

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 or rigid walls \geq 100mm - standard rigid floors \geq 150mm	
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)	ETAG 026-2	
European Technical Assessment (ETA)	ETA-14/0251	
Technical Assessment Body (TAB)	SKG-IKOB	
Identification notified body	No. 0957	
7. Declared performances		
	basic requirements	characteristics
	performances	
	BWR 1 Mechanical resistance and stability	not applicable
	BWR 2 Safety in case of fire EN 13501-1 EN 13501-2	reaction to fire resistance to fire
		Class F per tested assembly; EI 30 up to EI 240, see ANNEX BWR2
	BWR 3 Hygiene, health and environment EN 1026 ETAG 026-3, Annex C declaration of manufacturer (DoP)	air permeability water permeability release of dangerous substances
		IA1, S/W3 npd npd no release of dangerous substances
	BWR 4 Safety in use - EOTA TR001 mechanical resistance and stability resistance to movement adhesion	
		npd npd npd
	BWR 5 Protection against noise EN 10140-2, EN ISO 717-1	airborne sound insulation
		npd
	BWR 6 Energy, economy and heat retention EN 12664, EN 12667, EN 12939 EN ISO 12572, EN 12056	thermal properties water vapour permeability
		npd npd
	General aspects relation to fitness for use ETAG 026-2, Annex B, B.6.2	durability and serviceability assumed working life for the intended use
		Y ₁ (FMU) + Z ₁ (FMI), internal 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 October 2 2017 by C. Buikema



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

constructive element ¹⁾	
fire rated walls acc. EN 1363-1	<ul style="list-style-type: none"> - standard flexible walls ≥ 100mm: 50mm MS profiles with on 2 sides min. 2x 12,5mm plaster board type F + insulation: rock wool ≥ 50mm, density ≥ 100 kg/m³ - standard rigid walls ≥ 100mm: blockwork, (aerated) concrete or masonry, density ≥ 650 kg/m³
fire rated floors acc. EN 1363-1	<ul style="list-style-type: none"> - standard rigid floors ≥ 150mm: (aerated) concrete, density ≥ 650 kg/m³
¹⁾ the supporting construction must be classified acc. EN 13501-2 for the required fire resistance period	

fire resistance		
field of application:	acc. EN 13501-2 / 1366-3	
EI 30 up to EI 240: FMU + FMI	structural openings for pipe penetrations:	
- PE/PP/PVC pipes	≤ Ø400mm	also in PA board, fastened with PA spiral screws
- PP-R pipes	≤ Ø110mm	also in cable tray 'DLS'
- PP-MD pipes	≤ Ø160mm	also with pipe sockets also with acoustical damper

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

finish	- apply smoke seal around pipe with Acrylic or PA sealer on 2 sides	see TDS
---------------	--	---------

product information	
Product certification by DoP; more info on certification of CE building products through ETA at firetect.eu/certification	
- full DoP version: declaration of performance + chart field of application (FoA) + principle configurations; upon request	
- web DoP version: declaration of performance; other info can be downloaded at firetect.eu/download	
- charts FoA: suitable product per type of fireseal + EI performance + product / joint details	
- TDS: general directions for use + product specs	
Consult 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	
 	