



SUPPLIERS AND INSTALLERS OF SYNTHETIC SURFACES

**IMPACT PROTECTION SURFACING** for Playgrounds and Multipurpose Sports Facilities made from recycled rubber. Our slabs come in a thickness of 30mm and can withstand falls from 110cm.



**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 Synsport impact protection slabs made of bonded, permanently elastic recycled rubber granules is documented with a test certificate. Head Injury Criterion (HIC), 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.

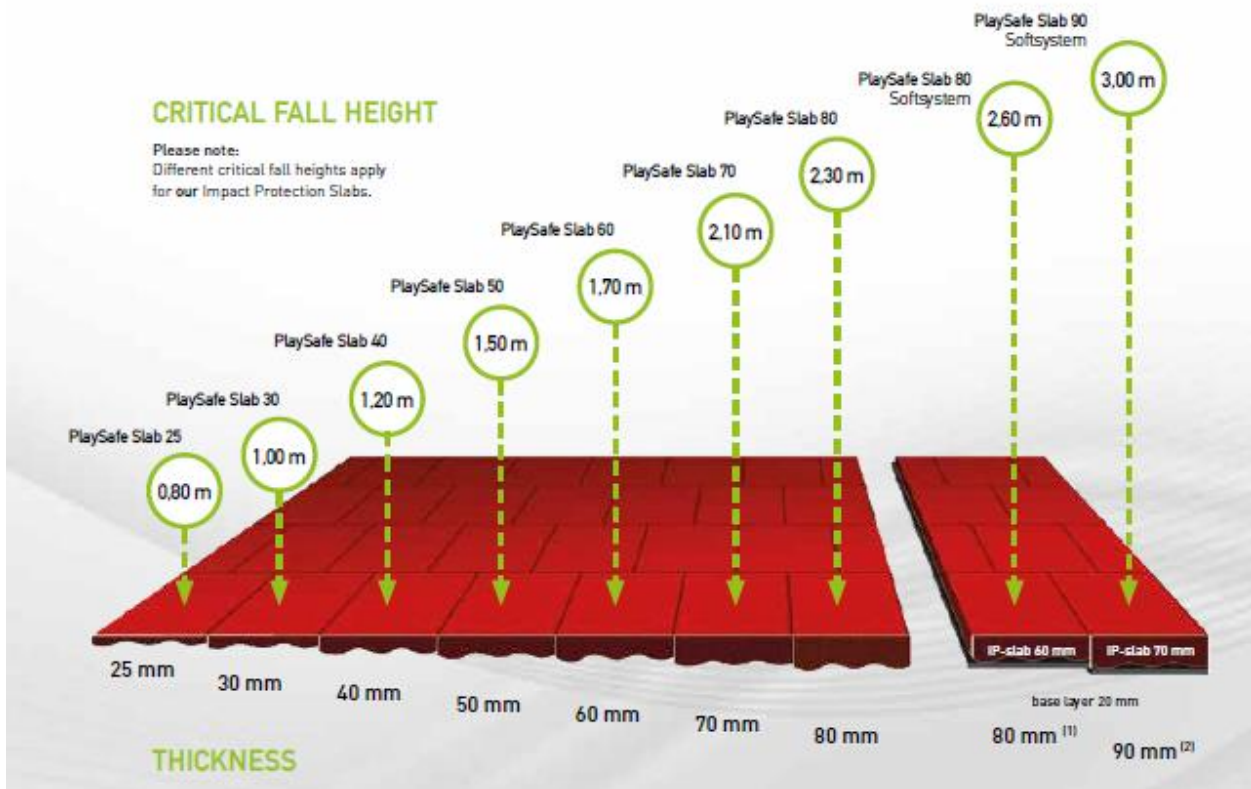
**All our Impact Protection Slabs are tested in accordance with DIN EN 1177:2008 to determine the HIC value. They are also tested in accordance with ASTM-F-1292:2013.**



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.

## CRITICAL FALL HEIGHTS

Along with shock-absorbent surfacing systems for playgrounds, our products provide outstanding absorption of impact shock and protect against serious head injuries.



## 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)

● 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

● Environment-friendly manufacturing process

● Produced from high-quality rubber granulate and binding agents

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

● 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

## IMPACT PROTECTION SLAB

The shock absorption of PlaySafe Impact Protection Slabs provides safety and durability. Unharmed by weathering and extreme temperatures, children can play without a care – day in and day out. Impact Protection Slabs are TÜV approved according to DIN EN 1177:2008.

### Technical Data

**Material:** recycled rubber granulate with polyurethane binding agent

**Colours<sup>1)</sup>:** red, green, black, grey

**Tolerances:** length and width  $\pm 0,8\%$ , thickness  $\pm 2$  mm

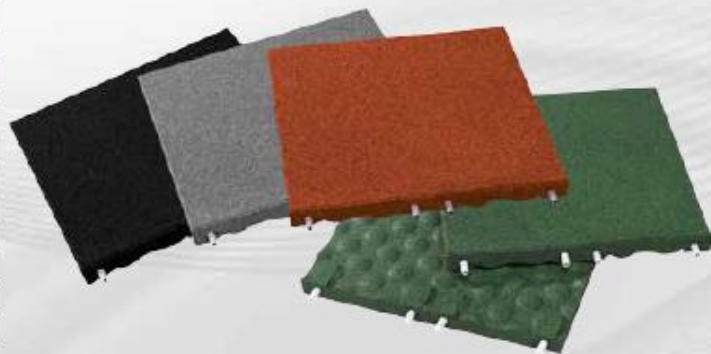
Max. Fall Height [m]	SLAB Thickness [mm]	Dimensions [mm]	Weight approx. [kg/unit]
0.8	25	500 x 500 <sup>(2)</sup> <sup>(3)</sup>	4,4
1.00	30	500 x 500 <sup>(2)</sup>	5,2
1.00	30	500 x 250 <sup>(2)</sup>	2,6
1.20	40	500 x 500 <sup>(2)</sup>	6,5
1.20	40	500 x 250 <sup>(2)</sup>	3,3
1.20	40	1.000 x 500 <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
1.70	60	500 x 500 <sup>(2)</sup>	9,0
2.10	70	500 x 500 <sup>(2)</sup>	10,4
2.10	70	500 x 250 <sup>(2)</sup>	5,2
2.30	80	500 x 500 <sup>(2)</sup>	12,0
2.30	80	500 x 250 <sup>(2)</sup>	6,0
2.60	80	Softsystem	9,5
3.00	90	Softsystem	11,0

### Available standard colours



### Quality to the core

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



-  We turn waste rubber tyres into top quality finished 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.
-  We expect our employees and suppliers to implement sustainable practice in their daily work.