

Playground safety tile (FS)

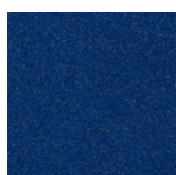
The WARCO playground safety tile is a reliable flooring solution for playgrounds and recreational areas, indoors and outdoors. The 50 × 50 cm format allows fast installation; depending on thickness, the tiles provide certified fall protection up to 300 cm (EN 1177).

The tiles are joined with plastic dowels and laid in a half-offset pattern, creating a stable, attractive play surface with effective shock absorption. Fully water-permeable, the ground is not sealed – no puddles, no dust. Slip resistance, shock absorption and year-round usability ensure comfort and safety. Installation can usually be carried out by the customer – a cost-efficient solution.

Product data

Colour	Gentian Blue	Weight	11.17 kg/Piece = 44.68 kg/m²
Installation	Connecting pins - plastic plugs	Conversion	1 m² = 4 Piece
Packaging	500 x 500 x 100 mm	Useful size	500 x 500 x 100 mm

Properties



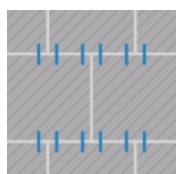
Colour Gentian Blue

Gentian Blue is an intense blue colour that is both vibrant and soothing. The material is made from newly manufactured gentian blue coloured EPDM rubber granules which are UV resistant, free from harmful substances and colour stable. This colour is ideal for environments where a dynamic yet harmonious atmosphere is desired.



Material

The product has a two-layer structure, but is manufactured in a single pressing process, making it monolithic. The bottom layer, known as the functional layer, is made of black rubber granulate derived from the recycling of end-of-life tyres (ELT). Chemically, this granulate consists of a mixture of natural rubber (NR) and styrene-butadiene rubber (SBR). The top layer, known as the tread, is made from newly manufactured, fully coloured and toxin-free EPDM (ethylene-propylene-diene rubber) granules. This product meets the highest standards of safety, durability and functionality.



Installation

On two sides - between each row of tiles - the tiles are connected by means of lateral connecting pins (plastic plugs). The tiles must be laid in a half-bond pattern, i.e. each row of tiles is offset by half a tile (T-joint). In this pattern, each tile is connected to two tiles in the row above and two tiles in the row below using plastic plugs. These plugs prevent lateral movement of the tiles, but do not restrict movement along the longitudinal axis of the plugs. For this reason, a perimeter edging must be installed around the tiled surface.



Structure of the underside

The underside of the tile features an embossed pattern of inverted truncated pyramids. These truncated pyramids, approximately 75 mm high, are specifically designed to enhance the tile's weather resistance, dimensional stability and shock-absorbing properties, while ensuring efficient water drainage in outdoor applications. The tiles can be installed on solid surfaces such as concrete, asphalt, interlocking paving or flagstones, as well as on roof waterproofing systems or plastic grass meshes. Please refer to the installation guidelines for correct application.

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Characteristics



Colourfast and UV-resistant

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



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.



300 cm critical fall height (EN 1177:2018)

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



Suitable for chlorinated water

Good resistance to chlorinated water, chlorinated cleaning agents and swimming pool water.



Toxicologically safe

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



Cfl-s1

Fire behaviour according to EN 13501-1: Cfl-s1
Limited contribution to fire – Low smoke emission

Comparative values

The comparison of technical data on a scale from 1 to 5 provides a practical way of objectively comparing 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 can be found online on the product detail page.



Water Permeability (EN 12616) – Rating 4 = Infiltration approx. 600 mm/h (600 l/h/m²)



Slip resistance class DS (EN 14041) - Scale value 5 = Coefficient of friction approx. 0.6



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



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



Apparent density - scale value 2 = 780 to 840 kg/m³



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)



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

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