



## Kick protection wall mat – impact protection mat (FS)

The WARCO kick protection wall mat – impact protection mat provides reliable protection against injuries, damage and noise. Elastic PU-bonded rubber granules and a profiled back act as a progressive damping system: impact energy is absorbed, joints are protected and wall structures are relieved.

Each mat measures 100 × 100 cm and is available in thicknesses of 3, 4 and 4.5 cm. Installation is by gluing to walls or carrier boards. The mats are durable, robust and easy to clean – simply use a pressure washer. Direct screwing is not possible; concealed hooks or connector clips may be used. If required, mats can be cut with a circular saw or jigsaw using a blade for rubber or wood.

### Product data

Colour	<b>Brick red</b>	Weight	<b>19.5 kg/Piece = 19.5 kg/m<sup>2</sup></b>
Installation	<b>Connecting pins - plastic plugs</b>	Conversion	<b>1 m<sup>2</sup> = 1 Piece</b>
Packaging	<b>1000 x 1000 x 30 mm</b>	Useful size	<b>1000 x 1000 x 30 mm</b>

### Properties



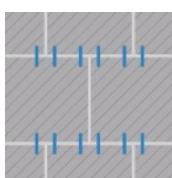
#### Colour Brick red

Brick red is an intense, warm red-brown colour similar to the colour of fired bricks. This colour is achieved by using a coloured binder to coat the ELT particles (black rubber particles from recycled scrap tyres). Brick red is a traditional colour that is ideal for a wide range of applications where a rustic yet modern accent is required. Typical applications include terraces and balconies, sports facilities, playgrounds and stables. Over time, the colour coating will wear off with use.



#### 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



#### Toxicologically safe

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



#### 90 cm critical fall height (EN 1177:2018)

TÜV-certified playground surface. Safety for private and public areas. Critical fall height: 90 cm.



#### Frost resistant

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



#### 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.



#### Indoor and Sheltered Outdoor Areas

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

### 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.

Water Permeability (EN 12616) – Rating 4 = Infiltration approx. 600 mm/h (600 l/h/m<sup>2</sup>)

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/m<sup>3</sup>

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

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

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

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

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

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