

step roof FPO

Produktdatenblatt Nr. 9224b - R - 02

Issue: April 2024

KRAITEC® step roof FPO is a protective mat made of rubber granules with an FPO backing; it is designed for use on flat roofs with an FPO foil covering as a walkway for maintenance, inspection and installation. **KRAITEC® step roof FPO** is also used as a protective layer under roof structures (e.g. solar and antenna systems). **KRAITEC® step roof FPO** features an FPO backing with an integrated fleece layer. The FPO coating enables permanent bonding to the FPO roofing felt by means of hot-air welding to prevent lifting or slipping.

Material

Material:

Polyurethane-bonded recycled rubbergranulate with FPO cladding (PP) on the bottom.(typical rubber smell possible)

Product design

Colour:	red, green, grey or black (slight material-related colour variations possible)
Surface:	smooth with open pores, bevelled edges
Lower side:	FPO-cladding with drainage channels

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. 21.2 kg / m ²

The product data sheet is not subject to any change service! All information is without guarantee.

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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/m ² 20 % at approx. 38 t/m ² (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:	$\alpha_m \text{ ca. } 10 \times 10^{-5}/^{\circ}\text{C}$
Salt water resistance:	fully resistant (DIN EN ISO 175 and DIN EN ISO 3386-2)
UV-Resistance:	fully resistant (DIN EN 1297 and DIN EN ISO 3386-2) (colour variations are possible due to environmental influences)
Anti-slip properties:	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 and DIN EN ISO 3386-2)
Displacement space:	Class V4 (DIN 51130:2014-02)

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Wind suction loads: Depending on the wind suction security of the PVC sealing
Membrane, **KRAITEC® step roof FPO** can be used in all wind load zones when hot-air welded in an appropriate professional manner.

Impact sound insulation:

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	$\Delta L_w = 27 \text{ dB}$	$\Delta L_w = 32 \text{ dB}$
Layer structure (top to bottom)	<ul style="list-style-type: none"> - 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 	<ul style="list-style-type: none"> - KRAITEC® step plus - Waterproofing: PVC 1,5mm - Insulation: PIR FA WLS 024 (140 mm) - Bitumen vapour barrier: V 60 S 4 + Al AL

Installation

Installation is to be carried out in accordance with the **KRAITEC® step roof FPO** installation instructions.

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Other

Other: Plastic connector pins included, pre-drilled holes on two sides of the slab (pre-drilled holes on four sides of the slab on request). Compatibility: Due to the large number of commercially available waterproofing membranes with different formulations, the compatibility 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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