



Fire-Rated Bulkhead Batts

High density mineral fibre board for the containment of fire and smoke
Approved to AS1530.4(2005)



Installation Guide

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INTRODUCTION

BOSS Fire & Safety's BULKHEAD BATT is designed to provide simple and effective compartmentalisation and fire stopping in walls and floors.

It consists of high-density mineral fibre batt with an ablative fire resistant coating which can be used in conjunction with other high performance BOSS fire protection products to provide excellent thermal and acoustic insulation. The BULKHEAD BATT prevents the passage of fire and smoke between compartment walls and floors whilst still allowing the insulation of services.

PURPOSE

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 Bulkhead Batt System.

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:

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

PREPARATION

Ensure that all service penetrations are complete and installed and approved to the satisfaction of the main contractor/client.

Remove all unnecessary combustible materials from the opening. Using a dust pan and brush, sweep all loose products from the inner surface of the opening and surrounding local to the installation.

Place a plastic sheet beneath the working area to catch any falling materials.

Remove any insulation or lagging from air ventilation ducts and pipes to ensure a good seal with the Bulkhead Batt System.

Bulkhead Batts are 1200mm x 600mm. Various considerations dictate which type is to be used. These considerations may be obstructions, which prevent a certain type being used, irregular holes (broken through concrete slab floors for example), insufficient thickness of floor slab or wall to accept the thickness of the seal.

Bulkhead Batt is approved to be used in wall and floor slabs made from various substrates, most commonly Brick, Blockwork, Concrete, Dry lining walls and Steel clad walls.

INSTALLATION

Measure the size of the opening, relevant position and size of the services. Mask all surfaces where necessary to ensure the aesthetics of Bulkhead® Sealant.

Draw these details onto the Bulkhead® Batt and cut out using a saw or bread knife or Stanley knife.

Using a trowel or pallet knife apply a thick layer of Bulkhead Sealant to all areas of contact around the opening and services. Apply a similar thickness of Bulkhead Sealant to the cut Bulkhead Batt.

Fit the cut Bulkhead Batt into the opening, ensuring a tight friction fit. Push the Bulkhead Batt firmly in to the opening using the flat of the hand or lightly tapping with a rubber mallet.



INSTALLATION CONTINUES

Continue the above procedure to fill the opening ensuring that a layer of Bulkhead Sealant is applied to all areas of contact between the boards. The seal should be made up from as few pieces of Bulkhead Batt as practicable.

Any small gaps in the seal left when all cut pieces have been installed should be tightly packed with off-cuts and coated with Bulkhead Sealant.

A layer of Bulkhead Sealant should be applied to all joint lines formed by piecing the seal together.

To complete the installation a small bead of FireMastic-300 Sealant should be applied around the extremities of the opening and services. Whatever the edges of the seal line with the wall / floor surface, the bead of sealant should be smoothed to overlap the wall / floor surface by approximately 5mm. Remove any masking and dispose of waste materials.

When a fire seal is built up as outlined above the joints must be offset.

LOOSE CABLES, CABLE TRUNKING AND CONDUITS

Where possible, loose cables should be drawn together and tied after a liberal application of Bulkhead Sealant to seal any void.

It is necessary to fill the inside of cable trunkings prior to installation of the Bulkhead Batt around the trunking. Remove the trunking lid, lift the cables out and apply a generous amount of Bulkhead Sealant and bed the cables into the Bulkhead Sealant.



Should only a few cables be inside the trunking it would be necessary to install Bulkhead Batt inside the trunking.

Replace the trunking lid and continue to install seal around the outside.

Apply a label detailing installation date and type of seal as per the relevant Standard.



ADDITIONAL PERFORMANCE

In the BOSS Thermal Defence System which incorporates Bulkhead Batt and BOSS S-Line Pillows and Thermal Defence Wrap, an **FRL of -/120/120** can be achieved on both the Seal surface and the Penetrating Service.

See Thermal Defence data sheet for more information.

FIXING AND FASTENING

Where BULKHEAD BATTS are to be fixed together or to substrates, FireMastic-300 sealant can be used to act as a binding agent and also provides fire rating to the seal. BOSS Ablative Coating (Trowel Grade) is also ideal for such applications, and both sides to be joined can be coated to form a strong and durable bind.

Ablative Coating is available in pails from BOSS Fire & Safety.

For additional support, batts can be overlaid with each other using a 100mm wide strip of Bulkhead Batt to shutter across the joint. "Pig-Tail" fasteners can also be used to join batts together at 200mm centres as they provide a wide-rim fixing that prevents pull-through.

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 additional technical information on the performance of Fire-Rated Bulkhead Batts or other BOSS products please contact our Technical Services team on:

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