

Playground safety tile – CFH 90 cm (FP)

This impact-absorbing safety tile is used in playgrounds, nurseries and garden play areas where defined fall protection is required. It is installed in a half-bond pattern on bound bases or plastic honeycomb grids and connected using integrated push-fit connectors, which keep the layout aligned and stable without mechanical fixing.

The surface maintains slip resistance in wet conditions and provides a cushioned feel underfoot. The underside structure allows rainwater to drain beneath the tiles, supporting quick drying. The wear layer is weather-resistant and requires minimal maintenance, with simple cleaning and the option to replace individual tiles if needed.



Product data

Colour	Rattan	Weight	5.42 kg/piece = 21.68 kg/m²
Fixing system	Plug connector bonded in place	Conversion	1 m² = 4 piece
Dimensions	500 x 500 x 30 mm	Usable dimensions	50 x 50 x 3 cm

Properties



Colour Rattan

EPDM granules in various shades of brown, beige and sand are bound with a clear, UV-resistant polyurethane binder. The blend of warm earth tones produces a naturally inviting colour pattern with a cosy character reminiscent of woven natural materials. 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 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

The underside of the elements features a structure with drainage channels arranged in a square pattern. These channels connect with those of adjacent elements to facilitate the drainage of rainwater. The elements can be installed on a suitable sub-base, typically a flat, bonded sub-base, but also on a roof waterproofing system or plastic gravel grids. Please refer to the installation guidelines for correct application.

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Characteristics



90 cm critical fall height (EN 1177:2018)

TÜV-certified playground surface. Safety for private and public areas. Critical fall height: 90 cm.



Toxicologically safe

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



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.



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

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

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

Shock, vibration, and impact sound insulation – Scale value 3 = distinct damping

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

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

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

Thermal insulation – Scale value 3 = Thermal conductivity approx. 0.11 W/(m·K)

Michael Schladt
WARCO Bodenbeläge
 Andergasse 17
 67434 Neustadt an der
 Weinstraße

WARCO Gallery
 Klemmhof 9
 67433 Neustadt an der Weinstraße
 Terminvereinbarung erforderlich.

Fachberatung
 06321 9152391

E-Mail: info@warco.eu
 web: www.warco.eu