

Playground Safety Mat (XT)

The Playground Safety Mat is an elastic surface covering for play areas in nurseries, indoor playrooms and outdoor spaces. It is installed as a loose-laid system on a suitable substrate and connected via a precision interlocking puzzle connection that produces a virtually invisible hairline joint.

The two-layer construction combines a UV-stabilised EPDM rubber granulate wear layer with a base layer of ELT rubber granules made from recycled tyre rubber. The surface is slip-resistant and water-permeable. It reduces noise and cushions falls during play, and can be cleaned easily with a brush or water.



Product data

Colour	English Lawn	Weight	2.86 kg/piece = 13.52 kg/m²
Fixing system	Optimised jigsaw interlock without bevel	Conversion	1 m² = 4.73 piece
Dimensions	485 x 485 x 18 mm	Usable dimensions	46 x 46 x 1,8 cm

Properties



Colour English Lawn

Products in English Lawn are manufactured using EPDM rubber granules in several green and dark green shades with a clear, UV-stabilised PU binder. The colour blend creates a dense green appearance reminiscent of maintained lawn surfaces. Because EPDM is naturally UV-resistant and the pigments are fully integrated into the granules, the colour retains its appearance even under sunlight and abrasion.

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 coarse grain size, bound with polyurethane. The abbreviation ELT stands for "End of Life Tyres" – the granules are derived from the recycling of used tyres. The base layer is pressed at low density.

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Characteristics



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.



Indoor & Outdoor

Weather and frost resistant – suitable for versatile indoor and outdoor use.



Colourfast and UV-resistant

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



Cfl-s1

Reaction to fire according to EN 13501-1: Cfl-s1 Limited contribution to fire. Low smoke production.

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.

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

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

Thermal insulation – Scale value 2 = Thermal conductivity approx. 0.12 W/(m·K)

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

Apparent density - scale value 1 = up to 780 kg/m³

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

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

Shock, vibration, and impact sound insulation – Scale value 2 = comfortable damping

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