

Playground Safety Tiles (FP)

Playground safety tiles in the 50 × 50 cm format are impact-absorbing surfaces for play areas. They are certified according to EN 1177. The tiles are installed in a staggered bond on a bound base layer or on plastic gravel grid systems and connected with connector pins between adjacent rows.

The tile is made of PU-bound ELT rubber granulate with an increased binder content and a durable structure that provides high wear resistance and excellent dimensional stability outdoors. The drainage structure on the underside ensures reliable water runoff. Individual tiles can easily be replaced if required.



Product data

| | | | |
|---------------|---------------------------------------|-------------------|---|
| Colour | Anthracite | Weight | 6.67 kg/piece = 26.68 kg/m² |
| Fixing system | Plug connector bonded in place | Conversion | 1 m² = 4 piece |
| Dimensions | 500 x 500 x 48 mm | Usable dimensions | 50 x 50 x 4,8 cm |

Properties



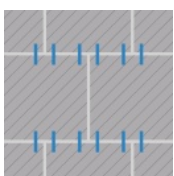
Colour Anthracite

Charcoal brings a deep, warm black tone with a restrained appearance that sits comfortably in modern landscaping and industrial-style outdoor spaces.



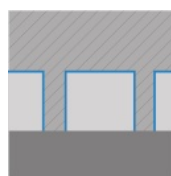
Material

This product is manufactured from recycled tyre rubber granules (ELT) with a grain size of approximately 0.8–3.0 mm. ELT stands for End of Life Tyres. The granules contain natural rubber (NR) and styrene-butadiene rubber (SBR), bonded with a polyurethane binder. Anthracite variants use a clear binder, while coloured versions use a pigmented binder. The surface has a visibly granular texture with pronounced slip-resistant properties.



Fixing system

Plates are installed in half-bond pattern and held together by plastic connectors at the sides, just as in system 1612. The key difference: these connectors are bonded with permanently elastic WARCO polyurethane adhesive, creating a rigid connection. This bonding prevents drift along the connector axis, so edge trim becomes optional. The result is an even T-joint pattern, and the surface remains permanently position-stable without perimeter edging. Faster installation compared to mechanical-only systems.



Structure of the underside

Ring-shaped drainage feet on the bottom surface create a cavity between the tile and the substrate. In outdoor and damp environments, water is able to run off along the slope, and the cavity promotes underside ventilation. On water-permeable base layers, moisture seeps directly into the substrate. The drainage feet also provide elastic load cushioning and support dimensional stability of the tile. Refer to installation guidelines for correct laying procedures.

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Characteristics



Indoor & Outdoor

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



Frost resistant

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



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



170 cm critical fall height (EN 1177:2018)

TÜV-certified playground surface. Safety for private and public areas. Critical fall height: 170 cm.



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.

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)

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

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

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

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

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

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