

Nullifire B735/B747 - Fire Rated Batts

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1. PRODUCT DESCRIPTION

B735/B747 is a lightweight flexible fire barrier system consisting of compressed mineral fibre batts faced and joined with a white fire resistant water based acrylic mastic. Integral support systems are available to ensure stability of the barrier in larger voids.

Fully tested to BS476 Part 20 and 22 for up to 4 hours fire resistance.

B735-50 - 900 x 600 x 50mm thick 160kg/m³ mineral fibre batts precoated both sides with white B721 Mastic.

B747-50 - 1200 x 600 x 50mm thick 160kg/m³ mineral fibre batts precoated both sides with white B721 Mastic.

B721 - White trowel grade mastic available in 5 or 10 litre tubs.

M701 - White cartridge grade mastic in 310ml tubes.

2. INSTALLATION CHECK LIST

Walls (Blockwork/Concrete/Masonry)

Maximum wall opening which can be fire stopped with this system is 5.76m².** Minimum wall thickness is 100mm (**unless one dimension is less than 300mm)

Wall Openings up to 1200 x 600mm (or 900 x 600mm if using B735)

Use a single layer of B735 or B747 Batts 50mm thick.

Wall Openings up to 300mm x Any Length

Use a single layer of B735 or B747 Batts supported vertically at 900mm or 1200mm centres with 2 No. 30 x 30 x 1.6mm thick angles bolted or welded back to back.

Wall Openings With Both Dimensions Larger Than 1200 x 600mm (or 900 x 600mm if using B735)

Use a single layer of B735 or B747 Batts supported fixed to a framework angle bolted or welded back to back. The framework will generally be arranged to support the perimeter of each and be fixed to short lengths of angle around the void perimeter.

Walls (Steel Framed Dry Lined Partition Systems)

B735/B747 batts can be used to provide up to 120 minutes fire rating in the above.

Partitioning must be fire rated to the required period.

Maximum wall opening which can be fire stopped with this system is 2.88m x 1.44m for up to 60 minutes or 2.4m x 1.2m for up to 120 minutes.

In both of the above sized voids, the aperture will require framing out with a single layer of the fire rated boarding for 60 minutes or two layers for 120 minutes.

Use a single layer of B735 or B747 Batts friction fitted using B721/M701 Mastic.

Floors (Concrete)

Maximum floor opening which can be fire stopped with this system is 2.88m² (please note the B735/B747 system is NOT load bearing).

Floor Openings up to 1200 x 600mm (or 900 x 600mm if using B735)

Use a single layer of B735 or B747 Batts 50mm thick.

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Floor Openings up to 300mm x Any Length

Use a single layer of B735 or B747 Batts supported across short span at 900mm or 1200mm centres with 2 No. 30 x 30 x 1.6mm thick angles bolted or welded back to back. These angles are fixed to a perimeter angle, which is in turn fixed to the slab edge with all expanding anchors at 300mm maximum centres.

Floor Openings With Both Dimensions Greater Than 1200 x 600mm (or 900 x 600mm if using B735), (refer to Nullifire's Technical Department).

Use a single layer of B735 or B747 Batts fixed to a framework of angles bolted or welded back to back. The framework will generally be arranged to support the perimeter of each batt, and be fixed to a perimeter angle, as above.

Permissible Services

The following service penetration types can be fire stopped using the above system.

Single cables, bunched cables, cable trays, cable ladders, trunking, steel and copper pipes and ducts. All duct dampers must be independently mechanically supported.

PVC Pipes, we do not recommend the use of the B735/B747 system with plastic pipes. However, if unavoidable, the pipes must be fitted with a B150 Pipe Collar mechanically fixed using steel angles 30 x 30 x 1.6mm or similar to the surrounding substrate.

Lagging - combustible lagging should be removed at the point where the pipe passes through the barrier.

3. PREPARATION FOR INSTALLATION

Ensure all service penetrations are complete and installed to the satisfaction of the relevant parties. Services should be independently supported at a maximum distance of 500mm away from each side of the fire barrier.

All surfaces must be clean and free from loose contaminants and debris. Ensure surfaces are as smooth as possible, removing any lumps of dried mortar. Check penetrating services are free of dust, grease and any other contamination. Remove lagging from pipes leaving a gap just large enough to accommodate the width of the batt. Slot in batts flush against the penetration surface.

4. INSTALLATION OF BATT

Measure the size of the opening, relevant position and size of the services. Mask all surfaces when necessary to ensure the aesthetics of the B721/M701 Mastic.

Draw these details onto the B735/B747 Batt and cut out using a saw or bread knife.

Using a trowel or pallet knife apply a thick layer of B721 Mastic to all areas of contact around the opening and services. Apply a similar thickness of mastic to the cut edges of the batt.

Fit the cut batt into the opening ensuring a tight friction fit, push the batt firmly into the opening using the flat of the hand.

Continue the above procedure to fill the opening ensuring that a layer of the B721 Mastic is applied to all areas of contact between the boards. The barrier should be made up from as few pieces of batt as practicable.

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Any small gaps in the seal left when all cut pieces have been installed should be tightly packed with off cuts and coated with B721 or M701 Mastic. A layer of B721/M701 Mastic should be applied to all joint lines formed by piecing the barrier together.

To complete the installation a small bead of M701 Mastic 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.

Additional Mechanical Supports

Where large voids require fire stopping, additional mechanical supports must be added to provide support for the batts in a fire situation. The situations where supports are necessary are detailed in the section entitled "Installation Checklist".

In brick/blockwork walls, the framework is installed so that it generally frames the perimeter of each batt, or supports the edge joints of each batt in long, narrow gaps. Using a 30 x 30 x 1.6mm angles bolted or welded back to back, fix 1200mm centres or nearest in one direction and at 600mm or nearest at 90° to form modules onto which the batts can be fixed. The angles should be fixed to short lengths of the same sized angles fixed to the perimeter of the wall void using suitable anchor bolts.

In dry line partitions, the same principal as above applies, but using M8 spring toggles as fixings.

In floors, again, the same method of support as above should be used. However, in a floor situation, the angles forming the framework should be fixed to an angle, which runs the full length of the void perimeter, fixed at 30mm maximum centres. The perimeter angle can then also be used to support the batts.

After installation of batts onto the framework, ensure that all exposed angles are coated with a generous layer of B721/M701 Mastic.

Loose Cables, Cable Trunking & Conduits

When possible, loose cable should be drawn together and tied after a liberal application of B721/M701 Mastic to seal any void.

It is necessary to fill the inside of cable trunking prior to installation of the batts around the trunking. Remove trunking lid, lift the cables out and apply a generous amount of B721/M701 Mastic and bed the cables into the sealant.

If there are only a few cables in the trunking, the void between the top of the cable and the trunking lid should be sealed with Batt or B760 Seal Bags.

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

Conduits should be filled with mastic at the nearest access plate.

Plastic Pipes

See previous note regarding PVC Pipes.

Ventilation Ducts

The B735/B747 System can only be used to seal around ventilation duct if mechanically supported using 30 x 30 x 1.6mm or similar fixed to the surrounding substrate, unless a double layer of batts is used.

Remember to apply Nullifire Identification Label to completed barrier.

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5. STORAGE

B735/B747 Series of Batts are delivered, individually protected in plastic wrappers. They should be stored in a dry environment either flat or vertically on their long edge.

Provide a moveable end support to prevent the Batts from sliding to a repose angle. Containers of mastic should be stored between 2°C and 30°C.

6. TO ORDER

In the U.K., B735/B747 is stocked at Coventry.

In other countries, B735/B747 can be purchased through your nearest distributor, whose details can be obtained from Nullifire or from the Web site on <http://www.nullifire.com>.

7. TECHNICAL ASSISTANCE

Further assistance can be obtained by calling the Nullifire Technical Hotline or by e-mail – protect@nullifire.com.

Contract Support is available on request.

Nullifire run a training school in the U.K. for applicators. Full information can be obtained from Nullifire.

8. HEALTH AND SAFETY

A separate Material Safety Data Sheet is available.

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