



# **IMPACT PROTECTION**

**SHOCK-ABSORBENT SURFACING SYSTEMS** for Playgrounds and Multipurpose Sports Facilities made from recycled rubber









# EUROFLEX® TESTED QUALITY — THAT IS OUR PROMISE!

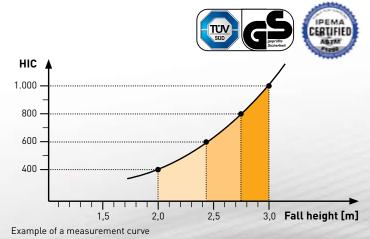
SHOCK ABSORPTION TESTING OF IMPACT PROTECTION SLABS IN ACCORDANCE WITH DIN EN 1177:2008

The use of shock-absorbent floor systems is necessitated by the requirements of DIN EN 1177:2008. 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 demonstrated by means of the **HIC method**. HIC, which stands for Head Injury Criterion, is an international parameter for the severity of head injuries. For impact protection materials on playgrounds, the maximum HIC value is 1000. This upper limit ensures that virtually no head injuries with permanent damage can be expected. It is important to remember: the lower the HIC value, the higher the protection for the child's head.



All EUROFLEX® Impact Protection Slabs are tested in accordance with DIN EN 1177:2008 to determine the HIC value. They are also tested in accordance with ASTM-F-1292:2009.

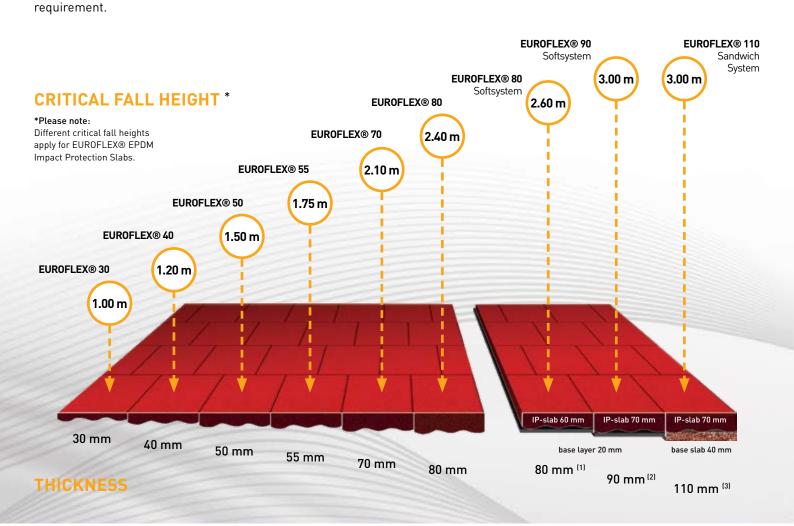


The critical fall height is determined by a test arrangement with exact specifications consisting of a series of nine fall tests, in which four increasing fall heights are examined. The critical fall height is defined as the lowest fall height that generates an HIC value of 1000.



# CRITICAL FALL HEIGHTS AND SHOCK-ABSORBENT PRODUCTS EXCELLENT PROTECTION FOR ANY FALL HEIGHT REQUIREMENT

Along with shock-absorbent surfacing systems for playgrounds, **KRAIBURG RELASTEC** offers a wide range of safe playground accessories. The products listed below provide outstanding absorption of impact shock and protect against serious head injuries. As playground equipment is available in various heights, we offer a wide range of shock-absorbent surfacing slabs for any fall height



consists of impact protection slab 500 x 500 x 60 mm and base layer 20 mm

<sup>&</sup>lt;sup>(2)</sup> consists of impact protection slab 500 x 500 x 70 mm and base layer 20 mm

consists of impact protection slab 500 x 500 x 70 mm and base slab 1.000 x 500 x 40 mm





# **EUROFLEX®** IMPACT PROTECTION SLABS

## CHOOSE MAXIMUM QUALITY AND RELIABILITY

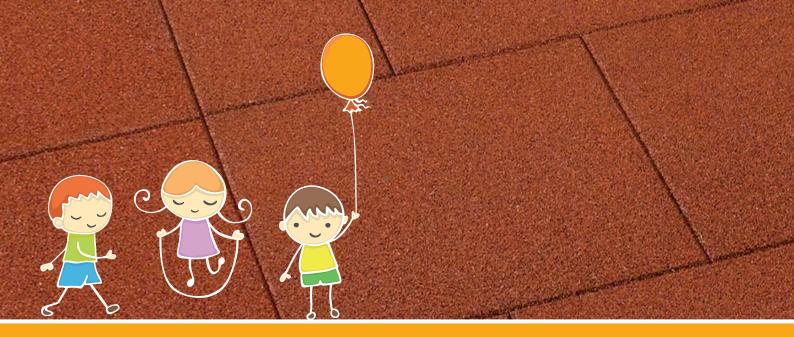
**EUROFLEX® Impact Protection Slabs** guarantee the highest safety standard on playgrounds – for the past 40 years. They allow children to romp about happily, without risk of injury. **EUROFLEX® Impact Protection Slabs** offer effective protection when children jump or fall to the ground by attenuating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

**EUROFLEX® Impact Protection Slabs** are also effective as an elastic floor covering in nursing homes and rehabilitation centres, multi-generation recreation facilities, schoolyards, under gymnastic and climbing equipment and as walkways. Our alphabet, number and theme slabs, as well our new EPDM glitter slab, are ideal for designing playgrounds in schools, kindergartens and day care facilities; they offer educational and visual enhancement for all sports and play areas and amusement parks.

## **CONVINCING ADVANTAGES:**

- Tested Quality
  - (ISO 9001 certified, with third-party QC inspection · Compliance with impact protection standards EN 1177:2008 and ASTM F 1292:2009 · Compliance with EN 71/3 Safety of Toys / Migration of Certain Elements · Compliance with national equipment safety laws · Compliance with fire and abrasion resistance standards)
- 40 years' field experience worldwide
- Environment-friendly manufacturing process
- Produced from high-quality rubber granulate and binding agents
- Highly effective, uniform cushioning protection ensures maximum safety and outstanding durability
- EUROFLEX® Impact Protection Slabs are available in various types and designs

- Complete traceability of the raw-materials through to the final product by using production codes on every single slab
- Integrated connector pins secure slabs against accidental displacement and theft
- Superb drainage capacity provided by dimple texturing on lower surface
- Highly cost-efficient due to rapid installation and permanent playability resulting from excellent water permeability
- Easy to cut and adapt e.g. to supporting feet of playground equipment
- Wide range of peripheral accessories available
- Great freedom for design



# **EUROFLEX®** IMPACT PROTECTION SLAB

# THE BEST COMBINATION OF SAFETY AND SUITABILITY FOR DAILY USE

The shock absorption of **EUROFLEX® Impact Protection Slabs** provides safety without sacrificing problem-free use and durability. Unharmed by weathering and extreme temperatures, they let children play without a care – day in and day out. **EUROFLEX® Impact Protection Slabs are TÜV approved according DIN EN 1177:2008.** 

## **Technical Data**

Material: recycled rubber granulate with polyurethane binding agent

Weight

Colours(1): red, green, black, grey

Max. Fall Thickness Dimensions

**Tolerances:** Length and width ± 0.8%, thickness ± 2 mm

# Available standard colours







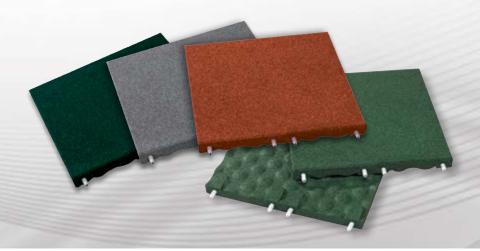


Height [m]	[mm]	[mm]	approx. [kg]/unit
1.00	30	500 x 500 <sup>(2)</sup>	5.2
1.00	30	500 x 250 <sup>(2)</sup>	2.6
1.20	40	500 x 500 <sup>(2)</sup>	6.5
1.20	40	500 x 250 <sup>(2)</sup>	3.3
1.20	40	1,000 x 500 <sup>(2)</sup>	13.0
1.50	50	500 x 500 <sup>(2)</sup>	7.5
1.50	50	500 x 250 <sup>(2)</sup>	3.8
1.50	50	1,000 x 500 <sup>(2)</sup>	15.0
1.75	55	500 x 500 <sup>(2)</sup>	8.4
1.75	55	500 x 250 <sup>(2)</sup>	4.2
2.10	70	500 x 500 <sup>(2)</sup>	10.4
2.10	70	500 x 250 <sup>(2)</sup>	5.2
2.40	80	500 x 500 <sup>(2)</sup>	12.0
2.40	80	500 x 250 <sup>(2)</sup>	6.0
3.00	110	Sandwich System	m <sup>(3)</sup> 18.2
2.60	80	Softsystem	9.5

## Quality to the core

The use of high-quality raw materials and the homogenous construction guarantees an outstanding quality.





<sup>[1]</sup> Slight material-related colour variations possible

Softsystem

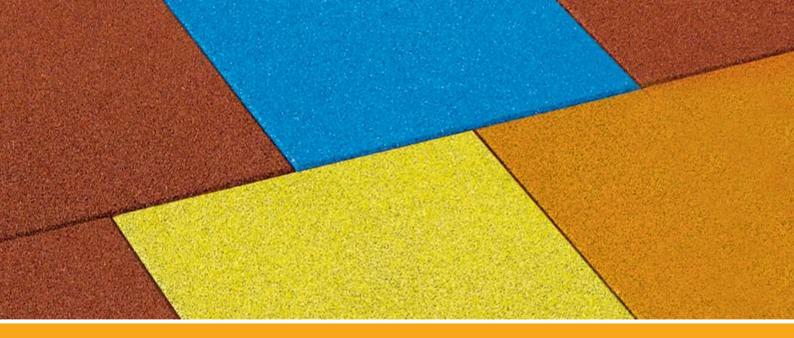
11.0

90

3.00

<sup>&</sup>lt;sup>[2]</sup> To be installed with edge and corner profiles or edge slabs and corner slabs (given on page 11 and 12)

 $<sup>^{</sup> ext{ISI}}$  Basic slabs available in 1,000 x 500 x 40 mm, top slabs available in 500 x 500 x 70 mm only



# **EUROFLEX®** EPDM IMPACT PROTECTION SLAB

## BRINGS SAFETY AND COLOUR ONTO THE PLAYGROUND

**EUROFLEX® EPDM Impact Protection Slabs** enable playground colour design without limits. They fulfill highest safety standards in accordance with EN 1177:2008 and BS 7188:1998, provide personalized colour patterns which blend in perfectly with any surroundings, showcase the playing options offered, enhance recreational value and promote childrens' creativity.

The virgin EPDM coat (formulated in-house) is available a wide range of colour options.



Max. Fall Height [m]		s Dimensions [mm]	Weight approx. [kg]/unit
0.90	30	500 x 500	6.1
1.20	40	500 x 500	7.5
1.40	50	500 x 500	8.8
1.60	55	500 x 500	9.3
2.10	70	500 x 500	11.8
2.40	80	500 x 500	12.8
3.00	110	Sandwich Syste	m <sup>(2)</sup> 19.5
2.60	80	Softsystem	10.0
3.00	90	Softsystem	12.0



special colours

<sup>[1]</sup> Slight material-related colour variations possible

Basic slabs available in 1,000 x 500 x 40 mm, top slabs available in 500 x 500 x 70 mm only Please note: The RAL colour codes given do match approximately the EPDM-colour specifications



# EUROFLEX® IMPACT PROTECTION SLAB EPDM GLITTER MAKE ANY PLAY AREA MORE ATTRACTIVE

The EUROFLEX® EPDM Glitter is the new star among impact protection slabs. The surface of our glitter mat is made of coloured EPDM that has been mixed with tiny reflecting glitter particles. The interplay with light creates an exquisite glitter effect that will be the absolute highlight of any play area. It goes without saying that such decorative details in no way affect the original function of these outstanding impact protection slabs: Protection against life-threatening injuries for unspoiled fun.

## **Technical Data**

Material base slab: recycled rubber granulate with PU binding agent

**Material Surface:** EPDM rubber granules mixed with glitter material<sup>[1]</sup> and PU binding agent

 $\textbf{Colours}^{\text{(2)}} \textbf{:} \ \text{according EPDM colour scale shown on page 7}$ 

Tolerances: Length and width ± 0.8%, thickness ± 2 mm

Max. Fall Height [m]		Dimensions [mm]	Weight approx. [kg]/unit
0.90	30	500 x 500	6.1
1.20	40	500 x 500	7.5
1.40	50	500 x 500	8.8
1.60	55	500 x 500	9.3
2.10	70	500 x 500	11.8
2.40	80	500 x 500	12.8
3.00	110	Sandwich Syster	m <sup>(3)</sup> 19.5
2.60	80	Softsystem	10.0
3.00	90	Softsystem	12.0



<sup>&</sup>lt;sup>[1]</sup> The glitter material was tested according to EN 71-3 (Classification: perfectly harmless)

<sup>[2]</sup> Slight material-related colour variations possible

Basic slabs available in 1.000 x 500 x 40 mm, top slabs available in 500 x 500 x 70 mm only



# **EUROFLEX®** LETTER & NUMBER SLABS

# SAFE AND PLAYFULLY LEARNING

The EUROFLEX® Letter and Number Slabs are ideal for designing playgrounds in schools, kindergartens and day care facilities and provide educational enhancement for all play and sports areas, as well as amusement parks.

In combination with standard and colourful impact protection slabs, these slabs can be used for numerous games involving hopping. While exercising their natural impulse to be active, children can heighten their coordination skills and reinforce their knowledge of the alphabet and numbers.

# **Technische Daten**

Impact protection slab: recycled rubber granulate with PU binding agent

Letters/Numbers: mixing ratio approx. 80% EPDM,

approx. 20% black

Colours(1):

Impact protection slab: red, green, black, grey

Letters/Numbers: red, grey, blue

Tolerances: Length and width ± 0.8%, thickness ± 2 mm

Max. Fall Height [m]		s Dimensions [mm]	Weight approx. [kg]/unit
4.00		500 500 <sup>(3)</sup>	5.0
1.00	30	500 x 500 <sup>(2)</sup>	5.2
1.20	40	500 x 500 <sup>[2]</sup>	6.5
1.50	50	500 x 500 <sup>[2]</sup>	7.5
1.75	55	500 x 500 <sup>[2]</sup>	8.4
2.10	70	500 x 500 <sup>[2]</sup>	10.4
2.40	80	500 x 500 <sup>[2]</sup>	12.0
3.00	110	Sandwich Systen	n <sup>(3)</sup> 18.2
2.60	80	Softsystem	9.5
3.00	90	Softsystem	11.0





# **EUROFLEX®** DESIGN SLABS

LET YOUR CREATIVITY RUN WILD

EUROFLEX® Design Slabs - alone or in combination with EUROFLEX® Letter and Number Slabs - providing exciting design options. EUROFLEX® Design slabs are offered in a variety of imaginative themes including animals, the sky and the sea.

Custom versions are available to convey your message, e.g. information, advertising or sponsors' corporate logos. Play with designs and make your playground, fitness facility or running track a definite eye-catcher.

### **Technical Data**

#### Material impact protection slab:

recycled rubber granulate with PU binding agent

Material motifs: EPDM rubber

Colours(1):

Colour combinations slab-motif as shown on this page only

**Tolerances:** Length and width ± 0.8%,

thickness ± 2 mm





































Max. Fall Height [m]	Thickness [mm]	Dimensions [mm]	Weight approx. [kg/unit]
1.00	30	500 x 500 <sup>(2)</sup>	5.2
1.20	40	500 x 500 <sup>(2)</sup>	6.5
1.50	50	500 x 500 <sup>[2]</sup>	7.5
1.75	55	500 x 500 <sup>[2]</sup>	8.4
2.10	70	500 x 500 <sup>[2]</sup>	10.4
2.40	80	500 x 500 <sup>(2)</sup>	12.0
3.00	<b>110</b> S	Sandwich Syster	n <sup>[3]</sup> 18.2
2.60	80	Softsystem	9.5
3.00	90	Softsystem	11.0





# **EUROFLEX®** EDGE AND CORNER PROFILES

# **USEFUL ADDITION FOR EVEN MORE SAFETY**

EUROFLEX® Edge and Corner Profiles are the perfect complement for our EUROFLEX® Impact Protection Slabs.

They significantly improve safety around surfacing systems by reducing the danger of stumbling. Another important benefit: they allow access with wheelchairs.



## Edge Profile (2)

Dimensions [mm]	Weight approx. [kg/unit]
1,000 x 250 x 30/	10 4.0
1,000 x 250 x 40/	10 6.2
1,000 x 250 x 50/	20 7.8
1,000 x 250 x 70/	20 8.5
1,000 x 250 x 80/	20 10.5
1,000 x 250 x 110	/20 13.0

## Corner Profile (2) (3)

Dimensions [mm]	Weight approx. [kg/unit]
1,000 x 250 x 30/1	0 3.2
1,250 x 250 x 40/1	0 6.8
1,250 x 250 x 50/2	0 8.3
1,250 x 250 x 70/2	0 9.2
1,000 x 250 x 80/2	0 9.0
1,000 x 250 x 110/	20 12.5

## **Technical Data**

Material: rubber granulate with PU binding agent Colours(1): Standard: red, green, black, grey EPDM-coated: any EPDM standard or special colour according EPDM colour scale on page 7 **Tolerances:** Length and width ± 0.8%, thickness ± 2 mm











# **EUROFLEX®** EDGE AND CORNER SLABS

## AN ELEGANT SOLUTION FOR REALIZING BARRIER-FREE ACCESS TO PLAYGROUNDS

EUROFLEX® Edge and Corner Slabs significantly improve safety around our EUROFLEX® surfacing systems.

The bevelled edges facilitate access with wheelchairs, pushchairs and bobby cars and reduce the hazard of stumbling at the edge of the surface.

EUROFLEX® Edge and Corner Slabs are used as edging for playgrounds and playing surfaces of all types over hard, level substructures. They ensure safe and facile access to playground areas and are particularly suitable for asymmetrical areas.

#### **Technical Data**

Material: recycled rubber granulate with PU binding agent

Colours (1): red, green, black, grey

**Tolerances:** Length and width ± 0.8%, thickness ± 2 mm









### Edge Slab

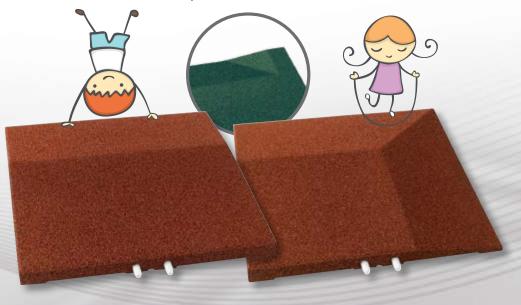
Dimensions [mm]	Weight approx. [kg/unit]	
500 x 500 x 30/10	5.3	
500 x 500 x 40/10	6.5	
500 x 500 x 50/10	7.7	
500 x 500 x 55/15	8.3	

#### **Outer Corner Slab**

Dimensions [mm]	Weight approx. [kg/unit]
500 x 500 x 30/10	5.0
500 x 500 x 40/10	6.4
500 x 500 x 40/10	7.4
500 x 500 x 50/10	8.1
200 X 200 X 22/12	8.1

#### **EUROFLEX® Corner Slabs**

are also available as Inner Corner Slabs on request.





# EUROFLEX® IMPACT PROTECTION PRODUCTS...

...ENJOY A HIGH LEVEL OF TRUST WORLDWIDE









Whether in schools and day-care centers or sports and play facilities: **EUROFLEX®** accessories make every playground an experience. They give children room for creativity and imagination, while offering diverse possibilities for play and activity. They not only enhance the appearance of your playground with individual colour designs, but also perfectly supplement the **EUROFLEX®** Impact Protection Slabs. The rubber material serves as a warm and comfortable seat and is fast-drying, weatherproof, non-splintering and soft, and therefore safe.

All EUROFLEX® playground accessories are tested in accordance with DIN EN 1176:2008.



EUROFLEX® ACCESSORIES

TURNS EVERY PLAYGROUND INTO AN EXPERIENCE





# EUROFLEX® MODULAR SANDBOX EDGING

## OPTIMAL PROTECTION AROUND THE SANDBOX

Playing in a sandbox is one of the favourite activities of children. 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 (as opposed to slippery and weathered sandbox edges made of wood or concrete, which pose a high risk of injury due to their surface structure and hardness). The use of side elements allows a high degree of freedom in designing the sandbox and access by machinery for replacing the sand. The self-supporting construction eliminates the need for digging; there are no costs for disposal or foundations. Creation and expansion of sandboxes is therefore much simplified.

The **EUROFLEX® Modular Sandbox Edging** is used in schoolyards, in day care facilities and kindergartens, and as plant troughs, or simply as an element for separating entire, irregularly shaped play areas from the surrounding environment.

#### **Technical Data**

#### Standard version

Material: recycled rubber granulate

with PU binding agent

Colours(1): red, green, black, grey

Tolerances: ± 0.8%













### **EPDM-coated version**

Material: EPDM rubber granulate with PU binding agent

Colours(1): any standard and special colour

shown on page 7

Tolerances: ± 0.8%

Dimensions [mm]

1,150 x 150 x 300

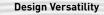
Centre-to-centre separation [mm]

1,000

Quantity [unit/m]

Weight [kg/unit] ca

ca. 33 <sup>[2]</sup>



The integrated pivot joints are fixed together by connector pins to form practically any desired sandbox shape.



Even more freedom of design: Modular Sandbox Edging EPDM in a wide range of colours

<sup>[1]</sup> Slight material-related colour variations possible

<sup>[2]</sup> EPDM version slightly heavie



# **EUROFLEX®** STEPPER / THEME STEPPER

# AN IDEAL COMPLEMENT TO PLAYGROUNDS AND FITNESS TRAILS

An essential skill for many sports and playing in general is maintaining balance while moving along a defined narrow path. To do this, an outstanding sense of balance and muscular coordination are required. **EUROFLEX® Stepper** balancing elements were designed specifically to help promote these abilities. Available in 4 different heights, they provide architects maximum freedom in creating adventurous walkways for children to master.

The easy-to-install base socket (to be ordered separately) provides stable support and facilitates installation and removal.

### **Technical Data**

Material Stepper: recycled rubber granulate

with PU binding agent

Material theme: EPDM rubber

Colours(1) Stepper: red

Colours(1) theme: bright orange, bright blue

Themes: Flower or butterfly

 $\textbf{Tolerances:} \pm 0.8\%$ 

Accessories: Base socket with reducing adapter

(twist-on rod and glue cartridge included)

to be ordered separately

 Dimensions [cm]
 ∅ 25.5 x 20 (2)

 Weight approx. [kg/unit]
 8.0

 Dimensions [cm]
 ∅ 25.5 x 30 (2)

 Weight approx. [kg/unit]
 13.0

 Dimensions [cm]
 ∅ 25.5 x 40 (2)

 Weight approx. [kg/unit]
 16.0

 Dimensions [cm]
 ∅ 25.5 x 50 (2)

 Weight approx. [kg/unit]
 20.0



<sup>[1]</sup> Slight material-related colour variations possible

<sup>[2]</sup> including socket



# EUROFLEX® ELEPHANT, RHINO AND DROMEDARY CUTE PLAYING EQUIPMENT WITH A WIDE RANGE OF APPLICATIONS

Imaginative play equipment or an exciting seating option – **EUROFLEX® Elephant, Rhino and Dromedary** offer kids everything they need for their naturally active lives and communication requirements. They unite the various elements of play in a single piece of equipment.

The **EUROFLEX®** jungle and desert animals bring huge flexibility to the design of playgrounds and indoor play areas. **EUROFLEX® Elephants, Rhinos and Dromedaries** can be used as more than just playthings, and can also be used as little islands in playgrounds and kindergartens.

The base plate increases the rigidity of the EUROFLEX® animals and contributes to the toy's safety (indoor).

#### **Technical Data**

Material: rubber granulate with PU binding agent

**Colours**<sup>(1)</sup>: any EPDM standard and special colour shown on page 7

Tolerances: ± 0.8%

Accessorie per animal: 2 base sockets with reducing adapter (twist-on rod and glue cartdridge included) or 1 base plate

(to be ordered separately)

Dimensions approx. [mm] (L) 560 x (W) 190 x (H) 395
Weight Elephant approx. [kg/unit] 30
Weight base plate approx. [kg/unit] 21

Dimensions approx. [mm] (L) 700 x (W) 250 x (H) 400
Weight Rhino approx. [kg/unit] 30

Weight base plate approx. [kg/unit] 21

**Dimensions approx. [mm]** (L) 750 x (W) 200 x (H) 510

Weight Dromedary approx. [kg/unit] 32
Weight base plate approx. [kg/unit] 21





# **EUROFLEX®** MUSHROOMS

# DECORATIVE ELEMENTS FOR PLAYGROUNDS WITH ADDED VALUE

Playing promotes childrens' physical and communicative abilities. **EUROFLEX® Mushrooms** combine both of these aspects by letting children follow their urge for energetic activity while creating imaginative islands and seating arrangements which promote communication.

**EUROFLEX® Mushrooms** are available in different heights, allowing creation of playing areas for all age groups. The EPDM colour range provides further flexibility in design. **EUROFLEX® Mushrooms** can be used purely as playing equipment or to integrate mini-islands in playgrounds in schoolyards and daycare centres. They also permit maximum flexibility for individual design of playgrounds.

## **Technical Data**

### 1 set consists of:

3 x cap, 3 x stem 30 cm, 3 x stem 40 cm and 3 x stem 50 cm, 3 x base socket (twist-on rod and glue cartridge included)

Individual order of all parts is possible.

Material cap: EPDM rubber with PU binding agent

Material stem: recycled rubber granulate

with PU binding agent

Colours(1) cap: red, green, bright orange, yellow, blue

Spots variable in colour Colours<sup>(1)</sup> stem: red Tolerances: ± 0.8%

#### Stems

Dimensions [cm]	Ø 25.5 x 20 <sup>(2)</sup>
Weight approx. [kg/unit]	8.0
Dimensions [cm]	Ø 25.5 x 30 <sup>[2]</sup>
Weight approx. [kg/unit]	13.0
Dimensions [cm]	Ø 25.5 x 40 <sup>[2]</sup>
Weight approx. [kg/unit]	16.0
morgin approxitation	10.0
mengine uppressing, units	10.0
Dimensions [cm]	Ø 25.5 x 50 <sup>[2]</sup>





<sup>(1)</sup> Slight material-related colour variations possible

<sup>[2]</sup> including socket



# **EUROFLEX®** BALL AND HALF BALL

# "GLOBALIZE" YOUR PLAYGROUND

**EUROFLEX® Ball and Half Ball** are highly successful design components for distinctively noticeable playgrounds. Equally attractive whether used indoors or outdoors, **EUROFLEX® Ball and Half Ball** fits in with any surroundings due to its harmonic shape and rounds out the overall appearance of any playing surface. **EUROFLEX® Ball and Half Ball** can be mounted on either a steel anchor or a base slab, both of which are available as accessories.

They are design elements for playing surfaces, seating, partitioning or decorative bordering on surfaces of all kinds including playgrounds, pedestrian zones, etc.

### **Technical Data**

#### Material Ball/Half Ball standard:

recycled rubber granulate with PU binding agent

## Material Ball/Half Ball EPDM:

recycled/EPDM rubber granulate with PU binding agent

Colours<sup>(1)</sup> standard: red, green, black, grey Colours<sup>(1)</sup> EPDM: any EPDM standard and special colour shown on page 7

Tolerances: ± 0.8%

Accessories: base socket (glue cartridge included)

to be ordered separately.

Ball		Half Ball	
Dimensions [mm]	Ø 345	Dimensions [mm]	Ø 345 x 172.5
Weight approx. [kg/unit]	18.3 (20.4)[2]	Weight approx. [kg/unit]	9.2 (10.2)[2]
Dimensions [mm]	Ø 500	Dimensions [mm]	Ø 500 x 250
Weight approx. [kg/unit]	56.0 (60.0)(2)	Weight approx. [kg/unit]	28.0 (30.0)(2)
Dimensions [mm]	Ø 695	Dimensions [mm]	Ø 695 x 347.5
Weight approx. [kg/unit]	150.4 (166.0)[2]	Weight approx. [kg/unit]	75.0 (83.0)(2)

<sup>[1]</sup> Slight material-related colour variations possible

<sup>(2)</sup> Values in brackets refer to Ball/Half Ball EPDM



# EUROFLEX® CUBE / CUBE EPDM

# EASILY DESIGN PLAY STRUCTURES AND IMPRESSIVE PLAY AREAS

The perfect geometry! The EUROFLEX® Cube can be used as a striking and solid climbing, design and border element on playgrounds and play areas. With the EUROFLEX® Cube you can easily and flexibly create spaces for children to interact. A pyramid made of cubes is an invitation to climb and jump, while also developing the sense of balance and physical control. The large selection of colours in the EUROFLEX® Cube EPDM series gives you much freedom of design.

The EUROFLEX® Cube can also be fastened with a steel anchor that is pre-mounted at the factory. The EUROFLEX® Cube meets the requirements of the German equipment safety act and is safe in accordance with the playground equipment standard (DIN EN 1176:2008).



#### Material Cube standard:

recycled rubber granulate with PU binding agent

## Material cube EPDM:

recycled/EPDM rubber granulate with PU binding agent

Colours(1) standard: red, green, black, grey

Colours(1) EPDM:

any EPDM standard and special colour shown on page 7

Tolerances: ± 0.8%

Accessories: Cube/Cube EPDM can be ordered with or without included

ground anchor

Dimensions [mm] Weight approx. [kg/unit] 54.0 (61.4)(2)

400 x 400 x 400

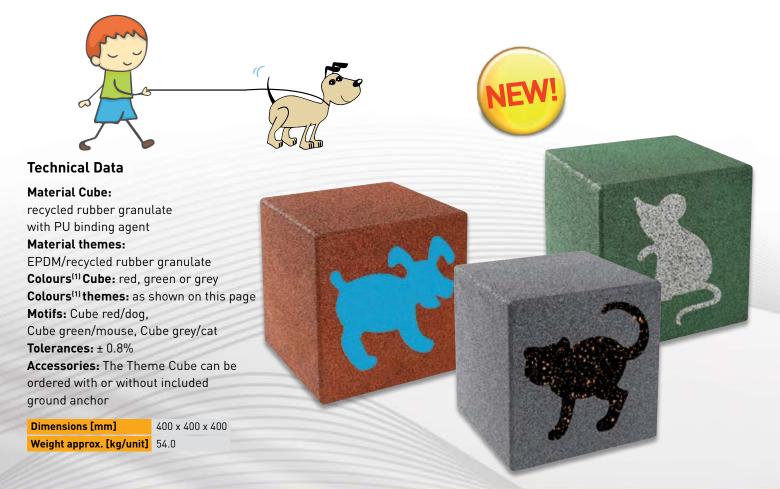




# **EUROFLEX®** THEME CUBE

# CHILDREN WILL BE DELIGHTED BY THE AMUSING CUBE ANIMAL THEMES

The EUROFLEX® Standard Cube is now even more attractive. It is now available in three versions with cute animal themes. They not only look good, but also give small children the challenge of matching words with the corresponding pictures. The EUROFLEX® Theme Cube therefore provides the added function of learning new words, in addition to the existing advantages of training agility and the sense of balance. As with every EUROFLEX® Cube, this version can be fastened with a steel anchor that is pre-mounted at the factory. The EUROFLEX® Theme Cube also meets the requirements of the German equipment safety act and is safe in accordance with the playground equipment standard (DIN EN 1176:2008).







# **EUROFLEX®** SPORTS PAVEMENT SLABS

# MODERN SURFACING SYSTEM WITH TESTED BALL REBOUND PROPERTIES

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 for neighbours. **EUROFLEX® Sports Pavement Slabs** fulfil the needs of children, teenagers and adults - whether they are sports enthusiasts or nearby residents.

**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. Sound deadening of **23 dB** goes easy on neighbours' nerves. Integrated connector pins permit easy and cost-efficient installation in a masonry-style configuration without need for glueing. The substructure can be a paved surface or firmly compacted aggregate material (not sand). Line application on the surface is easy, allowing markings for all types of sports.

**EUROFLEX® Sports Pavement Slabs** are used in facilities for a wide range of sports and recreational activities. Successful applications include paved areas for football, basketball, street hockey, volleyball, generation-spanning activity parks as well as peripheral surfacing around table-tennis tables.

### **Technical Data**

#### Material:

recycled rubber granulate with PU binding agent

Colours(1): red, green, black or grey

#### Tolerances:

Length/width  $\pm$  0.8%, thickness  $\pm$  2 mm

#### Accessories:

To be installed with edge and corner profiles shown on page 11.

Dimensions [mm] (3)	Ball rebound <sup>(2)</sup>	Quantity requir [unit/m²]	ed Weight approx. [kg]/unit]
500 x 500 x 30	98%	4	6.6
500 x 500 x 40	97%	4	8.9
1,000 x 500 x 40	97%	2	17.8



<sup>(1)</sup> Slight material-related colour variations possible.

<sup>[2]</sup> Test procedure: DIN 18032, Part 2. See FMPA Stuttgart Test Certificatet.

<sup>(3)</sup> Can also be combined with EUROFLEX® Edge and Corner Slabs (given on page 12).



# **EUROFLEX®** ELASTIC PAVEMENT BLOCKS

## WALKING COMFORT FOR ALL AGES

Safety and aesthetic design are not always mutually exclusive options. For designers of multipurpose sports and recreational facilities, this is best exemplified by **EUROFLEX® Elastic Pavement Blocks**.

**EUROFLEX® Elastic Pavement Blocks** have high elasticity, providing effective cushioning for players`ligaments and joints. Excellent ball rebound properties are achieved by high compression in manufacturing. The interlocking pavement blocks offer unlimited combination possibilities, e. g. with conventional paving materials, allowing maximum flexibility and freedom in design. A problem-free, easy and fast installation saves money and time. An installation over existing asphalt or concrete pavements is also possible.

**EUROFLEX® Elastic Pavement Blocks** are typically used in multi-generation sports and recreational facilities e. g. for football and basketball. They are equally well suited for use in numerous other application sectors requiring high safety and durability:

- sidewalks at rehabilitation centers and daycare centers
- retirement homes and hospitals
- wheelchair routes
- paths on golf courses
- walkways in ice-skating rinks
- peripheral surfacing around table-tennis tables
- outdoor fitness parks

## **Technical Data**

## Material:

recycled rubber granulate with PU binding agent **Colours**<sup>(1)</sup>: red, green, black

# Tolerances:

Length/width  $\pm$  0.8%, thickness  $\pm$  2 mm

Dimensions approx. [mm			ity required [unit]	Weight approx. [kg/	unit]
Full block 2	00 x 165 x 4	43 3	35 / m²	1,20	
Half block 1	00 x 165 x	43	4 / m	0,60	
Starter 2	00 x 140 x	43	-	1,10	



<sup>(1)</sup> Slight material-related colour variations possible



# **EUROFLEX®** PAVING BLOCK TILE PROTECTS, IS EASY TO INSTALL AND LOOKS GREAT

The EUROFLEX® Paving Block tile is warmer than a hard stone, brick or tile surfacing material. So kids and adults can play and romp around without concern. Moreover, it is also pleasantly soft and therefore offers excellent protection against injuries to ligaments and joints.

The high level of compression of the EUROFLEX® Paving Block tile is reflected in its high resistance to abrasion. Being elastic it offers protection for joints and ligaments during play. Supplied with plug-in connectors fitted at the factory the tiles are easy and cheap to install in a sturdy masonry-type bonding system without glue, both for bonded and compacted, load-bearing non-bonded sub-surfaces (excluding sand).

In addition to being ideal for sidewalks or outdoor fitness equipment the EUROFLEX® Paving Block tile is also suitable for a diversity of other locations requiring safe and hard-wearing surfaces:

- sidewalks at rehabilitation centers and daycare centers
- street ball facilities
- wheelchair routes and paths on golf courses
- walkways in ice-skating rinks
- peripheral surfacing around table-tennis tables

### **Technical Data**

#### Material:

recycled rubber granulate with PU binding agent

Colours(1): red, green, black, grey

#### Tolerances:

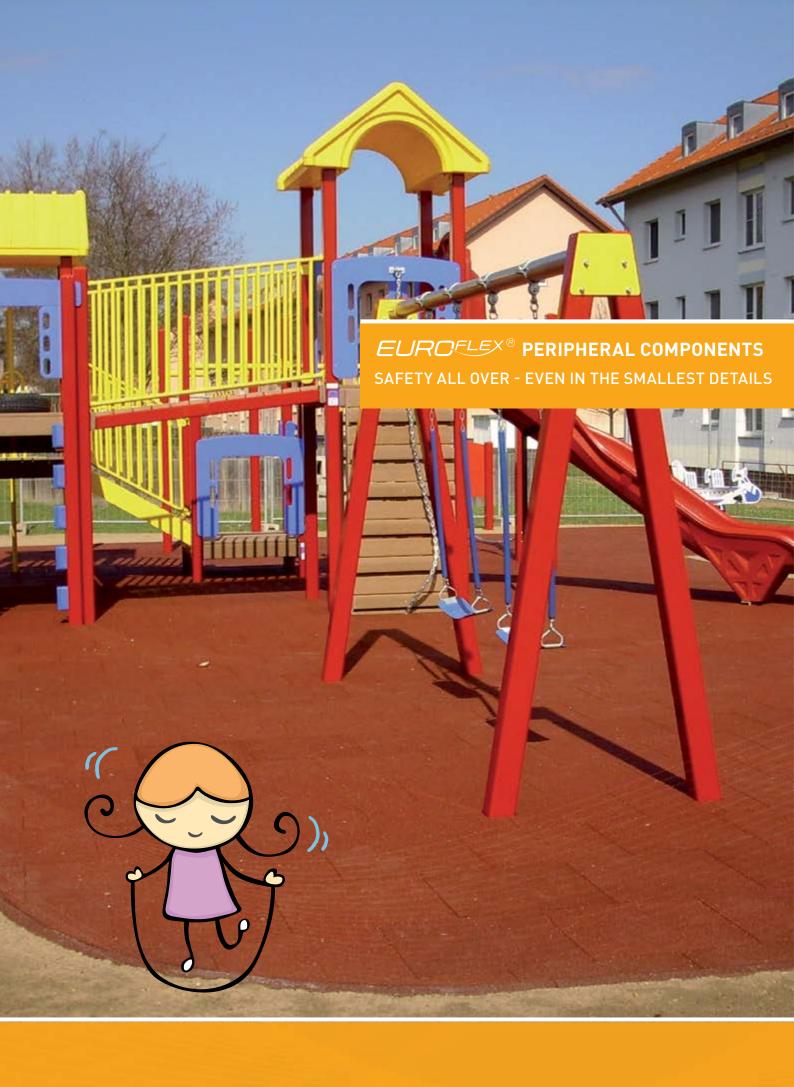
Length/width  $\pm$  0.8%, thickness  $\pm$  2 mm

#### Accessories:

To be installed with edge and corner profiles shown on page 11.

**Dimensions Quantity required** Weight [unit/m<sup>2</sup>] approx. [kg/unit] approx. [mm] 500 x 500 x 40 9,0







# **EUROFLEX®** STEP BLOCKS

# **VERSATILE EDGING WITH HIGH DEGREE OF SAFETY**

Stairways, steps, bases of doors and gates and edging can be hidden injury hazards that should not be underestimated. **EUROFLEX® Step Blocks** are the safe alternative to unforgivingly rigid materials such as wood, stone or concrete.

**EUROFLEX® Step Blocks** are ideally dimensioned for use in stepped inclines such as stairways or spectator standing and seating areas. They can be installed on edge if required, e.g. when used as edging. **EUROFLEX® Step Blocks** offer outstanding design versatility. Cutting to desired sizes – even mitring – is easy. **EUROFLEX® Step Blocks** are made from select recycled rubber material which is comfortable to sit on, is soft and safe, dries quickly when wet, does not splinter and is highly resistant to weathering. They are available in 45° circular arc segments for added design versatility.

**EUROFLEX® Step Blocks** are highly useful components in structures and facilities of all types. Successful applications to date include:

- 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
- planter walls
- tailor-made seating arrangements

### **Technical Data**

## Material:

recycled rubber granulate with PU binding agent

Colours(1): red, green, black, grey

## Tolerances:

Length/width  $\pm$  0.8%, thickness  $\pm$  2 mm

Dimensions approx. [mm] app	Weight prox. [kg/unit]
1,000 x 300 x 150	33,0
1,021/785 x 300 x 150 (45° circular arc section r = 1m	) 30,0
1,000 x 240 x 120	29,0





# EUROFLEX® LAWN EDGING

# THE IDEAL SOLUTION AGAINST STUMBLING HAZARDS

While important for a tidy appearance, edge trim around playing areas, playgrounds and sports facilities can be an invisible sharpedged hazard when fallen on. Highly soft and visible, EUROFLEX® Lawn Edging is designed specifically to provide safe bordering for lawns of all types. EUROFLEX® Lawn Edging is made from selected recycled rubber material which is highly flexible (90° radius), easy to cut, highly resistant to outdoor weathering and provides maximum protection against injuries.

Grooves at the bottom of the edging elements ensure secure anchoring in the poured concrete base. Installation is made easy by convenient connector pins. EUROFLEX® Lawn Edging is also available with high-visibility EPDM top trim.

Besides playgrounds and sports facilities, EUROFLEX® Lawn Edging excels in numerous other applications including:

- optimal peripheral components for the **EUROFLEX® Impact Protection Slabs**
- edge trim for in-situ areas
- edge trim for sandboxes
- edge trim for walkways and sidewalks
- edge trim for trees and bushes
- enclosures around and between lawns
- edge trim for beach volley ball areas

#### **Technical Data**

## Material:

recycled rubber granulate with PU binding agent

Colours(1): red, green, black, grey

## Colours (1) EPDM top trim:

any EPDM standard and special colour shown on page 7

#### Tolerances:

Length/width ± 0.8%, thickness ± 2 mm

Dimensions approx. [mm] 1,000 x 250 x 50 Quantity required [unit/m] 1

Weight approx. [kg/unit] 11.0







# EUROFLEX® PROTECTIVE EDGING / PROTECTIVE EDGING EPDM IDEAL ALL-ROUND PROTECTION FOR TRAMPOLINES

The **EUROFLEX® Protective Edging** is the ideal protection for small to medium-sized areas with high movement activity. A typical example is for covering trampoline springs and frames. The many positive properties of the rubber material, such as high elasticity and flexibility, easy cutting and high resistance to weather, make the **EUROFLEX® Protective Edging** the first choice for this application. It provides effective protection against life-threatening injuries that could be caused by impact on the edge area of the trampoline.

The **EUROFLEX® Protective Edging** is fast and easy to install with the integrated connector pins and is also available in a full EPDM version. The large choice of colours allows perfect visual coordination to virtually any environment.

# **Technical Data** Material Standard: recycled rubber granulate with PU binding agent Material EPDM: EPDM rubber granulate with PU binding agent Colours(1) standard: red, green, black, grey Colours[1] EPDM: any EPDM standard and special colour shown on page 7 Tolerances: Length/width ± 0.8%, thickness ± 2 mm areen Dimensions approx. [mm] 1,000 x 250 x 50 Quantity required [unit/m] Weight approx. [kg/unit] 11.0 (13.9)[2]

<sup>(1)</sup> Slight material-related colour variations possible

<sup>(2)</sup> Value in bracket refers to Protective Edging EPDM



# EUROFLEX® EDGE PROTECTORS / PERIMETER PANELS ELIMINATES HAZARD SPOTS EASILY

**EUROFLEX® Edge Protectors** provide problem-free covering of all types of concrete edges, minimizing danger of injury in schoolyards, playgrounds and daycare centres.

**EUROFLEX® Edge Protectors** reduce injury potential on concrete or wood steps and edges. They are highly resistant to outdoor weathering, dry quickly when wet and do not splinter. **EUROFLEX® Edge Protectors** are made from select recycled rubber material which is easy to cut and modify for specific designs. They can also be mitred if required.

**EUROFLEX® Edge Protectors** are used to eliminate hazard spots in schoolyards, playgrounds and daycare centres. They are particularly well suited for covering concrete, wood and metal edges, stairways and spectator seating areas, masonry crowns and exposed overhangs.

Concrete edge trim or peripheral surfaces around playgrounds and recreational facilities can cause serious injuries if fallen on. Covering these surfaces with **EUROFLEX® Perimeter Panels** cushions impact and makes for safer playing.

Here too, the rubber material used in manufacturing provides benefits that speak for themselves: **EUROFLEX® Perimeter Panels** are highly resistant to weathering, easy to cut and install, easy to clean, dry quickly when wet and are comfortable to sit on. What more could one ask for?

#### **Technical Data**

#### Material:

recycled rubber granulate with PU binding agent **Colours**<sup>(1)</sup>: red, green, black, grey

### Tolerances:

Length/width  $\pm$  0.8%, thickness  $\pm$  2 mm

#### **Edge Protector**

Dimension approx. [mm]	1,000 x 400 x 45, leg 160
Quantity required [unit/m]	1
Weight approx. [kg/unit]	19.0

Perimeter Panel	
Dimension approx. [mm]	1,000 x 300 x 50
Quantity required [unit/m]	1
Weight approx. [kg/unit]	12.0



<sup>(1)</sup> Slight material-related colour variations possible



# **EURCFLEX®** RUBBER PALISADES

# A PERFECT COMBINATION OF DESIGN AND FUNCTIONALITY

Along with safety, aesthetic appearance is a highly desirable attribute on playgrounds as well as sports and recreational facilities. Ideally combining good looks and functionality, **EUROFLEX® Rubber Palisades** provide designers and users the best of both worlds.

**EUROFLEX® Rubber Palisades** are made from select recycled rubber material which is soft and provides effective protection against serious head injuries. **EUROFLEX® Rubber Palisades** are comfortable to sit on, dry quickly when wet, do not splinter and are highly resistant to weathering. Available in various heights for high design versatility. Integrated steel anchors provide secure mounting, allow utilization of full height of palisade. Concave fillet provides for flush fit of assembled palisade wall.

**EUROFLEX® Rubber Palisades** are used to border areas and enclosures of all imaginable shapes. Applications range from purely aesthetic design elements to functional partitioning of playing areas or recreational facilities:

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

#### **Technical Data**

Material: recycled rubber granulate with PU binding agent

Colours<sup>(1)</sup>: red, green, black, grey Tolerances: Length/width ± 0.8%

Anchor: Ø 25,4 mm (1"), protruding length 25 cm

Palisade 400 mm: total length steel anchor approx. 50 cm Palisade 600 mm: total length steel anchor approx. 65 cm

Palisade 800 mm: total length steel anchor approx. 75 cm

Dimensions [mm]	Quantity required [unit/m]	Weight approx. [kg/unit]
400 x 250/200	5	16.0
600 x 250/200	5	23.0
800 x 250/200	5	29.0





# **ENVIRONMENTAL MANAGEMENT AT KRAIBURG RELASTEC**FROM OLD TYRES TO TOP-QUALITY FINISHED PRODUCTS

**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.

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.





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.



# **KRAIBURG RELASTEC GMBH**

# OTHER PRODUCTS MADE FROM RECYCLED RUBBER GRANULES

KRAIBURG RELASTEC GmbH is a subsidiary of KRAIBURG Holding. We supply the global market with finished products for noise insulation (DAMTEC®), impact protection (EUROFLEX®), building protection and shock absorption (KRAITEC®), sports flooring systems (SPORTEC®) and elastic surfacing systems for riding facilities and horse farms (KOMFORTEX®). For more information, visit our website at www.kraiburg-relastec.com





# EUROFLEX® IMPACT PROTECTION PRODUCTS...

...ENJOY A HIGH LEVEL OF TRUST WORLDWIDE











# KRAIBURG RELASTEC GMBH PRODUCTION PLANT AND SALES



# Production Plant/Loading address: Gummiwerk KRAIBURG RELASTEC GmbH

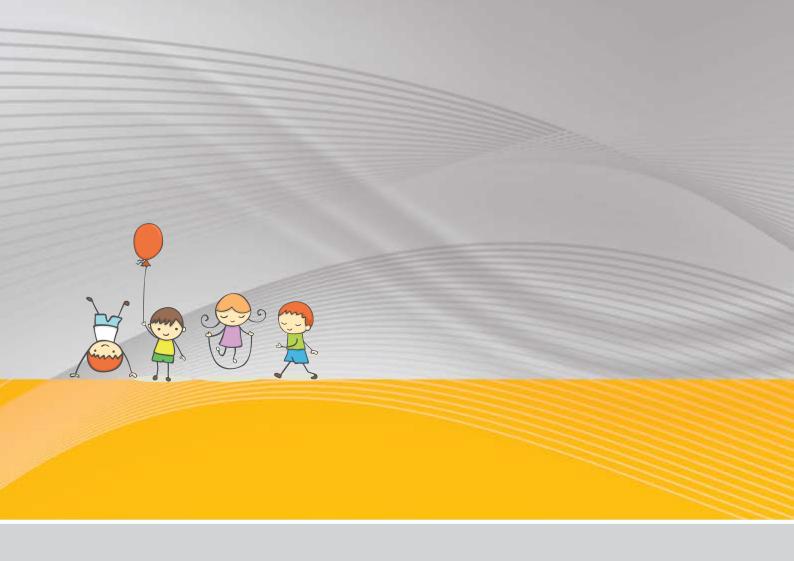
Fuchsberger Straße 4 D-29410 Salzwedel



# Sales Office & Marketing: Gummiwerk KRAIBURG RELASTEC GmbH

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# SHOCK-ABSORBENT SURFACING SYSTEMS & ACCESSORIES for Playgrounds and Multipurpose Sports Facilities made from recycled rubber

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