

Declaration of Performance

- Nr.: DoP KKplus Protect F-Black 30032017001
1. Unique identification code of the product-type: FEF Kaiflex KKplus Protect F-Black
 2. Intended use/es: Thermal insulation for technical building equipment and industrial installations (ThIBell).
 3. Manufacturer: Kaimann GmbH
Hansastraße 2-5
D-33161 Hövelhof
 4. Authorised representative: Not relevant
 5. System/s of AVCP: 3
 6. a. Harmonised standard: Declaration of performance according to product standard EN 14304:2009+A1:2013.
Notified body/ies: 0751 "Forschungsinstitut für Wärmeschutz e.V. München"
 - b. European Assessment Document: Not relevant
 7. Declared performance/s:

Essential Features		Performance	
Reaction to fire euroclass-characteristics	Reaction to fire	Sheet: d _N = 3 - 50 mm Tube: d _N = 6 - 45 mm	E E _L
Acoustic absorption index	Structure-borne noise transmission Acoustic absorption		NPD
Thermal resistance	Thermal conductivity Dimensions and limits	Sheet: d _N = 3 - 50 mm Tube: d _N = 6 - 45 mm	$\lambda_{0^{\circ}\text{C}} = 0,033 \frac{\text{W}}{\text{m} \cdot \text{K}}$ $\lambda_{\vartheta} = 0,033 + \vartheta \cdot 8 \cdot 10^{-5} + \vartheta^2 \cdot 7 \cdot 10^{-7} \frac{\text{W}}{\text{m} \cdot \text{K}}$
Water permeability	Water absorption		WS01 (W _p ≤ 0,1 kg/m ²)
Water vapour permeability	Water vapour diffusion resistance	Sheet: d _N = 3 - 50 mm Tube: d _N = 6 - 45 mm	MU 10.000 (μ ≥ 10.000)
Release of corrosive substances	Minor amounts of water soluble chlorides and pH-value		300/7
Release of dangerous substances to indoor environment	Release of dangerous substances		NPD ^a
Continuous glowing combustion	Continuous glowing combustion		NPD
Durability of reaction to fire against ageing/degradation	Durability characteristics ^b		
Durability of thermal resistance against ageing/degradation	Durability characteristics ^c		
	Maximum service temperature	Sheet: d _N = 3 - 50 mm Tube: d _N = 6 - 45 mm	ST(+) 80°C
	Minimum service temperature	Sheet: d _N = 3 - 50 mm Tube: d _N = 6 - 45 mm	ST(-) -30°C
Durability of reaction to fire against high temperature	Durability characteristics ^b		
Durability of thermal resistance against high temperature	Durability characteristics ^c		

- a No test method yet adopted.
b The fire performance of flexible elastomeric foam does not change with time.
c The thermal conductivity of flexible elastomeric foam does not change with time.
NPD= No Performance Determined

8. Appropriate Technical Documentation and/or Specific Technical Documentation: The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of performance is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:

Wolfgang Andrä, Quality Manager QMB/UMB

Hövelhof/30.03.2017

