Article no.: **6203**

Playground Safety Tiles (FF)



Type FF Playground Safety Tiles cushion the impact of a fall on a playground. Each thickness is tested to BS EN 1177 to establish its critical fall height. Each tile has two layers of rubber granules bonded with polyurethane: a fine-grained, abrasion-resistant and slip-resistant wearing layer, and a shock-absorbing body of coarser granules.

Playground Safety Tiles are laid using a half-bond installation with the supplied push-fit connectors. The area should have a fixed edge restraint around its perimeter. The tiles can be laid on concrete, asphalt, block paving or an unbound sub-base. Rainwater drains through the tiles. Cut them with a circular saw or jigsaw.

Product data

Colour	**Grass green**	Weight	**9.3 kg/piece = 37.2 kg/m²**
Installation	**Plastic connecting pins**	Conversion factor	**1 m² = 4 piece**
External dimensions	**500 x 500 x 60 mm**	Net size when interlocked	**50 x 50 x 6 cm | 0,25 m²**

Properties



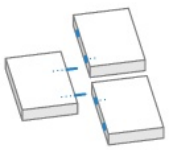
Colour Grass green

Grass green is a strong mid green for surfaces that are meant to look natural. The binder is pigmented green. It binds the black rubber granules from end-of-life tyres and coats the surface of each granule. Black may show through at some points, depending on compaction. Early wear may show as black dots. Heavy use or the passage of time may then remove the coating completely in those areas.



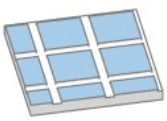
Material

The product has two layers: a visible wearing layer on top and a base layer beneath it. The wearing layer consists of fine to medium recycled rubber granules with a granule size of 0.5–2.5 mm, the base layer of coarse recycled rubber granules of 2–4 mm. In both layers, the granules are cleaned rubber recovered from end-of-life tyres (ELT), consisting of natural rubber (NR) and styrene-butadiene rubber (SBR). A PU binder is used in both layers, clear in the black and anthracite versions and pigmented in the coloured ones. The surface of the wearing layer is finely textured.



Installation

Plastic connecting pins are cylindrical and have a profiled surface. They are fitted into factory-drilled holes on two opposite sides of each tile. The tiles are laid in a half-bond installation. Each tile is therefore connected by plastic connecting pins to two tiles in the preceding row and two in the following row. Across the pin axis, the pins restrain tile movement, but they do not restrain movement along the axis. The tiled area therefore requires a fixed edge restraint.



Underside

The underside is divided into square pads, with shallow drainage channels running between them in a right-angled grid. The channels run right to the edge and line up with those of the adjacent tiles. Outdoors and in damp environments, water can run along the channels, following the gradient. On a water-permeable sub-base it soaks away directly into the ground. Please refer to the installation instructions.

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Properties



Efl
Normally flammable.



UV-stabilised
ELT granules are UV-stabilised. Some coating shades may change slightly outdoors.



Harmful substance limits met
Meets EU limits for harmful substances. Initial rubber odour diminishes.



Critical fall height 180 cm (BS EN 1177)
Impact attenuating playground surfacing – certified safety surfacing for private and public play areas.



Indoor and outoor use
Frost-resistant, suitable for indoor and outdoor use.



Frost-resistant
Tolerates frost and freezing pore water without bursting, cracking or breaking.

Technical data

The key technical properties of WARCO products are rated on a scale of 1 to 5. This allows products intended for the same application to be compared directly. The relevant product page explains how each rating is determined.

Apparent density – Rating 1: up to 780 kg/m³

Compressive strength – Rating 2: permanent indentation of approximately 0.75 mm after 24 hours' recovery (BS 7188)

Abrasion resistance – Rating 4: very high (BS 7188)

Dynamic friction class DS (BS EN 14041) – Rating 3: dynamic coefficient of friction approx. 0.45

Thermal insulation – Rating 5: thermal conductivity approximately 0.07 W/(m·K)

Slip resistance (BS EN 16165) – Rating 4: mean acceptance angle approx. 16°, R10 classification

Shock absorption and vibration damping, footstep sound reduction – Rating 5: very high damping

Water permeability (BS EN 12616) – Rating 5: infiltration approx. 1,000 mm/h (1,000 l/(m²·h))

WARCO SAFETY FLOORING LTD

8 Blackstock Mews
London N4 2BT

WARCO Gallery
Klemmhof 9
67433 Neustadt an der Weinstraße
Please arrange an appointment

Technical Consultation
T: 0117 205 0269

E: info@warco-tiles.com
W: www.warco-tiles.com

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