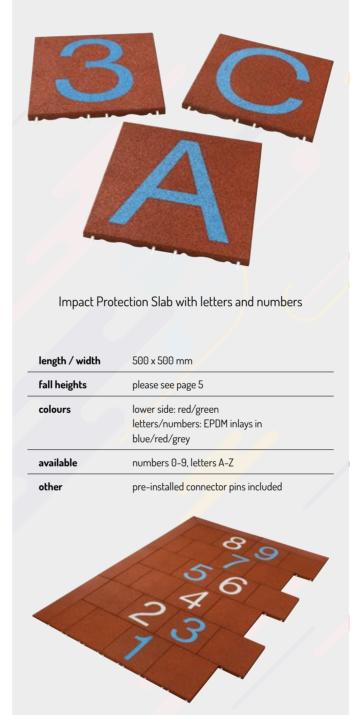


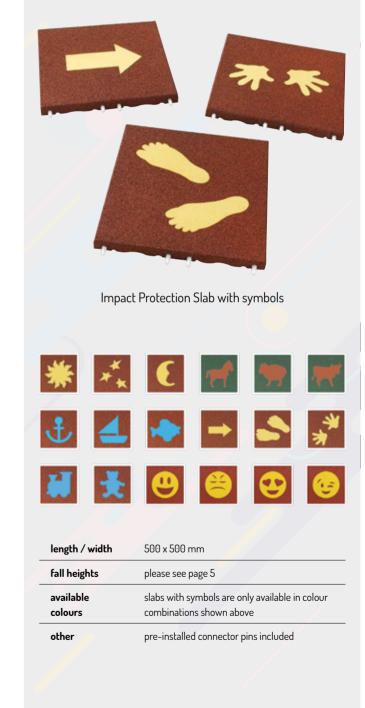




EUROFLEX® Impact Protection Slabs with letters, numbers and symbols

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.



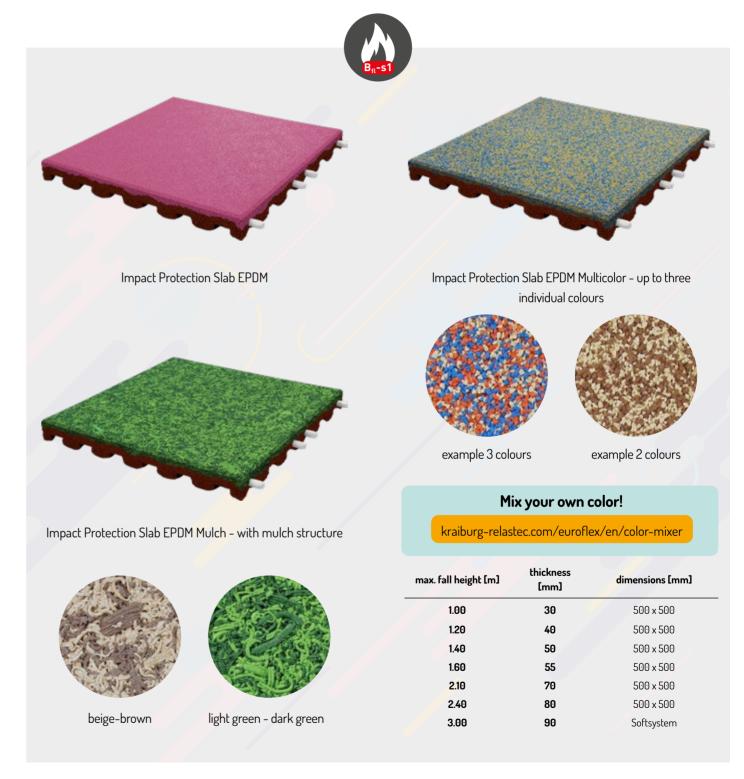


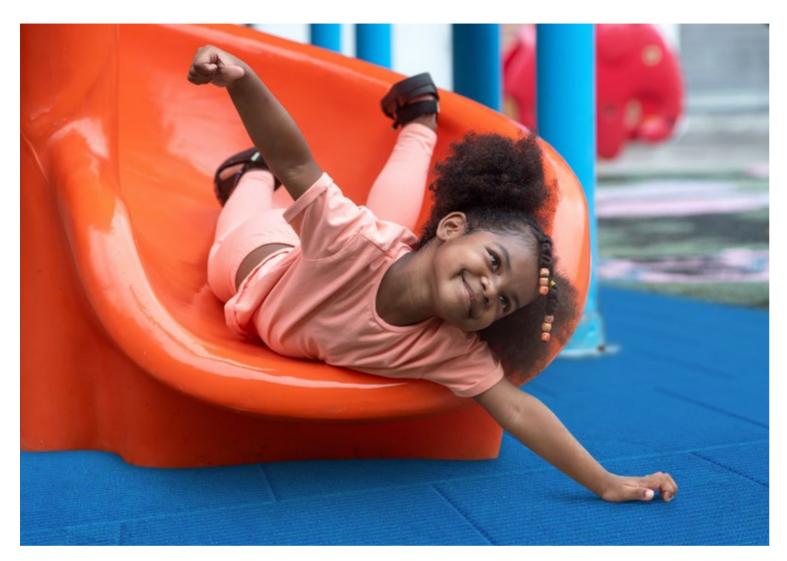




EUROFLEX® Impact Protection Slabs EPDM, Multicolor, Mulch

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.**

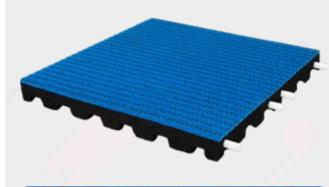


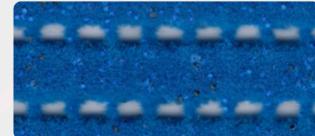


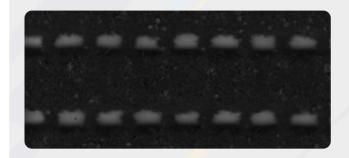


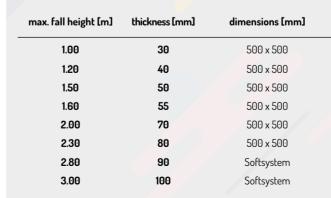
EUROFLEX® Soft Touch

With EUROFLEX® Soft Touch, a stable, close-meshed grid is pressed into our tried-and-tested impact protection slab made of recycled rubber granulate, which has a smooth, soft surface. Typical areas of use are highly stressed, abrasion-sensitive areas on playgrounds, such as slide runs, swings or roundabouts. The board is also ideal for outdoor fitness, calisthenics or parkour.



















playgrounds

calisthenics par

parkour swimming pools



EUROFLEX® Xtreme brochure

Do you need more information about

Soft Touch and Soft Grip? Please

download our brochure.



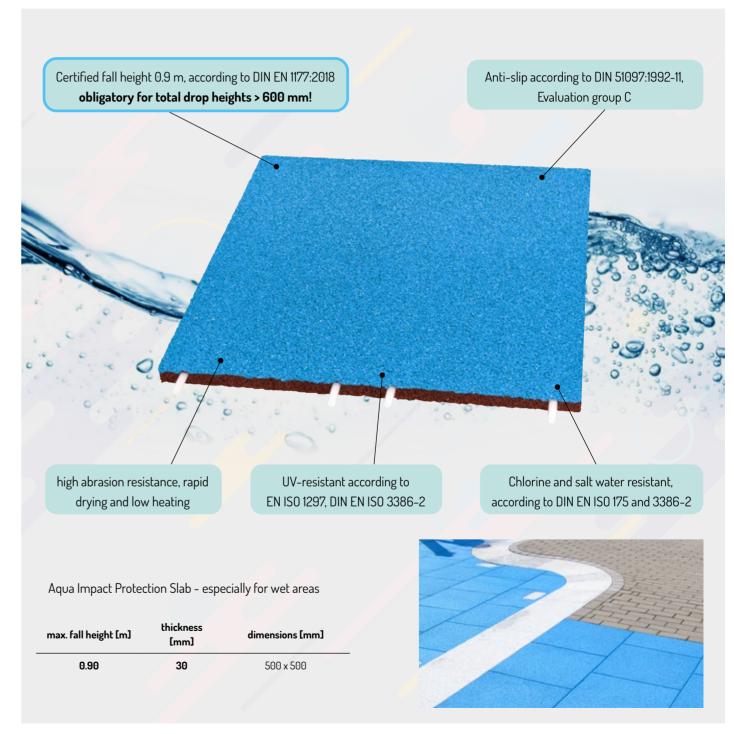






EUROFLEX® Aqua Impact Protection Slabs

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 Visual System brochure





EUROFLEX® Visual System (in-/outdoor)

Printed surface with impact protection slabs



• Tested Quality (ISO 9001 certified, Compliance with impact protection standards EN 1177:2018)

55 mm 60 mm

(2.10 m)

70 mm 80 mm

• Easy cleaning due to a seamless surface

Fall height [m] / slab thickness [mm]

45 mm available on request

- 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







Easy cleaning



connector pins



B_o-s1





Shopping centers

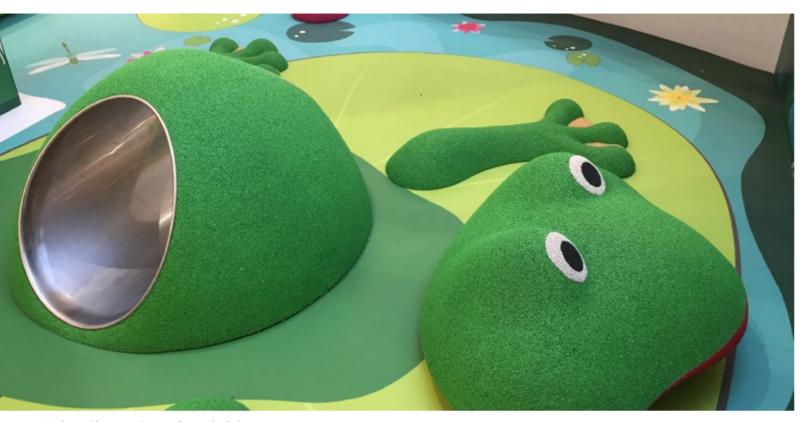


Climbing





playgrounds



Woluwe Shopping Center, Brussels, Belgium (concept and realisation by Pro Urba)



Centre Manor Chavannes, Geneva, Switzerland (concept and realisation by Pro Urba)



StadtPalais Stuttgart, Germany



Lessingschule Salzwedel, Germany

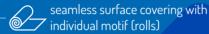
Fairytale Park Salzwedel, Germany



EUROFLEX® Visual System comfort (indoor)

Printed surface with elastic layer





✓ adhesive



elastic layer (4 mm) (rolls)

— adhesive — concrete base







Impact sound improvement (-20 dB)

Easy cleaning





High anti-slip properties (R10)

fire protection class C_n -s1

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.



Exhibitions

FAQs for Visual System & Visual System comfort



What does ..closed surface" mean?

The vinyl flooring is glued to the panel surface as rolled goods. This means that the tiles are not visible and the end result is a uniform and closed surface. The dimensions of the vinyl floor are perfectly adapted to the dimensions of the project, so that a minimum of joints is made possible.

What material is the printed surface covering made of?

The surface covering is a 2.9 mm thick vinyl floor. It is antistatic. It is standardly divided into 2.0/3.0 m wide strips (max. 4 m possible).

The surface is sealed ex factory which enables easy cleaning.

The product Visual System comfort consisting of an elastic layer and vinyl surface covering is offered and supplied as a complete system by KRAIBURG Relastec.

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 DIN EN 16165).

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.

Where can the Visual System be used?

Indoor and outdoor use is possible.

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.







Surfacing system:

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. The product is tested according to DIN EN 14877:2013 (European standard for plastic surfaces on outdoor sports facilities).



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. The elastic plaster is tested for "high stress".



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.



Playground accessories



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

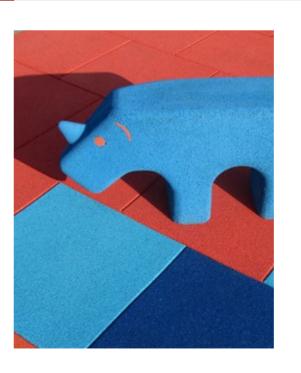
numerous standard and EPDM colors, multicolor, motifs, letters, numbers





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.





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.









balls & half balls EPDM ball EPDM multicolor (2 or 3 colours)

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.



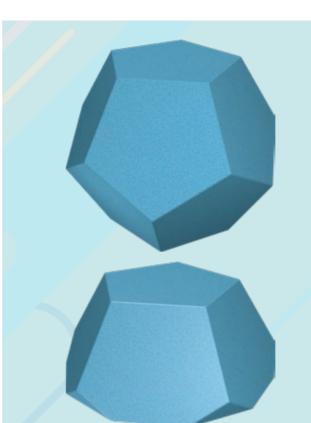
Dimensions

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





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.

Dimensions

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

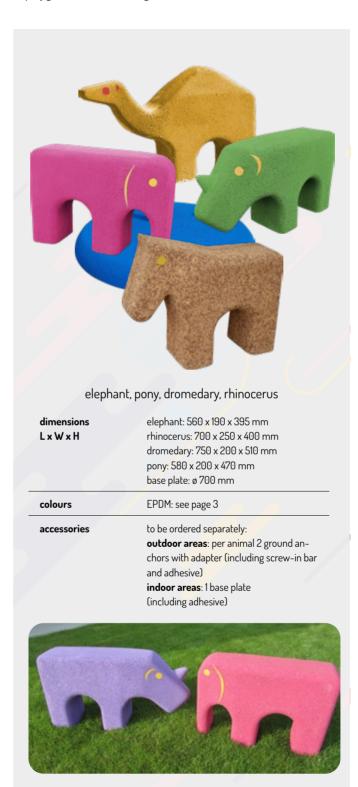
availavle as EPDM glitter version on request





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.



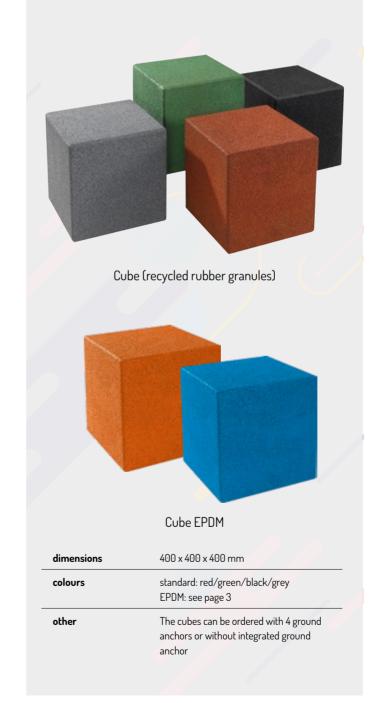






EUROFLEX® Cubes

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.







Peripheral components



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.





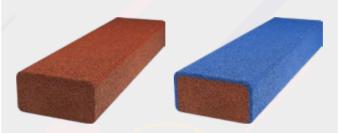






EUROFLEX® Step Blocks

- 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

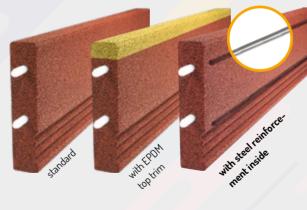
1,000 x 300 x 150 mm 1,021 / 785 x 300 x 150 mm (1/8 circular arc section r=1 m) 1,000 x 240 x 120 mm

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.



aimensio

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



dimensions

edge protector: 1,000 x 400 x 45 mm perimeter panel: 1,000 x 300 x 50 mm, leg 160

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

total height = 650 mm (rubber part 400 mm + steel anchor 250 mm) total height = 850 mm

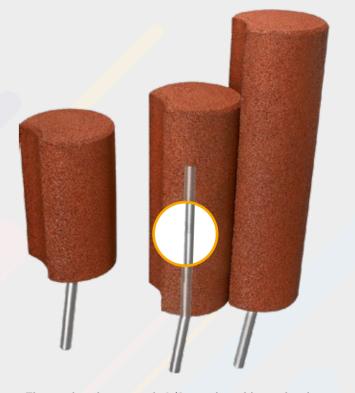
(rubber part 600 mm + steel anchor 250 mm)

total height = 1050 mm

(rubber part 800 mm + steel anchor 250 mm)

red/green/black/grey colours

quantity required 5 pcs./linear meter



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









SUSTAINABILITY

Corporate Carbon Footprint, Product Carbon Footprint, Energy Management, Social and economic sustainability at KRAIBURG Relastec



Recycling of up to 60,000 t material

Every year, we process and recycle up to 60,000 tons of old tyres, closed-cell rubber and rubber production scrap.



Reduction of CO₂ emissions

By using recycled rubber granulate, we save more than 130,000 tonnes of CO₂ emissions per year compared to virgin rubber.



Corporate Carbon Footprint

The CCF was developed in accordance with the Greenhouse Gas Protocol audited.



Coming soon: Product Carbon Footprint

The PCF is measured in accordance with ISO 14067 and ISO 14040/44 audited.



Energy management according to ISO 50001

Our energy management system is identified according to ISO 50001. Energy-relevant topics are taken into account in all processes of the organisation.



ecovadis Bronze Rating

The ecovadis rating covers numerous management systems, including environmental impact and sustainable procurement.



Member of NEW LIFE initiative

The declared aim of NEW LIFE is to demonstrate the advantages of recycled products from End-of-Life Tires (ELT) to the media, politicians and the general public and to motivate them to act sustainably. More information:

www.initiative-new-life.de/en



Social sustainability

Acting in accordance with our values such as equal opportunities, social responsibility, respectful treatment and transparency are the foundations for social sustainability in practice.



Economic sustainability

As a family business, KRAIBURG Holding pursues a long-term strategy. Profits generated are used to a significant extent to make our holistic business model ever more efficient and future-proof.



7 - 1

Equal opportunities

We stand for equal opportunity, diversity, inclusion and religious diversity.



Social responsibility

Fair pay, collective bargaining, further training, career development, work-life integration.



Respect

We are honest, reliable, respectful and trustworthy towards our colleagues and partners



CORPORATE CULTURE

Defined values, social norms and guidelines, for common action and cooperation inside and outside KRAIBURG Relastec.



Strong decision-making powers

We ensure speed in process handling, faster technology optimisations and lean processes.



Responsible for our actions

We take responsibility for all decisions and results. Erro acceptance is firmly anchored in our culture.



Transparency

We practice open, transparent cooperation both inside and outside the company.



Personal contact persons

We do not hide behind support hotlines and contact forms. With us, you have personal, competent contact persons.



Product quality

Our products meet the highest quality standards. They are durable, a perfect fit and made from high-quality raw materials.



Innovation and product design

We continuously develop new products according to the requirements of our customers and the market.

WHAT SETS US APART



Internationality

With an export quota of over 50%, we have already exported our products to over 100 countries.



Easy complaint management

Transparent and optimised processes ensure rapid processing.



Flexibility with customer requirements

We offer our partners customised options for packaging, labelling and delivery, packaging, labelling and delivery.



Long-term relationships

We maintain long-term relationships with our customers and suppliers based on mutual respect and fairness.



Marketing support

We provide you with the best possible support in the form of images or in the design of your documents.





IMPACT PROTECTION & PLAYGROUND ACCESSORIES FOR PLAYGROUNDS AND MULTIPURPOSE SPORTS FACILITIES

made from rubber granules

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