

Declaration of performance

DoP br. 710/ENG/02-2023

Identification mark	FD25/40 – 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	EFFECTIS, France – NB 1812 – Certificate of constancy of performance 1812 CPR - 1162	
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) - according to EN13501-3	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.

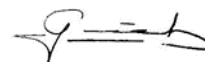
The previously determined property of the product is in accordance with the published properties. This Declaration of performance is issued in accordance with Regulation (EU) No. 305/2011 laying down harmonized conditions for the placing of construction products on the market, Delegated Regulation (EU) 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	Type of installation	Wall thickness	Supporting construction details	Classification	Tested under pressure	Details
FD25 / FD40	Rigid wall	Gypsum plaster/Mortar	≥ 100 mm	Aerated concrete (≥ 550 kg/m³) Reinforced concrete (≥ 2200 kg/m³)	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	Gypsum plaster/Mortar and cover boards	≥ 70 mm	Gypsum blocks (≥ 995 kg/m³)	EI 120 (ve i↔o)S	500Pa	  
		Gypsum plaster/Mortar and cover boards		A: Plasterboard type F (EN520), mineral wool up to 100 kg/m³	A: EI 120 (ve i↔o)S B: EI 60 (ve i↔o)S	500Pa	  
		Mineral wool and cover boards		B: Plasterboard type A (EN520), mineral wool up to 60 kg/m³	A: EI 90 (ve i↔o)S B: EI 60 (ve i↔o)S	500Pa	  
		Fire Batt/Weichschott	≥ 100 mm	Wooden wall with density 480 kg/m³	A: EI 90 (ve i↔o)S B: EI 60 (ve i↔o)S	300Pa	  
		Cross laminated timber			EI 90 (ve i↔o)S	300Pa	  
		Eurobond Firemaster Extra			FD25: EI 60 (i↔o)S FD40: EI 60 (i↔o)S	300Pa	  
		Eurobond Firemaster Extra, Battery 2x2, 1x2, 2x1			FD40: EI 90 (i↔o)S	300Pa	  
	Flexible wall + Sliding ceiling	Gypsum plaster / Mortar + Mineral wool (70 m³/h)	≥ 100 mm	Gypsum blocks (≥ 450 kg/m³)	FD25:EI 120 (ve i↔o)S FD40:EI 120 (ve i↔o)S	300Pa	  
		Mineral wool and cover boards + Mineral wool (115 m³/h)	≥ 100 mm	Plasterboard type F (EN520)	FD25:EI 90 (ve i↔o)S FD40:EI 120 (ve i↔o)S	300Pa	  
APPLIQUE INSTALLATION FRAME FD25 APP 100x200 till 800x600 mm	Rigid wall	Gypsum plaster/Mortar	≥ 100 mm	Aerated concrete (≥ 550 kg/m³) Reinforced concrete (≥ 2200 kg/m³)	EI 120 (ho i↔o)S	500Pa	  
		Fire Batt/Weichschott			EI 90 (ho i↔o)S	300Pa	  
	Flexible wall	APPLIQUE (installation frame)	≥ 70 mm	Gypsum blocks (≥ 995 kg/m³)	EI 90 (ve i↔o)S	500Pa	  
		APPLIQUE (installation frame)	≥ 100 mm	Plasterboard type F (EN520)	EI 90 (ve i↔o)S	500Pa	  
		APPLIQUE (installation frame)	≥ 100 mm	Plasterboard type F (EN520)	EI 90 (ve i↔o)S	500Pa	  
	Rigid wall	APPLIQUE (installation frame)	≥ 100 mm	Aerated concrete (≥ 550 kg/m³) Reinforced concrete (≥ 2200 kg/m³)	EI 90 (ve i↔o)S	500Pa	  
		APPLIQUE (installation frame)	≥ 100 mm	Aerated concrete (≥ 550 kg/m³) Reinforced concrete (≥ 2200 kg/m³)	EI 90 (ve i↔o)S	500Pa	  

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

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-  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 fireproof coating - FireBatt
-  Sealing with mineral wool and cover boards
-  Applique kit installation
-  MF1/MF2 kit installation
-  Remote from wall installation
-  Battery installation

Range	Supporting construction	Type of installation	Wall thickness	Supporting construction details	Classification	Tested under pressure	Details		
MF1/ MF2 INSTALLATION FRAME FD25 MF1 100x200 till 800x600 mm FD25 MF2 100x200 till 800x600 mm (only shaft wall!) FD40 MF2 800x600 till 1500x800 mm	Rigid wall	MF1/MF2 (installation frame)	≥ 100 mm	Aerated concrete (≥ 550 kg/m³) Reinforced concrete (≥ 2200kg/m³)	FD25: EI 60 (ve i↔o)S FD40: EI 90 (ve i↔o)S	500Pa	▼		
	Flexible wall	MF1/MF2 (installation frame)	≥ 70 mm	Gypsum blocks (≥ 995 kg/m³)	FD25: EI 60 (ve i↔o)S FD40: EI 90 (ve i↔o)S	500Pa	▼		
	Flexible wall	MF1/MF2 (installation frame)	≥ 100 mm	Plasterboard A: type A (EN520) B: type F (EN520)	A: FD25: EI 60 (ve i↔o)S B: FD40: EI 90 (ve i↔o)S	500Pa	▼		
	Floor/ceiling	MF1/MF2 (installation frame)	≥ 100 mm	Aerated concrete (≥ 550 kg/m³) Reinforced concrete (≥ 2200 kg/m³)	FD25: EI 120 (ho i↔o)S FD40: EI 90 (ho i↔o)S	300Pa	▼		
	Flexible wall	MF2 (installation frame)	≥ 90 mm	Shaft wall (steel frame)	FD25: EI 90 (ve i↔o)S FD40: EI 90 (ve i↔o)S	500Pa	▼		
FD40	Rigid wall	REMOTE FROM WALL (Promat)	≥ 100 mm	Aerated concrete (≥ 550 kg/m³) Reinforced concrete (≥ 2200kg/m³)	EI 120 (ve i↔o)S	300Pa	▼		
FD25 / FD40	Rigid wall	REMOTE FROM WALL (Isover)	≥ 100 mm	Aerated concrete (≥ 550 kg/m³) Reinforced concrete (≥ 2200kg/m³)	EI 60 (ve i↔o)S	300Pa	▼		
	Flexible wall			Plasterboard type F (EN520)					
FD40	Rigid wall	Battery 2x2, 1x2, 2x1	≥ 100 mm	Aerated concrete (≥ 550 kg/m³) Reinforced concrete (≥ 2200kg/m³)	EI 120 (ve i↔o)S	500Pa	▼		
	Floor/ceiling	Battery 2x2, 2x1, 1x2	≥ 100 mm	Aerated concrete (≥ 550 kg/m³) Reinforced concrete (≥ 2200kg/m³)	EI 120 (ho i↔o)S	500Pa	▼		

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 - FD

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