

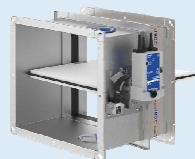
Fire Dampers

Includes both Fire damper (Mechanical spring close damper with thermal link) and Fire & smoke damper or MSFD (motorised some leakage rated fire damper with integrated electrical thermal release)



Product Standard: BS EN 15650
EXAP Standard: BS EN 15882-2
Classification Standard: BS EN 13501-3
Test Standard: BS EN 1366-2

FKA2-EU



FK-EU



FKRS-EU



FKR-EU



Installation Type	Fire Stop method	Size	Mortar						Inst Kit			Fire Batt							
			W < 800 H < 400	W > 800 H > 400	W < 800 H < 400	W > 800 H > 400	W < 800 H < 400	W > 800 H > 400	W=200-1500 H=200-800	Ø 100 to Ø 200		Ø 100 to Ø 315		Ø 315 to Ø 800					
WALL - SOLID gross density ≥ 350 kg/m³	In	98																	
		100	EI 120 S	EI 120 S				EI 120 S	EI 90 S									EI 120 S	
		100																	
		100																	
		100																	
		100																	
WALL-DRYWALL	Metal studding	98																	
		94	EI 120 S	EI 120 S	EI 90 S	EI 120 S	EI 120 S	EI 90 S										EI 90 S	
		75																	EI 30 S
		94																	EI 30 S
		98																	
		94	EI 120 S	EI 120 S															
	Timber studding	130	EI 120 S	EI 120 S	EI 120 S	EI 120 S	EI 120 S	EI 90 S											EI 90 S
		130	EI 120 S	EI 120 S															EI 90 S
		105	EI 30 S	EI 30 S	EI 30 S	EI 30 S	EI 30 S	EI 30 S											EI 30 S
		140	EI 90 S	EI 90 S	EI 90 S	EI 90 S	EI 90 S	EI 90 S											EI 90 S
		140	EI 120 S	EI 120 S															
WALL-SHAFT WALL	Metal studding	90	EI 90 S	EI 90 S	EI 90 S	EI 90 S												EI 90 S	
		90	EI 90 S	EI 90 S															
	Without metal studding	40																	
		50																	
WALL - CLT / SOLID WOOD	In	95	EI 90 S	EI 90 S	EI 90 S	EI 90 S	EI 90 S	EI 90 S											
FLOOR - SOLID SLAB gross density ≥ 600 kg/m³	In	600 kg/m³	EI 120 S	EI 120 S														EI 120 S	
		150																	
		125																	
		100	EI 120 S	EI 120 S															EI 120 S
FLOOR - WOOD BEAM	In Concrete plinth ≥125mm	100																EI 90 S	
		125	EI 90 S	EI 90 S														EI 90 S	
		150																	
FLOOR - SOLID WOOD	In Concrete plinth ≥125mm	125	EI 90 S	EI 90 S														EI 90 S	

Smoke Control Dampers



Product Standard: BS EN 12101-8
Classification Standard: BS EN 13501-4
Test Standard: BS EN 1366-10 & 2

EK-JZ



EK-EU

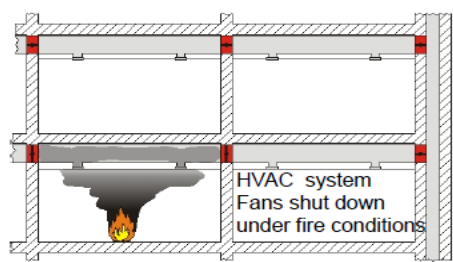


EKA-EU



Installation Type	Size	EK-JZ	EK-EU	EKA-EU
WALL - SOLID	In 100	W=200-1200 H=430-2030 EI 120 (vev, i→o) S 1000 Cmod HOT400/30 MA multi	W=200-1500 H=200-800 EI 90 (vev, i→o) S 1500 Cmod HOT400/30 MA multi	W=400-1500 H=200-800 EI 120 (vev, i→o) S1500 C10 000 AA multi
WALL-DRYWALL - Metal studding	In 100	EI 90 (vev, i→o) S 1000 Cmod HOT400/30 MA multi		
SHAFT WALL - Drywall Metal studding	In 90	EI 90 (vedw, i→o) S 1000 Cmod HOT400/30 MA multi		
SHAFT WALL - SOLID wall	In 100	EI 120 (ved, i→o) S 1000 Cmod HOT400/30 MA multi		
VERTICAL smoke extract duct	On face of 35	EI 120 (ved, i→o) S 1000 Cmod HOT400/30 MA multi		
HORIZONTAL smoke extract duct	On face of 35	EI 120 (ved, i→o) S 1000 Cmod HOT400/30 MA multi	EI 90 (vev, i→o) S 1500 Cmod HOT400/30 MA multi	
	Across 35	EI 120 (ved, i→o) S 1000 Cmod HOT400/30 MA multi	EI 90 (vev, i→o) S 1500 Cmod HOT400/30 MA multi	
	At end of 35	EI 120 (ved, i→o) S 1000 Cmod HOT400/30 MA multi		
	On top of 35		EI 120 (hod, i→o) S 1500 Cmod HOT400/30 MA multi	
FLOOR - SOLID SLAB gross density ≥ 600 kg/m³	In 150		EI 120 (how, i→o) S 1500 Cmod HOT400/30 MA multi	

Fire Dampers & Smoke Control Dampers ... Understand the Difference



Fire or Fire & Smoke Containment

Fire Damper - To maintain COMPARTMENTATION
CLOSE & remain closed

Maintain fire (& smoke) integrity of the support construction

For use in HVAC systems
Evaluated to

- close & remain closed on thermal activation or from external signal
- be fire resisting to the standard time temperature test curve
- Maintain leakage performance at elevated temperatures and positive pressure

- 3rd party (Notified Body) accredited

CE marked to
Product Standard - BS EN 15650
- BS EN 15882-2
Test Standard - BS EN 1366-2
Classification Std. - BS EN 13501-3

Fire Damper components
• Fire resistant movable barrier
• Thermal release device
• Automatic Closing device

Smoke Control Damper - To form a PATH
OPEN and maintain opening or CLOSE & remain closed

For use in - Pressurisation systems
- Pressure relief systems

- Extraction systems
- Ductwork systems
- Cold smoke removal after fire

Evaluated to

- be heat resisting at elevated temperatures (single compartment) or fire resisting to the standard time temperature test curve (multi compartment)
- be applied to automatic or manual intervention systems
- open then close or close then open at elevated temperature
- when open maintain cross section area at elevated temperature
- when closed maintain leakage performance at elevated temperature and negative pressure. known maximum leakage to allow sensible fan selection and give a guide to smoke not leaking back through.

- 3rd party (Notified Body) accredited

CE marked to
Product Standard - BS EN 12101-8
- BS EN 1366-10 & 2
Classification Std. - BS EN 13501-4

Suitable for **combined**
HVAC and smoke extract
(accommodated in classification code)

Options

- Elevated temperature - Single compartment classified
- Full fire resistance - Multi compartment classified
- Classified to match intended system requirements

- Function - Create a path**
- Failsafe - stay in position
- OPEN or CLOSED
 - Permanent power supply
 - NO devices to cause uncontrolled operation
NO Thermal release
NO spring return

- CLOSED**
- Fire Integrity
 - Leakage integrity

- OPENED**
- Open against force
 - Maintain open area
 - Stay in position