

FirePillow-240

Temporary or permanent fire barriers for all types of penetrations and services
Approved to AS1530.4

Technical Data Sheet

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KEY BENEFITS

- Low cost solution to maintain fire wall and floor integrity
- Easy to carry, transport and store
- Non-toxic
- Simple to install
- Reusable – allow for opening and re-opening of penetrations
- See MORE benefits below

INTRODUCTION



BOSS Fire & Safety’s range of FirePillow-240 covers all applications. Fire Pillows are the most common - treated fabric bags containing fire retardant granulated rockwool, securing penetrations in fire rated construction against the passage of smoke and the spread of fire. They are best suited to environments where pipes, telecommunications cables, cable trays and service shafts penetrate a fire-rated wall or floor.

BOSS also supply High Performance FirePillows and Intumescent FirePillows for environments where water, oil, chemicals and greater protection are required.



MORE BENEFITS

- Reusable – allows for opening and re-opening of penetrations
- Non-Toxic, simple to install
- Easy to carry, transport and store
- Low cost solution to maintain fire wall and floor integrity
- Complies with all relevant Australian standards
- Tested for up to three hours fire protection.
- FirePillow-240 can be used with other brands of fire rated pillows

APPLICATION

FirePillow-240 are designed to fire rate wall and floor miscellaneous penetrations which may incorporate cables, ducts, metal pipes, bus bars or the like, where up to 3 hours integrity and 3 hours insulation are required.

FirePillow-240 are fully compliant with AS1530.4-1997 and AS4072.1-1992.

FirePillow-240 are available in 3 sizes:

Small	200 x 100 x 40mm
Medium	200 x 200 x 40mm
Large	300 x 200 x 40mm

INSTALLATION

The pillows can be used to seal an opening in a floor or wall to a maximum width or height of 400mm by any practical length. The sealing of the pillows is achieved by 'pillow pressure' and the use of BOSS Fire & Safety fire resistant mastic to fill in voids around various pipes, cables and penetrations. The pillows should be stacked tightly in the direction of the least span (up to 400mm) and restrained on the sides by wall section or pillows.

Working from one side of the opening additional pillows should be stacked in the same direction and packed in tightly against the sides of the pillows already installed (figure 1 below).

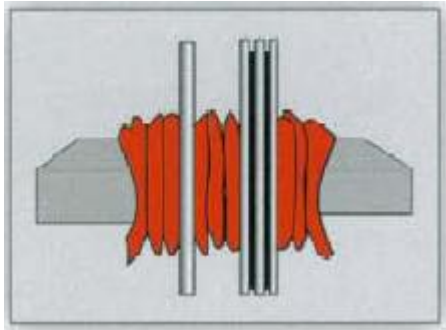


Figure 1

The appropriate sized pillow should be packed around various pipes, cables and penetrating elements, then BOSS Fire & Safety fire rated sealant used to a depth of 25mm to seal any gaps or voids around the pillows or penetrating elements.

The method of stacking the pillows can vary depending on the shape and dimensions of the various elements that are penetrating the wall or floors (figure 2 below).



Figure 2

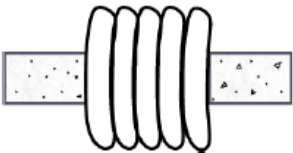
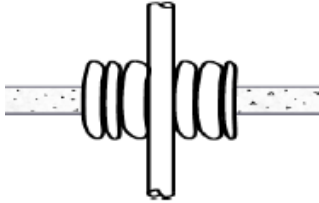
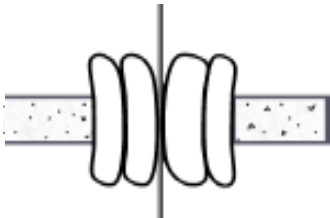
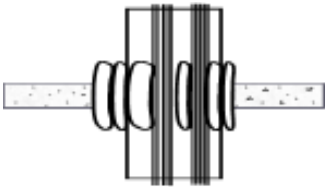
TESTING & SPECIFICATION

Testing has been carried out at Warrington Fire Research for 3 hours and achieved the following certification:

- **Test No F91876 (12 June 2001)**
Test for fire pillows protecting openings in masonry walls when tested in accordance with AS1530.4-1997 sections 2, 4 & 10, and AS4072.1 as appropriate.
- **Test No F91879 (12 June 2001)**
Test for fire pillows protecting openings in concrete floors when tested in accordance with AS1530.4-1997 sections 2, 4 & 10 and AS4072.1-1992 as appropriate.


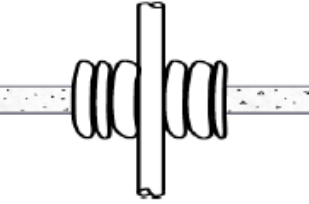
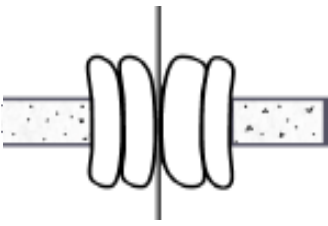
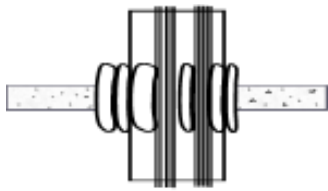
Performance Summary

FLOOR PENETRATION

Service or Separating Element	Designation	FRL	Diagram
Unpenetrated	Maximum size of opening is 600mm x 400mm at 400mm x 400mm	-/180/180 -/180/180	
Copper Pipes	Up to 100mm nominal diameter with wall thickness 1.8mm	-/180/-	
Single Cables / Cable Tray	Qty 1 x single core PVC insulated/PVC sheathed Up to 630m ² 127x2.52mm conductors Qty 1 x 3-core plus earth PVC insulated/PVC sheathed Up to 185m ² 37x2.52mm conductors	-/180/- -/180/-	
Cable Bundles / Cable Tray	Telecommunication cables Qty 1 x 50-pair 0.5PVC indoor telephone cable length Qty 3 x 3-core plus earth PVC insulated/PVC sheathed Up to 6m ² 7x1.04mm conductors Qty 8 x 3-core plus earth PVC insulated/PVC sheathed Up to 16m ² 7x1.7mm conductors	-/180/- -/180/- -/180/-	

In accordance with AS1530.4 and AS4072 as appropriate

WALL PENETRATION

Service or Separating Element	Designation	FRL	Diagram
Unpenetrated	Maximum size of opening is 600mm x 400mm at 400mm x 400mm	-/180/180 -/180/180	
Copper Pipes	Up to 100mm nominal diameter with wall thickness 1.8mm	-/180/-	
Single Cables / Cable Tray	Qty 1 x single core PVC insulated/PVC sheathed Up to 630m ² 127x2.52mm conductors Qty 1 x 3-core plus earth PVC insulated/PVC sheathed Up to 185mm ² 37x2.52mm conductors	-/180/- -/180/-	
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In accordance with AS1530.4 and AS4072 as appropriate

ORDERING INFORMATION

Size	Part ID	Dimensions	Box Qty
Small	FP-100	200 x 100 x 40mm	125
Medium	FP-200	200 x 200 x 40mm	50
Large	FP-300	300 x 200 x 40mm	30

HEALTH AND SAFETY

To learn more about the safe handling of FirePillow-240, see the Material Safety Data Sheet available at www.bossfire.com.au.

LIMITATION

BOSS Fire & Safety Pty Ltd has provided the above technical information in good faith and to the best of its knowledge. This information was deemed to be correct at the time of publication. Should any data come to BOSS Fire & Safety's attention relating to the fire resistance or performance of the product described, BOSS Fire & Safety reserve the right to amend this report.

BOSS Fire & Safety strive to constantly improve and develop products so this information may change without notice.

FURTHER TECHNICAL INFORMATION

For any additional technical information on the performance of FirePillow-240 or other BOSS products please contact our Technical Services team on:

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