



## Declaration of performance

Nr. btf-311010

### 1. Product

Unique identification code of the product type

**Kalzip Vapour Layer FR-X**

**EN 13970**

### 2. Type

Type batch or serial number or any other element allowing identification of the construction product

**Batch number: see product packing**

### 3. Intended use or uses of the construction product

**High-quality, tear-resistant bitumen vapor barrier with low fire load on flat roof structures, which are legally required to meet higher fire protection requirements**

### 4. Name of the manufacturer

**Kalzip GmbH**

**August-Horch-Str. 20-22 D-56070 Koblenz**

### 5. Name of the authorized representative

**N/A**

### 6. System of assessment and verification of consistency of performance

**System 3**

### 7. Notified body

**0761**

The notified body, MPA Braunschweig, issued the certificate of compliance with factory production control.

### 8. European Technical Institute

in case of declaration of performance concerning a construction product covered by harmonized standard:

**N/A**

## 9. Declared performance

Essential characteristics	Harmonized technical specification	Performance
Reaction to fire	EN 13501-1	class E
Resistance to water	EN 1928 procedure A	Penetration passed

Essential characteristics	Harmonized technical specification	Performance
Behavior Tensile strength tear resistance/max. force longitudinal tear resistance/max. force transverse	EN 12311-1	≥ 700 N/50 mm ≥ 700 N/50 mm
Behaviour Elongation Tear elongation / Elongation at max. Tensile Strength longitudinal max. Tensile Strength transverse	EN 12311-1	≥ 3% ≥ 3%
Tear resistance (Nail shaft) longitudinal transverse	EN 12310-1	≥ 200 N ≥ 200 N
Durability of water tightness against after artificial ageing against chemical ageing (Alkaliwiderst.)	EN 1296 / EN 1931 procedure B EN 1847 / EN 1931 procedure B	passed passed
Shear resistance of joints	EN 12317-1	≥ 550 N/50 mm
Cold bending behavior	EN 1109	≤ 20 °C; passed
Resistance to impact	EN 12691	procedure A/B drop height 300 mm, tight
Length	EN 1848-2	50 m ± 2%
Width	EN 1848-2	1080 mm ± 2%
Thickness	EN 1849-2	0,31 mm ± 0,1 mm
Mass per unit area	EN 1849-2	315 g/m <sup>2</sup> +10%/-20%
Water vapour transmission	EN 1931	S <sub>D</sub> > 1500 m

X = average; s<sub>d</sub>= diffusion equivalent thickness of air layer

**10.** The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 9. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

**Signed for the manufacturer and on behalf of the manufacturer by**

Volker Sauerbrei

Name

Manager HR/QA/Technical

Function

Koblenz, 24.05.2022

Location / Date

Signature

