Institut für Brandschutztechnik und Sicherheitsforschung

Certificate of constancy of performance
Nr. 1322-CPR-086678/01/en

In compliance with Regulation (EU) No 305/2011 of the European Parliament of and of the Council of 9 March 2011 (the Construction products Regulation or CPR), this certificate applies to the construction product.

Fire dampers
WFK

Placed on the market under the name or trade mark of

Bartholomäus GmbH
Bachstraße 10
89607 Emerkingen
Deutschland

and produced in the manufacturing plant

Bartholomäus GmbH
Bachstraße 10
89607 Emerkingen
Deutschland

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standards

EN 15650:2010

Under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

This certificate was first issued on 10.11.2017 and will remain valid as long as neither the harmonised standard, the construction product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.

Linz, 06.09.2023

Ing. Mag. Robert BRENNER
authorised signatory of the notified body

This certificate includes 5 pages.

IBS – Institut für Brandschutztechnik und Sicherheitsforschung Gesellschaft m.b.H.
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Institut für Brandschutztechnik und Sicherheitsforschung

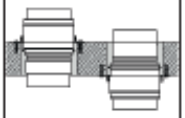
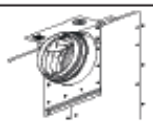
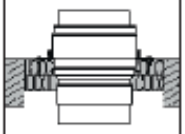
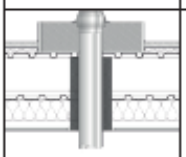
Certificate of constancy of performance
Nr. 1322-CPR-086678/01/en from 06.09.2023

Datenbaltt für Brandschutzklappen nach EN 15650
Datasheet for fire dampers to EN 15650

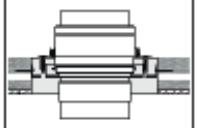
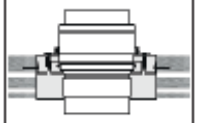
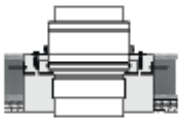
Hersteller (In-Verkehr-Bringer) **(Name und Anschrift)** **Manufacturer** (name and address)	Bartholomäus GmbH Bachstrasse 10 89607 Emerkingen	
Datenblatt Nr. / Datum **Datasheet No. / date**		09.08.2023
EXAP-Bericht nach EN 15882-2 **EXAP-report to EN 15882-2**	Nr.: 319081401-1, Rev1 ausgestellt durch IBS-Linz **issued by IBS-Linz**	vom/**from** 20.06.2023
Klassifizierungsbericht **Classification report**	Nr.: 316081901-A -Rev2 ausgestellt durch IBS-Linz **issued by IBS-Linz**	vom/**from** 10.07.2023
Produktname / Typenbezeichnung Product name / type designation	WFK	
Baugröße Manufactured size	Min. Durchmesser 100 mm Min. diameter	Max. Durchmesser 250 mm Max. diameter
Leckage bei Umgebungstemperatur **Ambient Leakage Tests** (Prüfverfahren nach EN 1366-2) **(according to EN 1366-2)**	Leckage des Klappenblatts Damper blade leakage	erfüllt pass
Feuerwiderstandsprüfung und Klassifizierung (Prüfverfahren nach EN 1366-2 und Klassifizierung nach EN 13501-3 **Fire resistance test and classification** (test procedure according to EN 1366-2 and classification according to EN 13501-3	Raumabschluss (E) Room partition (E))	bis zu 120 Min. up to 120 min.
	Wärmedämmung (I) Heat insulation (I)	bis zu 120 Min. up to 120 min..
	Rauchleckage (S) Smoke leakage (S)	bis zu 120 Min. up to 120 min..
Zulässige Stellglieder / Antriebe Permissible control elements/actuators	Doppeltorsionsfeder / double torsion spring Material / material: Edelstahl / stainless steel	
Dauerhaftigkeit der Ansprechverzögerung-temperaturempfindliche Messfühler (Prüfverfahren nach ISO 10294-4) **Durability of the response delay – temperature-sensitive sensors** (test procedure according to ISO 10294-4	Ansprechtemperatur 72°C Response temperature 72°C	erfüllt / pass
	Belastbarkeit Resilience	erfüllt / pass
Ansprechverzögerung (Schließzeit) (Prüfverfahren nach EN 1366-2) **Response delay (closing time)** (test procedure according to EN 1366-2)	erfüllt / pass	
Korrosionsbeständigkeit (Salznebelprüfung nach EN 15650: 2010) **Corrosion resistance** (salt fog test according to EN 60068-2-52)	erfüllt / pass	

Produkteigenschaften zu ZA.1 der EN 15650:2010

Wesentliche Merkmale **Essential characteristics**	**Anforderung-abschnitte** **Requirement clauses in this and other European Standard(s)**	**Leistung** **Notes**
Nennbedingungen der Aktivierung/Empfindlichkeit: Nominal activation conditions / sensitivity • Belastbarkeit des temperaturempfindlichen Messfühlers sensing element load bearing capacity • Ansprechtemperaturen des temperatur-empfindlichen Messfühlers sensing element response temperature	4.2.1.2 4.2.1.2.2 4.2.1.2.3	erfüllt / pass
Ansprechverzögerung (Ansprechzeit): Response delay (response time): • Schließzeit closure time	4.2.2.2	erfüllt / pass
Betriebssicherheit: Operational reliability • zyklische Prüfung cycling	4.3.1 a)	erfüllt / pass 50 Zyklen / 50 Cycling
Feuerwiderstand / Fire resistance:		
• Raumabschluss integrity	4.1.1. a)	bis 120 Minuten up to 120 min
• Wärmedämmung insulation	4.1.1. b)	
• Rauchleckage smoke leakage	4.1.1 c)	
• mechanische Festigkeit (bzgl. E) mechanical stability (under E)	4.1.1. a)	erfüllt / pass
• Beibehaltung des Quer-schnitts (bzgl. E) maintenance of the cross section (under E)	4.1.1. a)	erfüllt / pass
Dauerhaftigkeit der Ansprechverzögerung: Durability of response dealy • Ansprechen des temperaturempfindlichen Messfühlers auf Temperatur und Belast-barkeit sensing element response to temperature and load bearing capacity	4.2.1.2.2 und 4.2.1.2.3	erfüllt / pass
Dauerhaftigkeit der Betriebssicherheit: Durability of operational reliability: • Prüfungen des Öffnungs- und Schließzyklus open and closing cycle tests	4.3.3.2	(nicht zutreffend) (not applicable)

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 60 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

SIGNATURINFORMATIONEN	**Unterzeichner**	Ing. Mag. Robert Brenner
	Datum/Zeit-UTC	2023-09-06T16:06:33+02:00
	Prüfinformation	Informationen zur Prüfung der elektronischen Signatur finden Sie unter: https://www.signaturpruefung.gv.at
Hinweis	Dieses mit einer qualifizierten elektronischen Signatur versehene Dokument hat gemäß Art. 25 Abs. 2 der Verordnung (EU) Nr. 910/2014 vom 23. Juli 2014 ("eIDAS-VO") die gleiche Rechtswirkung wie ein handschriftlich unterschriebenes Dokument.	

Ing. Mag. Robert BRENNER
authorised signatrory of the notified body

Änderungsvermerk		
Datum	**Text**	**Unterschrift**
06.09.2023	Additinal installation variants adjustment EXAP-report inclusion I-Block	BreR