

# Declaration of performance


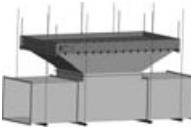

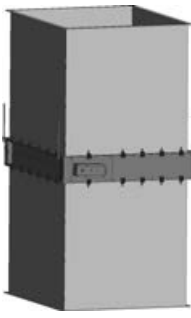
DoP/EK-JS/DE/002



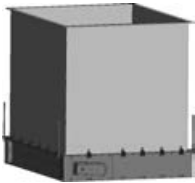



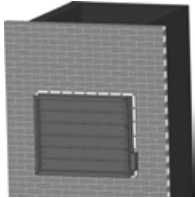
<b>1.</b>	<b>Product</b> Unique identification code of the product type	EK-JS
<b>2.</b>	<b>Intended use</b>	Smoke control damper for single sections
<b>3.</b>	<b>Manufacturer</b>	TROX GmbH Heinrich-Trox-Platz • 47504 Neukirchen-Vluyn • Germany Phone +49 (0) 2845 2020 • Fax +49 (0) 2845 202265 E-mail trox-de@troxgroup.com • Internet www.troxtechnik.com
<b>5.</b>	<b>System of assessment and verification of constancy of performance</b>	System 1
<b>6.</b>	<b>Harmonised standard</b>	EN 12101-8:2011
	<b>Notified body/ies</b>	The notified body 0761 – MPA Braunschweig – carried out the initial inspection of the manufacturing plants and of the factory production control, as well as the continuous surveillance, assessment and evaluation of factory production control according to System 1 of the Construction Products Regulation and issued the certificate of constancy of performance: 0761 – CPR – 1047
<b>7.</b>	<b>Declared performances</b>	

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Table 1

Essential characteristics: fire resistance for nominal sizes [mm]: 100 × 100 to 1250 × 2560		
Supporting construction	Construction	Class of performance for
 <p>on smoke extract ducts for increased temperatures</p>	<ul style="list-style-type: none"> <li>on sheet steel ducts tested in accordance with DIN EN 1366-9 or DIN EN 1366-1, or sheet steel ducts described and specified in accordance with the on-site fire protection concept, with the aim of complying with the equivalence of the planning, dimensioning and execution regulations of the national technical building regulations.</li> </ul>	<ul style="list-style-type: none"> <li>E600120 (h<sub>0d</sub> i↔o) S 1500 C<sub>mod</sub> MA Single</li> <li>E600120 (h<sub>0d</sub> i↔o) S 1500 C<sub>mod</sub> AA Single</li> </ul>
 <p>on smoke extract ducts for increased temperatures</p>	<ul style="list-style-type: none"> <li>on sheet steel smoke extract ducts with fitting tested in accordance with DIN EN 1366-9 or DIN EN 1366-1, or sheet steel ducts described and specified in accordance with the on-site fire protection concept, with the aim of complying with the equivalence of the planning, dimensioning and execution regulations of the national technical building regulations.</li> </ul>	<ul style="list-style-type: none"> <li>E600120 (h<sub>0d</sub> i↔o) S 1500 C<sub>mod</sub> MA Single</li> <li>E600120 (h<sub>0d</sub> i↔o) S 1500 C<sub>mod</sub> AA Single</li> </ul>
 <p>under smoke extract ducts for increased temperatures</p>	<ul style="list-style-type: none"> <li>on sheet steel ducts tested in accordance with DIN EN 1366-9 or DIN EN 1366-1, or sheet steel ducts described and specified in accordance with the on-site fire protection concept, with the aim of complying with the equivalence of the planning, dimensioning and execution regulations of the national technical building regulations.</li> </ul>	<ul style="list-style-type: none"> <li>E600120 (h<sub>0d</sub> i↔o) S 1500 C<sub>mod</sub> MA Single</li> <li>E600120 (h<sub>0d</sub> i↔o) S 1500 C<sub>mod</sub> AA Single</li> </ul>
 <p>in smoke extract ducts with a height offset for increased temperatures</p>	<ul style="list-style-type: none"> <li>on sheet steel ducts tested in accordance with DIN EN 1366-9 or DIN EN 1366-1, or sheet steel ducts described and specified in accordance with the on-site fire protection concept, with the aim of complying with the equivalence of the planning, dimensioning and execution regulations of the national technical building regulations.</li> </ul>	<ul style="list-style-type: none"> <li>E600120 (h<sub>0d</sub> i↔o) S 1500 C<sub>mod</sub> MA Single</li> <li>E600120 (h<sub>0d</sub> i↔o) S 1500 C<sub>mod</sub> AA Single</li> </ul>

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 <p>at the end of the smoke extract ducts with a height offset for increased temperatures</p>	<ul style="list-style-type: none"> <li>on sheet steel ducts tested in accordance with DIN EN 1366-9 or DIN EN 1366-1, or sheet steel ducts described and specified in accordance with the on-site fire protection concept, with the aim of complying with the equivalence of the planning, dimensioning and execution regulations of the national technical building regulations.</li> </ul>	<ul style="list-style-type: none"> <li>E600120 (h<sub>od</sub> i↔o) S 1500 C<sub>mod</sub> MA Single</li> <li>E600120 (h<sub>od</sub> i↔o) S 1500 C<sub>mod</sub> AA Single</li> </ul>
 <p>on smoke extract ducts for increased temperatures</p>	<ul style="list-style-type: none"> <li>on sheet steel ducts tested in accordance with DIN EN 1366-9 or DIN EN 1366-1, or sheet steel ducts described and specified in accordance with the on-site fire protection concept, with the aim of complying with the equivalence of the planning, dimensioning and execution regulations of the national technical building regulations.</li> </ul>	<ul style="list-style-type: none"> <li>E600120 (v<sub>ed</sub> i↔o) S 1500 C<sub>mod</sub> MA Single</li> <li>E600120 (v<sub>ed</sub> i↔o) S 1500 C<sub>mod</sub> AA Single</li> </ul>
 <p>in horizontal smoke extract ducts for increased temperatures</p>	<ul style="list-style-type: none"> <li>on sheet steel ducts tested in accordance with DIN EN 1366-9 or DIN EN 1366-1, or sheet steel ducts described and specified in accordance with the on-site fire protection concept, with the aim of complying with the equivalence of the planning, dimensioning and execution regulations of the national technical building regulations.</li> </ul>	<ul style="list-style-type: none"> <li>E600120 (v<sub>ed</sub> i↔o) S 1500 C<sub>mod</sub> MA Single</li> <li>E600120 (v<sub>ed</sub> i↔o) S 1500 C<sub>mod</sub> AA Single</li> </ul>
 <p>at the end of horizontal smoke extract ducts for increased temperatures</p>	<ul style="list-style-type: none"> <li>on sheet steel ducts tested in accordance with DIN EN 1366-9 or DIN EN 1366-1, or sheet steel ducts described and specified in accordance with the on-site fire protection concept, with the aim of complying with the equivalence of the planning, dimensioning and execution regulations of the national technical building regulations.</li> </ul>	<ul style="list-style-type: none"> <li>E600120 (v<sub>ed</sub> i↔o) S 1500 C<sub>mod</sub> MA Single</li> <li>E600120 (v<sub>ed</sub> i↔o) S 1500 C<sub>mod</sub> AA Single</li> </ul>
 <p>on solid smoke extract ducts</p>	<ul style="list-style-type: none"> <li>on solid smoke extract ducts, if these ducts are intended exclusively for use at increased temperatures up to 600 °C</li> </ul>	<ul style="list-style-type: none"> <li>E600120 (v<sub>ed</sub> i↔o) S 1500 C<sub>mod</sub> MA Single</li> <li>E600120 (v<sub>ed</sub> i↔o) S 1500 C<sub>mod</sub> AA Single</li> </ul>

Note! For the intended use of manual release (MA), the actuator on the EK-JS smoke control damper is factory-encased.

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Table 2

Essential characteristics	Technical specification, section of EN 12101-8	Performance level	(●) Requirements met/Note
Nominal activation conditions/sensitivity	4.2.1.3		● / Suitability for manual and automatic release: verified
Response delay	4.2.1.4	AA / MA	● / Opening/closure within 25 minutes at fire temperature has been proven. Period of time < 60 s
Operational reliability	4.4.2.2	C <sub>10,000</sub> /C <sub>mod</sub>	● / 20,000 cycles, duration per cycle < 120 s
Fire resistance classification to EN 13501-4			
Integrity (E)	4.1.1 a)	E120	● / Details: Table 1
Leakage (S)	4.1.1 c)	ES1500	● / Pressure level 3, differential pressure: -1500 Pa to +500 Pa
Mechanical stability (part of E)	4.1.1 d)	E120	● / Details: Table 1
Maintenance of cross section (part of E)	4.1.1 e)	E120	● / Details: Table 1
<b>Durability (single sections)</b> Durability of response delay In connection with actuators and interface control units [B24] (BE24-ST TR, BEE24-ST TR, BEN24-ST TR) [B230] (BE230 TR, BEE230 TR, BEN230 TR) [B24A] ([B24] + TROXNETCOM control module AS-EM/EK) [B24AM] ([B24] + TROXNETCOM control module AS-EM/M) [B24AS] ([B24] + TROXNETCOM control module AS-EM/SIL2) [B24SR] (BEE24-SR-ST TR, BEN24-SR-ST TR) [B24BKNE] ([B24] + BKNE230-24) [B24C] ([B24] + BC24) [B24D] ([B24] + BRM-10-F-ST) [B230D] (B230 + BRM-10-F)	4.4.2.1	AA / MA	● / Opening/closure within 25 minutes at fire temperature has been proven. Period of time < 60 s



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<p><b>Durability (single sections)</b>  Durability of operational reliability  In connection with actuators and interface control units  [B24] (BE24-ST TR, BEE24-ST TR, BEN24-ST TR)  [B230] (BE230 TR, BEE230 TR, BEN230 TR)  [B24A] ([B24] + TROXNETCOM control module AS-EM/EK)  [B24AM] ([B24] + TROXNETCOM control module AS-EM/M)  [B24AS] ([B24] + TROXNETCOM control module AS-EM/SIL2)  [B24SR] (BEE24SR-ST TR, BEN24SR-ST TR)  [B24BKNE] ([B24] + BKNE230-24)  [B24C] ([B24] + BC24)  [B24D] ([B24] + BRM-10-F-ST)  [B230D] (B230 + BRM-10-F)</p>	4.4.2.2	C <sub>10,000</sub>	<ul style="list-style-type: none"> <li>/ 10,000 cycles, duration per cycle &lt; 120 s</li> </ul>
<p><b>Durability (single sections)</b>  Durability of operational reliability  In connection with actuators and interface control units  [B24AM] ([B24] + TROXNETCOM control module AS-EM/M)  [B24SR] (BEE24SR-ST TR, BEN24SR-ST TR)</p>	4.4.2.2	C <sub>mod</sub>	<ul style="list-style-type: none"> <li>/ 20,000 work cycles of cycle duration &lt; 120 s of which 10,000 work cycles with 45° to 60° swivel range</li> </ul>

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Table 3

Essential characteristics	Technical specifications	Performance level	(●) Requirements met/Note
Damper with cover grille	EN 1366-10, 5.2.3		● / Required; can also be used to terminate openings and ducts
Damper blade leakage	EN 1751	minimum class 2, from nominal width 840 × 480 class 3	●
Damper casing leakage	EN 1751	class B, from nominal width 840 × 480 class C	●

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 the manufacturer by

Neukirchen-Vluyn, 01.04.2024



Jan Heymann • Authorised Representative • CE-marked products