

# Declaration of performance


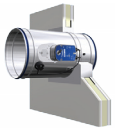
DoP/FKR-EU/DE/002



**TROX<sup>®</sup> TECHNIK**  
The art of handling air

<b>1 Product</b>	<b>FKR-EU</b> Unique identification code of the product type																
<b>2 Intended use</b>	Fire damper																
<b>3 Manufacturer</b>	<table border="0"> <tr> <td>TROX GmbH</td> <td>Phone +49 (0)2845 2020</td> </tr> <tr> <td></td> <td>Fax +49 (0)2845 202265</td> </tr> <tr> <td>Heinrich-Trox-Platz</td> <td>E-mail trox@trox.de</td> </tr> <tr> <td>47504 Neukirchen-Vluyn, Germany</td> <td>Internet www.troxtechnik.com</td> </tr> <tr> <td>TROX HESCO Schweiz AG</td> <td>Phone +41 (0)55250 7111</td> </tr> <tr> <td></td> <td>Fax +41 (0)55250 7310</td> </tr> <tr> <td>Walderstrasse 125</td> <td>E-mail info@troxhesco.ch</td> </tr> <tr> <td>8630 Rüti ZH Switzerland</td> <td>Internet www.troxhesco.com</td> </tr> </table>	TROX GmbH	Phone +49 (0)2845 2020		Fax +49 (0)2845 202265	Heinrich-Trox-Platz	E-mail trox@trox.de	47504 Neukirchen-Vluyn, Germany	Internet www.troxtechnik.com	TROX HESCO Schweiz AG	Phone +41 (0)55250 7111		Fax +41 (0)55250 7310	Walderstrasse 125	E-mail info@troxhesco.ch	8630 Rüti ZH Switzerland	Internet www.troxhesco.com
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<b>5 System of assessment and verification of constancy of performance</b>	System 1																
<b>6 Harmonised standard</b> <b>Notified body/ies</b>	<p>EN 15650:2010</p> <p>The notified body 1322 - IBS 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:</p> <p>1322-CPR-74135/05 1322-CPR-61977/03</p>																

## 7 Declared performances

Essential characteristic: fire resistance – size [mm]: Ø 315 to Ø 800				
Supporting construction	Construction details	Installation location	Installation type	Class of performance (EI TT)
 Solid wall	<ul style="list-style-type: none"> <li>d ≥ 100 mm</li> <li>ρ ≥ 500 kg/m<sup>3</sup></li> <li>Minimum distance to load-bearing structural elements ≥ 40 mm</li> <li>Distance between casings ≥ 40 mm</li> </ul>	in the wall	Mortar-based installation	EI 120 (v <sub>e</sub> i↔o) S
 Lightweight partition wall	<ul style="list-style-type: none"> <li>Metal stud wall, gypsum plasterboard DF</li> <li>d ≥ 100 mm</li> <li>With or without mineral wool</li> <li>Installation kit TQ</li> </ul>	in the wall	Dry mortarless installation	EI 90 (v <sub>e</sub> i↔o) S
	<ul style="list-style-type: none"> <li>Metal stud wall, gypsum plasterboard DF</li> <li>d ≥ 100 mm</li> <li>With or without mineral wool</li> <li>Minimum distance to load-bearing structural elements ≥ 40 mm</li> <li>Distance between casings ≥ 40 mm</li> </ul>	in the wall	Mortar-based installation	EI 90 (v <sub>e</sub> i↔o) S

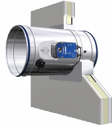


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**Essential characteristic: fire resistance — size [mm]: Ø 315 to Ø 800**

Supporting construction	Construction details	Installation location	Installation type	Class of performance (EI TT)
 <p>Lightweight partition wall</p>	<p><b>Fire wall</b></p> <ul style="list-style-type: none"> <li>• Metal stud wall with sheet steel</li> <li>• <math>d \geq 115</math> mm</li> <li>• With or without mineral wool</li> <li>• Minimum distance to load-bearing structural elements <math>\geq 40</math> mm</li> <li>• Distance between casings <math>\geq 40</math> mm</li> </ul>	in the wall	Mortar-based installation	EI 90 ( $v_0$ i $\leftrightarrow$ o) S
	<p><b>Fire wall</b></p> <ul style="list-style-type: none"> <li>• Metal stud wall with sheet steel</li> <li>• <math>d \geq 115</math> mm</li> <li>• With or without mineral wool</li> <li>• Installation kit TQ</li> </ul>	in the wall	Dry mortarless installation	EI 90 ( $v_0$ i $\leftrightarrow$ o) S
	<ul style="list-style-type: none"> <li>• Metal stud wall, gypsum plasterboard DF</li> <li>• <math>d \geq 75</math> mm</li> <li>• With or without mineral wool</li> <li>• Wall thickness increased to <math>d \geq 100</math> mm</li> </ul>	in the wall	Mortar-based installation	EI 30 ( $v_0$ i $\leftrightarrow$ o) S
	<ul style="list-style-type: none"> <li>• Metal stud wall, gypsum plasterboard DF</li> <li>• <math>d \geq 75</math> mm</li> <li>• With or without mineral wool</li> <li>• Wall thickness increased to <math>d \geq 100</math> mm</li> <li>• Installation kit TQ</li> </ul>	in the wall	Dry mortarless installation	EI 30 ( $v_0$ i $\leftrightarrow$ o) S
 <p>Shaft wall</p>	<ul style="list-style-type: none"> <li>• With metal support structure, cladding on one side</li> <li>• <math>d \geq 90</math> mm</li> <li>• 2 x 20 mm gypsum plasterboard DF</li> <li>• Minimum distance to load-bearing structural elements <math>\geq 40</math> mm</li> </ul>	in the wall	Mortar-based installation	EI 90 ( $v_0$ i $\leftrightarrow$ o) S
	<ul style="list-style-type: none"> <li>• Without metal support structure</li> <li>• <math>d \geq 50</math> mm</li> <li>• 2 x 25 mm gypsum plasterboard DF</li> <li>• Minimum distance to load-bearing structural elements <math>\geq 40</math> mm</li> </ul>	in the wall	Mortar-based installation	EI 90 ( $v_0$ i $\leftrightarrow$ o) S
 <p>Solid ceiling slab</p>	<ul style="list-style-type: none"> <li>• <math>d \geq 150</math> mm</li> <li>• <math>\rho \geq 600</math> kg/m<sup>3</sup></li> <li>• Minimum distance to load-bearing structural elements <math>\geq 40</math> mm</li> <li>• Distance between casings <math>\geq 40</math> mm</li> </ul>	in the ceiling	Mortar-based installation	EI 120 ( $h_0$ i $\leftrightarrow$ o) S

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## 7 Declared performances

Essential characteristics	Technical specification	Performance
<b>Nominal activation conditions/sensitivity</b> <ul style="list-style-type: none"><li>Sensing element load-bearing capacity</li><li>Sensing element response temperature 72 °C, 95 °C</li></ul>	ISO 10294-4:2001	Pass
<b>Response delay/response time</b> <ul style="list-style-type: none"><li>Closure time</li></ul>	EN 1366-2:1999	Pass
<b>Operational reliability</b> <ul style="list-style-type: none"><li>Open and closing cycle, 50 cycles</li></ul>	EN 15650:2010 EN 1366-2:1999	Pass
<b>Durability of response delay</b> <ul style="list-style-type: none"><li>Sensing element response to temperature and load-bearing capacity</li></ul>	ISO 10294-4:2001	Pass
<b>Durability of operational reliability</b> <ul style="list-style-type: none"><li>Testing of the open and closing cycle, 10,000 cycles<ul style="list-style-type: none"><li>B(L)F(TL)-T-(ST)-TR(-2)</li><li>ExMax 15-BF-TR</li><li>RedMax 15-BF-TR</li></ul></li></ul>	EN 15650:2010	Pass
<b>Protection against corrosion</b>	EN 15650:2010	Pass
<b>Damper blade leakage</b>	EN 1751:1999	Class 4
<b>Damper casing leakage</b>	EN 1751:1999	Class C

The classification of the fire damper must not be higher than the classification of the wall or ceiling slab it is installed in. In this case the classification of the fire damper is reduced to the certified classification of the wall/ceiling slab.

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 March 2015

Jan Heymann • Authorised Representative • CE-marked products