Declaration of performance



DoP/FKRS-EU/DE/002

Product

FKRS-EU

Unique identification code of the product type

Intended use Fire damper

3 Manufacturer TROX GmbH Phone +49 (0)2845 2020

Fax +49 (0)2845 202265

Heinrich-Trox-Platz E-mail trox@trox.de

47504 Neukirchen-Vluyn, Internet www.troxtechnik.com

Germany

5 System of assessment and verification of constancy of System 1 performance

6 Harmonised standard

Notified body or body/ies

EN 15650:2010

The notified bodies 0749 - BCCA and 1322 - IBS carried out the initial inspection of the manufacturing plant 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:

0749-CPR-BC1-606-4645-15650.04-4651 and

1322-CPR-74135/02

7 Declared performances

Essential characteristic: fire resistance — size [mm]: Ø 100 to Ø 200				
Supporting construction	Construction details	Installation location	Installation type	Class of performance (EI TT)
Solid wall	 d ≥ 100 mm ρ ≥ 500 kg/m³ 	in the wall	Fire batt	El 120 (v _e i↔o) S
Lightweight partition wall	Metal stud wall, gypsum plasterboard DF d ≥ 100 mm With or without mineral wool	in the wall	Mortar-based installation	El 120 (v _e i↔o) S
	Metal stud wall, gypsum plasterboard DF d ≥ 100 mm With or without mineral wool	in the wall	Dry mortarless installation	El 120 (v _e i↔o) S

11/2014 – DE/en Page 1/5

Declaration of performance DoP/FKRS-EU/DE/002





Essential characteristic: fire resistance — size [mm]: Ø 100 to Ø 200				
Supporting construction	Construction details	Installation location	Installation type	Class of performance (EI TT)
Lightweight partition wall	 Metal stud wall, gypsum plasterboard DF d ≥ 100 mm With or without mineral wool 	in the wall	Fire batt	El 120 (v _e i↔o) S
	Metal stud wall, gypsum plasterboard DF d ≥ 100 mm With or without mineral wool Minimum distance to load-bearing structural elements ≥ 40 mm Distance between casings ≥ 40 mm	in the wall	Fire batt	El 90 (v _e i↔o) S

Essential characteristic: fire resistance — size [mm]: Ø 100 to Ø 315				
Supporting construction	Construction details	Installation location	Installation type	Class of performance (ELTT)
Solid wall	• d ≥ 100 mm • ρ ≥ 500 kg/m ³	in the wall	Dry mortarless installation	El 90 (v _e i⇔o) S
	• d ≥ 100 mm • ρ ≥ 500 kg/m ³	on the face of the wall	Dry mortarless installation	El 90 (v _e i⇔o) S
	 d ≥ 100 mm ρ ≥ 500 kg/m³ Minimum distance to load-bearing structural elements ≥ 40 mm Distance between casings ≥ 40 mm 	in the wall	Mortar-based installation	El 120 (v _e i↔o) S
	 d ≥ 100 mm ρ ≥ 500 kg/m³ Minimum distance to load-bearing structural elements ≥ 40 mm Distance between casings ≥ 40 mm 	in the wall	Fire batt	El 90 (v _e i↔o) S

11/2014 – DE/en Page 2/5

Declaration of performance

DoP/FKRS-EU/DE/002





Essential characteristic: fire resistance — size [mm]: Ø 100 to Ø 315				
Supporting construction	Construction details	Installation location	Installation type	Class of performance (EI TT)
Lightweight partition wall	Metal stud wall, gypsum plasterboard DF d ≥ 100 mm With or without mineral wool Minimum distance to load-bearing structural elements ≥ 40 mm Distance between casings ≥ 40 mm	in the wall	Mortar-based installation	El 90 (v _e i↔o) S
	Metal stud wall, gypsum plasterboard DF d ≥ 100 mm With or without mineral wool Minimum distance to load-bearing structural elements ≥ 40 mm Distance between casings ≥ 40 mm	in the wall	Fire batt	El 90 (v _e i↔o) S
	Metal stud wall, gypsum plasterboard DF d ≥ 100 mm With or without mineral wool	in the wall	Dry mortarless installation	El 90 (v _e i↔o) S
	Fire wall • Metal stud wall with sheet steel • d ≥ 115 mm • Minimum distance to load-bearing structural elements ≥ 40 mm	in the wall	Mortar-based installation	El 90 (v _e i↔o) S
	Fire wall • Metal stud wall with sheet steel • d ≥ 115 mm	in the wall	Dry mortarless installation	El 90 (v _e i↔o) S
	 Metal stud wall, gypsum plasterboard DF d ≥ 75 mm With or without mineral wool Wall thickness increased to d ≥ 100 mm 	in the wall	Mortar-based installation	El 30 (v _e i↔o) S
	 Metal stud wall, gypsum plasterboard DF d ≥ 75 mm With or without mineral wool Wall thickness increased to d ≥ 100 mm 	in the wall	Dry mortarless installation	El 30 (v _e i↔o) S

11/2014 – DE/en Page 3/5

Declaration of performance





DoP/FKRS-EU/DE/002

Essential characteristic: fire resistance — size [mm]: Ø 100 to Ø 315				
Supporting construction	Construction details	Installation location	Installation type	Class of performance (EI TT)
Lightweight partition wall	Flexible ceiling joint • Metal stud wall, gypsum plasterboard DF • d ≥ 100 mm • With or without mineral wool • Minimum distance to load-bearing structural elements ≥ 50 mm	in the wall	Dry mortarless installation	El 90 (v _e i↔o) S
Shaft wall	 With metal support structure, cladding on one side d ≥ 90 mm 2 x 20 mm gypsum plasterboard DF 	in the wall	Mortar-based installation	El 90 (v _e i↔o) S
	 With metal support structure, cladding on one side d ≥ 90 mm 2 x 20 mm gypsum plasterboard DF 	in the wall	Dry mortarless installation	El 90 (v _e i↔o) S
Solid ceiling slab	 d ≥ 150 mm ρ ≥ 600 kg/m³ Distance between casings ≥ 45 mm 	in the ceiling	Mortar-based installation	El 120 (h _o i↔o) S
	• d≥150 mm • ρ≥600 kg/m³	in the ceiling	Dry mortarless installation	El 90 (h₀ i↔o) S
	 d ≥ 150 mm ρ ≥ 600 kg/m³ 	in the ceiling	Fire batt	El 90 (h₀ i ↔ o) S

11/2014 – DE/en Page 4/5

Declaration of performance DoP/FKRS-EU/DE/002



7 Declared performances

Essential characteristics	Technical specification	Performance	
Nominal activation conditions/sensitivity			
 Sensing element load-bearing capacity Sensing element response temperature 72 °C, 95 °C 	ISO 10294-4:2001	Pass	
Response delay/response time	EN 1000 0:1000		
Closure time	EN 1366-2:1999	Pass	
Operational reliability	EN 15650:2010	Pass	
Open and closing cycle, 50 cycles	EN 1366-2:1999		
Durability of response delay	100 40004 4 0004	Pass	
Sensing element response to temperature and load-bearing capacity	ISO 10294-4:2001		
Durability of operational reliability			
 Testing of the open and closing cycle, 10,000 cycles B(L)F-T-(ST)-TR 	EN 15650:2010	Pass	
Protection against corrosion	EN 15650:2010	Pass	
Damper blade leakage	EN 1751:1999	Class 3	
Damper casing leakage	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.

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 November 2014

lan Heymann • Authorised Representative