

1	Product Unique identification code of the product type	FKR-EU		
2	Intended use	Fire damper		
3	Manufacturer	TROX GmbH	Phone Fax	+49 (0)2845 2020 +49 (0)2845 202265
		Heinrich-Trox-Platz 47504 Neukirchen-Vluyn, Germany	E-mail Internet	trox@trox.de www.troxtechnik.com
5	System of assessment and verification of constancy of performance	System 1		
6	Harmonised standard	EN 15650:2010		
	Notified body/ies	The notified body 1322 - IBS the manufacturing plants an as well as the continuous su evaluation of factory product of the Construction Product	d of the factorial of the control of	ctory production control , assessment and ol according to System 1 on and issued the

1322-CPR-74135/05 1322-CPR-61977/03

certificate of constancy of performance:

7 Declared performances

Essential characteristic: fire resistance — size [mm]: Ø 315 to Ø 800				
Supporting construction	Construction	Installation location	Installation type	Class of performance (EI TT)
Solid wall	 d ≥ 100 mm 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
Lightweight partition wall	Metal support structure or steel support structure Gypsum bonded or cement bonded panel materials, fibrereinforced gypsum or fire rated calcium silicate boards d ≥ 98 mm With or without mineral wool Distance to load-bearing structural elements ≥ 40 mm Installation kit TQ	in the wall	Dry mortarless installation	El 90 (v _e i↔o) S
	 Metal support structure or steel support structure Gypsum bonded or cement bonded panel materials, fibrereinforced gypsum or fire rated calcium silicate boards d ≥ 98 mm With or without mineral wool 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

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	Essential characteristic: fire resistance — size [mm]: Ø 315 to Ø 800				
Supporting construction	Construction	Installation location	Installation type	Class of performance (ELTT)	
Lightweight partition wall	 Metal stud wall with sheet steel insert, used as a fire wall, safety partition wall or to provide radiation protection Gypsum bonded or cement bonded panel materials or fibre-reinforced gypsum d ≥ 100 mm With or without mineral wool 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 with sheet steel insert, used as a fire wall, safety partition wall or to provide radiation protection Gypsum bonded or cement bonded panel materials or fibre-reinforced gypsum d ≥ 100 mm With or without mineral wool Installation kit TQ	in the wall	Dry mortarless installation	El 90 (v _e i↔o) S	
	Metal stud wall Gypsum bonded or cement bonded panel materials, fibre-reinforced gypsum or fire rated calcium silicate boards d ≥ 75 mm With or without mineral wool Wall thickness increased to d ≥ 98 mm	in the wall	Mortar-based installation	El 30 (v _e i↔o) S	
	Metal stud wall Gypsum bonded or cement bonded panel materials, fibre-reinforced gypsum or fire rated calcium silicate boards d ≥ 75 mm With or without mineral wool Wall thickness increased to d ≥ 98 mm Installation kit TQ	in the wall	Dry mortarless installation	El 30 (v _e i↔o) S	
	Timber stud wall (also timber panel constructions and timber frames) Gypsum bonded or cement bonded panel materials, fibrereinforced gypsum or fire rated calcium silicate boards d ≥ 130 mm Distance between casings ≥ 40 mm Distance to load-bearing structural elements ≥ 40 mm	in the wall	Mortar-based installation	El 90 (v _e i↔o) S	
	Timber stud wall (also timber panel constructions and timber frames) Gypsum bonded or cement bonded panel materials, fibrereinforced gypsum or fire rated calcium silicate boards d ≥ 130 mm Installation kit TQ	in the wall	Dry mortarless installation	El 90 (v _e i↔o) S	
	Timber stud wall (also timber panel constructions and timber frames) Gypsum bonded or cement bonded panel materials, fibrereinforced gypsum or fire rated calcium silicate boards d ≥ 105 mm Wall thickness increased to d ≥ 130 mm Distance between casings ≥ 40 mm Distance to load-bearing structural elements ≥ 40 mm	in the wall	Mortar-based installation	El 30 (v _e i↔o) S	
	Timber stud wall (also timber panel constructions and timber frames) Gypsum bonded or cement bonded panel materials, fibrereinforced gypsum or fire rated calcium silicate boards d ≥ 105 mm Wall thickness increased to d ≥ 130 mm Installation kit TQ	in the wall	Dry mortarless installation	El 30 (v _e i↔o) S	

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Essential characteristic: fire resistance — size [mm]: Ø 315 to Ø 800				
Supporting construction	Construction	Installation location	Installation type	Class of performance (EI TT)
Lightweight	Half-timbered wall Gypsum bonded or cement bonded panel materials, fibre-reinforced gypsum or fire rated calcium silicate boards d ≥ 140 mm Distance between casings ≥ 40 mm Distance to load-bearing structural elements ≥ 40 mm	in the wall	Mortar-based installation	El 90 (v _e i↔o) S
partition wall	Half-timbered wall Gypsum bonded or cement bonded panel materials, fibrereinforced gypsum or fire rated calcium silicate boards d ≥ 140 mm Installation kit TQ	in the wall	Dry mortarless installation	El 90 (v _e i↔o) S
	Half-timbered wall Gypsum bonded or cement bonded panel materials, fibrereinforced gypsum or fire rated calcium silicate boards d≥ 115 mm Wall thickness increased to d≥ 140 mm Distance between casings ≥ 40 mm Distance to load-bearing structural elements ≥ 40 mm	in the wall	Mortar-based installation	El 30 (v _e i↔o) S
	Half-timbered wall Gypsum bonded or cement bonded panel materials, fibre-reinforced gypsum or fire rated calcium silicate boards d ≥ 115 mm Wall thickness increased to d ≥ 140 mm Installation kit TQ	in the wall	Dry mortarless installation	El 30 (v _e i⇔o) S
Shaft wall	 Metal support structure or steel support structure Gypsum bonded or cement bonded panel materials, fibrereinforced gypsum or fire rated calcium silicate boards Cladding on one side d ≥ 90 mm Distance to load-bearing structural elements ≥ 40 mm 	in the wall	Mortar-based installation	El 90 (v _e i↔o) S
	Metal support structure Additional safety board Gypsum bonded or cement bonded panel materials, fibrereinforced gypsum or fire rated calcium silicate boards Cladding on one side with reinforcing board ≥ 90 mm	in the wall	Mortar-based installation	El 90 (v _e i↔o) S
	 without metal support structure Gypsum bonded or cement bonded panel materials, fibrereinforced gypsum or fire rated calcium silicate boards Cladding on one side d ≥ 50 mm Distance to load-bearing structural elements ≥ 40 mm 	in the wall	Mortar-based installation	El 90 (v _e i↔o) S
Solid ceiling slab	d ≥ 100 mm Distance between casings ≥ 40 mm Distance to load-bearing structural elements ≥ 40 mm	in the ceiling	Mortar-based installation	El 120 (h₀ i↔o) S
	d ≥ 100 mm combined with wooden beam ceilings Distance between casings ≥ 40 mm Distance to load-bearing structural elements ≥ 40 mm	in the ceiling	Mortar-based installation	El 90 (h₀ i↔o) S
	d ≥ 100 mm Combined with suspended ceiling systems (Cadolto system) Distance between casings ≥ 40 mm Distance to load-bearing structural elements ≥ 40 mm	in the ceiling	Mortar-based installation	El 120 (h₀ i↔o) S

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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 0015	
Closure time	EN 1366-2:2015	Pass
Operational reliability	EN 15650:2010	Pass
Open and closing cycle, 50 cycles	EN 1366-2:2015	
Durability of response delay	100 10004 4:0001	Dana
Sensing element response to temperature and load-bearing capacity	ISO 10294-4:2001	Pass
Durability of operational reliability		
 Testing of the open and closing cycle, 10,000 cycles BLF 230-T-(ST) TR, BLF 24-T-(ST) TR BF 230-T-(ST) TR, BF 24-T-(ST) TR BF 24-TL-T-ST(-2) TR BFN 230-T-(ST) TR, BFN 24-T-(ST) TR BFL 230-T-(ST) TR, BFL 24-T-(ST) TR EXMax 15-BF TR, RedMax 15-BF TR GGA126.1E/T/GGA326.1E/T GNA126.1E/T/GNA326.1E/T GNA126.1E/T/GNA326.1E/T 	EN 15650:2010	Pass
Protection against corrosion	EN 15650:2010	Pass
Damper blade leakage	EN EN 1751:2014	Class 4
Damper casing leakage	EN EN 1751:2014	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 class of performance of the wall or ceiling slab applies also to the fire damper.

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 2017

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Jan Heymann • Authorised Representative • CE-marked products