

Playground Safety Tile 3cm - EN 1177 ≤ 100 cm (FS)

The 3cm thick Playground Safety Tile is designed for small playgrounds, terraces or play islands up to approx. 70m². It can be used indoors or outdoors and is certified to EN1177 for shock absorption up to 100cm.

The slip-resistant surface ensures secure footing, even when wet. The structured underside supports drainage. The tiles are laid in a half-offset pattern and connected using plastic dowels, which are included. This low-maintenance and durable safety surfacing solution is particularly cost-efficient for compact installations.



Product data

Colour	Anthracite	Weight	4.8 kg/Piece = 19.2 kg/m²
Installation	Connecting pins - plastic plugs	Conversion	1 m² = 4 Piece
Packaging	500 x 500 x 30 mm	Useful size	500 x 500 x 30 mm

Properties



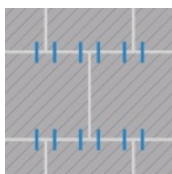
Colour Anthracite

The colour "Anthracite" corresponds to the typical shade of the black rubber particles found in ELT (End of Life Tyres) granulate, which is produced during the recycling of used tyres and forms the basis of this product. Over time, this colour can change from a deep black to a slightly lighter anthracite. Anthracite is particularly suitable for outdoor areas such as walkways, stables or sports facilities and is the most commonly chosen colour in the fitness industry. Anthracite blends harmoniously into a variety of environments and offers a modern, understated design that is resistant to dirt and wear.



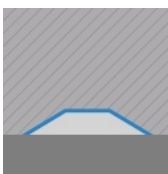
Material

The product consists of black rubber granules and a polyurethane binder. The rubber granules used come from the recycling of used tyres, which is why they are called ELT (End of Life Tyres) granules. This origin gives the granulate its typical black or anthracite colour. Chemically, ELT is a blend of natural rubber (NR) and styrene butadiene rubber (SBR). A colourless binder is used for the anthracite products, while a coloured binder is used for the coloured variants, giving the black granules a coloured coating.



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 15 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



Efl

Fire behaviour according to EN 13501-1: Efl
Acceptable fire behaviour



100 cm critical fall height (EN 1177:2018)

TÜV-certified playground surface. Safety for private and public areas. Critical fall height: 100 cm.



With UV stabilisation

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



Indoor and Sheltered Outdoor Areas

Suitable for indoor and sheltered outdoor areas.
Avoid waterlogging and continuous moisture exposure.



Toxicologically safe

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



Frost resistant

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

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.

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

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

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

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

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

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

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