



Playground safety tile – 140 cm (FS)

This 4.5 cm thick playground safety tile provides certified impact protection up to a critical fall height of 140 cm (BS EN 1177). It is suitable for indoor and outdoor play and recreational areas and is installed in a half-bond pattern using plastic interlocking connectors. A continuous perimeter edging is required to ensure long-term stability.

The profiled underside supports effective drainage and helps keep the surface usable in wet conditions. UV-stabilised, slip-resistant and easy to maintain, the tile offers a durable and cost-effective surfacing solution for safe play areas and playgrounds.

Product data

Colour	Slate grey	Weight	6.17 kg/Piece = 24.68 kg/m²
Installation	Connecting pins - plastic plugs	Conversion	1 m² = 4 Piece
Packaging	500 x 500 x 45 mm	Useful size	500 x 500 x 45 mm

Properties



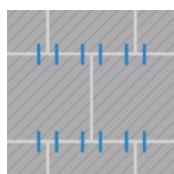
Colour Slate grey

The Slate grey colour is an intense dark grey that resembles the natural appearance of slate. This colour is achieved by using a coloured binder to coat the ELT particles (black rubber granules from scrap tyre recycling). Slate grey is an elegant, neutral colour that is perfect for modern and industrial designs. It can be used on walkways, in urban areas or on terraces to create a subdued yet stylish atmosphere. This colour works well with other neutral or bold colours to create a harmonious overall look. The colour coating will fade over time.



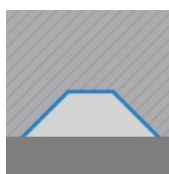
Material

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 28 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



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.



Toxicologically safe

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



140 cm critical fall height (EN 1177:2018)

TÜV-certified playground surface. Safety for private and public areas. Critical fall height: 140 cm.



Efl

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



With UV stabilisation

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

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.

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

Slip resistance class DS (EN 14041) - Scale value 2 = Coefficient of friction approx. 0.38

Water Permeability (EN 12616) – Rating 3 = Infiltration approx. 300 mm/h (300 l/h/m²)

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

Apparent density - scale value 3 = 840 to 900 kg/m³

Abrasion resistance – Resistance to abrasive wear – Scale value 5 = "outstanding" (BS 7188)

Compressive strength - Scale value 3 = approx. 0.5 mm residual dent after 24 hours of unloading (BS 7188)

Michael Schladt
WARCO Gulvbelægninger
Andergasse 17
67434 Neustadt an der
Weinstraße

WARCO Gallery
Klemmhof 9
67433 Neustadt an der Weinstraße
Onsdag til fredag, 10:00 - 16:00

Faglig rådgivning
+49 6321 9152391

E-mail: info@warco24.dk
Internet: www.warco24.dk