

1. Unique identification of products

**Firetect® FMU (steel) + FMI (stainless steel)**

2. Intended use

service closures for structural openings for pipe penetrations, to form a penetration seal in case of fire to reinstate the fire resistance of:

- standard flexible walls  $\geq$  100mm
- standard rigid walls  $\geq$  100mm
- standard rigid floors  $\geq$  150mm incl. flexible ceilings

3. Manufacturer

KLF Building Products BV  
Techniekweg 11, 4207 HC Gorinchem, The Netherlands

4. Authorised representative

not applicable

5. System of AVCP

System 1

6a. Harmonised standard

not applicable

Notified body

not applicable

6b. European Assessment Document (EAD)

[350454-00-1104](#)

European Technical Assessment (ETA)

[ETA-14/0251](#)

Certificate of Constancy of Performance

0960-CPR-SKGIKOB.011130.01.NL

Technical Assessment Body (TAB)

SKG-IKOB

Identification notified body

No. 0960

7. Declared performances

**basic requirements**

**characteristics**

**performances**

**BWR 1 Mechanical resistance + stability**

not relevant

**BWR 2 Safety in case of fire**

EN 13501-1

EN 13501-2

reaction to fire

Class F

resistance to fire

per tested assembly; EI 30 up to EI 240,  
see ANNEX BWR2 + ANNEX A

field of application

**BWR 3 Hygiene, health + environment**

EAD 350454-00-1104, §2.2.3

EAD 350454-00-1104, §2.2.4

EAD 350454-00-1104, §2.2.5

air permeability

IA1, S/W3

water permeability

npd

content, emission and/or release of dangerous substances

npd

not dangerous under Regulation  
in compliance with CLP regulations

**BWR 4 Safety + accessibility in use**

EAD 350454-00-1104, §2.2.6

EAD 350454-00-1104, §2.2.7

EAD 350454-00-1104, §2.2.8

EAD 350454-00-1104, §2.2.9

mechanical resistance + stability

npd

resistance to impact / movement

npd

adhesion

npd

durability

Y<sub>1</sub> (FMU) + Z<sub>1</sub> (FMI), internal use

**BWR 5 Protection against noise**

EAD 350454-00-1104, §2.2.10

airborne sound insulation

npd

**BWR 6 Energy economy + heat retention**

EAD 350454-00-1104, §2.2.11

EAD 350454-00-1104, §2.2.12

thermal properties

npd

water vapour permeability

npd

**General aspects relation to fitness for use**

EAD 350454-00-1104, §1.2.2

assumed working life for the intended use

10 years

8. Specific Technical Documentation

not applicable

npd= no performance determined

The performances of the products identified are in conformity with the declared performances. This declaration of performance is issued, in accordance with Regulation 305/2011, under the sole responsibility of the manufacturer.

Signed for and on behalf of the manufacturer in Gorinchem dated 18-10-2019 by C. Buikema



field of application (FoA)	<b>Firetect<sup>®</sup> FMU (steel) + FMI (stainless steel)</b>
	tested and certified by ETA-14/0251; fire resistance performances and assembly methods for uses in:

<b>constructive element</b> <sup>1)</sup>	
<b>fire rated walls</b> acc. EN 1363-1	- flexible wall ≥100mm; metal or timber studs, plaster board type A + wall insulation - rigid wall ≥100mm: blockwork/concrete/masonry, density ≥ 600 kg/m <sup>3</sup> - rigid wall ≥150mm: blockwork/concrete/masonry, density ≥ 600 kg/m <sup>3</sup>
<b>fire rated floors</b> acc. EN 1363-1	- rigid floor ≥150mm: (aerated) concrete, density ≥ 600 kg/m <sup>3</sup> - flexible ceiling ≥150mm: metal studs, plaster board type F
<sup>1)</sup> the constructive element must be classified acc. EN 13501-2 for the required fire resistance period	

<b>fire resistance</b>	
<b>field of application:</b>	acc. EN 13501-2 / 1366-3
<b>EI 30 up to EI 240: FMU + FMI</b>	<b>structural openings for pipe + cable penetrations:</b> <sup>2)</sup>
- PE/PP/PVC	≤ Ø400mm (FMU) also in PA board, fastened with <b>PA spirals</b> ≤ Ø250mm (FMI)
- PP-R	≤ Ø125mm also in cable trays + PA board
- PP-MD	≤ Ø160mm also with pipe sockets also with acoustical damper + PA board
- PP-MX	≤ Ø160mm also with pipe sockets
- PE-Xa	≤ Ø32 (54) mm also with pipe insulation
- cable bundles	≤ Ø110mm
<sup>2)</sup> support services; support distance: see principle detail	

<b>environmental performances</b>	<b>BREEAM</b>	<b>LEED</b>	<b>VOC</b> France	<b>EN 717-1§</b>	<b>EMICODE</b>	<b>M1</b>	<b>Indoor Air</b>
example protocols, click for <a href="#">full list</a>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	A+	E1		<input checked="" type="checkbox"/>	Comfort GOLD

<b>fasteners</b>	flexible walls	rigid walls / floors	see TDS
	phosphate screws, coarse thread ≤ Ø125mm: fastening with only <b>2</b> screws in PA board: use <b>PA spirals</b>	non-corrosive screws + fire rated strike anchors (no nylon, plastic etc. permitted) <b>threaded rod is optional, <u>not</u> required</b>	

<b>finish</b>	apply smoke seal around service with Acrylic or PA sealer on 2 sides	see TDS
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<b>product information</b>	
Product certification by DoP; more info on certification of CE building products through ETA at <a href="http://firetect.eu/certification">firetect.eu/certification</a>	
- full DoP version: declaration of performance + ANNEX BWR2 + ANNEX A; upon request	
- web DoP version: declaration of performance + ANNEX BWR2; other info can be downloaded at <a href="http://firetect.eu/download">firetect.eu/download</a>	
- FoA charts; <a href="#">suitable products per type of fireseal + EI performance + product / joint details</a>	
- TDS: <a href="#">general directions for use + product specs</a>	
Consult <a href="http://firetect.eu/download">firetect.eu/download</a> for updated versions; product development + fire tests are ongoing processes at KLF. Contact KLF for <b>other</b> EI requirements and (non)standard or complex site requirements; mail <a href="mailto:info@klf.nl">info@klf.nl</a>	
 	