MANDÍK

DECLARATION OF PERFORMANCE
No. PM/FDMQ/01/22/1

1.	Unique identification code of the product-type	**FDMQ**
2.	Products	Fire dampers
	Intended use	To be used in conjunction with partitions to maintain fire compartments in heating, ventilating and air conditioning installations.
	Technical documentation – product information, instruction for installation and maintenance, safety information	Technical specifications TPM 103/14
3.	Manufacturer	MANDÍK, a.s. Dobříšská 550, 26724 Hostomice, Czech Republic ID 26718405, tel. +420 311 706 706 mandik@mandik.cz, www.mandik.com
5.	System of AVCP	System 1
6.	Harmonised standard	EN 15650:2010
	Notified body	Notified body No. 1391 PAVUS, a.s., Prosecká 412/74, 190 00 Praha 9 – Prosek
	Output documents of the notified body	Certificate of Constancy of Performance No. 1391-CPR-2021/0144 Assessment Report of Performance of Construction Product No. P-1391-CPR-2021/0144

7a.	**Declared performances – fire resistance classification** Essential characteristics in accordance with EN 15650:2010, art. 4.1.1	
Fire separating construction, location of the damper	*Installation type, installation system*	*Performance – class of fire resistance*
Solid wall construction – damper in the wall – 100 mm min. wall thickness	Mortar or gypsum [1],[3]	If stated on the purchase order EI 120 (v_e i↔o) S, otherwise EI 90 (v_e i↔o) S
	Battery – mortar or gypsum [1]	EI 90 (v_e i↔o) S
	Installation next to wall – mortar or gypsum and mineral wool [1],[3]	
	Stuffing box with fire protection mastic and cement lime plate [1],[3]	
	Installation frame E1, E2, E4 [1],[3]	
	Weichschott [1],[2],[3]	
	Battery – installation frame E1 [1]	
	Fire protection foam with stucco plaster [1],[3]	According to materials and installation system used EI 60 (v_e i↔o) S, or EI 45 (v_e i↔o) S, or EI 30 (v_e i↔o) S

(table continues)

1] Refer to Technical documentation for the details of the installation type / installation system.
2] Materials of the fire-resistant panel and paint may be replaced by a similar approved system of the equivalent performance.
3] The damper may be used also with a smoke detector and grille, not connected to duct.

(continuation of the table)

Fire separating construction, location of the damper	*Installation type, installation system*	*Performance – class of fire resistance*
Solid wall construction – damper outside the wall – 100 mm min. wall thickness	Insulation of the duct with cement lime plates – installation frame E6 [1]	EI 90 (v_e i↔o) S
	Insulation of the duct with mineral wool + stuffing box with fire protection mastic and cement lime plate [1]	
	Insulation of the duct with mineral wool + mortar or gypsum [1]	EI 60 (v_e i↔o) S
	Insulation of the duct with mineral wool + stuffing box with fire protection mastic [1]	
Gypsum plasterboard wall construction – damper in the wall – 100 mm min. wall thickness	Mortar or gypsum [1],[3]	If stated on the purchase order EI 120 (v_e i↔o) S, otherwise EI 90 (v_e i↔o) S
	Battery – mortar or gypsum [1]	EI 90 (v_e i↔o) S
	Installation next to wall – mortar or gypsum and mineral wool [1],[3]	
	Stuffing box with fire protection mastic and cement lime plate [1],[3]	
	Installation frame E1, E3, E4 [1],[3]	
	Weichschott [1],[2] [3]	
	Battery – installation frame E1 [1],[3]	
	Flexible ceiling – installation frame E5 [1],[3]	
	Fire protection foam with stucco plaster [1] [3]	According to materials and installation system used EI 60 (v_e i↔o) S, or EI 45 (v_e i↔o) S, or EI 30 (v_e i↔o) S
Gypsum plasterboard wall construction – damper outside the wall – 100 mm min. wall thickness	Insulation of the duct with mineral wool + stuffing box with fire protection mastic and cement lime plate [1]	EI 90 (v_e i↔o) S
	Insulation of the duct with mineral wool + mortar or gypsum [1]	EI 60 (v_e i↔o) S
	Insulation of the duct with mineral wool + stuffing box with fire protection mastic [1]	
Sandwich wall construction – damper in the wall – 100 mm min. wall thickness	Ruukki SPB W – stuffing box with fire protection mastic and cement lime plate [1],[3]	EI 90 (v_e i↔o) S
	Paroc AST S – stuffing box with fire protection mastic and cement lime plate [1],[3]	
	Stuffing box with fire protection mastic and cement lime plate [1],[3]	EI 60 (v_e i↔o) S
Solid ceiling construction – damper in the ceiling – ceiling thickness – min. 110 mm for concrete – min. 125 mm for aerated concrete	Mortar or gypsum [1]	If stated on the purchase order EI 120 (h_o i↔o) S, otherwise EI 90 (h_o i↔o) S
	Battery – mortar or gypsum [1]	EI 90 (h_o i↔o) S
	Stuffing box with fire protection mastic and cement lime plate [1]	
	Installation frame E1, E2, E4 [1]	
	Weichschott [1],[2]	
	Battery – installation frame E1 [1]	
	Installation frame E1 [1]	

(table continues)

1] Refer to Technical documentation for the details of the installation type / installation system.
2] Materials of the fire-resistant panel and paint may be replaced by a similar approved system of the quivalent performance.
3] The damper may be used also with a smoke detector and grille, not connected to duct.

(continuation of the table)

Fire separating construction, location of the damper	*Installation type, installation system*	*Performance – class of fire resistance*
Solid ceiling construction – damper outside the ceiling – ceiling thickness – min. 110 mm for concrete – min. 125 mm for aerated concrete	Insulation of the duct with mineral wool + mortar or gypsum [1]	EI 90 (h_o i↔o) S
	Concrete [1]	
	Concrete with installation frame E4 [1]	
	Insulation of the duct with cement lime plates – installation frame E6 [1]	
Thin shaft construction [1]	Mortar or gypsum [1]	EI 90 (v_e i↔o) S
	Installation frame E1 [1]	
EN Spec British Gypsum shaftwall construction EI 120 – wall thickness min. 107 mm	Mortar or gypsum [1]	If stated on the purchase order and damper dimensions up to 1500 x 650 mm EI 120 (v_e i↔o) S; otherwise NPD (no performance determined)

1] Refer to Technical documentation for the details of the installation type / installation system.

7b.	**Declared performances – other essential characteristics**

Essential characteristics	*Requirements (provisions of the harmonised standard EN 15650:2010)*	*Performance (lever or class) / Compliance with the requirements*
Nominal activation conditions/sensitivity:	4.2.1.2	Conforms
– sensing element load bearing capacity	4.2.1.2.2	Conforms
– sensing element response temperature	4.2.1.2.3	Conforms
Response delay (response time): – closure time	4.2.1.3	Conforms
Operational reliability: – cycling	4.3.1, a)	50 cycles – conforms
Durability of response delay: – sensing element response to temperature and load bearing capacity	4.2.1.2.2 4.2.1.2.3	Conforms
Durability of operational reliability: – opening and closing cycle tests	4.3.3.2	10 000 + 100 + 100 cycles – conforms

The performance of the product identified above is in conformity with the set of declared performance/s. 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:

In Hostomice, 2022-02-07

Jan Mičan
CEO, Ppa
MANDÍK, a.s.

Declared performances – other characteristics		
Characteristics	*Technical standard*	*Performance (lever or class) / Compliance with the requirements*
Resistance against corrosion	EN 15650:2010, art. 4.2.2 EN 15650:2010, Annexe B	Conforms
Damper blade tightness	EN 1751:2014	Class 3
Damper casing tightness	EN 1751:2014	Class C

Additional provisions for use of the product in Austria

The product-type products meet also all requirements of ÖNORM H 6025 standard, cf. Assessment Report of Performance of Construction Product No. P-1391-CPR-2021/0144.