

# KRAITEC<sup>®</sup> step

## Description:

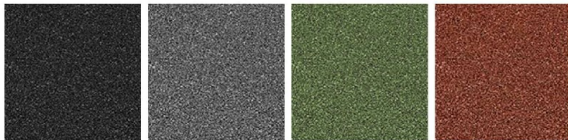
**KRAITEC<sup>®</sup> step** is a rubber granulate tile specifically designed for protection of waterproofing membranes on flat roofs (e.g. walkways for roof maintenance), balconies and terraces.

**KRAITEC<sup>®</sup> step** is also used as a supporting underlay under systems installed on roofs (e.g. solar power units, antennas, etc.).

## Material:

Polyurethane-bonded recycled tyre Granulate.

## Product Design:



Colours:  
Black, grey, green, red

Surface: smooth with open pores, chamfered edges  
Lower side: smooth with open pores, with drainage channels

## Dimensions / Tolerances / Weight:

Length x Width x Thickness: 500 mm x 500 mm, 30mm  
Tolerances: length/width  $\pm$  1.5%,  
thickness  $\pm$  2 mm  
Weight slab: approx. 5.2kg  
Area weight: approx. 20.8 kg/m<sup>2</sup>

## Installation:

Install in accordance with the **KRAITEC<sup>®</sup> step** installation instructions.

## Other:

Plastic connector pins included, receiving holes drilled on two sides (The Standard Colour can be drilled on four sides on request).

## Product Testing:

Fire resistance: Efl (B2) (EN 13501-1)  
Broof(t1) (DIN EN 13501-5)

Chemical resistance:  
conditionally resistant to acids and bases  
Environmental resistance: rot-proof and water-resistant

Compression under traffic load:  
10 % at approx. 18 t/m<sup>2</sup>  
20 % at approx. 38 t/m<sup>2</sup>  
(test method based on DIN EN ISO 3386-2)

Water permeability:  
given by open pores

Water drainage capacity:  
at hydraulic gradient  $i = 0,015$ :  
0.037 L/(m. s) in direction of drainage channels  
0.022 L/(m. s) in transverse direction  
(test method based on DIN EN ISO 12958)

at hydraulic gradient  $i = 0,05$ :  
0.097 L/(m. s) in direction of drainage channels  
0.070 L/(m. s) in transverse direction  
(test method based on DIN EN ISO 12958)

Frost-resistant: yes

Coefficient of thermal expansion: am ca.  $10 \times 10^{-5}/^{\circ}\text{C}$

Salt water resistance:  
Fully resistant (DIN EN ISO 175, DIN EN ISO 3386-2) UV-Resistance:  
Fully resistant (DIN EN ISO 1297, DIN EN ISO 3386-2)  
(Colour variations are possible due to environmental influences.)

Anti-slip properties:  
C (DIN 5109, wet loaded Barefoot Areas )  
R10 (For work rooms and work areas with danger of slipping according to DIN 51130: 2014-02)

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

Sound Insulation:  
The readings have been raised with the full specified layer structure in a laboratory measurement.

Impact Sound Insulation:  
The readings have been raised with the full specified layer structure in a laboratory measurement.  
(In accordance with ISO 10140)



<b>Warm Roof</b>		
<b>PIR-insulation 140mm</b>	Waterproofing: Bituminous roofing membranes	Waterproofing: TPO or PVC single ply membranes
Impact sound insulation improvement	$\Delta L_w = 27$ dB	$\Delta L_w = 32$ dB
Layer structure (top to bottom)	<ul style="list-style-type: none"> <li>– <b>KRAITEC® step</b></li> <li>– Modified bitumen waterproofing cap sheet</li> <li>– Modified bitumen waterproofing base sheet</li> <li>– PIR thermal insulation (140mm)</li> <li>– Modified bitumen vapour barrier</li> </ul>	<ul style="list-style-type: none"> <li>– <b>KRAITEC® step plus</b></li> <li>– TPO or PVC single ply waterproofing membrane</li> <li>– Modified bitumen waterproofing base sheet</li> <li>– PIR thermal insulation (140mm)</li> <li>– Modified bitumen vapour barrier</li> </ul>

**Water permeability:**

Water permeability: (perpendicular to the plane)

	Coefficient of water permeability $k_v$ , const. at 20°C	Permittivity At 20°C
2 kPa	0,0039m/s	0,14 1/s

(DIN 60500-4)



**Equus Industries Ltd**  
**PO Box 601**  
**Blenheim**  
**Phone: 03 578 0214**  
**Email: admin@equus.nz**  
**Website: www.equus.nz**  
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