





1	Product Unique identification code of the product type	EK-JZ		
2	Intended use	Smoke control damper for multi compartments		
3	Manufacturer	TROX GmbH  Heinrich-Trox-Platz 47504 Neukirchen-Vluyn, Germany	Phone +49 (0)2845 2020 Fax +49 (0)2845 202265 E-mail trox@trox.de Internet www.troxtechnik.com	
5	System of assessment and verification of constancy of performance	System 1		
6	Harmonised standard	EN 12101-8:2011		
6	Harmonised standard Notified body/ies	The notified body 1322 - IBS the plant and of the factory p continuous surveillance, ass production control according	carried out the initial inspection of roduction control as well as the essment and evaluation of factory to System 1 of the Construction ued the certificate of constancy of	

#### 7 Declared performances

Table 1

Table 1					
Essential characteristics: fire resistance for nominal sizes [mm]: 200 $\times$ 430 to 1200 $\times$ 2030					
Supporting construction	Construction	Installation location	Installation type	Performance level	
Solid wall	<ul> <li>Concrete, aerated concrete, bricks</li> <li>d ≥ 100 mm</li> <li>ρ ≥ 500 kg/m³</li> <li>Distance to load-bearing structural elements ≥ 40 mm</li> <li>Distance between dampers ≥ 200 mm</li> </ul>	in solid walls (if the wall is not part of a smoke gas extraction duct)	T, one-sided N possible	EI 90 (V <sub>ew</sub> , i↔o) S 1000 C <sub>10.000</sub> MA multi	
Solid wall	<ul> <li>Concrete, aerated concrete, bricks</li> <li>d ≥ 100 mm</li> <li>ρ ≥ 500 kg/m³</li> <li>Distance to load-bearing structural elements ≥ 40 mm</li> <li>Distance between dampers ≥ 200 mm</li> </ul>	in solid walls (if the wall is not part of a smoke gas extraction duct)	T, one-sided N possible duct connection (LE)	El 90 (V <sub>ew</sub> , i↔o) S 1000 C <sub>10.000</sub> MA multi	

Legend: T = Dry mortarless installation • N = Mortar-based installation • LE = As specified for the duct

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Essential characteristics: fire resistance for nominal sizes [mm]: $200 \times 430$ to $1200 \times 2030$					
Supporting construction Construction		Installation location	Installation type	Performance level	
<ul> <li>Concrete, aerated concrete, bricks</li> <li>d ≥ 100 mm</li> <li>p ≥ 500 kg/m³</li> <li>Distance to load-bearing structural elements ≥ 40 mm</li> <li>Distance between dampers ≥ 200 mm</li> </ul>		in the shaft wall	T, one-sided N possible	EI 120 (V <sub>ed</sub> , i↔o) S 1000 C <sub>10.000</sub> MA multi	
Solid wall as shaft wall	<ul> <li>Concrete, aerated concrete, bricks</li> <li>d ≥ 100 mm</li> <li>ρ ≥ 500 kg/m³</li> <li>Distance to load-bearing structural elements ≥ 40 mm</li> <li>Distance between dampers ≥ 200 mm</li> </ul>	on the shaft wall	(T)	El 120 (V <sub>ed</sub> , i↔o) S 1000 C <sub>10,000</sub> MA multi	
fire-resistant vertical smoke extract duct	<ul> <li>d ≥ 35 mm</li> <li>ρ ≈ 550 kg/m³ (490 kg/m³ to 605 kg/m³)</li> <li>four-sided peripheral bolt or sleeve</li> </ul>	on vertical duct	(LE)	EI 120 (V <sub>ed</sub> , i↔o) S 1000 C <sub>10.000</sub> MA multi	
Fire-resistant horizontal smoke extract duct	<ul> <li>d ≥ 35 mm</li> <li>ρ ≈ 550 kg/m³ (490 kg/m³ to 605 kg/m³)</li> <li>four-sided peripheral bolt or sleeve</li> </ul>	on a horizontal duct	(LE)	El 120 (V <sub>ed</sub> , i↔o) S 1000 C <sub>10,000</sub> MA multi	
Fire-resistant horizontal smoke extract duct	• d ≥ 35 mm • ρ≈ 550 kg/m³ (490 kg/m³ to 605 kg/m³)	in a horizontal duct	(LE)	EI 120 (V <sub>ed</sub> , i↔o) S 1000 C <sub>10.000</sub> MA multi	

 $Legend: T = Dry \ mortarless \ installation \bullet \ N = Mortar-based \ installation \bullet \ LE = As \ specified \ for \ the \ duct$ 

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# Declaration of performance DoP/EK-JZ/001





Essential characteristics: fire resistance for nominal sizes [mm]: 200 × 430 to 1200 × 2030				
Supporting construction	Construction	Installation location	Installation type	Performance level
Fire-resistant horizontal smoke extract duct	<ul> <li>d ≥ 35 mm</li> <li>ρ ≈ 550 kg/m³ (490 kg/m³ to 605 kg/m³)</li> </ul>	on the end horizontal duct	(LE)	EI 120 (V <sub>ed</sub> , i↔o) S 1000 C <sub>10.000</sub> MA multi

Legend: T = Dry mortarless installation • N = Mortar-based installation • LE = As specified for the duct

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Table 2

Table 2	ot atte	To all of the land	Deute-many 1	(0) Domeiron
Essential characte	Pristics	Technical specification EN 12101 8: clause	Performance level	(•) Requirements met/ Note
Design and operat		4.2.1.3		<ul> <li>/ Heating ventilation system or smoke and heat extraction system</li> </ul>
Response delay / clos	sing time	4.2.1.4	МА	<ul> <li>/ Opening / closure within</li> <li>25 minutes at fire temperature has been proven.</li> <li>Duration &lt; 60 s.</li> </ul>
Durability (multiple	e sections)	4.4.2.2	C <sub>10.000</sub>	● / 10,000 cycles, duration
Durability of operation	·		- 10,000	per cycle < 120 s
Fire resistance cla	ssified according to EN 13501-4	T	ı	
Fire integrity (E)		4.1.1 a)	E (details: Table 1)	● / Testing to EN 1366-2 and - 10
• Insulation (I)		4.1.1 b)	El (details: Table 1)	● / Testing to EN 1366-2 and - 10
Smoke leakage (\$	5)	4.1.1 c)	S 1000	Pressure level 2: -1,000 Pa to 500 Pa
Mechanical stabil	ity (with E)	4.1.1 d)	E (details: Table 1)	● / Testing to EN 1366-2 and - 10
Maintenance of c	Maintenance of cross section (with E)		E (details: Table 1)	● / Testing to EN 1366-2 and - 10
Durability (multiple sections)				
<ul> <li>In connection with</li> <li>[BE24 / BE230]</li> <li>[B24A]</li> <li>[B24AS]</li> <li>[B24BKNE]</li> <li>[B24C]</li> <li>[B24D]</li> <li>[B230D]</li> </ul>	BE24 (BLE24) / BE230 (BLE230) BE24 (BLE24) + AS-EM/EK BE24 (BLE24) + AS-EM/SIL2 BE24 (BLE24) + BKNE230-24 BE24 (BLE24) + BC24 BE24 (BLE24) + BRM-10-F-ST BE230 (BLE230) + BRM-10-F	4.4.2.1	МА	● / Opening / closure within 25 minutes at fire temperature has been proven.  Duration < 60 s
Durability (multiple				
Durability of operational reliability				
<ul> <li>In connection with</li> <li>[BE24 / BE230]</li> <li>[B24A]</li> <li>[B24AS]</li> <li>[B24BKNE]</li> <li>[B24C]</li> <li>[B24D]</li> <li>[B230D]</li> </ul>	BE24 (BLE24) / BE230 (BLE230) BE24 (BLE24) + AS-EM/EK BE24 (BLE24) + AS-EM/SIL2 BE24 (BLE24) + AS-EM/SIL2 BE24 (BLE24) + BKNE230-24 BE24 (BLE24) + BC24 BE24 (BLE24) + BRM-10-F-ST BE230 (BLE230) + BRM-10-F	4.4.2.2	C <sub>10,000</sub>	● / 10,000 cycles, duration per cycle < 120 s

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Table 3

Essential characteristics	Technical specification	Performance level	(●) Requirements met/ Note
Cover grille on the damper or the duct	EN 1366-10, 5.2.3		● / necessary, can also be used as separating element on openings and ducts

The performance of the product identified above is in conformity with the set of declared performances. This declaration of performance is issued, in accordance with regulation (EU) no. 305/2011, under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of TROX GmbH:

Neukirchen-Vluyn, 1 February 2017

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Jan Heymann • Authorised Representative • CE-marked products