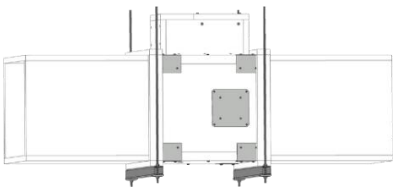
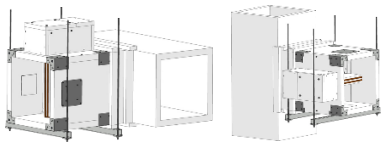
DECLARATION OF PERFORMANCE
No. PM/SEDM/01/22/3

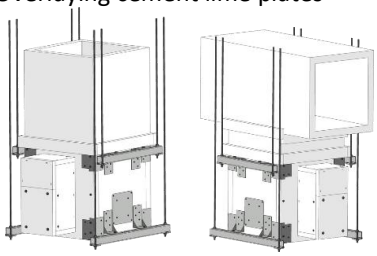
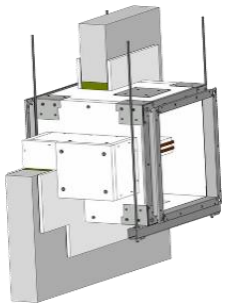
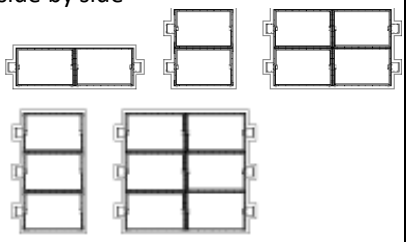
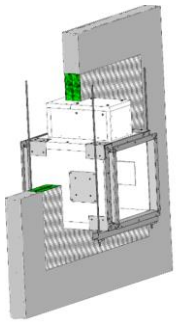
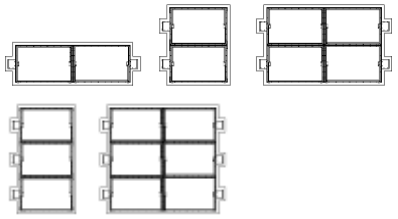
1.	Unique identification code of the product-type	**SEDM**
2.	Products	Smoke control dampers
	Intended use	Smoke control dampers that are to be used in multi compartment smoke control systems, either at 600 °C or under fire conditions
	Technical documentation – product information, instruction for installation and maintenance, safety information	Technical specifications TPM 087/12
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 12101-8:2011
	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-2021/0130 Assessment Report of Performance of Construction Product No. P-1391-CPR-2021/0130

7a.	**Declared performances – fire resistance classification** Essential characteristics in accordance with EN 12101-8:2011, art. 4.1.1	
Fire separating construction, location of the damper	*Installation type, installation system*	*Performance* *– class of fire resistance*
Horizontal duct	Overlaying cement lime plates [1]  	EI 120 (h_{od}-v_{ed} i↔o) S1000C_{mod}HOT 400/30MAmulti[3] EI 120 (h_{od}-v_{ed} i↔o) S1000C_{mod}HOT 400/30AAmulti

(table continues)

[1] Refer to Technical documentation for the details of the installation type / installation system.
[3] In practice, the dampers will never be in open position at the beginning of danger from smoke.

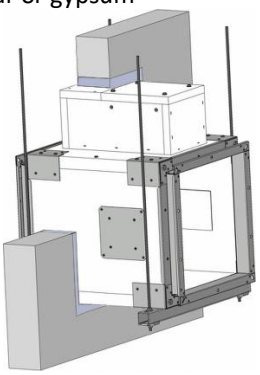
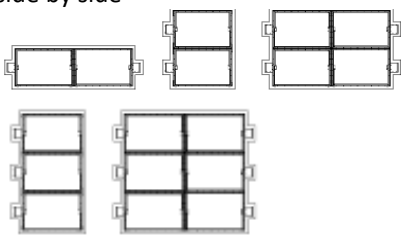
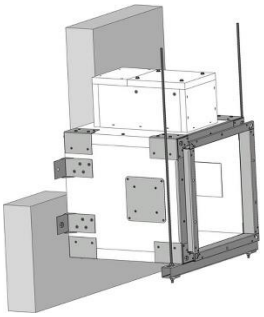
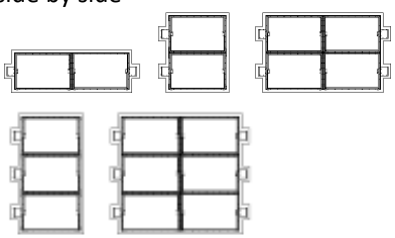
(continuation of the table)

Fire separating construction, location of the damper	*Installation type, installation system*	*Performance – class of fire resistance*
Vertical duct	Overlaying cement lime plates [1] 	EI 120 (h_{od}-v_{ed} i↔o) S1000C_{mod}HOT 400/30MAmulti[3] EI 120 (h_{od}-v_{ed} i↔o) S1000C_{mod}HOT 400/30AAmulti
Solid wall construction – damper in the wall – 100 mm minimum wall thickness for aerated concrete	Mineral wool [1]  including assembly of dampers – side by side [1] 	EI 120 (v_{ew} i↔o) S1000C_{mod}HOT 400/30AAmulti
	Weichschott / Ablative Coated Batt [1],[2]  including assembly of dampers – side by side [1] 	EI 120 (v_{ew} i↔o) S1500C_{mod}HOT 400/30MAmulti[3],[4] EI 90 (v_{ew} i↔o) S1500C_{mod}HOT 400/30AAmulti[4]

(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] In practice, the dampers will never be in open position at the beginning of danger from smoke.
[4] Tested at increased overpressure of 500 Pa.

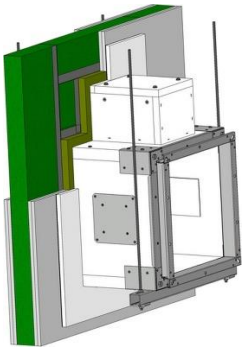
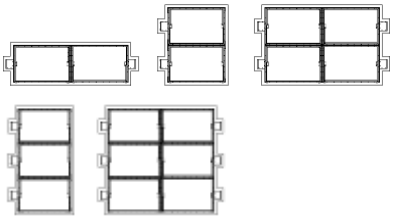
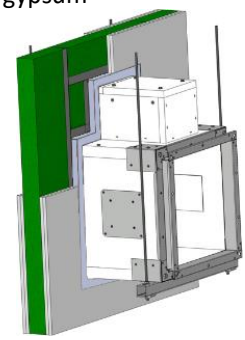
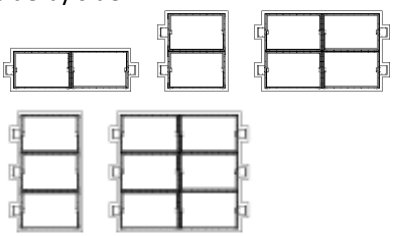
(continuation of the table)

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 minimum wall thickness for aerated concrete	Mortar or gypsum [1]  including assembly of dampers – side by side [1] 	EI 90 (v_{ew} i↔o) S1500C_{mod}HOT 400/30MAmulti[3],[4] EI 90 (v_{ew} i↔o) S1500C_{mod}HOT 400/30AAmulti[4] EI 120 (v_{ew} i↔o) S1000C_{mod}HOT 400/30AAmulti
Solid wall construction – damper on the wall – 100 mm minimum wall thickness for aerated concrete	Ceramic paper [1]  including assembly of dampers – side by side [1] 	EI 120 (v_{ew} i↔o) S1000C_{mod}HOT 400/30AAmulti

(table continues)

[1] Refer to Technical documentation for the details of the installation type / installation system.
[3] In practice, the dampers will never be in open position at the beginning of danger from smoke.
[4] Tested at increased overpressure of 500 Pa.

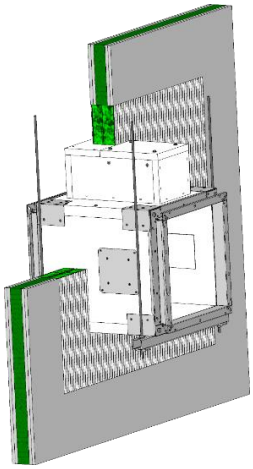
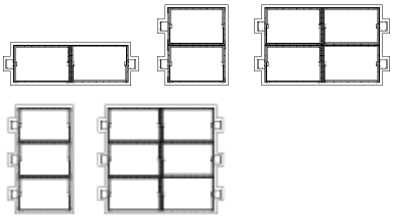
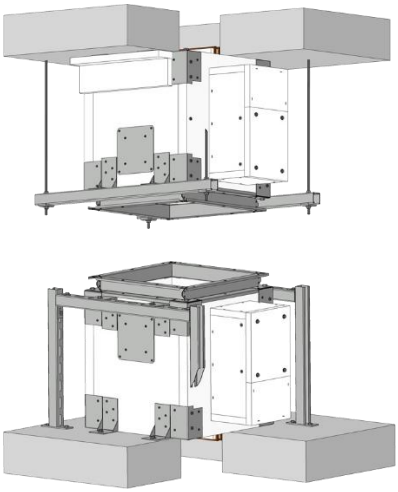
(continuation of the table)

Fire separating construction, location of the damper	*Installation type, installation system*	*Performance – class of fire resistance*
Gypsum plasterboard wall construction – damper in the wall – 100 mm min. wall thickness	Mineral wool [1]  including assembly of dampers – side by side [1] 	EI 90 (v_{ew} i↔o) S1500C_{mod}HOT 400/30MAmulti[3],[4] EI 90 (v_{ew} i↔o) S1500C_{mod}HOT 400/30AAmulti[4] EI 120 (v_{ew} i↔o) S1000C_{mod}HOT 400/30AAmulti
	Mortar or gypsum [1]  including assembly of dampers – side by side [1] 	

(table continues)

[1] Refer to Technical documentation for the details of the installation type / installation system.
[3] In practice, the dampers will never be in open position at the beginning of danger from smoke.
[4] Tested at increased overpressure of 500 Pa.

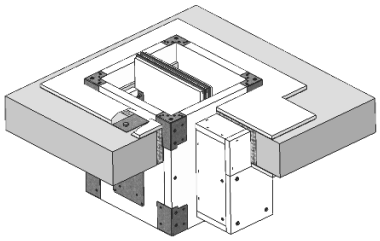
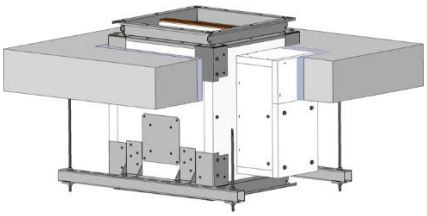
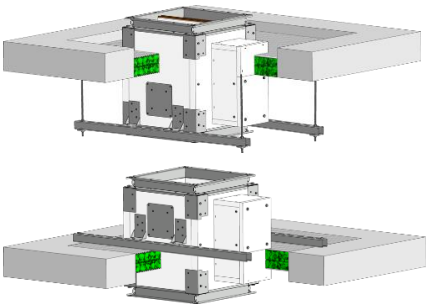
(continuation of the table)

Fire separating construction, location of the damper	*Installation type, installation system*	*Performance – class of fire resistance*
Gypsum plasterboard wall construction – damper in the wall – 100 mm min. wall thickness	Weichschott / Ablative Coated Batt [1],[2]  including assembly of dampers – side by side [1] 	EI 120 (v_{ew} i↔o) S1500C_{mod}HOT 400/30MAmulti[3],[4] EI 120 (v_{ew} i↔o) S1500C_{mod}HOT 400/30AAmulti[4]
Solid ceiling construction – damper on the ceiling – min. wall thickness 110 mm for concrete, 125 mm for aerated concrete	Ceramic paper, plating [1] 	EI 90(h_{ow} i↔o) S1000C_{mod}HOT 400/30AAmulti

(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] In practice, the dampers will never be in open position at the beginning of danger from smoke.
[4] Tested at increased overpressure of 500 Pa.

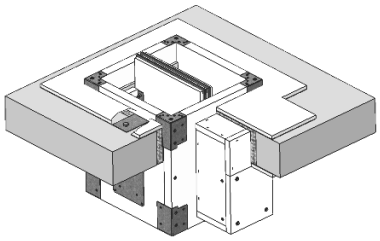
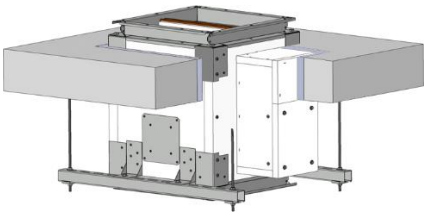
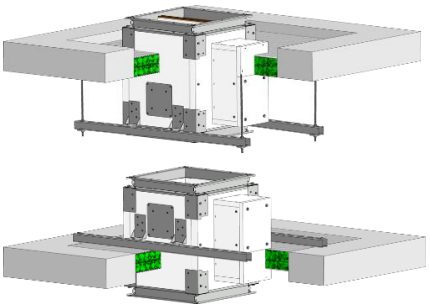
(continuation of the table)

Fire separating construction, location of the damper	*Installation type, installation system*	*Performance – class of fire resistance*
Solid ceiling construction – damper in the ceiling – min. wall thickness 150 mm for concrete, 125 mm for aerated concrete	Mineral wool [1] 	EI 120 (h_{ow} i↔o) S1500C_{mod}HOT 400/30MAmulti[3],[4] EI 120 (h_{ow} i↔o) S1500C_{mod}HOT 400/30AAmulti[4]
	Mortar or gypsum [1] 	
	Weichschott / Ablative Coated Batt [1],[2] 	EI 120 (h_{ow} i↔o) S1500C_{mod}HOT 400/30AAmulti[4]

(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] In practice, the dampers will never be in open position at the beginning of danger from smoke.
[4] Tested at increased overpressure of 500 Pa.

(continuation of the table)

Fire separating construction, location of the damper	*Installation type, installation system*	*Performance – class of fire resistance*
Solid ceiling construction – damper in the ceiling – min. wall thickness 110 mm for concrete, 125 mm for aerated concrete	Mineral wool [1] 	EI 90 (h_{ow} i↔o) S1500C_{mod}HOT 400/30MAmulti[3],[4] EI 90 (h_{ow} i↔o) S1500C_{mod}HOT 400/30AAmulti[4]
	Mortar or gypsum [1] 	
	Weichschott / Ablative Coated Batt [1],[2] 	EI 90 (h_{ow} i↔o) S1500C_{mod}HOT 400/30AAmulti[4]

[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] In practice, the dampers will never be in open position at the beginning of danger from smoke.
[4] Tested at increased overpressure of 500 Pa.

7b.	**Declared performances – other essential characteristics** Essential characteristics in accordance with EN 15650:2010, art. 4.1.1	
Essential characteristics	*Requirements (provisions of harmonised standard EN 12101-8:2011)*	*Performance (lever or class) / Compliance with the requirements*
Nominal activation conditions/sensitivity	4.2.1.3	Conforms
Response delay (response time)	4.2.1.4	Conforms
Operational reliability	4.3.2.2	C 10 000 – conforms Cmod – conforms
Fire resistance – integrity (E)	4.1.1 a)	E – conforms
Fire resistance – insulation (EI)	4.1.1 b)	EI – conforms
Fire resistance – smoke leakage (ES)	4.1.1 c)	EIS – conforms
Fire resistance – mechanical stability (under E)	4.1.1 d)	Conforms
Fire resistance – maintenance of cross section (under E)	4.1.1 e)	Conforms
Fire resistance – high operational temperature	4.1.1 f)	HOT 400/30 – conforms
Durability – of response delay	4.3.2.1	Conforms
Durability – of operational reliability	4.3.2.2	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, 2022-06-27

Mgr. Jan Mičan
CEO, Ppa
MANDÍK, a.s.

Declared performances – other characteristics		
Characteristics	*Technical standard*	*Performance (lever or class) / Compliance with the requirements*
Damper blade tightness	EN 1751:2014	Class 2
Damper casing tightness	EN 1751:2014	Class C