

EUROFLEX®

IMPACT PROTECTION SLABS

High-Level quality for
our childrens` safety

No playground should be
without them...



20 YEARS EXPERIENCE WITH PROTECTION SLABS



KRAIBURG RELASTEC impact protection slabs provide outstanding absorption of impact shock and protect against serious head bumps and play to their hearts' content. Protection from serious and potentially permanent injuries in these surroundings is extremely important. The shock absorption of EUROFLEX® Impact Protection Slabs provides safety without sacrificing problemfree use and durability. Unharmed by weathering and extreme temperatures, they let children play without a care - day in and day out. Our impact protection slabs are constantly being developed and improved. And all of this since 20 years now.



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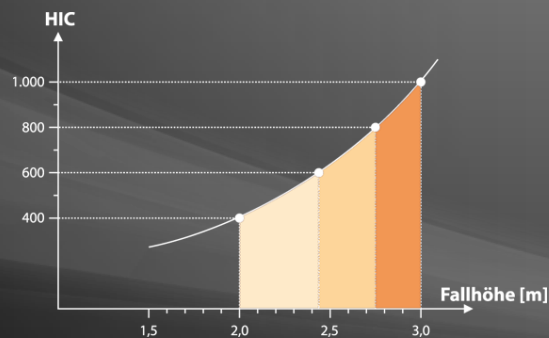
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SHOCK ABSORPTION TESTING EN 1177:2008



The European standard EN 1177:2008 defines requirements and test procedures for shock-absorbent surfacing systems. These regulations specify use of shock-absorbent surfaces when expected fall heights exceed 60 cm.

The test is carried out on four or more adjoining slabs covering an overall area of at least 1 x 1 m. The slabs are located on a flat and rigid subsurface with all connecting and anchoring elements used in playground installation. Four different fall heights are evaluated with at least 9 individual tests per height. Various points on the surfacing are impacted including slab centres, slab joints, junctions of slab joints and any apparent discontinuities. The critical fall height is the minimum fall height causing an HIC value of 1000.



Sylvia Karras
is doing the
shock absorption
test on site



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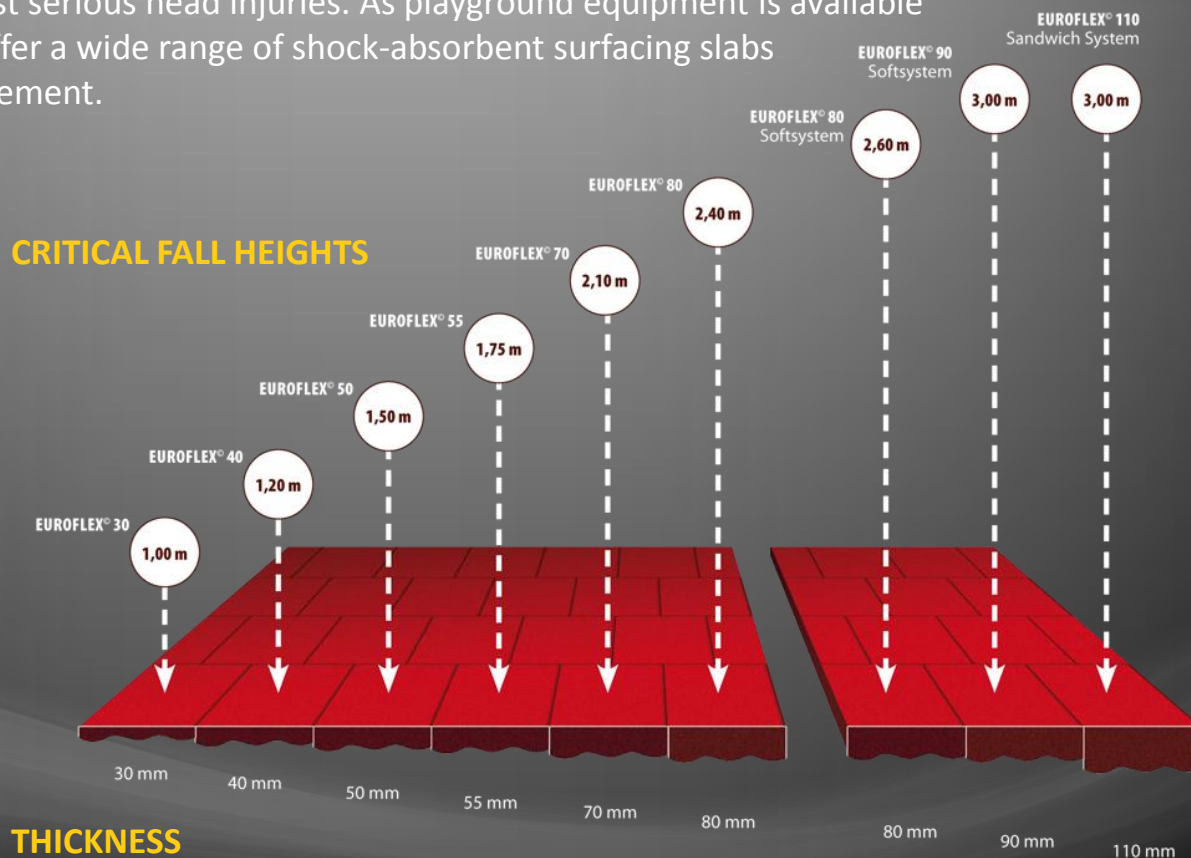
CRITICAL FALL HEIGHTS & SHOCK-ABSORBENT PRODUCTS



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 requirement.

Please note:

Different critical fall heights apply for EUROFLEX EPDM Impact Protection Slabs.



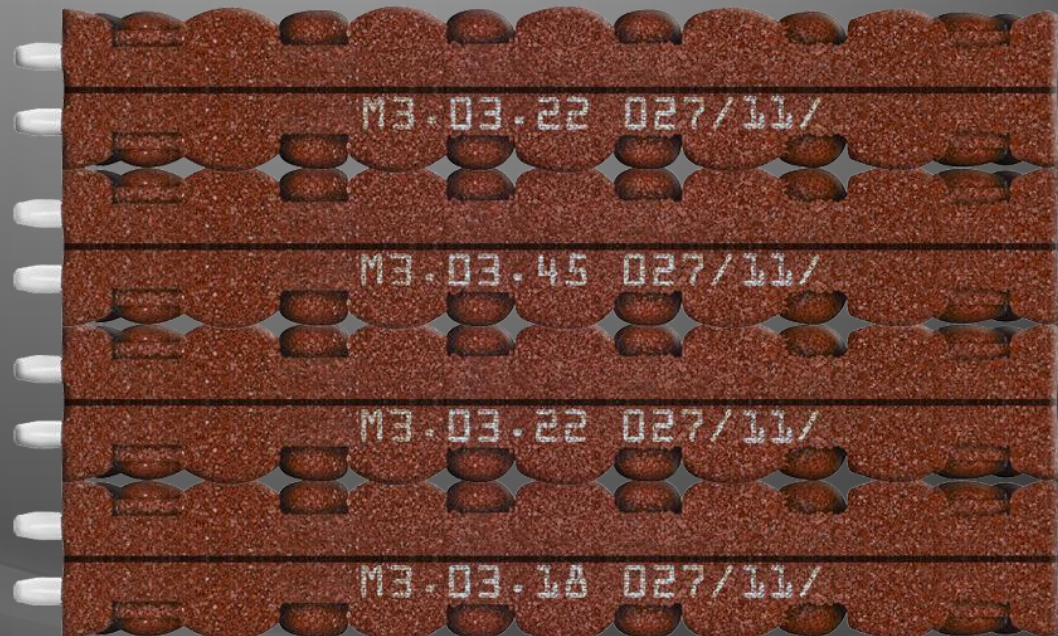
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CONSISTENT QUALITY & TRACEABILITY – TILE MARKING



Each part of a product has to be in the right place at the right time, in the required quantity and quality. In order to guarantee the quality level, all our products are tagged with a tile marking code. This enables us to track back our quality assurance standards through every single step and location in the supply chain. It is thus possible to carry out process optimisations or upset analyses very rapidly and easily.



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01. Tested quality

- ISO 9001 certified, with third-party QC inspection.
- Compliance with impact protection standards EN 1177:2008 and ASTM F 1292:2004.
- 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.

02. 20 years' field experience.

03. Environment-friendly manufacturing process.

04. Produced from high-quality rubber granulate and binding agents.

05. Highly effective, uniform cushioning protection ensures maximum safety and outstanding durability.



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GOOD REASONS FOR CHOOSING *EUROFLEX*®



- 06. Integrated connector pins secure slabs against accidental displacement and theft.
- 07. Superb drainage capacity provided by dimple texturing on lower surface.
- 08. Highly cost-efficient due to rapid installation and permanent playability resulting from excellent water permeability.
- 09. Easy to cut and adapt e.g. to supporting feet of playground equipment.
- 10. Wide range of peripheral accessories available.
- 11. Certified for ball games with a bouncing rate amounting to 97%.
- 12. 2 years fitness-for-purpose guarantee, using high density round granules



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IMPACT PROTECTION SLABS APPLICATIONS



Playgrounds



Sidewalks



Nursing establishments



Leisure facilities



Schools



Nursery schools



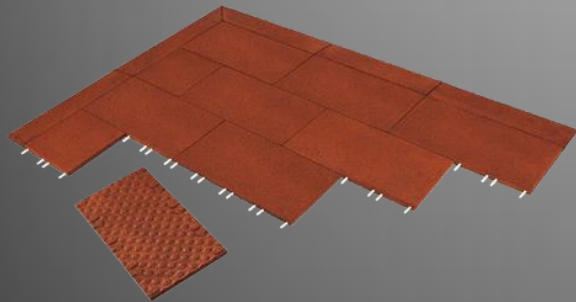
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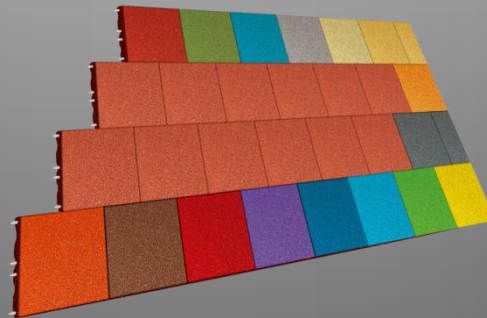
IMPACT PROTECTION SLABS PRODUCT OVERVIEW



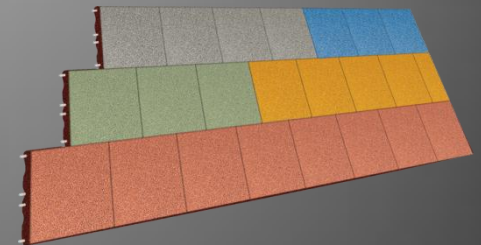
EUROFLEX®
Impact Protection Slab



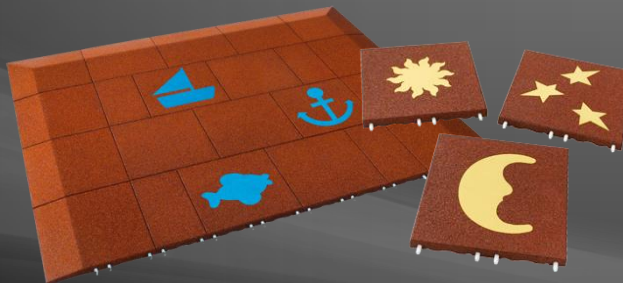
EUROFLEX®
Impact Protection Slab EPDM



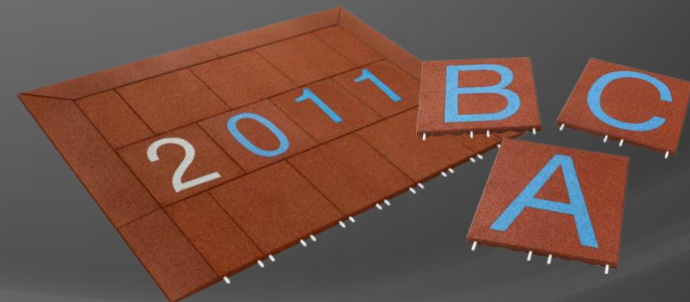
EUROFLEX®
Impact Protection Slab Style



EUROFLEX®
Impact Protection Slab Design



EUROFLEX®
Impact Protection Slab Numbers & Letters



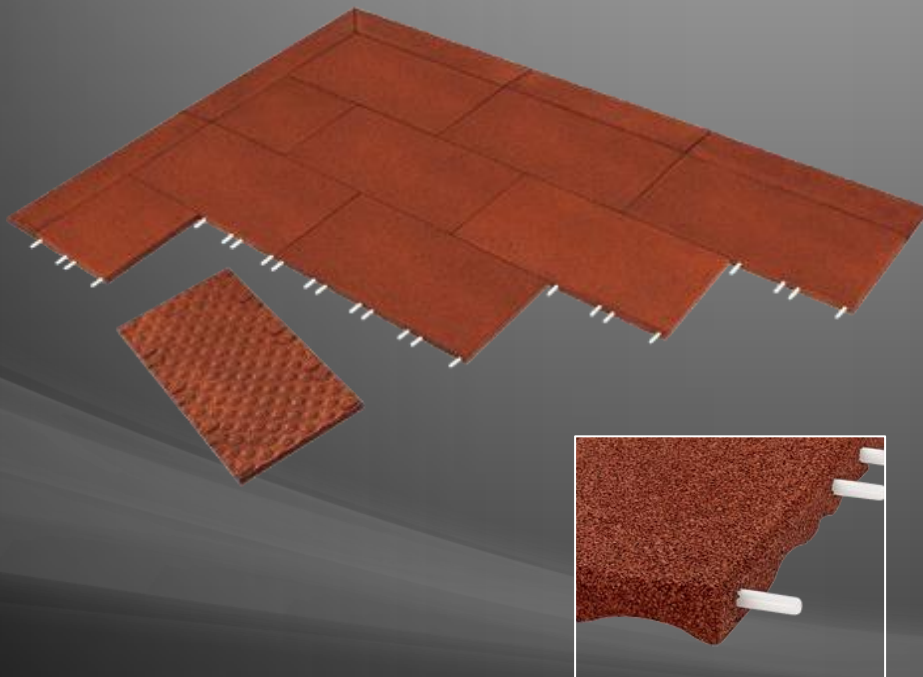
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EUROFLEX® IMPACT PROTECTION SLABS



The shock absorption of EUROFLEX® Impact Protection Slabs provides safety without sacrificing problemfree use and durability. Unharmd by weathering and extreme temperatures, they let children play without a care – day in and day out.



Material:

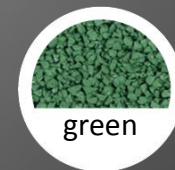
rubber granulate with
polyurethane binding agent

Available colours:

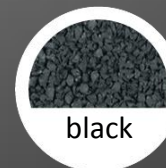
Standard colours



red



green



black



grey



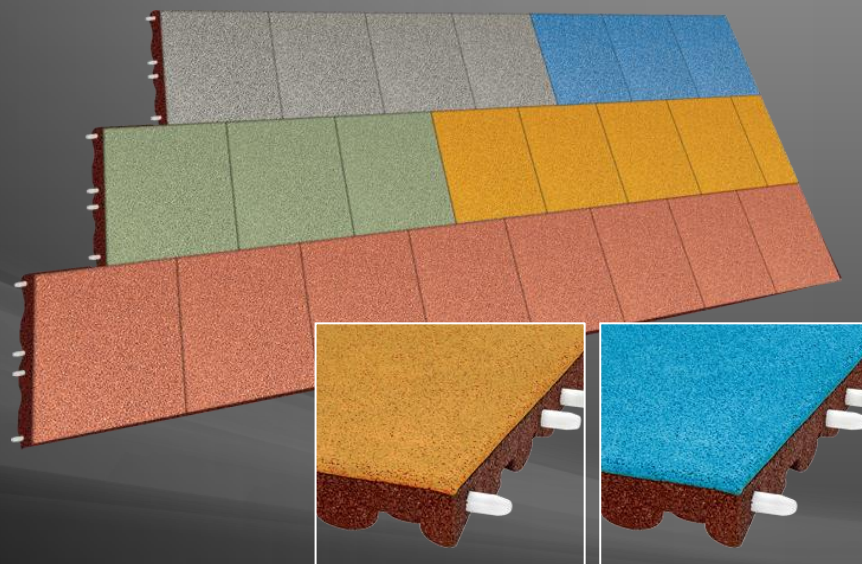
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EUROFLEX® IMPACT PROTECTION SLAB STYLE



EUROFLEX® Style slabs are a new development in the EPDM impact protection sector: a rubber base slab surfaced with a smooth layer of high-quality EPDM laminate. As the EPDM layer enhances the resiliency of the base slab, EUROFLEX® Style attains the same fall heights as does monolithic rubber of equal thickness. The smooth surface of EUROFLEX® Style makes for problem-free cleaning and maintenance.



Material of base slab:

rubber granulate with
polyurethane binding agent

Surfacing material:

peeled EPDM sheet, laminated

Available colours:

Standard colours



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EUROFLEX® EPDM IMPACT PROTECTION SLABS



EUROFLEX® EPDM impact protection slabs enable playground colour design without limits. They fulfil highest safety standards in accordance with EN 1177:2008, 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 including personalized blends to your specifications. Please note: the RAL colour codes given are approximate.



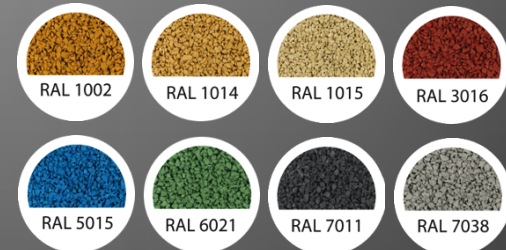
Material of base slab:

rubber granulate with
polyurethane binding agent

Surfacing material:

EPDM rubber with PU
binding agent

EPDM Standard colours:



EPDM Special colours:



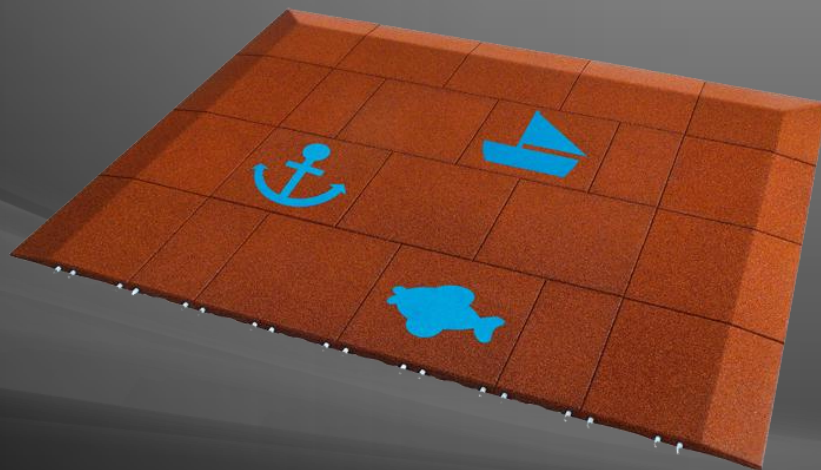
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EUROFLEX® IMPACT PROTECTION DESIGN SLABS



EUROFLEX® Design Slabs are new impact protection slabs providing exciting design options for architects and planners. Used alone or in combination with EUROFLEX® Letter and Number slabs, 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.



Material slabs: rubber granulate with polyurethane binding agent

Colours: red, green

Material surface designs:

100% EPDM virgin rubber

Colours surface designs:

red, only with green slabs

Colours surface designs:

yellow, blue and green

only with red slabs

Available surface designs:



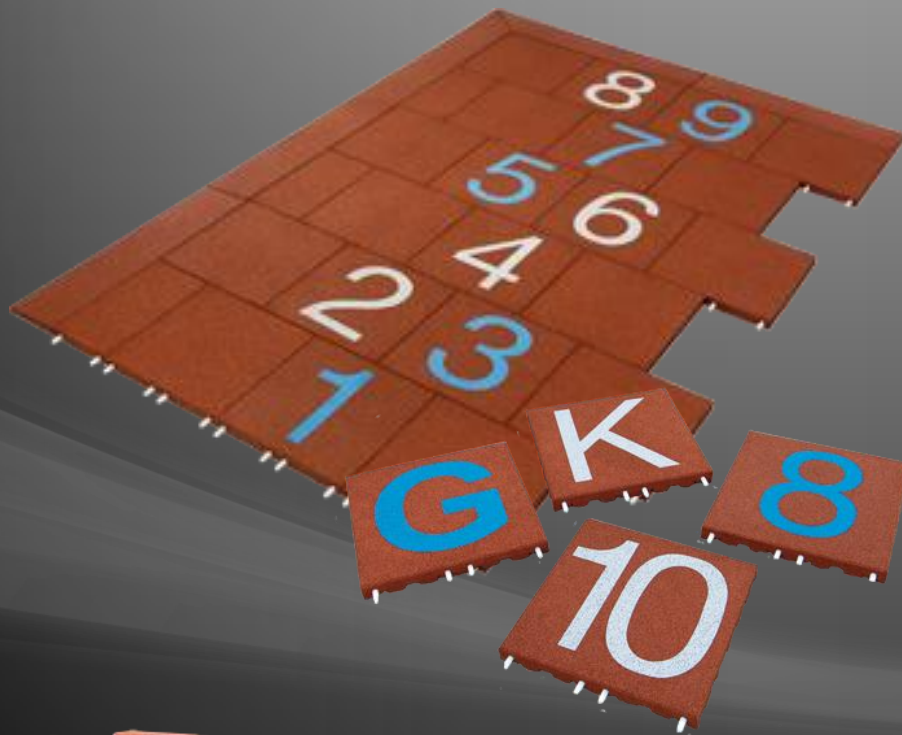
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EUROFLEX® LETTER & NUMBER SLABS



EUROFLEX® Letter and Number Slabs are particularly suitable for playgrounds in schools, kindergartens and childcare facilities and provide an add as educational element to all sports facilities and playgrounds/leisure parks.



Material slabs: rubber granulate with polyurethane binding agent

Colours: red, green, black, grey

Material numbers/letters:

Mix approx.

80% EPDM + 20% black rubber

Colours: red, grey, blue



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EUROFLEX[®] EXAMPLES / REFERENCES



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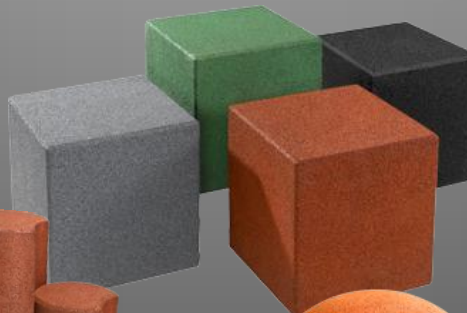
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As a supplement to our high-quality impact protection slabs we have extended our product range by a large number of accessories. These parts are especially developed in accordance to our slabs and offer the same outstanding quality level. Here are some examples:

Mushrooms



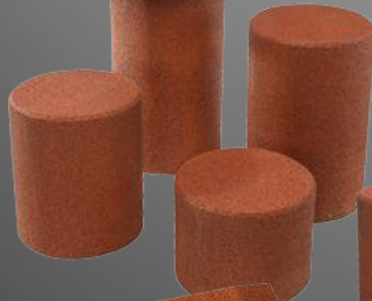
Cubes



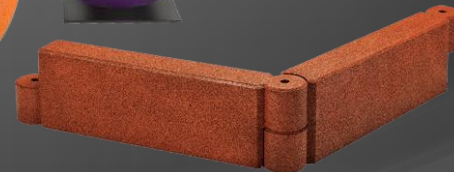
Elephant, Rhino and Dromedary



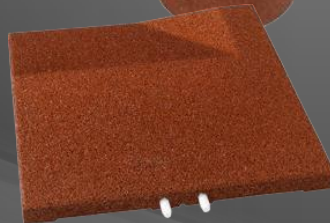
Stepper



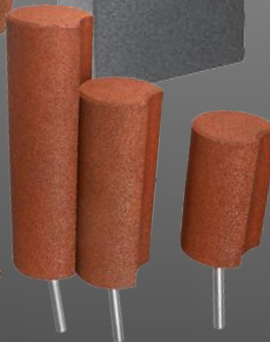
Modular Sandbox edging



Rand- und Randeckplatten und -profile



Rubber palisades



Balls



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EUROFLEX® EXPLORE THE POSSIBILITIES



You want something very special? No problem! With EUROFLEX® there are no limits on your creativity. Create your application to your own taste. Principally all forms are possible.



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UNPLEASANT SURPRISES

when installing
low quality products



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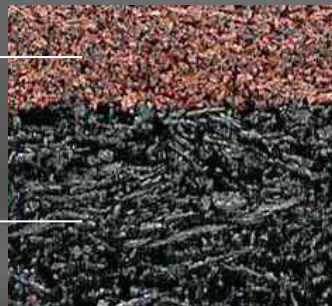
HIGH QUALITY SURFACE & LOW QUALITY BOTTOM

ADVANTAGE: Low costs because of low material prices

POSSIBLE LONG-TERM DAMAGES:

- above average shrinkage
- corners will bending-up
- ribs and rips occur on the surface
- reduction in bounce by material hardening (reduced safety effect)

High quality dense surface
(mainly shredded granules)



Low quality loose bottom



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INFERIOR SLABS WITH POORLY FINISHED OR NO PINS



Slabs will slipping after a short period of use. This increases the danger of accidents!



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INFERIOR SLABS AND COLOUR FADING



On the pictures you see the courtyard of a school which was covered with cheap impact protection slabs. 6 month after installation the slabs were bleached out of colours exposed to the action of light.



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**IMPACT
PROTECTION SLABS
COMPARED WITH
SEAMLESS SURFACES**
(seamless surfaces = INSITU)



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INSITU LOOKS GREAT AFTER INSTALLATION



Really nice designs can be carried out.



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BUT THERE ARE A LOT OF THINGS TO BE CONSIDERED

- time-consuming and difficult installation
- date of installation depends on good weather conditions
- subfloor must be well prepared before installation
- suitable materials must be found and used



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AND AFTER A TIME OF USAGE DAMAGES ARE POSSIBLE



Loose granule-parts scattered all over the safety area



Destruction of the EPDM surface in problem areas (e.g. under slides or swings)



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AND AFTER A TIME OF USAGE DAMAGES ARE POSSIBLE



Rips are created between areas of different colours



Extremely high wear after years of usage



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REPAIR WORK IS DIFFICULT AND LOOKS VERY BAD



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NOT SO WITH *EUROFLEX*® IMPACT PROTECTION SLABS



- easy and fast to install
- easy and fast to reinstall
- installation can be done on all weather conditions
- subfloor is easy to prepare
- materials are delivered ready to install
- looks great even after years of usage



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THANK YOU! FOR YOUR ATTENTION



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