



Benefits & Features

- ✓ Tested to absorb projectiles up to 7,000 joules, reliably preventing ricochets and rebound of bullets.
- ✓ Flame retardant with low smoke emission (Cfl-s1) – reduces fire and smoke risks in enclosed shooting ranges.
- ✓ Improved acoustics in shooting ranges, thanks to high sound absorption up to α_w 0.60.
- ✓ Robust and durable, only minor impact marks are created.
- ✓ Easy to clean, quick to install, simple to renew or replace
- ✓ The factory-installed connectors ensure a form-fitting connection between the tiles and significantly increase the overall stability of the system.

Government & Defence

- ✓ NATO CAGE-registered manufacturer (NCAGE: **CF121**)

**DOWNLOAD INSTALLATION
RECOMMENDATION**

Product data sheet no. 9178 - R-05 | Issue: September 2026
previous product names: SPORTEC® shooting FR

SHIELDTAC® ricotile FR

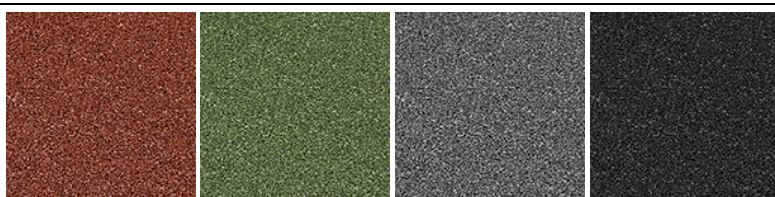
SHIELDTAC® ricotile FR, previously known as **SPORTEC®** shooting FR, is suitable for floor, wall and ceiling coverings in indoor and outdoor shooting ranges.

Material

Material	PU-bonded rubber
Connector Pins	8 pcs/tile

Product Design

Colour(s)	red, green, grey and black
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low colour differences are conditional of material

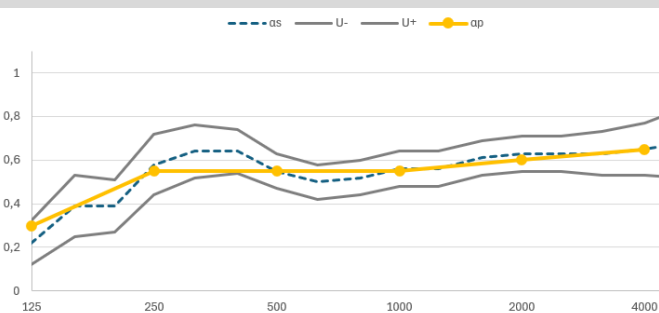
Surface	open-pored smooth, bevelled edges
Lower side	smooth with St. Andrew's Cross pattern

Dimensions / Weight / Tolerances

Thickness:	43 mm ($\pm$ 2 mm)
Length x width	1000 mm / 500 mm ($\pm$ 0.8 %)
Area weight:	approx. 36.8 kg/m ²
Tile weight:	approx. 18.4 kg
Density:	upon request

Product Testing

Fire resistance	Cfl-s1 (DIN EN 13501-1)
VOC-emission rating	French VOC Regulation AFFSET (A+)
Anti-slip property	R 10 (DIN EN 16165)
Step sound insulation	23 dB (DIN EN ISO 10140-3:2021-09)
Tensile strength	min. 0.75 N/mm ² (EN ISO 1798)
Elongation at break	min. 50 % (EN ISO 1798)
Hardness	60 $\pm$ 5 Shore A (DIN 53505)
Temperature range	-30°C to 80°C (internal tested)



Sustainability

Recycling content > 80%

Storage Advice

The goods should be stored indoors in a dry, clean, and well-ventilated area to prevent moisture and mould growth. Direct sunlight, UV exposure, strong heat sources and significant temperature fluctuations should be avoided. We recommend that the protective foil should be opened or partially removed upon delivery to ensure adequate air circulation whilst ensuring that the goods should remain sufficiently covered to protect them from dust and other contaminants.

Installation

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

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Electrostatic properties 0,0 kV (EN 1815:2016) (antistatic)

Sound absorption coefficient 0,60 α_w

Test setup						
Product		Thickness (mm)	Distance to the wall (mm)		Special feature	
SHIELDTAC® ricotile FR		43	50		-	
Sound absorption						
frequency [Hz]						
125	250	500	1000	2000	4000	α_w
0.30 α_n	0.55 α_n	0.55 α_n	0.55 α_n	0.60 α_n	0.65 α_n	0.60*

* (measured according to DIN EN ISO 354:2003-12 and evaluated according to DIN EN ISO 11654:1997-07); corresponds to **class C** based on calculations.

Absorption behavior with a **focus** on the **mid** and **high frequency range (250–4000 Hz)**. This effectively reduces the reflection of gunshot noise and reverberation in enclosed shooting ranges.

Ballistic Tests

Testing Institute	Test basis
HTBLVA Ferlach, Austria	In accordance with VPAM ARG 3 based on customer specifications, Test report 201325, Energy range: 200–7,000 J

We can provide further information and full test reports upon request.

Note: **SHIELDTAC® ricotile FR** is intended for projectile energies of 200 J or more.