

1.	Unique identification code of the product-type	<b>FDMA-PM</b> The product-type products may be delivered also under identification codes PKTM 90PM-K, FDMA-PM, and BSK-A-90-R.
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 <a href="#">TPM 145/20</a>
3.	Manufacturer	MANDÍK, a.s. Dobříšská 550, 26724 Hostomice, Czech Republic ID 26718405, tel. +420 311 706 706 <a href="mailto:mandik@mandik.cz">mandik@mandik.cz</a> , <a href="http://www.mandik.com">www.mandik.com</a>
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-2016/0158 Assessment Report of Performance of Construction Product No. P-1391-CPR-2016/0158

7a. <b>Declared performances – fire resistance classification</b> Essential characteristics in accordance with EN 15650:2010, art. 4.1.1		
<i>Fire separating construction, location of the damper</i>	<i>Installation type, installation system</i>	<i>Performance – class of fire resistance</i>
Solid wall construction – damper in the wall – 100 mm min. wall thickness	Mortar or gypsum <sup>1)</sup>	If stated on the purchase order EI 120 (v <sub>e</sub> i↔o) S, otherwise EI 90 (v <sub>e</sub> i↔o) S
	Battery – mortar or gypsum <sup>1)</sup>	
	Installation next to wall, ceiling – mortar or gypsum and mineral wool <sup>1)</sup>	EI 90 (v <sub>e</sub> i↔o) S
	Installation next to wall, ceiling – mortar or gypsum <sup>1)</sup>	
	Installation next to wall, ceiling – installation frame R1, R2, R3, R4, R5	
	Stuffing box with fire protection mastic and cement lime plate <sup>1)</sup>	
	Installation frame E1, E2, E4 <sup>1)</sup>	
	Weichschott <sup>1),2)</sup>	
Battery – installation frame R1 <sup>1)</sup>		

(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.

(continuation of the table)

<i>Fire separating construction, location of the damper</i>	<i>Installation type, installation system</i>	<i>Performance – class of fire resistance</i>
Solid wall construction – damper outside the wall – 100 mm min. wall thickness	Insulation of the duct with cement lime plates – installation frame R6 <sup>1)</sup>	EI 90 (v <sub>e</sub> i↔o) S
	Insulation of the duct with mineral wool + stuffing box with fire protection mastic and cement lime plate <sup>1)</sup>	
	Insulation of the duct with mineral wool + mortar or gypsum <sup>1)</sup>	EI 45 (v <sub>e</sub> i↔o) S
	Insulation of the duct with mineral wool + stuffing box with fire protection mastic <sup>1)</sup>	
Gypsum plasterboard wall construction – damper in the wall – 100 mm min. wall thickness	Mortar or gypsum <sup>1)</sup>	If stated on the purchase order EI 120 (v <sub>e</sub> i↔o) S, otherwise EI 90 (v <sub>e</sub> i↔o) S
	Battery – mortar or gypsum <sup>1)</sup>	EI 90 (v <sub>e</sub> i↔o) S
	Installation next to wall, ceiling – mortar or gypsum and mineral wool <sup>1)</sup>	
	Installation next to wall, ceiling – mortar or gypsum <sup>1)</sup>	
	Installation next to wall, ceiling – installation frame R1, R2, R3, R5 and mineral wool <sup>1)</sup>	
	Stuffing box with fire protection mastic and cement lime plate <sup>1)</sup>	
	Installation frame R1, R2, E3, R4, R5 <sup>1)</sup>	
	Weichschott <sup>1),2)</sup>	
Battery – installation frame R1 <sup>1)</sup>		
Flexible ceiling – installation frame R7 <sup>1)</sup>		
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 <sup>1)</sup>	EI 90 (v <sub>e</sub> i↔o) S
	Insulation of the duct with mineral wool + mortar or gypsum <sup>1)</sup>	EI 45 (v <sub>e</sub> i↔o) S
	Insulation of the duct with mineral wool + stuffing box with fire protection mastic <sup>1)</sup>	
Solid ceiling construction – damper in the ceiling – ceiling thickness – min. 110 mm for concrete – min. 125 mm for aerated concrete	Mortar or gypsum <sup>1)</sup>	If stated on the purchase order EI 120 (h <sub>o</sub> i↔o) S, otherwise EI 90 (h <sub>o</sub> i↔o) S
	Battery – mortar or gypsum <sup>1)</sup>	EI 90 (h <sub>o</sub> i↔o) S
	Stuffing box with fire protection mastic and cement lime plate <sup>1)</sup>	
	Installation frame R1, R2, R3, R4, R5 <sup>1)</sup>	
	Weichschott <sup>1),2)</sup>	
Battery – installation frame R2 <sup>1)</sup>		
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 <sup>1)</sup>	EI 90 (h <sub>o</sub> i↔o) S
	Concrete <sup>1)</sup>	
	Concrete with installation frame R5 <sup>1)</sup>	
	Insulation of the duct with cement lime plates – installation frame R6 <sup>1)</sup>	
Thin shaft construction – 100 mm min. wall thickness	Mortar or gypsum <sup>1)</sup>	EI 90 (v <sub>e</sub> i↔o) S
	Installation frame R1 <sup>1)</sup>	

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.

7b.	<b>Declared performances – other essential characteristics</b>	
<i>Essential characteristics</i>	<i>Requirements (provisions of the harmonised standard EN 15650:2010)</i>	<i>Performance (lever or class) / Compliance with the requirements</i>
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.	<b>Declared performances – other characteristics</b>	
<i>Characteristics</i>	<i>Technical standard</i>	<i>Performance (lever or class) / Compliance with the requirements</i>
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, 24 February 2020



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-2016/0158 from 9 November 2016.