

Playground Safety Tiles (FF)

Playground safety tiles in the 50 × 50 cm format are impact-absorbing flooring surfaces made of PU-bound rubber granulate. The tiles are installed in a staggered bond and connected by plastic connector pins inserted between adjacent rows.

To keep the tile surface permanently stable, the area must be secured with perimeter edging. Alternatively, the connector pins can be glued into the tiles. The tiles can be installed outdoors as well as inside buildings.

The porous, slip-resistant structure of the playground safety tiles ensures good water permeability and prevents puddles from forming. A surface made of safety mats is low-maintenance, easy to clean and durable. Individual tiles can be replaced easily if required.



Product data

Colour	Sky blue	Weight	6.6 kg/piece = 26.4 kg/m²
Fixing system	Connection dowels – plastic dowels	Conversion factor	1 m² = 4 piece
Dimensions	500 x 500 x 40 mm	Usable dimensions	50 x 50 x 4 cm

Properties



Colour Sky blue

Sky blue emerges when black recycled tyre rubber granules are evenly coated with a blue-pigmented PU binder. The opaque coating produces a bright, clear blue with consistent colour coverage. Over time, the pigmented coating may wear, causing the shade to darken.



Material

This product has a two-layer construction and is made from cleaned, black ELT granules bound with a polyurethane binder. ELT stands for “End of Life Tyres” and refers to rubber granules obtained from the recycling of used tyres. The upper wear layer consists of fine ELT granules, forming an abrasion-resistant, slip-resistant surface. The lower layer uses coarser ELT granules to provide elasticity and shock absorption, with good water permeability. For black or anthracite-coloured products, a colourless binder is used.



Fixing system

Plates are connected at the sides by plastic dowels inserted between rows. Installation follows half-bond pattern, with each row offset by half a plate. The dowels prevent lateral shifting between rows. However, they do not prevent drift along the dowel axis, making edge trim mandatory around the perimeter. The result is an even T-joint pattern. Edge trim maintains dimensional stability and prevents the mat from drifting apart across the full installation.

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Characteristics



Frost resistant

Resistant to frost and freezing water within the material – no cracking, tearing or breaking.



140 cm critical fall height (EN 1177:2018)

TÜV-certified playground surface. Safety for private and public areas. Critical fall height: 140 cm.



With UV stabilisation

The ELT rubber granulate contains UV stabilisers. The colour or colour coating does not yellow.



Efl

Reaction to fire according to EN 13501-1: Efl



Indoor & Outdoor

Weather and frost resistant – suitable for versatile indoor and outdoor use.



Toxicologically safe

No impermissible pollutant emissions, initial rubber odour dissipates over time.

Comparative values

Comparing technical data on a scale from 1 to 5 offers a practical way to objectively assess the relevant properties of WARCO products, making it easier to find the most suitable product for the intended application. Detailed information on the scale values and their calculation is available on the product detail page.

Water Permeability (EN 12616) – Rating 5 = Infiltration approx. 1000 mm/h (1000 l/h/m²)

Slip resistance (EN 16165) – Scale value 4 = mean acceptance angle approx. 16°, group R10

Shock, vibration, and impact sound insulation – Scale value 4 = strong damping

Apparent density - scale value 1 = up to 780 kg/m³

Slip resistance class DS (EN 14041) - Scale value 3 = Coefficient of friction approx. 0.45

Compressive strength - Scale value 2 = approx. 0.75 mm residual dent after 24 hours of unloading (BS 7188)

Abrasion resistance – Resistance to abrasive wear – Scale value 4 = "excellent" (BS 7188)

Thermal insulation – Scale value 4 = Thermal conductivity approx. 0.09 W/(m·K)

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