

Playground safety tile – 100 cm (FS)

This 3 cm thick playground safety tile provides certified impact protection up to a critical fall height of 100 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 structured underside supports effective drainage and helps keep the surface usable in wet conditions. Durable, slip-resistant and easy to maintain, the tile offers a cost-effective and reliable surfacing solution for play areas and playgrounds.

Product data

Colour	Lemon Yellow	Weight	5.05 kg/Piece = 20.2 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



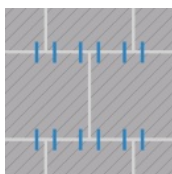
Colour Lemon Yellow

The Lemon Yellow colour is characterised by a vibrant and bright yellow hue that resembles the fresh colour of ripe lemons. This colour gives the product a warm and cheerful appearance. The rubber granules are made from newly manufactured yellow-coloured EPDM, which is UV-resistant, non-toxic and highly colour stable. Lemon Yellow is particularly suitable for environments where an uplifting and friendly atmosphere is desired.



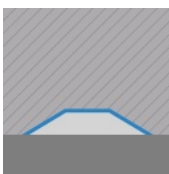
Material

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 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.

Playground safety tile – 100 cm (FS)

Characteristics



100 cm critical fall height (EN 1177:2018)

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



Suitable for chlorinated water

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



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.



Colourfast and UV-resistant

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



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.

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

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

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

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

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

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

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

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