



## STOPSEAL FIRE PILLOWS

### Introduction

The purpose of this document is to give guidance to approved contractors and suppliers who are engaged in the fire stopping of service penetrations in walls and floors using the Firestopit Fire Pillows.

All service holes through floors and compartment walls must be fire stopped to prevent the passage of fire, smoke and hot gases.

The result of this work will: -

1. Prevent the spread of fire, smoke and hot gases through a building by containing it in the compartment of origin.
2. Maintain the integrity of escape routes from a building.
3. Reduce loss or damage to property from the effect of fire and smoke.
4. Maintain pressure differentials between compartments and ventilation channels.

### The Firestopit Fire Pillow System

The Firestopit fire pillows are filled with organic fillers and intumescent additives in a water proof, flexible glass cloth bag on the outside. Various pillow sizes enable a temporary or permanent seal to be achieved for most aperture sizes, accommodating service penetrations.

Firestopit Fire Pillows are designed to accommodate services, which need to remain flexible or have a need to be removed from the aperture on a regular basis.

### Installation - Wall Seals

Three sizes of Firestopit fire pillow are available; ensure that the correct pillow is installed to suit the opening size. See tables 1 & 2

Shake the pillows to give an even distribution of the infill material before installation.

Lay pillows in to the opening with the shortest span across the width of the opening, so that they are in a brick format. Ensuring that the lower layer is overlapped by the top layer.

Pack pillows in to the opening around the services to the required quantity, adding smaller pillows where necessary to fill all small voids.

All cable/electrical trunkings are to be filled using the Firestopit S100 sausage pillow.

### Installation - Floor Seals

Install galvanised steel mesh 50 x 50 x 5mm to the underside of the void with a 100mm overlap of the floor slab. Fix the mesh in to place using 50mm steel strap or 50mm steel angle, securing with 8mm Rawl bolts or similar.





Three sizes of Firestopit fire pillow are available; ensure that the correct pillow is installed to suit the opening size. See tables 1 & 2.

Shake the pillows to give an even distribution of the infill material before installation.

Lay pillows flat in to the opening around the services to the required quantity having a minimum depth of 150mm, adding smaller pillows where necessary to fill all small voids.

Pillows to be laid in brick form allowing the top pillows to overlap the lower layer of pillows.

Fill all cable/electrical trunkings using the Firestopit S100 sausage pillow.

### Large Fire Pillow Usage Table

Width mm	Seal Type	Length mm					
		100	300	500	700	900	1 mtr
200	Wall	3	7	12	17	21	24
	Floor	2	4	6	9	11	12
400	Wall	5	14	24	33	42	47
	Floor	3	7	12	17	22	24
600	Wall	7	21	35	49	63	70
	Floor	4	11	18	25	33	36
800	Wall	9	28	47	66	84	94
	Floor	5	15	24	34	43	48
1 mtr	Wall	10	35	59	82	105	117
	Floor	6	18	30	42	54	60

Table 1 – Large Pillow Usage

### Small Fire Pillow Usage Table

Width mm	Seal Type	Length mm					
		100	300	500	700	900	1 mtr
200	Wall	5	13	22	31	39	5
	Floor	3	7	12	17	22	1
400	Wall	9	26	44	61	78	9
	Floor	5	15	24	34	43	5
600	Wall	13	39	65	91	117	13
	Floor	7	22	36	51	65	7
800	Wall	18	52	87	122	157	18
	Floor	10	29	48	67	87	10
1 mtr	Wall	22	65	109	152	196	217
	Floor	12	36	60	84	108	120

Table 2 – Small Pillow Usage



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