

Declaration of performance

DoP No. 711/ENG/02-2023

Identification mark	FDC25/40 – Cylindrical fire damper	
Purpose of the product	It is used in combination with fire protection elements to ensure fire protection zones in HVAC installations	
Manufacturer	KLIMAOPREMA d.d. Gradna 78A, 10430 Samobor, Croatia	
System for evaluating and verifying the constancy of properties	System 1	
Harmonised norm	EN 15650:2010	
Notified body	EFECTIS, France – Notified body 1812 – Certificate of constancy of performance 1812 CPR - 1161	
Declared properties	Characteristic	Property/Result
	Nominal activation conditions/sensitivity according to ISO 10294-4: - sensing element load bearing capacity - sensing element response temperature	Passed
	Response delay (closing time): - response delay (closing time) according to EN 1366-2	Passed
	Operational reliability: - cycles (opening, closing) according to EN 1366-2:	Passed
	Resistance to fire: - integrity E, insulation I - smoke leakage S - mechanical stability (under E) - cross-section integrity (under E)	EI 90 S (ve - ho, i ↔ o) EI 120 S (ve - ho, i ↔ o)
	Durability of response delay: - the sensing element responds to temperature and load capacity	Passed
	Durability of operational reliability: - opening and closing cycles	10 000 cycles
	Corrosion protection: - according to EN 60068-2-52	NPD
	Casing airtightness: - according to EN 1751	Class ≥ C
	Damper blade airtightness: - according to EN 1751	Class ≥ 3

This Declaration of performance is available at: www.klimaoprema.com.

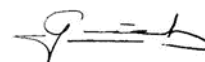
The previously determined property of the product is in accordance with the published properties. This Declaration of performance is issued in accordance with Regulation (EU) No. 305/2011 laying down harmonized conditions for the placing of construction products on the market, Delegated Regulation (EU) No. 574/2014, Delegated Regulation (EU) No. 568/2014, under the sole responsibility of the previously determined manufacturer.

Signed for the manufacturer on his behalf:

Sergio Galošić, CEO

Samobor, 10.02.2023.

2 klimaoprema d.d.
Za projektiranje, proizvodnju, postavljanje,
popravak i održavanje opreme za klimatizaciju
10430 SAMOBOR, GRADNA 78/A



To achieve the declared properties, this product must be used in accordance with the manufacturer's specifications and technical instructions!

Range	Supporting construction	Wall thickness	Supporting construction details	Type of installation	Classification	Tested underpres-sure	Details	Construction type	Sealing type
d100-d800 mm	Rigid wall	≥ 100 mm	Aerated concrete (≥ 550kg/m³) Reinforced concrete (≥ 2200kg/m³)	Gypsum plaster / Mortar	EI 120 (ve i↔o)S	500Pa	▼		
				Mineral wool and cover boards	EI 90 (ve i↔o)S	500Pa	▼		
				Fire Batt/ Weichschott		300Pa	▼		
	Flexible wall	≥ 70 mm	Gypsum blocks (≥ 995kg/m³)	Gypsum plaster / Mortar and cover boards	EI 120 (ve i↔o)S	500Pa	▼		
			Plasterboard type F (EN520), mineral wool up to 115 kg/m³	Gypsum plaster / Mortar	FDC 25 EI 90 (ve i↔o)S FDC 40 EI 120 (ve i↔o)S	300Pa	▼		
		≥ 100 mm	A: Plasterboard type F (EN520), mineral wool up to 100 kg/m³	Gypsum plaster / Mortar and cover boards	A: EI 120 (ve i↔o)S B: EI 60 (ve i↔o)S	500Pa	▼		
				Mineral wool and cover boards	A: EI 90 (ve i↔o)S B: EI 60 (ve i↔o)S	500Pa	▼		
			B: Plasterboard type A (EN520), mineral wool up to 60 kg/m³	Fire Batt/ Weichschott	A: EI 90 (ve i↔o)S B: EI 60 (ve i↔o)S	300Pa	▼		
		≥ 75 mm	Plasterboard type F (EN520), mineral wool up to 115 kg/m³	Fire Batt/ Weichschott	EI 45 (ve i↔o)S	300Pa	▼		
				Cross laminated timber (480 kg/m³)	EI 90 (ve i↔o)S	300Pa	▼		
		≥ 100 mm	Mineral wool (≥ 23 kg/m³)	Eurobond Firemaster Extra	FDC25:EI 60 (i↔o)S FDC40:EI 60 (i↔o)S	300Pa	▼		
	Flexible wall + Sliding ceiling	≥ 100 mm	Gypsum blocks (≥ 450 kg/m³)	Gypsum plaster / Mortar + Mineral wool (70 kg/m³)	FDC25:EI 120 (ve i↔o)S FDC40:EI 120 (ve i↔o)S	300Pa	▼		
	Floor/ceiling	≥ 100 mm	Aerated concrete (≥ 550kg/m³) Reinforced concrete (≥ 2200kg/m³)	Gypsum plaster / Mortar and cover boards + Mineral wool (115 kg/m³)	FDC25:EI 90 (ve i↔o)S FDC40:EI 120 (ve i↔o)S	300Pa	▼		
				Gypsum plaster / Mortar	EI 120 (ho i↔o)S	500Pa	▼		
				Fire Batt/ Weichschott	EI 90 (ho i↔o)S	300Pa	▼		

INSTALLATION

Check for more information about certificate installations in the declaration of performance:

- Aerated concrete (≥ 550 kg/m³) or reinforced concrete (≥ 2200 kg/m³) wall, more than 100 mm thick
- Gypsum blocks (≥ 995 kg/m³) wall, more than 70 mm thick
- Plasterboard wall, type F (EN520), Plasterboard wall, type A (EN520), more than 100 mm thick
- Shaft wall, steel frame construction
- Aerated concrete (≥ 550 kg/m³) or reinforced concrete (≥ 2200 kg/m³) ceiling / floor, more than 100 mm thick

FIRE DAMPER - FDC

- Gypsum plaster, mortar sealing or mortar and cover boards. Mortar EN 998-2 Classes M 2.5 to M 20 or equivalent mortars that meet the requirements of the above standards, gypsum mortar or concrete.
- Sealing with mineral wool and cover boards
- Sealing with mineral wool and fireproof coating - FireBatt / Weichschott
- Applique kit installation
- MF1/MF2 kit installation
- Remote from wall installation

APP INSTALLATION FRAME d100-d315 mm	Rigid wall	≥ 100 mm	Aerated concrete (≥ 550kg/m³) Reinforced concrete (≥ 2200kg/m³)	APPLIQUE (installation frame)	EI 90 (ve i↔o)S	500Pa	▼		
		≥ 70 mm	Gypsum blocks (≥ 995kg/m³)	APPLIQUE (installation frame)	EI 90 (ve i↔o)S	500Pa	▼		
	Flexible wall	≥ 100 mm	Plasterboard type F (EN520)	APPLIQUE (installation frame)	EI 90 (ve i↔o)S	500Pa	▼		
MF1/ MF2 INSTALLATION FRAME FDC25 MF1 d100-d315 mm FDC40 MF2 d355-d800 mm	Rigid wall	≥ 100 mm	Aerated concrete (≥ 550kg/m³) Reinforced concrete (≥ 2200kg/m³)	MF1/MF2 (installation frame)	FDC25:EI 60 (ve i↔o)S FDC40:EI 90 (ve i↔o)S	500Pa	▼		
		≥ 70 mm	Gypsum blocks (≥ 995kg/m³)	MF1/MF2 (installation frame)	FDC25:EI 60 (ve i↔o)S FDC40:EI 90 (ve i↔o)S	500Pa	▼		
	Flexible wall	≥ 100 mm	Plasterboard A:type A (EN520) B:type F (EN520)	MF1/ MF2 (installation frame)	A:FDC25:EI 60 (ve i↔o)S B:FDC40:EI 90 (ve i↔o)S	500Pa	▼		
	Floor/ceiling	≥ 100 mm	Aerated concrete (≥ 550kg/m³) Reinforced concrete (≥ 2200kg/m³)	MF1/MF2 (installation frame)	FDC25:EI120 (ho i↔o)S FDC40:EI 90 (ho i↔o)S	300Pa	▼		
MF2 INSTALLATION FRAME FDC25 MF2 d100-d315 mm FDC40 MF2 d355-d800 mm	Flexible wall	≥ 75 mm	Shaft wall (steel frame)	MF2 (installation frame)	FDC25:EI 60 (ve i↔o)S FDC40:EI 60 (ve i↔o)S	300Pa	▼		
		≥ 90 mm			FDC25:EI 90 (ve i↔o)S FDC40:EI 90 (ve i↔o)S				
ISOVER FDC25 d100-d315 mm FDC40 d355-d630 mm	Flexible wall		Plasterboard type F (EN520)	REMOTE FROM WALL (Isover)	EI 60 (ve i↔o)S	300Pa	▼		
	Rigid wall	≥ 100 mm	Aerated concrete (≥ 550kg/m³) Reinforced concrete (≥ 2200kg/m³)						



INSTALLATION

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- 
Aerated concrete (≥ 550 kg/m³) or reinforced concrete (≥ 2200 kg/m³) wall, more than 100 mm thick
- 
Gypsum blocks (≥ 995 kg/m³) wall, more than 70 mm thick
- 
Plasterboard wall, type F (EN520), Plasterboard wall, type A (EN520), more than 100 mm thick
- 
Shaft wall, steel frame construction
- 
Aerated concrete (≥ 550 kg/m³) or reinforced concrete (≥ 2200 kg/m³) ceiling / floor, more than 100 mm thick

FIRE DAMPER - FDC

- 
Gypsum plaster, mortar sealing or mortar and cover boards
- 
Sealing with mineral wool and cover boards
- 
Sealing with mineral wool and fireproof coating - FireBatt / Weichschott
- 
Applique kit installation
- 
MF1/MF2 kit installation
- 
Remote from wall installation