Produktdatenblatt Nr. 9221 - R - 11
Issue: August 2022

KRAITEC®.step plus is a rubber granulate slab specially designed for protection of waterproofing membranes on flat roofs (e.g. walkways for roof maintenance personnel), balconies and terraces. KRAITEC®.step plus is also used as a supporting underlay under systems installed on roofs (e.g. solar power units, antennas etc.). KRAITEC®.step plus comes equipped with a fleece on the lower side suitable as a separating layer towards incompatible roofing membranes.

Material

Material:

Polyurethane-bonded recycled Rubbergranulate laminated with fleece on the lower side.(typical rubber smell possible)

Product design

Colour:	red, green, grey or black (minor colour variations and/or fading possible)
Surface:	smooth with open pores, chamfered edges
Lower side:	smooth with open pores, with drainage channels, Polymer fleece (300 g/m2)

Dimensions / Tolerances / Weight

Length x Width x Thickness:	500 mm x 500 mm, 30 mm
Tolerances:	length and width ± 1.5 %, thickness ± 2 mm
Weight slab:	approx. 5.3kg
Area weight:	approx. 21.1 kg/m²

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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/m² 20 % at approx. 38 t/m² (test method based on DIN EN ISO 3386-2) Corresponding to KRAITEC® step, as fleece lamination is negligible.
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) Corresponding to KRAITEC® step, minor variance due to fleece lamination.
Coefficient of thermal expansion:	approx. 10 x 10-5 / °C (test method based on DIN EN 13471)
Salt water resistance:	Fully resistant (DIN EN ISO 175, DIN EN ISO 3386-2) corresponding to KRAITEC® step.
UV-Resistance:	Fully resistant (DIN EN ISO 1297, DIN EN ISO 3386-2) corresponding to KRAITEC® step (Colour variations are possible due to environmental influences.)
Anti-slip properties:	C (DIN 5109, wet loaded Barefoot Areas)
Chlorine resistance:	Fully resistant (DIN EN ISO 175, DIN EN ISO 3386-2) corresponding to KRAITEC® step.
Impact sound insulation:	

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

Warm roof		
PIR-insulation 140mm	Waterproofing: Bituminous roofing membranes	Waterproofing: PVC roofing membranes
Impact sound insulation improvement	ΔL_w = 27 dB	ΔL_w = 32 dB
Layer structure (top to bottom)	- **KRAITEC ® step** - 2nd waterproofing layer: PYE PV 200 S 5, slate-coated - 1st waterproofing layer: G 200 S 4, talcum-coated - Insulation: PIR FA WLS 024 (140 mm) - Bitumen vapour barrier: V 60 S 4 + Al	- **KRAITEC ® step plus** - Waterproofing: - PVC 1,5mm - Insulation: PIR FA WLS 024 (140 mm) Bitumen vapour barrier: V 60 S 4 + Al AL

Installation

Install in accordance with the KRAITEC® step installation instructions.

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Other

Other:	Plastic connector pins included, receiving holes drilled on two sides (can be drilled on four sides on request). Compatibility: Due to the large number of commercially available waterproofing membranes with different formulations, the compatibility (e.g. with plasticizers or blocking) must be approved by the manufacturer of the waterproofing membrane.
Disclaimer:	We want to use this information to advise you to the best of our knowledge and belief on the basis of our tests and experience. However, KRAIBURG Relastec GmbH & Co. KG cannot provide a guarantee for KRAITEC® products for the laying results in individual cases due to the wide range of application possibilities and the storage, laying and construction site conditions, which are outside our influence. You should carry out your own tests. Our technical service would be pleased to assist you.

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