



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product, the AVCP methods nor the manufacturing conditions in the plant are modified significantly unless suspended or withdrawn by the notified product certification body.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, 19.08.2019

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

This certificate includes 5 pages



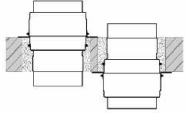


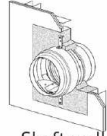
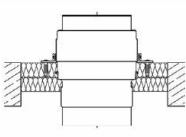
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**Nr. 1322-CPR-086678/01-en**

**Datenblatt für Brandschutzklappen nach EN 15650**  
Datasheet for fire dampers to EN 15650

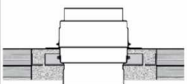
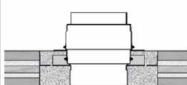
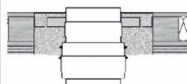
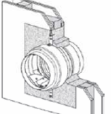

<b>Hersteller (In-Verkehr-Bringer)</b> (Name und Anschrift) Manufacturer (name and address)	Bartholomäus GmbH Bachstrasse 10 89607 Emerkingen	
<b>Datenblatt Nr. / Datum</b> Datasheet No. / date		08.08.2019
<b>Produktname / Typenbezeichnung</b> Product name / type designation	WFK	
<b>Baugröße</b> Manufactured size	Min. Durchmesser 100 mm Min. diameter	Max. Durchmesser 250 mm Max. diameter
<b>Leckage bei Umgebungstemperatur</b> Ambient Leakage Tests (Prüfverfahren nach EN 1366-2) (according to EN 1366-2)	Leckage des Klappenblatts Damper blade leakage	erfüllt pass
<b>Feuerwiderstandsprüfung und Klassifizierung</b> (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..
<b>Zulässige Stellglieder / Antriebe</b> Permissible control elements/actuators	Doppeltorsionsfeder / double torsion spring Material / material: Edelstahl / stainless steel	
<b>Dauerhaftigkeit der Ansprechverzögerung- temperaturempfindliche Messfühler</b> (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
<b>Ansprechverzögerung (Schließzeit)</b> (Prüfverfahren nach EN 1366-2) Response delay (closing time) (test procedure according to EN 1366-2)	erfüllt / pass	
<b>Korrosionsbeständigkeit</b> (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

<b>Wesentliche Merkmale</b> Essential characteristics	<b>Anforderungs- abschnitte</b> Requirement clauses in this and other European Standard(s)	<b>Leistung</b> Notes
Nennbedingungen der Aktivierung/Empfindlichkeit: Nominal activation conditions / sensitivity <ul style="list-style-type: none"> <li>• Belastbarkeit des temperaturempfindlichen Messfühlers sensing element load bearing capacity</li> <li>• Ansprechtemperaturen des temperatur- empfindlichen Messfühlers sensing element response temperature</li> </ul>	4.2.1.2  4.2.1.2.2  4.2.1.2.3	erfüllt / pass
Ansprechverzögerung (Ansprechzeit): Response delay (response time): <ul style="list-style-type: none"> <li>• Schließzeit closure time</li> </ul>	4.2.2.2	erfüllt / pass
Betriebssicherheit: Operational reliability <ul style="list-style-type: none"> <li>• zyklische Prüfung cycling</li> </ul>	4.3.1 a)	erfüllt / pass 50 Zyklen / 50 Cycling
<b>Feuerwiderstand / Fire resistance:</b>		
<ul style="list-style-type: none"> <li>• Raumabschluss integrity</li> </ul>	4.1.1. a)	bis 120 Minuten up to 120 min
<ul style="list-style-type: none"> <li>• Wärmedämmung insulation</li> </ul>	4.1.1. b)	
<ul style="list-style-type: none"> <li>• Rauchleckage smoke leakage</li> </ul>	4.1.1 c)	
<ul style="list-style-type: none"> <li>• mechanische Festigkeit (bzgl. E) mechanical stability (under E)</li> </ul>	4.1.1. a)	erfüllt / pass
<ul style="list-style-type: none"> <li>• Beibehaltung des Quer- schnitts (bzgl. E) maintenance of the cross section (under E)</li> </ul>	4.1.1. a)	erfüllt / pass
Dauerhaftigkeit der Ansprechverzögerung: Durability of response delay <ul style="list-style-type: none"> <li>• Ansprechen des temperaturempfindlichen Messfühlers auf Temperatur und Belast- barkeit sensing element response to temperature and load bearing capacity</li> </ul>	4.2.1.2.2  und  4.2.1.2.3	erfüllt / pass
Dauerhaftigkeit der Betriebssicherheit: Durability of operational reliability: <ul style="list-style-type: none"> <li>• Prüfungen des Öffnungs- und Schließzyklus open and closing cycle tests</li> </ul>	4.3.3.2	(nicht zutreffend) (not applicable)

Frame size	Supporting structure	Construction type	Installation type	Performance class
Ø100 to Ø250 [mm]	 Solid ceiling	Solid ceiling $d^* \geq 150$ mm Installation on and under the ceiling Minimum distance to each other $\geq 25$ mm Minimum distance to load-bearing components $\geq 20$ mm	Wet installation Ceiling (mortar)	EI 120 ( $h_o$ i ↔ o) S
	 Solid wall	Solid wall $d^* \geq 100$ mm Minimum distance to each other $\geq 25$ mm Minimum distance to load-bearing components $\geq 20$ mm	Wet installation Wall (mortar)  Dry installation wall (slide element)	EI 90 ( $v_e$ i ↔ o) S
	 Metal stand wall	Lightweight wall $d^* \geq 100$ mm with metal stand, double-sided, double-planked each 2 x 12.5 mm GRP panels and mineral wool filling Minimum distance to each other $\geq 200$ mm Minimum distance to load-bearing components $\geq 20$ mm	Wet installation Wall (mortar)  Dry installation wall (slide element)	EI 90 ( $v_e$ i ↔ o) S  EI 60 ( $v_e$ i ↔ o) S
	 Shaft wall	Shaft wall $d^* \geq 90$ mm with metal stand, one-sided planked 2 x 20 mm GRP panel Minimum distance to each other $\geq 25$ mm Minimum distance to load-bearing components $\geq 20$ mm	Wet installation Wall (mortar)  Dry installation wall (slide element)	EI 90 ( $v_e$ i ↔ o) S  EI 60 ( $v_e$ i ↔ o) S
	 Solid ceiling	Solid ceiling $d^* \geq 150$ mm Soft bulkhead system 2 x 50 mm mineral wool planks Installation on and below the soft bulkhead Minimum distance from each other $\geq 25$ mm Minimum distance to load-bearing components $\geq 200$ mm	Dry installation ceiling (Soft bulkhead)	EI 90 ( $h_o$ i ↔ o) S

\*d = Thickness of wall/ceiling

Frame size	Supporting structure	Construction type	Installation type	Performance class
Ø100 to Ø250 [mm]	 Laminated timber ceiling	Board pile / cross laminated timber deck $d^* \geq 100$ mm with an additional planking 1 x 12.5 mm GKF panel Installation on and under the ceiling Minimum distance from each other $\geq 25$ mm Minimum distance to load-bearing components $\geq 20$ mm	Wet installation Ceiling (mortar)	EI 90 ( $h_o$ i ↔ o) S
	 Laminated timber ceiling	Board / plywood ceiling $d^* \geq 140$ mm Installation on and under the ceiling Minimum distance to each other $\geq 25$ mm Minimum distance to load-bearing components $\geq 20$ mm	Wet installation Ceiling (mortar)	EI 90 ( $h_o$ i ↔ o) S
	 Beamed ceiling	Wooden beam ceiling $d^* \geq 174.5$ mm including planking 3 x 12.5 mm GKF panel Installation on and under the ceiling distance to each other $\geq 25$ mm Distance to load-bearing components $\geq 20$ mm	Wet installation Ceiling (mortar)	EI 90 ( $h_o$ i ↔ o) S
	 Wooden wallboard	Lightweight wall $d^* \geq 130$ mm with wooden stand, both sides, double planked each 2 x 12.5 mm GKF panel Minimum distance to each other $\geq 25$ mm Minimum distance to load-bearing components $\geq 20$ mm	Wet installation Wall (mortar)	EI 90 ( $v_e$ i ↔ o) S
			Dry installation wall (slide element)	
 Laminated timber wall	Cross laminated timber wall $d^* \geq 100$ mm Minimum distance to each other $\geq 25$ mm Minimum distance to load-bearing components $\geq 20$ mm	Wet installation Wall (mortar)	EI 90 ( $v_e$ i ↔ o) S	
		Dry installation wall (slide element)		

\*d = Thickness of wall/ceiling

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