Declaration of Performance

Declaration of Performance No. DoP/WFK/DE/2023/006

1. **Product:**
   Unique product type identifier
   WFK

2. **Intended use:**
   Intended use of the construction product according to the applicable harmonized technical specification
   To be used in connection with walls and ceilings to maintain fire compartments in heating, ventilation, and air conditioning installations

3. **Manufacturer:**
   Bartholomäus GmbH
   Bachstrasse 10
   89607 Emerkingen

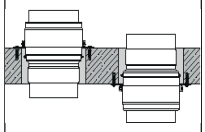
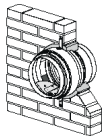
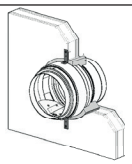
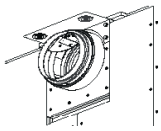
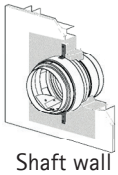
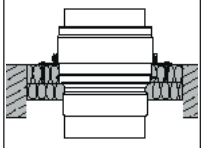
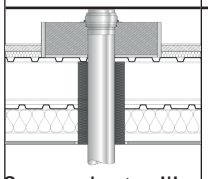
4. **System for assessment and verification of performance durability:**
   System 1

5. **Notified body:**
   The notified body IBS Linz No. 1322 has conducted the initial inspection of the factory and the factory production control, as well as the ongoing monitoring, assessment, and evaluation of the factory production control according to System 1 of the Construction Products Regulation. They have issued the Certificate of Constancy of Performance 1322-CPR-086678/01.

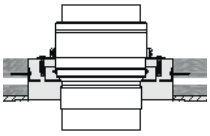
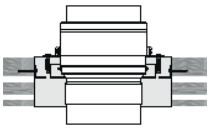
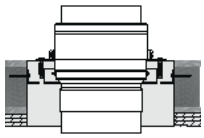
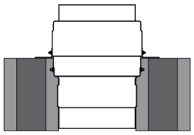
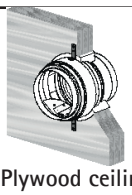
6. **Harmonized standard:**
   EN 15650:2010

7. **Declared performances according to EN 15650:2010 (harmonized technical specification).**

Essential Characteristics	Levels and/or classes	Performance
Rated activation/sensitivity conditions:		
▪ Load capacity of the temperature-sensitive sensor		fulfilled
▪ Response temperature of the temperature-sensitive sensor		fulfilled
Response delay (response time): ▪ Closing time		fulfilled
Operational safety: ▪ Cyclic testing		50 cycles
Durability of response delay	Response temperature 72°C	fulfilled
▪ Response of the temperature-sensitive sensor to temperature and load capacity (testing method according to ISO 10294-4)	Load capacity	fulfilled
Durability of operational safety: ▪ Testing of opening and closing cycles (EN 15650:2010 section 5.4.2)		- not applicable -
Fire resistance: (Test method according to EN 1366-2 and classification according to 13501-3:2009)		
▪ Compartmentation	E	**up to 120 min**
▪ Thermal insulation	I	**up to 120 min**
▪ Smoke leakage	S	**up to 120 min**
▪ Mechanical strength (regarding E)		**fulfilled**
▪ Maintaining cross-section (regarding E)		**fulfilled**

Size	Load-bearing structure	Construction type	Installation type	Performance class
Ø100 to Ø250 [mm]	 Solid ceiling	Solid ceiling thickness (d*) ≥ 150 mm Installation on and below the ceiling Minimum distance between them ≥ 25 mm Minimum distance to load-bearing components ≥ 20 mm	Wet intallation Ceiling (mortar)	EI 120 (h_o i ↔ o) S
	 Solid wall	Solid wall thickness (d*) ≥ 100 mm Minimum distance between them ≥ 25 mm Minimum distance to load-bearing components ≥ 20 mm	Wet installation Wall (mortar)	EI 90 (v_e i ↔ o) S
			Dry installation wall (insert element)	
	 Metal stud wall	Lightweight partition wall d* ≥ 100 mm with metal studs, double-sided, double-paneled 2 x 12.5 mm gypsum plasterboard panels and mineral wool filling on each side Minimum distance between them ≥ 25 mm Minimum distance to load-bearing components ≥	Wet installation Wall (mortar)	EI 90 (v_e i ↔ o) S
			Dry installation wall (insert element)	EI 60 (v_e i ↔ o) S
	 Suspended ceiling connection	Lightweight partition wall d* ≥ 100 mm with metal studs, double-sided, double-paneled 2 x 12.5 mm gypsum plasterboard panels and mineral wool filling on each side	Dry installation wall (GDA)	EI 90 (v_e i ↔ o)
	 Shaft wall	Shaft wall d* ≥ 90 mm with metal stud framework, single-paneled 2 x 20 mm gypsum plasterboard panels Minimum distance between them ≥ 25 mm Minimum distance to load-bearing components ≥ 20 mm	Wet installation Wall (mortar)	EI 90 (v_e i ↔ o) S
			Dry installation (insert element)	EI 60 (v_e i ↔ o) S
	 Solid ceiling	Solid ceiling thickness (d*) ≥ 150 mm Soft firestop system 2 x 50 mm mineral wool panels Installation on and below the soft firestop Minimum distance between them ≥ 25 mm Minimum distance to load-bearing components ≥ 200 mm	Dry installation Ceiling (soft firestop)	EI 90 (h_o i ↔ o) S
	 Corrug. sheet ceiling	Cadolto ceiling* ≥ 125 mm	Wet installation Ceiling (mortar)	EI 120 (h_o i ↔ o) S

*d = Thickness wall/ceiling

Size	Load-bearing structure	Construction type	Installation type	Performance class
Ø100 to Ø250 [mm]	 Plywood ceiling	Board stack- / plywood ceiling d* ≥ 100 mm with an additional paneling 1 x 12.5 mm gypsum plasterboard panel Installation on and below the ceiling Minimum distance between them ≥ 25 mm Minimum distance to load-bearing components ≥	Wet installation Ceiling (mortar)	EI 90 (h_o i ↔ o) S
	 Plywood ceiling	Board stack- / plywood ceiling d* ≥ 100 mm Installation on and below the ceiling Minimum distance between them ≥ 25 mm Minimum distance to load-bearing components ≥ 20 mm	Wet installation Ceiling (mortar)	EI 90 (h_o i ↔ o) S
	 Timber beam ceiling	Timber beam ceiling d* ≥ 174.5 mm including paneling 3 x 12.5 mm gypsum plasterboard panels Installation on and below the ceiling Minimum distance between them ≥ 25 mm Minimum distance to load-bearing components ≥	Wet installation Ceiling (mortar)	EI 90 (h_o i ↔ o) S
	 Solid ceiling	Solid ceiling thickness (d*) ≥ 150 mm Würth i-Block, according to test report No. 232000337-01 dated March 29, 2021, MPA NRW	Wet installation	EI 120 (h_o i ↔ o) S
	 Wooden stud wall	Lightweight partition wall d* ≥ 130 mm with wooden stud framework, double-sided, double-paneled 2 x 12.5 mm gypsum plasterboard panels on each side Minimum distance between them ≥ 25 mm	Wet installation Wall (mortar) Dry installation wall (insert element)	EI 90 (v_e i ↔ o) S
	 Plywood ceiling	Plywood wall d* ≥ 100 mm Minimum distance between them ≥ 25 mm Minimum distance to load-bearing components ≥ 20 mm	Wet installation Wall (mortar) Dry installation wall (insert element)	EI 90 (v_e i ↔ o) S

*d = Thickness wall/ceiling

This Declaration of Performance is available for download in the service area of our website www.geba-brandschutz.

The performance of the product according to No. 1 corresponds to the declared performance according to No. 7. For the creation of this Declaration of Performance in accordance with Regulation (EU) No. 305/2011, the responsibility lies solely with the manufacturer according to No. Signed on

Emerkingen, 05.09.2023

Stefan Fiderer - CEO
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