

1. Unique identification of products	<b>Firetect® FMU (steel) + FMI (stainless steel)</b>	
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)	<a href="#">350454-00-1104</a>	
European Technical Assessment (ETA)	<a href="#">ETA-14/0251</a>	
Technical Assessment Body (TAB)	SKG-IKOB	
Identification notified body	No. 0960	
7. Declared performances	<b>basic requirements</b>	<b>characteristics</b>
		<b>performances</b>
	<b>BWR 1 Mechanical resistance + stability</b>	not relevant
	<b>BWR 2 Safety in case of fire</b> EN 13501-1 EN 13501-2	reaction to fire resistance to fire field of application
		Class F per tested assembly; EI 30 up to EI 240, see ANNEX BWR2 + ANNEX A
	<b>BWR 3 Hygiene, health + environment</b> EAD 350454-00-1104, §2.2.3 EAD 350454-00-1104, §2.2.4 EAD 350454-00-1104, §2.2.5	air permeability water permeability content, emission and/or release of dangerous substances
		IA1, S/W3 npd npd not dangerous under Regulation in compliance with CLP regulations
	<b>BWR 4 Safety + accessibility in use</b> 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 resistance to impact / movement adhesion durability
		npd npd npd Y <sub>1</sub> (FMU) + Z <sub>1</sub> (FMI), internal use
	<b>BWR 5 Protection against noise</b> EAD 350454-00-1104, §2.2.10	airborne sound insulation
		npd
	<b>BWR 6 Energy economy + heat retention</b> EAD 350454-00-1104, §2.2.11 EAD 350454-00-1104, §2.2.12	thermal properties water vapour permeability
		npd npd
	<b>General aspects relation to fitness for use</b> 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 on January 8 2019 by C. Buikema



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

**constructive element** <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

**fire resistance**

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

<sup>2)</sup> support services; support distance: see principle detail

environmental performances	BREEAM	LEED	VOC France	EN 717-1§	EMICODE	M1	Indoor Air
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  phosphate screws, coarse thread ≤ Ø125mm: fastening with only <b>2</b> screws in PA board: use <b>PA spirals</b>	rigid walls / floors  non-corrosive screws + fire rated strike anchors (no nylon, plastic etc. permitted) <b>threaded rod is optional, <u>not</u> required</b>	see TDS
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<b>finish</b>	apply smoke seal around service with Acrylic or PA sealer on 2 sides	see TDS
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**product information**

Product certification by DoP; more info on certification of CE building products through ETA at [firetect.eu/certification](http://firetect.eu/certification)

- 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 [firetect.eu/download](http://firetect.eu/download)
- FoA charts; [suitable products per type of fireseal + EI performance + product / joint details](#)
- TDS: [general directions for use + product specs](#)

Consult [firetect.eu/download](http://firetect.eu/download) for updated versions; product development + fire tests are ongoing processes at KLF.  
Contact KLF for **other** EI requirements and (non)standard or complex site requirements; mail [info@klf.nl](mailto:info@klf.nl)


