

1. Unique identification of product	Firetect® Graphite sealant
2. Intended use	service closure for structural openings for pipe and cable 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-14/0273
Certificate of Constancy of Performance	0960-CPR-SKGIKOB.011133.01.NL
Technical Assessment Body (TAB)	SKG-IKOB
Identification notified body	No. 0960

7. Declared performances	essential 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 resistance to fire	Class F per tested assembly; EI 20 up to EI 240, see ANNEX BWR2 + ANNEX A
	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 water permeability content, emission and/or release of dangerous substances	IA1, S/W3 npd 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 resistance to impact / movement adhesion durability	npd npd npd Z ₂ (internal use)
	BWR 5 Protection against noise EAD 350454-00-1104, §2.2.10	airborne sound insulation	R _{s,w} = 43 dB up to 53 dB see ANNEX B
	BWR 6 Energy economy + heat retention EAD 350454-00-1104, §2.2.11 EAD 350454-00-1104, §2.2.12	thermal properties water vapour permeability	npd 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)	Firetect® Graphite sealant
	tested and certified by ETA-14/0273; fire resistance performances and assembly methods for uses in:

constructive element ¹⁾

fire rated walls 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 ³ - rigid wall ≥150mm: blockwork/concrete/masonry, density ≥ 600 kg/m ³
fire rated floors acc. EN 1363-1	- rigid floor ≥150mm: (aerated) concrete, density ≥ 600 kg/m ³ - flexible ceiling ≥150mm: metal studs, plaster board type F

¹⁾ the constructive element 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 20 up to EI 240: Graphite sealant	structural openings for pipe + cable penetrations: ²⁾	
- PE/PP/PVC	≤ Ø125mm	also in PA board
- PP-R	≤ Ø110mm	also in cable trays + PA board
- PP-MD	≤ Ø110mm	
- PP-MX	≤ Ø110mm	also with pipe sockets
- aluPE-X	≤ Ø75mm	also with pipe insulation
- PE-Xa	≤ Ø32 (54) mm	also with pipe insulation
- copper	≤ Ø76mm	also with pipe insulation + PA board
- steel	≤ Ø219mm	also with pipe insulation + PA board
- cable trays incl. cable ladders + wire mesh	≤ 600x1200mm +25% in walls ≤ 1000x1200 mm / 600x5000mm in floors	coat back is not required coat back is not required
- cable bundles	≤ Ø121mm	also in shaft walls

²⁾ support services; support distance: see principle detail

environmental performances	BREEAM	LEED	VOC France	EN 717-1§	EMICODE	M1	Indoor Air
example protocols, click for full list	☑	☑	A+	E1	EC1 PLUS	☑	Comfort GOLD

fasteners	not applicable fasten glass wool or rock wool individually (not wrapped!) with steel wire	see TDS
------------------	--	---------

finish	avoid contact with water during curing	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 + ANNEX BWR2 + ANNEX A + ANNEX B; upon request
- web DoP version: declaration of performance + ANNEX BWR2; other info can be downloaded at 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 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


