

Playground safety tile – CFH 120 cm (FP)

The playground safety tile is an elastic play surface with an EPDM wear layer and a critical fall height of 120 cm to BS EN 1177. It suits play equipment of moderate build height at playgrounds, nurseries and school grounds. Tiles are laid in a staggered half-bond pattern on a bound sub-base or on plastic gravel grids; connector pins couple the rows into a firm assembly.

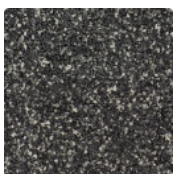
The EPDM surface is colour-fast, weather-resistant and skin-friendly. The functional layer of PU-bound ELT rubber granule provides the shock absorption. Ring-shaped conical feet on the underside let rainwater drain off. The surface needs no maintenance and is easy to clean.



Product data

Colour	Dark Grey Granite	Weight	6.2 kg/piece = 24.8 kg/m²
Fixing system	Plug connector bonded in place	Conversion	1 m² = 4 piece
Dimensions	500 x 500 x 40 mm	factor Usable dimensions	50 x 50 x 4 cm

Properties

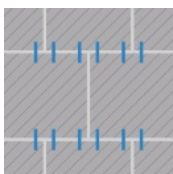


Colour Dark Grey Granite

EPDM granules in several shades of grey and black are bound with a clear, UV-resistant polyurethane binder. The blend produces a shifting, natural-looking colour pattern reminiscent of dark granite. High-quality pigments are fully integrated into the granules, and since EPDM is inherently UV-resistant, the colour remains stable over the long term.

Material

This product has a two-layer construction. The wear layer, approximately 3.3 mm thick, is made from newly manufactured, solution-dyed and non-toxic EPDM granules (Ethylene Propylene Diene Monomer), bound with UV-stabilised polyurethane. The wear layer has an open-pored structure. The base layer consists of cleaned, black recycled tyre rubber granules (ELT) of medium grain size, bound with polyurethane. The abbreviation ELT stands for "End of Life Tyres" – the granules originate from the recycling of used tyres. The base layer is pressed at standard density.



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.



Colourfast and UV-resistant

The surface made of EPDM rubber granules is colourfast and long-term UV-resistant (sun).



Frost resistant

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



120 cm critical fall height (EN 1177:2018)

TÜV-certified playground surface. Safety for private and public areas. Critical fall height: 120 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.


 Abrasion resistance – Resistance to abrasive wear – Scale value 2 = "good" (BS 7188)


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


 Compressive strength - Scale value 1 = approx. 1 mm residual dent after 24 hours of unloading (BS 7188)

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

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

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

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

 Slip resistance class DS (EN 14041) - Scale value 4 = Coefficient of friction approx. 0.53

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