

## Declaration of Performance

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| No.:   | DoP KKplus Protect F-Black 01032018001  |
| 1. Unique identification code of the product-type: | FEF Kaiflex KKplus Protect F-Black  |
| 2. Intended use/es:                                | Thermal insulation for technical building equipment an industrial installations (ThIBell) |
| 3. Manufacturer:                                   | Kaimann GmbH<br>Hansastraße 2-5<br>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 E <sub>L</sub>			
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	-10 °C	0 °C	10 °C
Water permeability	Water absorption		W/(m·K)	0,032	0,033*	0,034
Water vapour permeability	Water vapour diffusion resistance	Sheet: d <sub>N</sub> = 3 - 50 mm Tube: d <sub>N</sub> = 6 - 45 mm	WS01 (W <sub>p</sub> ≤ 0,1 kg/m <sup>2</sup> )			
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>					

<sup>a</sup> No test method yet adopted.  
<sup>b</sup> The fire performance of flexible elastomeric foam does not change with time.  
<sup>c</sup> The thermal conductivity of flexible elastomeric foam does not change with time.  
 NPD = No Performance Determined  
<sup>\*</sup>λ<sub>s</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:

Jesko Adler, CIO / Head of Quality



Hövelhof, 30/04/2020