



S-Line Pillows

Technical Data Sheet

UIC of product-type: **SLINE**



































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Product Technical Data

ETA 13-1056 CE-1121-CPR-JA5008

Technical Description of S-Line Fire Pillows

S-Line Fire Pillows are an ideal product to create a temporary or permanent fire barrier around all types of services to prevent the passage of fire through a compartment wall or floor, especially suitable where services are continuously being changed or replaced.

S-Line Fire Pillows are filled with organic fillers and intumescent additives in a waterproof glass cloth bag.

Intended Use

The specific elements of construction that the system S-Line Fire Pillows may be used to provide a penetration seal in, are as follows:

- Fire Resistance EN 1366-3 EI 120 and BS 476 240mins.
- Fire Classification EN13501-2.
- · Certifire 3rd Party Acreditation CF514.
- IET (IEE) 17th Edition Fire Stop Compliant to Regulation 527.1-3 Electrical Installations.
- BS 7671-2008 Chapter 42 & 52 Electrical Installations Fire Resistance.
- Fire resistance tested in rigid walls & floors.
- Tested with Metallic Pipes, Cables, Cable Bunches, Cable Trays and Cable Ladders.

Key Product Points

- Acoustic Isolation EN10140 46dB.
- Air Permeability EN1026 420Pa.
- Reaction Temperature 180°C.
- High Expansion Ratio.
- Remains flexible between -20°C to +130°C.
- Moisture resistant lining.
- Suitable for indoor and outdoor locations up to 1m².
- · Contributes to Green Building.
- Non-combustible and non-toxic.
- Ease of installation and long life.















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Description	Result	Test Standard
Packaging	Sizes as above table in boxes of 25 or 50	
Colour	Silver. White, Black or Red by request	
Fire Resistance	El 120, 240mins	EN 1366-4, BS 476
Insulation	120mins	EN 1366-4
Classification	EN 13501-2	·
Acoustic Isolation	46dB	EN 10140
Air Permeability	420Pa, 100Pa 22.8/31.1 m3/h/m²	EN 1026
Expected Shelf Life	N/A	N/A

Installation for S-Line Fire Pillows

Ensure that the aperture and services in question are tested with S-Line Fire Pillows, and the site conditions are within the application specification.

All services and apertures need to be clean and clear of all dust and loose particles. The aperture temperature needs to at 5°C or above at time of installation.

Install the S-Line Fire Pillows in such a way that all joints are staggered in each layer until you have filled all gaps within the wall. Pack pillows tightly into the opening around the services to a minimum depth of 150mm. Always ensure that large voids are completely filled and S-Line pillows are installed in a manner that ensures a tight compression fit.

Size and Quantity Chart

	Large	Small	Sausage	
Form Supplied	330mm x 200mm x 45mm	330mm x 200mm x 25mm	330mm x 50mm x 20mm	
Weight Supplied	385gms	185gms	50gms	
Estimated Quantity required per m ²	113 in Wall or Floor	180 in Wall or Floor	As required to fill small voids	















Performance Data - Walls

ETA 13-1056 CE-1121-CPR-JA5008

Substrates

The walls shall be a minimum of **150mm thick**. Drywalls shall comprise a minimum of 2 layers of 'Type F' Gypsum board on both faces, with minimum 50mm studs. Masonary / Concrete walls shall have a minimum density for concrete or brick of 780kg/m³ and for aerated concrete blocks of 600kg/m³. All walls shall have at least the same fire resistance as that required for the sealing system.

Service support requirements

Services should be rigidly supported via steel angles, hangers or channels, not further than 400mm from the surface of the sealing system on both faces of the wall and top face of the floor unless specified otherwise in the performance data.

Terminology

Fire performance in accordance with EN1366-3, EN1366-4, Classification 13501-2:2007 + A1:2009, ETAG-026, Air Permeability EN1026, Sound EN10140. Fire resistance classes are: E = Integrity, the product can withstand the fire from the non-fire side, I = Insulation, the product can withstand the temperature travelling down the service, U/U = Uncapped inside and outside the furnace, U/C = Uncapped inside and Capped outside the furnace, C/U = Capped inside and Uncapped outside the furnace.

Substrates

The floors shall be a minimum of **150mm thick**. Masonary / Concrete floors shall have a minimum density for concrete or brick of 780kg/m³ and for aerated concrete blocks of 600kg/m³. All floors shall have at least the same fire rating as that required for the Sealing system.

Service support requirements

Services should be rigidly supported via steel angles, hangers or channels, not further than 400mm from the surface of the sealing system on both faces of wall and top side of the floor unless specified otherwise in the performance data.

Terminology

Fire performance in accordance with EN1366-3, EN1366-4, Classification 13501-2:2007 + A1:2009, ETAG-026, Air Permeability EN1026, Sound EN10140. Fire resistance classes are: E = Integrity, the product can withstand the fire from the non-fire side, I = Insulation, the product can withstand the temperature travelling down the service, U/U = Uncapped inside and outside the furnace, U/C = Uncapped inside and Capped outside the furnace, C/U = Capped inside and Uncapped outside the furnace.

RIGID WALL

S-Line Fire Pillows Penetration Seals 300 mm deep, in Rigid Walls with a minimum thickness of 150mm.				
Services	Classification			
Telecom cables up to 21mm \emptyset (single or bundles up 100mm \emptyset).	EI 120			
Electrical cables up to 21mm Ø.	EI 120			
Electrical cables up to 50mm Ø.	E 120, EI 90			
Electrical cables up to 80mm Ø.	E 120, EI 90			
Unsheathed wires up to 24mm Ø.	EI 120			
Steel or Copper conduits and tubes up to 16mm Ø.	EI 120			
Plastic (any) conduits and tubes up to 16mm Ø.	EI 120			
Cables trays or ladders up to 300mm wide.	E 120, EI 60			
Cables trays up to 500mm wide.	E 120, EI 90			

S-Line Fire Pillow Penetrations Seals 300mm deep, in Rigid Walls with a minimum thickness of 150mm.		
Services	Classification	
165mm Ø x 5.6-14.2mm thick mild steel pipe.	E 120 C/U	















Performance Data - Walls

Tested to BS 476

RIGID WALL

S-Line Fire Pillow Penetration Seals 300mm deep, in Rigid Walls with a minimum thickness of 150mm.				
Services	Classification			
48mm Ø x 3.5 - 14.2 mm thick steel pipe with 300 mm Local Interrupted (LI) FSi Thermal Defense Wrap 7mm thick.	EI 120 C/U			
113mm \emptyset x 3.5-14.2mm thick steel pipe with 300mm Local Interrupted (LI) FSi Thermal Defense Wrap 10mm thick.	EI 120 C/U			

S-Line Fire Pillow Penetration Seals 300mm deep, in Rigid Walls with a minimum thickness of 150mm.				
Services Classification				
108mm Ø x 1.5-14.2mm thick copper pipe.	E 120 C/U, EI 90 C/U			

S-Line Fire Pillow Penetration Seals 300mm deep, in Rigid Walls with a minimum thickness of 150mm.				
Services Classification				
54mm \emptyset x 1.0-14.2mm thick copper pipe with 2 layers of insulation.	EI 120			

S-Line Fire Pillow Penetration Seals 300mm deep, in Rigid Walls with a minimum thickness of 150mm.						
Element of construction	Services		Additional requirements	Integrity	Insulation	
	Telecom ca	Telecom cables up to 21mm Ø (single or bundles up 100m).		120 minutes	120 minutes	
	Ele	ctrical cables up to 21mm \emptyset .	None	120 minutes	120 minutes	
	Ele	ctrical cables up to 50mm Ø.	Cables lagged*	120 minutes	90 minutes	
	Ele	ctrical cables up to 80mm Ø.	Cables lagged*	120 minutes	90 minutes	
	Uns	heathed wires up to 24mm Ø	Cables lagged*	120 minutes	120 minutes	
Masananu/	Steel or Cop	per conduits and tubes up to 16mm \emptyset .	None	120 minutes	120 minutes	
Masonary/ concrete wall	Plastic (any	r) conduits and tubes up to 16mm Ø.	None	120 minutes	120 minutes	
min 150mm	Cable tray/ladder up to 300mm wide.		None	120 minutes	60 minutes	
thick	Cable tray up to 500mm wide.		None	120 minutes	90 minutes	
	54mm \emptyset x 1.0mm thick copper pipe with 15mm Armaflex insulation.		Pipe lagged***	120 minutes	120 minutes	
	108mm Ø x 1.5mm thick copper pipe.		Pipe lagged*	120 minutes	90 minutes	
	48mm Ø x 3.5mm thick mild steel pipe.		Pipe lagged**	120 minutes	120 minutes	
	113mm Ø x 4.5mm thick copper pipe.		Pipe lagged***	120 minutes	120 minutes	
	165mm Ø x 5.6mm thick mild steel pipe.		None	120 minutes	-	
*Lagging: To be formed from 2 or more pillows stitched together around the serve both sides of the wall/main seal.			ound the service	to a minimum length of 300mm on		
**Lagging: To be formed from Thermal Defense Wrap 1 to a minimum length of 300mm on both sides of the wall/			nm on both sides of the wall/main se			
***Lagging: To be formed from Thermal Defense Wrap 2 to a minimum length of 300mm on both sides of the wall/ma			nm on both sides of the wall/main se			
Application Tec	chnique:	1100mm by 1100mm				















Performance Data - Walls and Floors

Tested to BS 476

RIGID WALL AND FLOOR

S-Line Fire Pillow Penetration Seals in Rigid Wall and Floor.						
Orientation	Services	Integrity/ Insulsation	~ · · · · · · · · · · · · · · · · · · ·			
		ilisuisation	30 mins	60 mins	90 mins	120 mins
	No	Int. & Ins.	150mm	150mm	200mm	200mm
Floor	Yes	Int. & Ins.	150mm	200mm	250mm	300mm
	Yes	Int. only	150mm	150mm	200mm	200mm
	No	Int. & Ins.	150mm	180mm	250mm	300mm
Wall	Yes	Int. & Ins.	150mm	200mm	250mm	300mm
	Yes	Int. only	180mm	180mm	250mm	300mm
Penetrating Services: Cab		Cable ladders and communication cables.				
Maximum appertu	ıre:	1000mm by 1000mi	n			
The floors and walls shall be a minimum of 100mm thick for periods of up to resistance and 150mm (floor) and 200mm (wall) thick for periods of 90 minu resistance. The minimum density for the concrete of the floor or wall is 780kg/m³ and for is 600kg/m³.		minutes and 120 minuets fire				
Application Technique: Stee reve ope Wal		reveal of the apertu opening and around Walls:	re via vertical retu the services.	irns at the edges	of the mesh. The	to the soffit of the floor or within the e fire pillows are tightly packed into the vices (no mesh is required).