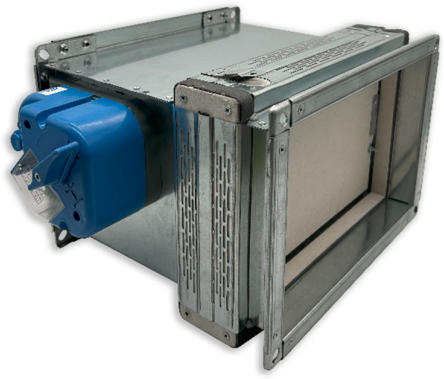
Fire damper WK25



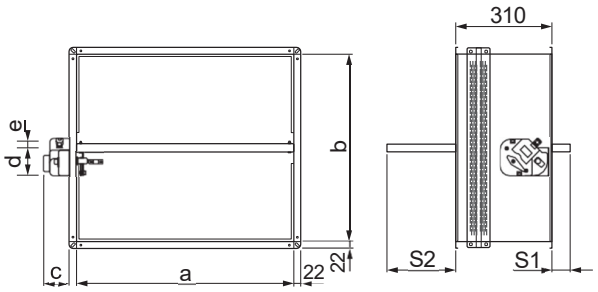
Description

Fire dampers WK25 are devices for use in heating, ventilation and air-conditioning (HVAC) systems at the compartament boundaries to maintain compartmentation and protect escape routes in case of fire. They satisfy integrity, insulation and smoke leakage criteria for the declared time of fire resistance. Fire dampers WK25 are manufactured in compliance with product standard EN 15650.
Tested and classified in accordance with EN 1366-2 and EN13501-3 standards with 500 Pa depression.
Studied and optimized for small size ducts and reduced installation space focusing on aeraulic and acoustical performance.

Product code		
Type	WK	Rectangular fire damper
Series	25	Blade thickness 25 mm
Manual command		
Command type	B C M	Manual command Compact manual command Manual command with magnet
Position indication microswitches	S0 S2	Without position microswitches With two position microswitches (included for MR/MI versions)
Magnet	M0	Without magnet (only for command type “B” and “C”)
	MR	With power supply interruption magnet through electric board 24 V DC or 48 V DC
	MI	With power supply input magnet through electric board 24 V DC or 48 V DC

Product code		
Type	WK	Rectangular fire damper
Series	25	Blade thickness 25 mm
	25X	Blade thickness 25 mm AISI 304 case
Motorized		
Motor type	VSSM DSSM VSBM DSBM TSBM VSGM DSGM TSGM	Siemens motor GRA 126 (24V) Siemens motor GRA 326 (230V) Belimo motor BFL24T (24V) Belimo motor BFL230T (230V) Belimo motor BFL24T-ST (24V) Gruner motor 340 TA24-05-S2 (24V) Gruner motor 340 TA230-05-S2 (230V) Gruner motor MT-340-TA-024-05-ST01(24V) with connectors
Base (a)	XYZ	Nominal dimension (mm)
Height (b)	XYZ	Nominal dimension (mm)

Dimensions



a mm	b mm
100	200
150	250
200	300
250	350
300	400
350	450
400	500
450	550
500	600
550	
600	
650	
700	
750	
800	

All combinations of base (a) and height (b) dimensions are available. It is possible to pair two dampers for bigger duct dimension.

b mm	S1 (blade exposition) mm	S2 (blade exposition) mm
200	-	21,5
250	-	46,5
300	-	71,5
350	-	96,5
400	-	121,5
450	-	146,5
500	7,5	171,5
550	32,5	196,5
600	57,5	221,5

Ordering example

WK25M200 **300** **S2MR**

- Mechanism type
- Side a
- Side b
- Control mechanism

Fire damper WK25

Technical data

Mechanism type:
WK25B - Manual basic
WK25C –Manual compact
WK25M - Manual with magnet
WK25 VSBM/DSBM/TSBM – Belimo motorized version
WK25 VSSM/DSSM – Siemens motorized version
WK25 VSGM/DSGM/TSGM – Gruner motorized version

Mechanism type	c mm	d mm	e mm
WK25B	84	92	51
WK25C	41	95	53
WK25M	104	151	51
WK25 VSBM/DSBM/TSBM	74	92	164
WK25 VSSM/DSSM	78	73	107
WK25 VSGM/DSGM/TSGM	88	88	111

We reserve the right to make changes without prior notice

Fire damper WK25

Technical data

Installations in/on/remote the supporting construction

	Position	Support features	Sealing	Hole	Note	Fire resistance class
Rigid wall	within the wall	Min.thickness 100 mm, min density 550 kg/m³	mortar or plaster	square hole b+50 h+50 b+440 h+440	A B D F	EI 120 (ve i↔o) S (500Pa)
			rockwool and plasterboard/calcium silicate	square hole b+50 h+50 b+70 + h+70	A B D F	EI 120 (ve i↔o) S (500Pa)
			sealed with Weichschott	square hole b+800 h+800	A B E F	EI 120 (ve i↔o) S (300Pa)
	onto the wall		sealed with mortar- insulation with specific kit	square hole b+50 h+50	A C F	EI 90 (ve i↔o) S (300Pa)
	remote from the wall		duct sealing rock wool with promastop-sealing wall sealing: mortar or plaster putty	Square hole b+50 h+50 b+440 h+440	A C F	EI 120 (ve i↔o) S (300Pa) EI 90 (ve i↔o) S (500Pa)
			duct sealing: rockwool with promastop -sealing wall sealing: weischscott	square hole b+800 h+800	A C F	EI 120 (ve i↔o) S (300Pa) EI 90 (ve i↔o) S (500Pa)
			duct insulation: according to promat 478 manual damper sealing: face wall kit wall sealing: mortar	square hole b+50 h+50	A C F	EI 90 (ve i↔o) S (300Pa)

NOTE		
	A Installation without duct connection permitted	**B** minimum distance between two fire dampers 0 mm
	C minimum distance between two fire dampers 200 mm	**D** 75 mm from fire damper and ceiling or side wall
	E 50 mm from fire damper and ceiling or side wall	**F** horizontal or vertical blade axis direction

Fire damper WK25

Technical data

	Position	Support features	Sealing	Hole	Note	Fire resisteant class
Light wall	within the wall	F-type plasterboard wall min. thickness 100mm, metal studs, optional rock wool insulation	rockwool and plasterboard/calcium silicate	square hole b+75 h+75 b+95 h+95	A B D F	EI 120 (ve i↔o) S (500Pa)
			mortar or plaster	square hole b+75 h+75 b+440 h+440	A B D F	EI 120 (ve i↔o) S (500Pa)
			sealed with Weichschott	square hole b+800 h+800	A B E F	EI 120 (ve i↔o) S (300Pa)
	remote from the wall		rockwool and plasterboard/calcium silicate	square hole b+75 h+75 b+95 h+95	A C F	EI 120 (ve i↔o) S (300Pa) EI 90 (ve i↔o) S (500Pa)
			mortar or plaster	square hole b+75 h+75 b+440 h+440	A C F	EI 120 (ve i↔o) S (300Pa) EI 90 (ve i↔o) S (500Pa)
			duct sealing: rockwool with promastop -sealing wall sealing: weischscott	square hole b+800 h+800	A C F	EI 120 (ve i↔o) S (300Pa) EI 90 (ve i↔o) S (500Pa)
			duct insulation: according to promat 478 manual damper sealing: face wall kit wall sealing: mortar	square hole b+50 h+50	A C F	EI 90 (ve i↔o) S (300Pa)
	within the wall	A-type plasterboard wall min. thickness 100mm, metal studs, optional rock wool insulation	rockwool and plasterboard/calcium silicate	square hole b+75 h+75 b+95 h+95	A B D F	EI 60 (ve i↔o) S (500Pa)
	within the wall	F-type plasterboard wall min. thickness 100mm, metal studs, optional rock wool insulation, with sheet metal safety reinforcement (brandwande)	rockwool and plasterboard/calcium silicate	square hole b+75 h+75 b+95 h+95	A B D F	EI 120 (ve i↔o) S (500Pa)
			mortar or plaster	square hole b+75 h+75 b+440 h+440	A B D F	EI 120 (ve i↔o) S (500Pa)
	remote from the wall		rockwool and plasterboard/calcium silicate	square hole b+75 h+75 b+95 h+95	A C F	EI 120 (ve i↔o) S (500Pa)
			mortar or plaster	square hole b+75 h+75 b+440 h+440	A C F	EI 120 (ve i↔o) S (500Pa)
			duct insulation: according to promat 478 manual damper sealing: face wall kit wall sealing: mortar	square hole b+50 h+50	A C F	EI 90 (ve i↔o) S (300Pa)

NOTE		
	A Installation without duct connection permitted	**B** minimum distance between two fire dampers 0 mm
	C minimum distance between two fire dampers 200 mm	**D** 75 mm from fire damper and ceiling or side wall
	E 50 mm from fire damper and ceiling or side wall	**F** horizontal or vertical blade axis direction

We reserve the right to make changes without prior notice

Technical data

	Position	Support features	Sealing	Hole	Note	Fire resisteant class
Light wall	within the wall	gypsum blocks min. thickness 100mm, density 995 kg/m³	plasterboard on both sides or calcium silicate	square hole b+50 h+50 b+70 h+70	A B D F	EI 120 (ve i↔o) S (500Pa)
			sealed with Weichschott	square hole b+800 h+800	A B E F	EI 120 (ve i↔o) S (300Pa)
	remote from the wall		duct sealing rock wool with promastop-sealing wall sealing: mortar or plaster putty	square hole b+50 h+50 b+70 h+70	A C F	EI 120 (ve i↔o) S (300Pa) EI 90 (ve i↔o) S (500Pa)
			duct sealing: rockwool with promastop -sealing wall sealing: weischscott	square hole b+800 h+800	A C F	EI 120 (ve i↔o) S (300Pa) EI 90 (ve i↔o) S (500Pa)
			duct insulation: according to promat 478 manual damper sealing: face wall kit wall sealing: mortar	square hole b+50 h+50	A C F	EI 90 (ve i↔o) S (300Pa)
	within the wall	gypsum blocks min. thickness 70mm, density 995 kg/m³	plasterboard on both sides or calcium silicate	square hole b+50 h+50 b+70 h+70	A C D F	EI 90 (ve i↔o) S (500Pa)
	within the wall	shaft wall min. thickness 90mm	plasterboard on motor side with mortar or putty	square hole b+70 h+70 b+90 h+90	A C D F	EI 60 (ve i↔o) S (300Pa)

NOTE		
	A Installation without duct connection permitted	**B** minimum distance between two fire dampers 0 mm
	C minimum distance between two fire dampers 200 mm	**D** 75 mm from fire damper and ceiling or side wall
	E 50 mm from fire damper and ceiling or side wall	**F** horizontal or vertical blade axis direction

Fire damper WK25

Technical data

	Position	Support features	Sealing	Hole	Note	Fire resisteant class
Floor	within the floor	Floor min. thickness 150mm, density 2200kg/m³	mortar	square hole b+70 h+70 b+90 h+90	B D	EI 180 (ve i↔o) S (500Pa)
			mortar	square hole b+70 h+70 b+90 h+90	A B D	EI 120 (ve i↔o) S (500Pa)
	within the floor	Floor min. thickness 150mm, density 650kg/m³	mortar	square hole b+70 h+70 b+90 h+90	A B D	EI 120 (ve i↔o) S (500Pa)
			sealed with Weichschot	square hole b+800 h+800	A C D	EI 120 (ve i↔o) S (300Pa)
	remote from the floor		duct sealing rock wool with promastop-sealing floor sealing: mortar	square hole b+70 h+70 b+90 h+90	A C	EI 120 (ve i↔o) S (300Pa) EI 90 (ve i↔o) S (500Pa)
	within the floor	Floor min. thickness 100mm, density 650kg/m³	mortar	square hole b+70 h+70 b+90 h+90	A B D	EI 90 (ve i↔o) S (500Pa)
	remote from the floor		duct sealing rock wool with promastop-sealing floor sealing: mortar	square hole b+70 h+70 b+90 h+90	A C F	EI 90 (ve i↔o) S (500Pa)
	onto the floor		sealed with mortar- insulation with specific kit	square hole b+50 h+50	A C F	EI 90 (ve i↔o) S (300Pa)
	remote from the floor		duct insulation: according to promat 478 manual damper sealing: face wall kit wall sealing: mortar	square hole b+50 h+50	A C	EI 90 (ve i↔o) S (300Pa)

NOTE		
	A Installation without duct connection permitted	**B** minimum distance between two fire dampers 0 mm
	C minimum distance between two fire dampers 200 mm	**D** 75 mm from fire damper and ceiling or side wall
	E 50 mm from fire damper and ceiling or side wall	**F** horizontal or vertical blade axis direction

We reserve the right to make changes without prior notice

Fire damper WK25

For more detailed information visit:

http://www.mp3-italia.it

The fire resistance classifications refer to the conditions obtained by rigorously applying the instructions indicated in the Technical Manual, with reference both to the construction of the wall/ceiling and the installation of the damper.