

▮ protect – Heavy-Duty Structural Protection Mats

Product Data Sheet

No. 9204 - R - 10

Issue: Jan. 2011

1. Application Sectors

KRAITEC® protect is a heavy-duty structural protection mat used as a cushioning and shielding layer in demanding applications. It provides outstanding physical protection in compliance with DIN 18195 Part 10 in a variety of structures including tunnels, parking garage decks, flat roofs and green roofs.

KRAITEC® protect is recommended as well for use under noncontinuous surfacing such as spaced-slat (duckboard) flooring on terraces, balconies, etc..

2. Material

Premium-grade recycled rubber crumbs (odourless), bonded with polyurethane.

3. Appearance / Surface Texture

Colour: multicoloured
Surface: grain-textured

4. Standard Dimensions / Tolerances

| | | |
|------------------------------|-------------------|----------|
| Length (individual mats): | 2300 mm | ± 1.5 % |
| Width (individual mats): | 1150 mm | ± 1.5 % |
| Thickness (individual mats): | 6, 8, 10 | ± 0.6 mm |
| | 12, 15, 18, 20 mm | ± 1 mm |

| | | |
|-----------------------------|------------|----------|
| Length (roll-form mats): | as ordered | ± 1.5 % |
| Width (roll-form mats): | 1250 mm | ± 1.5 % |
| Thickness (roll-form mats): | 6, 8, 10 | ± 0.6 mm |
| | 12, 15 mm | ± 1 mm |

Density: approx. 1050 kg/m³

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5. Test Data

Tensile strength: approx. 0.8 N/mm² (DIN EN ISO 1798)

Elongation at break: approx. 125 % (DIN EN ISO 1798)

Fire resistance: E_{fl} (EN 13501-1)

Service temperature range: - 30 °C to + 80 °C

Chemical resistance: conditionally resistant to acids and bases

Environmental resistance: rot-proof and water-resistant

Resistance to impact: drop height \geq 2500 mm
for mats 6 mm and thicker (EN 12691)

Puncture resistance: drop height:
for 12 mm thick mat = 1.90 m (SIA 280)

Compression
under traffic load: 10 % at approx. 38 t/m²
20 % at approx. 80 t/m²
(test method based on DIN EN ISO 3386-2)

Coefficient of
thermal expansion: approx. $10 \times 10^{-5} / ^\circ\text{C}$ (test method based on DIN EN 13471)
= 1 mm length change per 1000 mm for $\Delta T = 10 \text{ K}$

Salt water resistance: Fully resistant (DIN EN ISO 175, DIN EN ISO 3386-2)

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6. Installation

Install in accordance with the *KRAITEC® protect* installation instructions.

DISCLAIMER:

The information and data given above are provided to the best of our knowledge based on our test results and experience to date. However, due to the multitude of possible applications and storage, processing and site conditions which are beyond our control, this information and data shall not be construed as a guarantee of any kind for installed KRAITEC® products or their performance in an intended application. Users are advised to carry out their own tests to evaluate suitability for their specific application.

Our Technical Service department will gladly provide further information or assistance as required.

This data sheet is not subject to an update service. All information and data are provided without engagement on our part.

Please visit www.kraiburg-relastec.de to download the currently valid version.

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