



## Benefits & Features

- ✓ Tested to absorb projectiles up to 7,000 joules, thereby reliably preventing ricochets and stray bullets

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- ✓ Versatile use in walls, ceilings and floors of shooting ranges

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- ✓ Flame retardant with low smoke emission (Cfl-s1) – reduces fire and smoke risks in enclosed shooting ranges

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- ✓ Robust and durable, only minor impact marks are created, and damaged tiles can be easily replaced.

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- ✓ Easy to clean and install indoors and outdoors

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- ✓ Improved acoustics in shooting ranges, thanks to high sound absorption up to  $\alpha_w$  0.60

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- ✓ 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 J to 7,000 J (based on VPAM-ARG 3) for firing angles of 90°, 25° and 10°

[DOWNLOAD INSTALLATION RECOMMENDATION](#)

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

# SHIELDTAC® ricotile FR

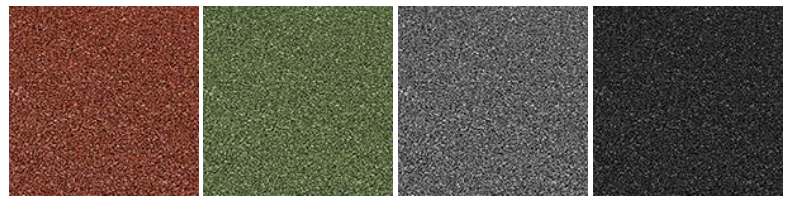
SHIELDTAC® ricotile FR, previously known as SPORTEC® shooting FR, is suitable for floor, wall and ceiling coverings in indoor and outdoor shooting ranges. Achieving a Cfl-s1 fire class, SHIELDTAC® ricotile FR effectively absorb projectiles up to 7,000 joules, preventing dangerous ricochets and stray bullets. In addition, SHIELDTAC® ricotile FR benefits from a sound absorption coefficient of up to  $\alpha_w$  0.60 which contributes significantly to the acoustic insulation of the facility.

## Material

|          |                  |
|----------|------------------|
| Material | PU-bonded rubber |
|----------|------------------|

## Product Design

|           |                         |
|-----------|-------------------------|
| Colour(s) | red, green, grey, black |
|-----------|-------------------------|



low colour differences are conditional of material

## Dimensions / Weight / Tolerances

|                |                                |
|----------------|--------------------------------|
| Thickness:     | 43 mm (± 2 mm)                 |
| Length x width | 1000 mm / 500 mm (± 0.8 %)     |
| Area weight:   | approx. 36.8 kg/m <sup>2</sup> |
| Tile weight:   | approx. 18.4 kg                |
| Density:       | approx. 860kg/m <sup>3</sup>   |

## Product Testing

|                              |  |
|------------------------------|--|
| Fire resistance              | C <sub>fi</sub> -s1 (DIN EN 13501-1)   |
| Shooting protection          | Tested at HTBVLA Ferlach according to customer specifications (test report no. 201325) |
| Energy range                 | From 200 J to 7,000 J (based on VPAM-ARG 3) for firing angles of 90°, 25° and 10°      |
| VOC-emission rating          | French VOC Regulation AFFSET (A+)  |
| Anti-slip property           | R 10 (DIN EN 16165)  |
| Tensile strength             | min. 0.75 N/mm <sup>2</sup> (EN ISO 1798)  |
| Elongation at break          | min. 50 % (EN ISO 1798)  |
| Hardness                     | 60 ± 5 Shore A (DIN 53505)   |
| Temperature range            | -30°C bis 80°C (internal tested)   |
| Electrostatic properties     | 0,0 kV (EN 1815:2016) (antistatic)   |
| Sound absorption coefficient | 0,60 α <sub>w</sub>  |

| Test setup                |                     |                           |                     |                     |                     |                |
|---------------------------|---------------------|---------------------------|---------------------|---------------------|---------------------|----------------|
| Product                   | Thickness (mm)      | Distance to the wall (mm) |                     | Special feature     |                     |                |
| SHIELDTAC®<br>ricotile FR | 43                  | 50                        |                     | -                   |                     |                |
| Sound absorption          |                     |                           |                     |                     |                     |                |
| frequency [Hz]            |                     |                           |                     |                     |                     |                |
| 125                       | 250                 | 500                       | 1000                | 2000                | 4000                | α <sub>w</sub> |
| 0,30 α <sub>p</sub>       | 0,55 α <sub>p</sub> | 0,55 α <sub>p</sub>       | 0,55 α <sub>p</sub> | 0,60 α <sub>p</sub> | 0,65 α <sub>p</sub> | 0,60*          |

\* (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 (250–4000 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 mould growth. The protective film must also be removed when the goods arrive to ensure proper ventilation and prevent condensation.

## 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.