

## Declaration of Performance

- Nr.: DoP KKplus Protect TS 01032018001
1. Unique identification code of the product-type: FEF Kaiflex KKplus Protect TS
  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 <sub>N</sub> = 3 - 50 mm Tube: d <sub>N</sub> = 6 - 45 mm	E EL			
Acoustic absorption index	Structure-borne noise transmission Acoustic absorption		NPD			
Thermal resistance	Thermal conductivity Dimensions and limits	Sheet: d <sub>N</sub> = 3 - 50 mm Tube: d <sub>N</sub> = 6 - 45 mm	°C W/(m·K)	-10°C 0,032	0°C 0,033*	10°C 0,034
Water permeability	Water absorption		WS01 (W <sub>p</sub> ≤ 0,1 kg/m <sup>2</sup> )			
Water vapour permeability	Water vapour diffusion resistance	Sheet: d <sub>N</sub> = 3 - 50 mm Tube: d <sub>N</sub> = 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 <sup>a</sup>			
Continuous glowing combustion	Continuous glowing combustion		NPD			
Durability of reaction to fire against ageing/degradation	Durability characteristics <sup>b</sup>					
Durability of thermal resistance against ageing/degradation	Durability characteristics <sup>c</sup>					
	Maximum service temperature	Sheet: d <sub>N</sub> = 3 - 50 mm Tube: d <sub>N</sub> = 6 - 45 mm	ST(+) 80°C			
	Minimum service temperature	Sheet: d <sub>N</sub> = 3 - 50 mm Tube: d <sub>N</sub> = 6 - 45 mm	ST(-) -30°C			
Durability of reaction to fire against high temperature	Durability characteristics <sup>b</sup>					
Durability of thermal resistance against high temperature	Durability characteristics <sup>c</sup>					

- 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  
 \*λ<sub>0</sub> ≤ 0,033 + 7,2 · 10<sup>-5</sup> ρ + 1,2 · 10<sup>-6</sup> ρ<sup>2</sup>

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 Lewandowski, Manager Produktqualität und -compliance

Hövelhof/01.03.2018

