

CI/SfB	(29)	(K2)
CAW P10		
Uniclass JP10:L68114		

## Product Information

### Description

FB747-50 is a lightweight 4 hour fire barrier comprising of a mineral fibre board coated with an elastomeric, ablative water based sealant.

### Usage / Purpose

In the event of a fire FB747-50 prevents the passage of fire and smoke by reinstating the compartment floor or wall when penetrated by building services. This system also provides thermal, acoustic and air sealing performance. FB747-50 is suitable for the following service penetrations; metallic and plastic pipes, cable trays, cable ladders, trunking, single and bunched cables, dampers and duct work. Typical areas of use include health and leisure facilities, schools, universities, commercial, retail and industrial buildings.

### Available Sizes

1200 mm x 600 mm x 50 mm  
140 kg/m<sup>3</sup>

### Packaging

Supplied individually

### Availability

Direct from tremco illbruck (see back of leaflet for address and telephone details).

## USAGE GUIDELINES

### Necessary Tools

Suitable skeleton/sausage gun for sealing. Suitable sharp saw and spatula.

### Preparation

- Clean all surfaces of loose particles, moisture, oils, grease and corrosive materials.
- 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 450 mm away from each side of the fire barrier.
- Remove lagging from pipes leaving a gap large enough to accommodate the width of the batt. Slot in batts flush against the penetration surface.

## MAXIMUM UNSUPPORTED OPENING

Installation	Max Opening	
	Height	Width
Wall Single	2.88 m	1.44 m
Wall Double	2.40 m	1.20 m
Floor Double	1.20 m	0.60 m

- Where opening exceeds maximum unsupported span, refer to the Additional Mechanical Support section of this data sheet.

### Installation

- Measure the size of the opening, relevant position and size of the services. Mask all surfaces where necessary to ensure the aesthetics of the FS721/FS701 sealant.
- Draw these details onto the batt and cut out using a saw or knife.
- Using a trowel or pallet knife apply a thick layer of FS721 sealant to all areas of contact around the opening and services. Apply a similar thickness of sealant 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 FS721 sealant is applied to all areas of contact between the boards. The barrier should be made up from as few pieces of 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 FS721 or FS701 sealant. A layer of FS721/FS701 should be applied to all joint lines formed by piecing the barrier together.
- To complete the installation a small bead of FS701 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 5 mm. Remove any masking and dispose of waste materials.
- When a double board system is utilised all joints must be offset.

**Nullifire**  
Smart Protection

# FB747-50

## Coated Batt

up to  
**240**  
mins



## Key Benefits Summary

- Certified to BS 476 Pt 20/22
- Provides an effective barrier to the spread of smoke and fire for up to 4 hours
- Quick and easy to install - no special tools required
- Ideal for sealing large, unsupported openings
- Suitable for use in floor and wall penetrations



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### Performance

Substrate	Service Type	Single Layer		Double Layer	
		Integrity (minutes)	Insulation (minutes)	Integrity (minutes)	Insulation (minutes)
MASONRY WALL / PLASTERBOARD PARTITION	Cable ladder 340 mm x100 mm	120	60	120	60
	Cables up to 26 mm dia	120	N/A	120	60
	Steel pipes up to 60 mm	120	30	120	30
	PVC pipes up to 110 mm dia*	60	N/A	60	N/A
	Steel ducts/dampers (445 mm x 445 mm)	120	120	120	120
MASONRY WALL	Blank openings	240	N/A	240	60
	Cable ladder 340 mm x100 mm	240	N/A	240	60
	Cables up to 20 mm dia	240	N/A	240	60
	Blank openings	240	120	240	240
MASONRY FLOOR	Cable ladder 340 mm x 100 mm	N/A	N/A	120	60
	Cables up to 20mm dia	N/A	N/A	120	60
	N/A	N/A	N/A	120	120

\*Plastic pipes to be fitted with suitable Nullifire intumescent product ie. FB300

#### 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.
- 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 1.6 mm angles bolted or welded back to back, fix 1200 mm centres or nearest in one direction and at 600 mm 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 principle 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 300 mm 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 FS721/FS701 sealant.

#### LOOSE CABLES, CABLE TRUNKING, CONDUITS

- When possible, loose cable should be drawn together and tied after a liberal application of FS721/FS701/FS705 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 FS721/FS701/FS705 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, B760 Seal Bags or FS705. Replace the trunking lid and continue to install seal around the outside. Conduits should be filled with sealant at the nearest access plate.

#### Storage

Store between +5°C and +35°C in dry conditions.

#### Shelf Life

Unlimited when stored as recommended.

#### Health & Safety Precautions

Safety data sheet must be read and understood before use.

#### Technical Service

tremco illbruck has a team of experienced Technical Sales Representatives who provide assistance in the selection and specification of products. For more detailed information, service and advice, please call Customer Services on 01942 251400.

#### Guarantee / Warranty

tremco illbruck products are manufactured to rigid standards of quality. Any product which has been applied (a) in accordance with tremco illbruck written instructions and (b) in any application recommended by tremco illbruck, but which is proved to be defective, will be replaced free of charge.

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