DECLARATION OF PERFORMANCE
No. PM/FDMR/01/21/3

1.	Unique identification code of the product-type	**FDMR**
2.	Products	Dampers – Fire dampers
	Intended use	Fire safety. 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 140/19
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-2021/0145 Assessment Report of Performance of Construction Product No. P-1391-CPR-2021/0145

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]	EI 120 (v_e i↔o) S [3] EI 90 (v_e i↔o) S [4]
	Stuffing box with fire protection mastic and coating [1], [4]	EI 90 (v_e i↔o) S
	Battery – mortar or gypsum [1]	
	Installation next to wall, ceiling – mortar or gypsum and mineral wool [1], [4]	
	Installation next to wall, ceiling – mortar or gypsum [1] , [4]	
	Installation next to wall, ceiling – installation frame R1, R2, R3, R4, R5 and mineral wool [1], [4]	
	Stuffing box with fire protection mastic and cement lime plate [1], [4]	
	Installation frame R1, R2, R3, R4, R5 [1], [4]	
	Weichschott [1], [2] , [4]	
	Battery – installation frame R1 [1]	

(table continues)

[1] Refer to Technical documentation for the details of the installation type / installation system.
[2] Installation materials may be replaced by a similar approved system of the equivalent performance.
[3] Tested at increased test vacuum of 500 Pa.
[4] Damper may be used 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 in the wall – 100 mm min. wall thickness	Stuffing box with fire protection mastic [1], [4]	EI 60 (v_e i↔o) S
	Fire protection foam with stucco plaster [1], [4]	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
Solid wall construction – damper outside the wall – 100 mm min. wall thickness	Insulation of the duct with cement lime plates – installation frame R6 [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 – ISOVER ULTIMATE PROTECT [1], [2]	According to insulation thickness EI 90 (v_e i↔o) S, or EI 60 (v_e i↔o) S
	Insulation of the duct with mineral wool + stuffing box with fire protection mastic – ISOVER ULTIMATE PROTECT [1], [2]	
Gypsum plasterboard wall construction – damper in the wall – 100 mm min. wall thickness	Mortar or gypsum [1]	EI 120 (v_e i↔o) S [3] EI 90 (v_e i↔o) S [4]
	Stuffing box with fire protection mastic and coating [1], [4]	EI 90 (v_e i↔o) S
	Battery – mortar or gypsum [1], [4]	
	Installation next to wall, ceiling – mortar or gypsum and mineral wool [1], [4]	
	Installation next to wall, ceiling – mortar or gypsum [1], [4]	
	Installation next to wall, ceiling – installation frame R1, R2, R5 and mineral wool [1], [4]	
	Stuffing box with fire protection mastic and cement lime plate [1], [4]	
	Installation frame R1, R2, R3, R4, R5 [1], [4]	
	Weichschott [1], [2], [4]	
	Battery – installation frame R1 [1], [4]	
	Flexible ceiling – installation frame R7 [1], [4]	
	Wooden construction (beams 60x60mm) – Weichschott [1], [2], [4]	
	Stuffing box with fire protection mastic [1], [4]	EI 60 (v_e i↔o) S
	Fire protection foam with stucco plaster [1], [4]	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] Installation materials may be replaced by a similar approved system of the equivalent performance.

[3] Tested at increased test vacuum of 500 Pa.

[4] Damper may be used 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*
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 – ISOVER ULTIMATE PROTECT [1], [2]	According to insulation thickness EI 90 (v_e i↔o) S, or EI 60 (v_e i↔o) S
	Insulation of the duct with mineral wool – stuffing box with fire protection mastic – ISOVER ULTIMATE PROTECT [1], [2]	
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]	EI 120 (h_o i↔o) S [3] EI 90 (h_o i↔o) S [4]
	Paroc AST S – stuffing box with fire protection mastic and cement lime plate [1]	
	Stuffing box with fire protection mastic and cement lime plate [1], [4]	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]	EI 120 (h_o i↔o) S [3] 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]	
	Stuffing box with fire protection mastic and coating [1]	
	Installation frame R1, R2, R3, R4, R5 [1]	
	Weichschott [1],[2]	
	Battery – installation frame R2 [1]	
	Stuffing box with fire protection mastic [1]	EI 60 (h_o i↔o) S
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 R5 [1]	
	Insulation of the duct with cement lime plates – installation frame R6 [1]	
	Insulation of the duct with mineral wool – mortar or gypsum – ISOVER ULTIMATE PROTECT [1], [2]	According to insulation thickness EI 90 (h_o i↔o) S, or EI 60 (h_o i↔o) S
Thin shaft construction [1]	Mortar or gypsum [1]	EI 90 (v_e i↔o) S
	Installation frame R1 [1]	

[1] Refer to Technical documentation for the details of the installation type / installation system.
[2] Installation materials may be replaced by a similar approved system of the equivalent performance.
[3] Tested at increased test vacuum of 500 Pa.
[4] Damper may be used with a smoke detector and grille, not connected to duct.

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

7c.	**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

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, 2021-10-25

Marcel Mandík
CEO
MANDÍK, a.s.

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-2021/0145.