

Playground Safety Tile – 300 cm (FF)

The playground safety tile measuring 50 × 50 × 11 cm is an impact-absorbing surface for playground areas with high fall heights. It is certified according to EN 1177 for fall heights up to 300 cm. The tiles are installed in a staggered pattern on a stable sub-base and connected between adjacent rows using plastic connector pins.

To ensure long-term stability, the surface must be secured with a perimeter edge restraint. Alternatively, the connector pins can be bonded into the tiles. The tile is made of PU-bound ELT rubber granulate with an open-pored structure and provides a slip-resistant, water-permeable and elastic surface. The underside with drainage channels ensures reliable water runoff.



Product data

Colour	Sand beige	Weight	15.65 kg/piece = 62.6 kg/m²
Fixing system	Connection dowels – plastic dowels	Conversion	1 m² = 4 piece
Dimensions	500 x 500 x 110 mm	factor Usable dimensions	50 x 50 x 11 cm

Properties



Colour Sand beige

A beige-pigmented PU binder evenly coats black recycled tyre rubber granules. The opaque coating produces a warm, light sand tone 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



300 cm critical fall height (EN 1177:2018)

TÜV-certified playground surface. Safety for private and public areas. Critical fall height: 300 cm.



Efl

Reaction to fire according to EN 13501-1: Efl



Frost resistant

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



Toxicologically safe

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



With UV stabilisation

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



Indoor & Outdoor

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

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.

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

Shock, vibration, and impact sound insulation – Scale value 5 = excellent damping

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

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

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

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

Thermal insulation – Scale value 5 = Thermal conductivity approx. 0.07 W/(m·K)

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

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