



Notified Body No. 2434

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CENTRUM TECHNIKI OKRĘTOWEJ S.A.

PRODUCT CERTIFICATION DIVISION



AC 170

CERTIFICATE OF CONSTANCY OF PERFORMANCE

2434-CPR-0032

In compliance with *Regulation (EU) No 305/2011 of the European Parliament and of the Council of 9 March 2011* (the Construction products Regulation or CPR) as amended, this certificate applies to the construction product

FCE fire damper

with fire resistance class acc. to EN 13501-3:2005+A1:2009

EI 45 (ve, ho i↔o) S / EI 60 (ve, ho i↔o) S / E120 (ve, ho i↔o) S

placed on the market under the name or trade mark of:

Halton Marine Oy

Pulttikatu 2

15700 Lahti, Finland

and produced in the manufacturing plant:

Halton Marine Oy

Pulttikatu 2

15700 Lahti, Finland

This certificate attests that all provisions concerning the assessment and verification of constancy of performance described in Annex ZA of the standard

EN 15650:2010

under system 1 for the performance set out in this certificate are applied and that the factory production control conducted by the manufacturer is assessed to ensure the constancy of performance of the construction product.

This certificate was first issued on 01.04.2019, amended on 09.03.2020 and 12.08.2020 and will remain valid as long as neither the harmonised standard, the construction product, the assessment and verification of constancy of performance methods nor the manufacturing conditions in the plant are modified significantly, unless suspended or withdrawn by the notified product certification body.


Magdalena Łaskowska

Head of Product Certification Division of CTO S.A.

Gdańsk, 12.08.2020

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Performance of FCE fire damper

Essential characteristics	Requirements of EN 15650:2010 Standard	Level, class and/or description	Assessment
Nominal activation conditions/sensitivity	4.2.1.2	-	fulfils
Sensing element response temperature	4.2.1.2.2	-	fulfils
Sensing element load bearing capacity	4.2.1.2.3	-	fulfils
Response delay (response time)			
Closure time	4.2.1.3	≤ 2 min	fulfils
Operational reliability			
Cycling	4.3.1a	50 cycles	fulfils
Fire resistance			
- integrity	4.1.1a	E 120 (ve, ho i↔o)	fulfils
- insulation	4.1.1.b	EI 45 (ve, ho i↔o) EI 60 (ve, ho i↔o)	fulfils
- smoke leakage	4.1.1c	S	fulfils
- mechanical stability (under E)	4.1.1a	-	fulfils
- maintenance of the cross section (under E)	4.1.1a	-	fulfils
Durability of response delay			
Sensing element response to temperature and load bearing capacity	4.2.1.2.2 4.2.1.2.3	-	fulfils
Durability of operational reliability			
Open and closing cycle tests	4.3.3.2	10 200	fulfils

Technical parameters of FCE fire damper

Shape, dimensions :	Rectangular of 150x150 mm minimum, 1000x1000 mm maximum dimensions
Housing material	galvanized steel sheet, stainless steel sheet, 1 to 3 mm thickness
Blades	max. 5 psc. with horizontal axis rotation
Release mechanism:	Belimo BF230-T, BF-230-TN, BF-24-T, BF-24-TN with thermoelectric trigger. Schischek ExMax-15 BF, RedMax-15BF, InMax-15-BF1 with thermoelectric triggers (mounted on exposed side). Petz QT.Ex-MFD10-SL, QT.Ex-MFD10-SH, QT-Ex-MFD03-SL, QT.Ex-MFD03-SH with thermoelectric triggers, Petz QT.Nc-MFD10-SL, QT.Nc-MFD10-SH, QT.Nc-MFD03-SL, QT.Nc-MFD03-SH with thermoelectric triggers.
Separating elements:	
Vertical:	Flexible or rigid standard supporting construction.
Mounting remote from the separating element, 1000mm from the wall	Supporting construction with the fire resistance equal to or greater than that of the standard supporting construction used for the test.
Horizontal:	Standard supporting construction – 110 mm (for EI60 class) or 150 mm (for E120 class) thick concrete floor of 2200±200 kg/m ³ density
Mounting remote from the separating element, 1000mm from the floor	Supporting construction with the fire resistance equal to or greater than that of the standard supporting construction used for the test.
Minimal distance between dampers installed in separate ducts:	200 mm
Minimal distance between damper installed in separating element and nearby wall or ceiling:	75 mm
Assembly method	The flanges between the fire damper and the duct should be insulated with fire rated sealant. The duct and the casing of the damper should be insulated with 66 kg/m ³ or 128 kg/m ³ dense ceramic wool.

Detailed technical parameters and final classification conditions in accordance with EN 13501-3:2005 + A1: 2009 can be found in Classification Reports No. LBO-1145-K/18E dated 26.09.2018, LBO-1153-K/18E dated 16.10.2018, LBO-1167-K/18E dated 17.10.2018, LBO-1168-K/18E dated 17.10.2018, LBO-1309-K/19E dated 20.01.2020, LBO-1347-K/19E dated 20.01.2020, LBO-1384-K/19E dated 20.01.2020 and LBO-1385-K/19E dated 20.01.2020.

Intended use:

In air ventilation systems for protection of ventilation crossing in separating elements. Works against spreading of fire and smoke by ventilation installations through maintaining of integrity and/or insulation and/or smoke leakage criteria.