

SHIELDTAC®



Benefits & Features

- ✓ Tested to absorb projectiles up to 10,000 joules, reliably preventing ricochets and stray bullets
- ✓ Versatile use on walls, ceilings and floors of shooting ranges
- ✓ Optionally available with PU coating for a smooth, seamless floor surface (SHIELDTAC® ricosys)
- ✓ Robust and durable, only minor impact marks are created and damaged tiles can be easily replaced.
- ✓ Easy to clean and install indoors and outdoors
- ✓ Improved acoustics in shooting ranges, thanks to high sound absorption up to α_w 0.75
- ✓ The factory-installed connectors ensure a form-fitting connection between the panels and significantly increase the overall stability of the system.

Shooting protection

- ✓ From 200 to 10,000 joules in accordance with shooting range guidelines for military, law enforcement and civilian indoor and outdoor shooting ranges

[DOWNLOAD INSTALLATION RECOMMENDATION](#)

Product data sheet no. 9142 - R-05 | Issue: February 2026
 previous product names: SPORTEC® shooting
 SporTec Shooting Euroflex G

SHIELDTAC® ricotile

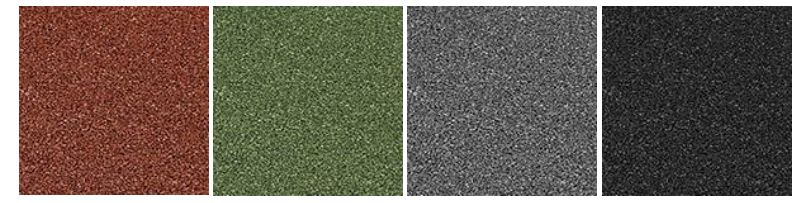
The SHIELDTAC® ricotile, *previously known as SPORTEC® shooting*, is suitable for floor, wall and ceiling coverings in indoor and outdoor shooting ranges. The rubber tiles are available in thicknesses of **40**, **43** and **70** mm and effectively absorb projectiles up to 10,000 joules, thereby preventing dangerous ricochets and stray bullets. When used on floors, the tiles can also be coated with PU. As part of our SHIELDTAC® ricosys system, this creates a closed, jointless surface that prevents the penetration of powder residues, facilitates cleaning and reduces the risk of fire. In addition, SHIELDTAC® ricotile tiles with a sound absorption coefficient of up to α_w 0.75 contribute significantly to the acoustic insulation of the facility.

Material

Material	PU-bonded rubber
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Product Design

Colour(s)	Red and black (all thicknesses) Green and grey (40mm only)
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low colour differences are conditional of material

Dimensions / Weight / Tolerances

Thickness(es):	40 mm (± 2 mm) 43 mm (± 2 mm) 70 mm (± 2 mm)
Length x width x height:	500 x 500 x 40 mm 500 x 500 x 70 mm 1.000 x 500 x 40 mm 1.000 x 500 x 43 mm Tolerances: Length/Width: ± 0.8% / Height: ± 2mm
Tile Weight:	approx. 6.8 kg (at 500 x 500 x 40 mm) approx. 10.4 kg (at 500 x 500 x 70 mm) approx. 13.5 kg (at 1000 x 500 x 40 mm) approx. 17.5 kg (at 1000 x 500 x 43 mm)
Density:	approx. 820 kg/m ³

Product Testing

Fire resistance	E _{fi} (DIN EN 13501-1)
Shooting protection	Tested by the Munich Ballistics Testing Centre and meets the requirements for military, official and civilian shooting ranges (Test report no. B-31/2009)
Energy range	From 200 to 10,000 J (DSB shooting range guideline no. 5.5.3.3, 1995 edition, status 01.2000) for military, official and civilian shooting ranges
VOC-emission rating	French VOC Regulation AFFSET (A+)
Anti-slip property	R 10 (DIN EN 16165)
Tensile strength	min. 0,75 N/mm ² (EN ISO 1798)
Elongation at break	min. 50 % (EN ISO 1798)
Hardness	60 ± 5 Shore A (DIN 53505)
Resistance	Conditional: acids & alkalis (internal tested) Resistant: salt water (DIN EN ISO 175)
Temperature range	-30°C bis 80°C (internal tested)
Wear behaviour	rV 5.9 (DIN V 18035-6)
Electrostatic properties	0.5 kV (EN 1815:2016) (antistatic)
sound absorption coefficient	0,75 α _w

Test setup						
Product	Thickness (mm)	Distance to the wall (mm)	Special feature			
SHIELDTAC® ricotile	40	50	underside facing up			
Sound absorption						
frequency [Hz]						
125	250	500	1000	2000	4000	α _w
0,15 α _p	0,5 α _p	0,9 α _p	0,75 α _p	0,8 α _p	0,85 α _p	0,75*

* (measured according to DIN EN ISO 354:2003-12 and evaluated according to DIN EN ISO 1654:1997-07); corresponds to **class C** based on calculations.

Absorption behavior with a **focus on the mid and high frequency range (500–4000 Hz)**. This effectively reduces the reflection of gunshot noise and reverberation in enclosed shooting ranges.

Storage Advice

The goods should be stored in a dry room with good air circulation to prevent moisture and mold growth. The protective foil must also be removed when the goods arrive to ensure proper ventilation and to prevent condensation.

Installation

Installation has to be done in accordance to the installation recommendation of **SHIELDTAC® ricotile**. The latest version of the Installation Recommendation can be downloaded at the website of KRAIBURG Relastec GmbH & Co. KG.