



*Stronger Bonds, Better Life*

# **FIREBAN ONE**

## **Fire Rated Sealant**

**Up to 4 Hours Fire Protection to AS 1530.4**  
**One Part Polyurethane**

## Description

Fireban One is a one part polyurethane gun grade mastic with high joint movement capability. Supplied in 600mL sausage style sachets.

Fireban One is available in limestone.

## Applications

Fireban One is designed for sealing joints and wall penetrations subject to high movement, high humidity and requiring up to 4 hours fire rating compliance.

- In situ internal jointing of concrete, precast panels, block and brick work and drywall systems.
- Sealing of electrical cables and pipe penetrations.
- Acoustic gap filling combined with fire rating requirement.
- May be used in conjunction with other systems such as fire collars, pillows, board systems and fire rated mortars.

## Advantages

- Smooth gunnability and tool off finish
- Excellent adhesion to metal, wood, plasterboard and all masonry
- Paintable
- Non staining
- Total 50% joint movement
- Water and weather proof
- High acoustic properties

## Method of Application

Install back-up material or joint filler as specified. Apply Fireban One sealant in a continuous operation using a positive pressure adequate to properly fill and seal the joint or penetration. Tool Fireban One with sufficient pressure to spread the sealant against the back-up material and onto the joint surfaces. A tool with a concave profile is recommended to achieve the correct shape.

## Joint and Penetration Design

Fireban One is gunned into and around the service penetrations and into any clearance holes through the fire separating element. Depth fill into cavities is controlled by pre-packing with foamed plastic backing rod.



## Application Limitations

- a) Fireban One should not be applied with wet tooling techniques – using solvents, water or detergent/soap solutions is not recommended.
- b) Fireban One should not be applied to surfaces with special protective or cosmetic coatings without prior consultation with the manufacturer; such surfaces include, but are not limited to mirrors, reflective glass, or surfaces coated with teflon, polyethylene or polypropylene.
- c) Fireban One sealant cures via air humidity. Final seal can be affected by water before or during cure.
- d) Fireban One should be allowed to cure for 14 days prior to subjecting to any intermittent or continuous water exposure (not fully immersible).
- e) Temperature range during application +5°C to +35°C

## Specification and Standards

### TESTING:

Fire tests have been conducted to AS 1530.4, in accordance with AS 4072.1 on concrete floors, brick, masonry, tilt-up panels, block and plasterboard walls.

### CONSTRUCTION AND EXPANSION JOINTS

Construction and expansion joints to be fire stopped to maintain the required FRL of the wall or floor element by treatment with Fireban One fire resistant sealant in accordance with Bostik Australia instructions.

### PRODUCT SAFETY

Fireban One is non-hazardous, however our recommendation for all adhesives is to avoid contact with skin and eyes and avoid breathing vapours. If poisoning occurs contact a doctor or poisons information centre. If skin contact occurs remove contaminated clothing and wash skin thoroughly. Refer to Material Safety Data Sheet for further information.

### DISCLAIMER:

Information given in this publication is given to the best of our knowledge and in good faith. Bostik Australia is not responsible if recipients of test reports, assessments or literature misinterpret the contents and wrongly use products based on those interpretations. No liability is accepted for error or omissions in this document. Bostik Australia reserves the right to change the specification without notice.

## Storage Handling

All materials shall be stored under cover in a manner that will prevent damage preferably on pallets and protected from moisture.

Do not freeze. Store in temperatures 5°C - 30°C

## Warranty

### LIMITED WARRANTY:

Your purchase and use of this product is subject to Bostik's standard terms and conditions of sale. Bostik's sole liability in the event of a product defect is to replace this product or return its purchase price.

All other warranties whether express or implied, including without limitations, any warranty of merchantability or fitness of purpose are expressly disclaimed unless prohibited by law or given in writing by Bostik for a specific project.

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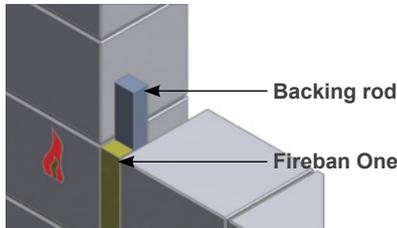
This document is the property of Bostik Australia and may not be copied, used or disclosed in whole or in part except with the prior written permission of Bostik Australia or if it has been furnished under contract with another party as specified in the contract. The copyright and the foregoing restriction on copying, use and disclosure extend to all media in which this information may be embodied.

## Fireban One Usage Rate (ml/m)

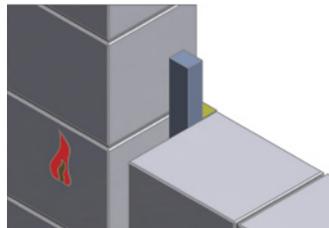
DEPTH OF JOINT (mm)	WIDTH OF JOINT (mm)						
	10	15	20	25	30	40	50
10	100	150	200	250	300	400	500
12		180	240	300	360	480	600
15		225	300	375	450	600	750
20			400	500	600	800	1000
25				625	750	1000	1250

# Masonry Construction and Expansion Joints Concrete, Brick and Block Walls

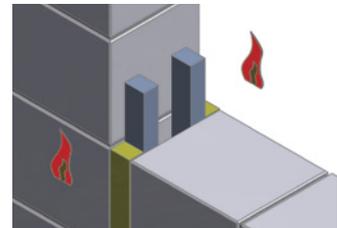
A) JOINT PROTECTED FROM EXPOSED SIDE



B) JOINT PROTECTED FROM UNEXPOSED SIDE



C) JOINT PROTECTED FROM BOTH SIDES



## Fill Depths of Fireban One

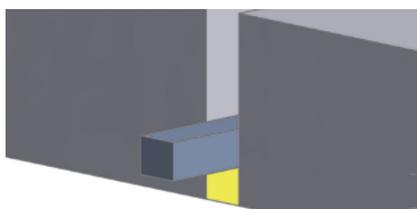
JOINT WIDTH (mm)	10			20			25			30			40			50		
JOINT FILL TYPE	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
RATING (HRS)																		
-120/120	10	10	10	10	15	10	10	25	10	10	30*	10	10	-	10	-	-	25
-180/180	10	-	10	10	-	10	20	-	20	20	-	20	20	-	20	-	-	25
-240/240	10	-	10	10	-	10	20	-	20	20	-	20	20	-	20	-	-	25

\*NOTE: Joint may be filled on one side if direction of fire is known.  
If direction of fire is not known, sealant must be applied from both sides.

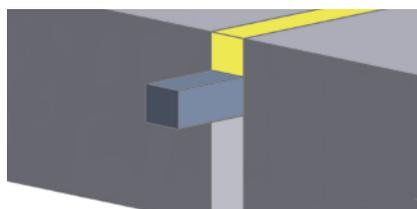
**Test References:** FSP 0028 FSP 0066 FCO 0254  
FSP 0035 FSP 0096 FCO 0327\*  
FSP 0070 FSP 0219 FCO 0938  
FSP 0188 FSP 0222  
FCO 300 FP 1819  
Based on extrapolation from tests

## Concrete and Pre-Cast Slabs

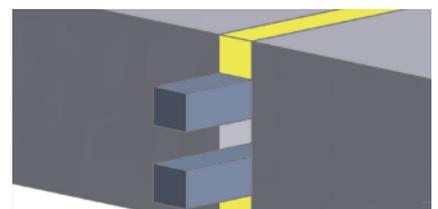
A) JOINT PROTECTED FROM EXPOSED SIDE



B) JOINT PROTECTED FROM UNEXPOSED SIDE



C) JOINT PROTECTED FROM BOTH SIDES

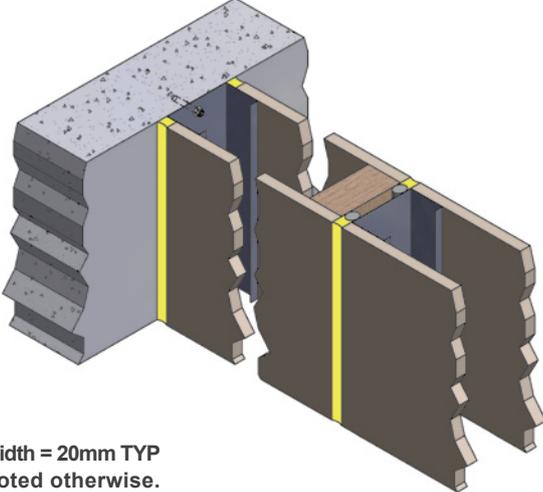
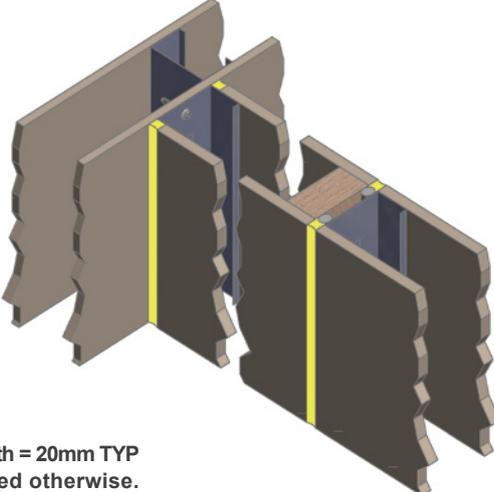
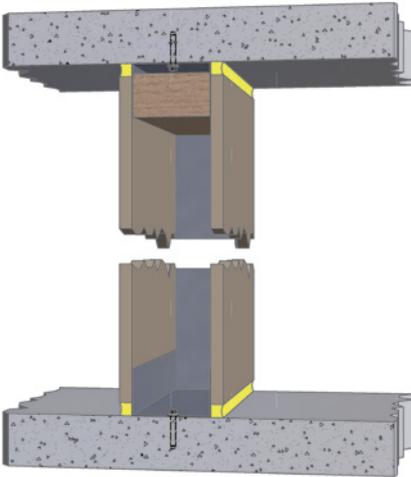


JOINT WIDTH (mm)	10			20			25			30			40			50		
JOINT FILL TYPE	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
RATING (HRS)																		
-120/120	10	10	10	10	15	10	10	25	10	10	30*	10	10	-	10	-	-	25
-180/180	10	-	10	10	-	10	20	-	20	20	-	20	20	-	20	-	-	25
-240/240	10	-	10	10	-	10	20	-	20	20	-	20	20	-	20	-	-	25

Fireban One sealant Foam backing rod

# Drywall Construction and Expansion Joints

## 1 Hour Plasterboard Systems

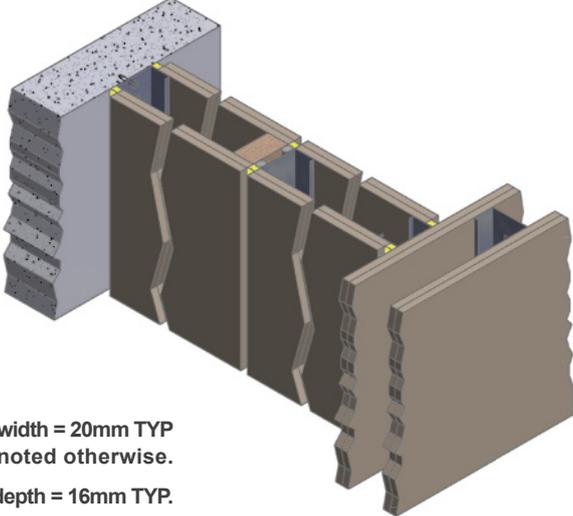
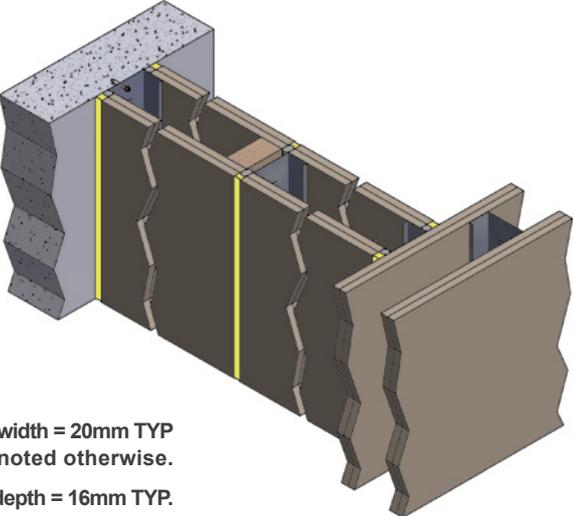
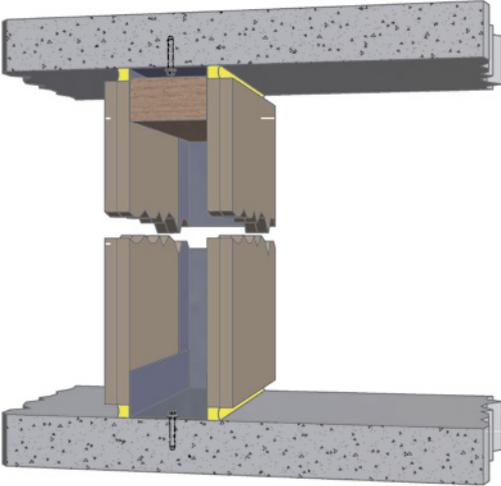
SYSTEM	SYSTEM DIAGRAM	TEST REFERENCES
<ul style="list-style-type: none"> <li>• T- Junction between concrete wall and plasterboard wall</li> <li>• Typical control joint in plasterboard wall</li> </ul>	 <p>* Sealant width = 20mm TYP unless noted otherwise.</p>	<p>Systems based on CSIRO FSV 0691 Joints E and F</p>
<ul style="list-style-type: none"> <li>• T-junction between two plasterboard walls</li> <li>• Typical control joint in plasterboard wall</li> </ul>	 <p>* Sealant width = 20mm TYP unless noted otherwise.</p>	<p>Systems based on CSIRO FSV 0691 Joints D and E</p>
<ul style="list-style-type: none"> <li>• Deflection head and base between concrete slabs and plasterboard wall</li> </ul>	 <p>* Sealant width = 20mm TYP unless noted otherwise.</p>	<p>Systems based on CSIRO FSV 0691 Joint G and H</p>

Fireban One sealant
  Foam backing rod

**NOTE:**

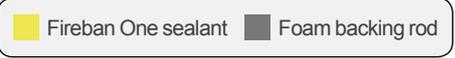
- Fire Rated Plasterboard Systems must be installed according to manufacturer's instructions
- Fireban One is filled to depth of plasterboard sheet

## Drywall Construction and Expansion Joints 2 hour Plasterboard Systems

SYSTEM	SYSTEM DIAGRAM	TEST REFERENCES
<p><b>Recessed system</b></p> <ul style="list-style-type: none"> <li>• T-Junction between concrete wall and plasterboard wall</li> <li>• Typical control joint in plasterboard wall</li> <li>• T-Junction between two plasterboard walls</li> </ul>	 <p>* Sealant width = 20mm TYP unless noted otherwise. Sealant depth = 16mm TYP.</p>	<p>System based on CSIRO FSV 0691 Joints D, E and F</p>
<p><b>Flush finished system</b></p> <ul style="list-style-type: none"> <li>• T-Junction between concrete wall and plasterboard wall</li> <li>• Typical control joint in plasterboard wall</li> <li>• T-Junction between two plasterboard walls</li> </ul>	 <p>* Sealant width = 20mm TYP unless noted otherwise. Sealant depth = 16mm TYP.</p>	<p>System based on CSIRO FSV 0691 Joints D, E and F</p>
<ul style="list-style-type: none"> <li>• Deflection head and base between concrete slabs and plasterboard wall</li> </ul>	 <p>* Sealant width = 20mm TYP unless noted otherwise. Sealant depth = 16mm TYP.</p>	<p>System based on CSIRO FSV 0691 Joint G and H</p>

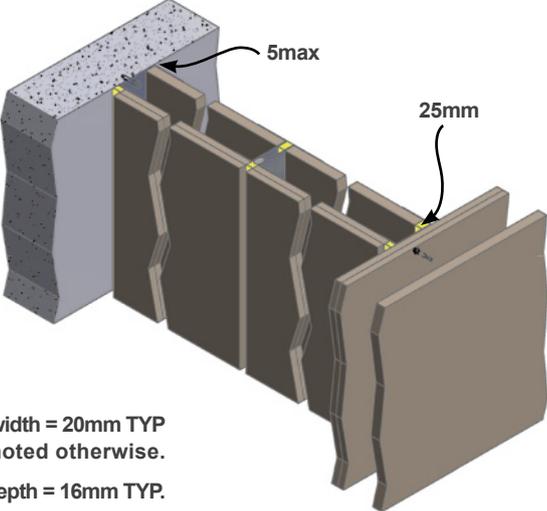
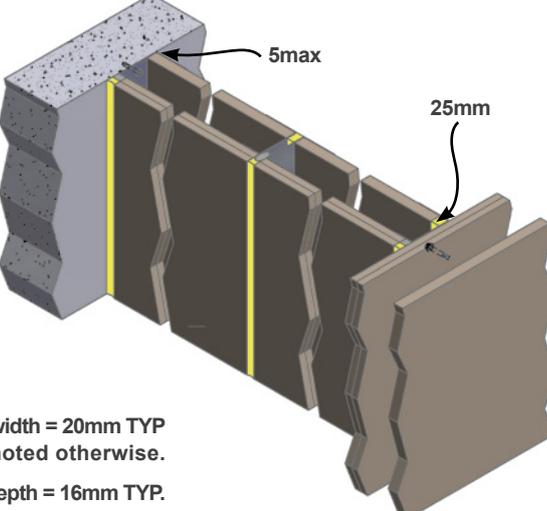
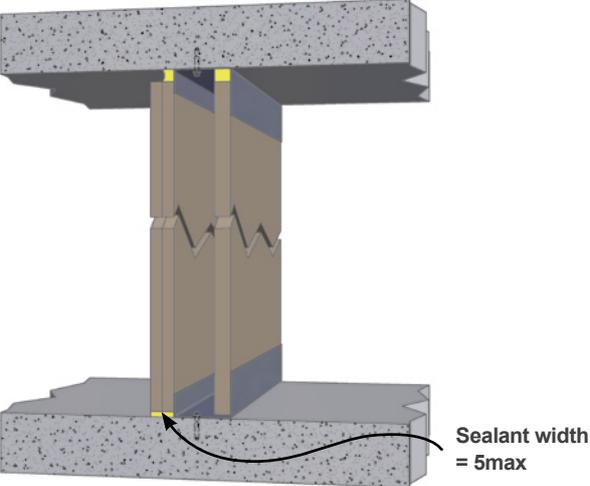
**NOTE:**

- Fire Rated Plasterboard Systems must be installed according to manufacturer's instructions
- Fireban One is filled to depth of plasterboard sheet



# Drywall Construction and Expansion Joints

## 2 hour Shaft Wall Systems

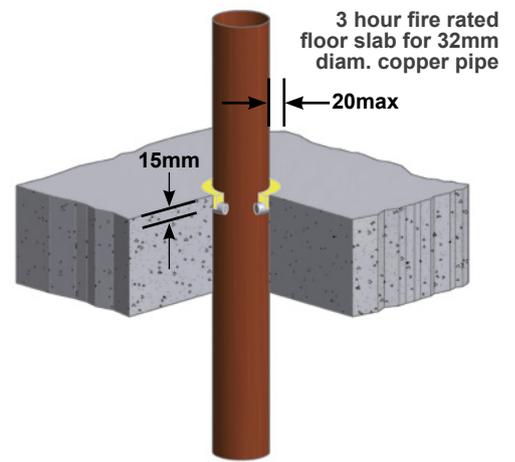
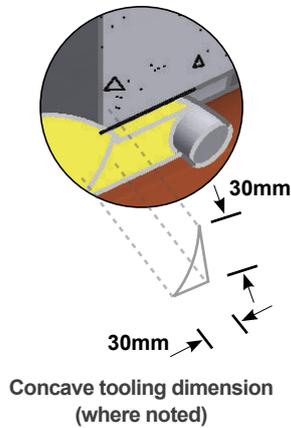
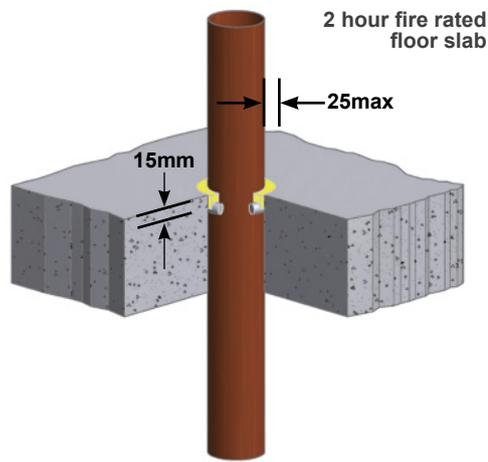
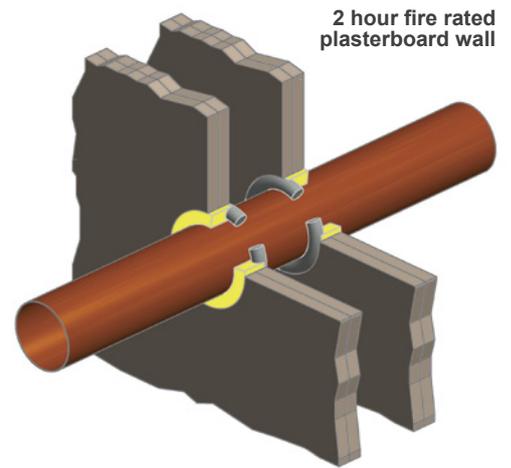
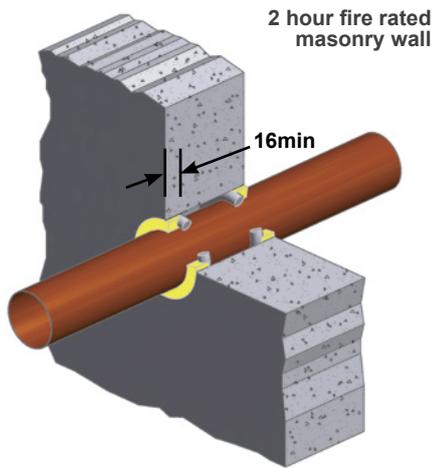
SYSTEM	SYSTEM DIAGRAM	TEST REFERENCES
<p><b>Recessed system</b></p> <ul style="list-style-type: none"> <li>• T-Junction between concrete wall and shaft wall</li> <li>• Typical control joint in shaft wall</li> <li>• T-junction between two shaft walls</li> </ul>	 <p>* Sealant width = 20mm TYP unless noted otherwise. Sealant depth = 16mm TYP.</p>	<p>System based on CSIRO FSV 0691 2 hour system Joints D, E and F</p>
<p><b>Flush finished system</b></p> <ul style="list-style-type: none"> <li>• T-Junction between concrete wall and shaft wall</li> <li>• Typical control joint in shaft wall</li> <li>• T-junction between two shaft walls</li> </ul>	 <p>* Sealant width = 20mm TYP unless noted otherwise. Sealant depth = 16mm TYP.</p>	<p>System based on CSIRO FSV 0691 2 hour system Joints D, E and F</p>
<ul style="list-style-type: none"> <li>• Deflection head and base between concrete slabs and plasterboard wall</li> </ul>	 <p>* Sealant width = 20mm TYP unless noted otherwise. Sealant depth = 16mm TYP.</p> <p>Sealant width = 5max</p>	<p>System based on CSIRO FSV 0691 2 hour system Joints G and H</p>

Fireban One sealant
  Foam backing rod

**NOTE:**

- Fire Rated Plasterboard Systems must be installed according to manufacturer's instructions
- Fireban One is filled to depth of plasterboard sheet

# Pipe Penetrations

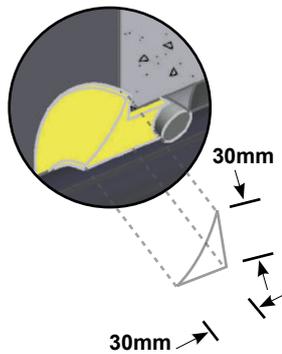
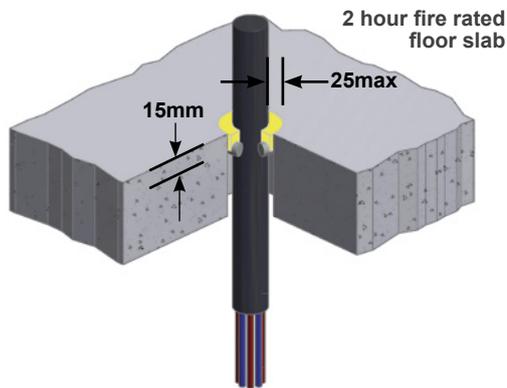
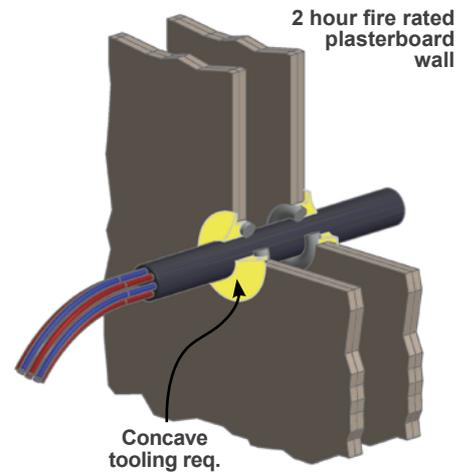
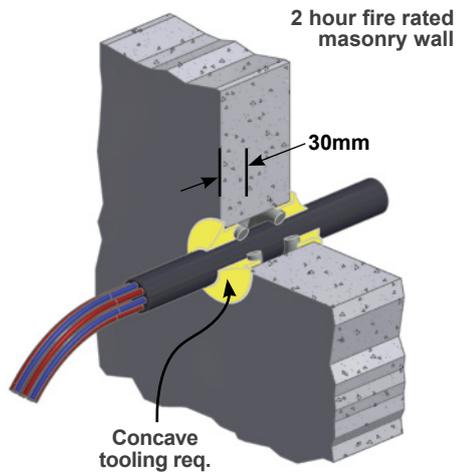


\* Sealant width = 20mm TYP unless noted otherwise.

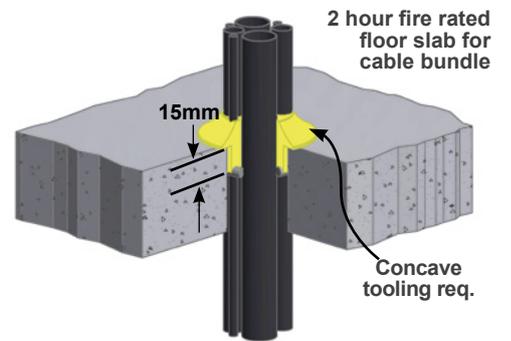
PIPE TYPE	PIPE SIZES	F.R.L.	TEST REFERENCE
COPPER PIPE • Non-insulated  (Thru concrete slab)	32mm diameter	-/180*/-  *Note: Integrity failure at 230mins	BRANZ FP 1819
STEEL AND CAST-IRON • Non-insulated  (Thru concrete slab)	32mm - 150mm diameter	-/120/-	BRANZ FP 1819
BRASS AND COPPER • Non-insulated  (Thru plasterboard or masonry wall)	*32mm - 200mm diameter  *Note: Integrity failure at 116mins	-/120*/-	CSIRO FSV 0689 and FSV 0690
uPVC PIPING Conduit piping (Thru plasterboard or masonry wall)	Up to 19mm diameter. Depth of sealant to be 30mm from top of floor slab or both sides of walls	-/120/120	CSIRO FSV 0690 (Penetration N)

Fireban One sealant Foam backing rod

# Electrical Cable Penetrations



Concave tooling dimension (where noted)



\*NOTE: Fireban One is to be filled to depth of plasterboard in one hour systems.

\* Sealant width = 20mm TYP unless noted otherwise.

PIPE TYPE	PIPE SIZES	F.R.L.	TEST REFERENCE
SINGLE CABLE	Up to 32mm diameter (2x16mm cables)	-/120/120	WALLS FSV 0690
CABLE BUNDLE	180x130 overall size (Rectangular hole)	-/120/120	FLOORS FP 1819
STEEL CABLE TRAY	100mm cable tray 300mm cable tray with various cables	-/120/90 -/120/30* -120/90	WALLS FSV 0690 WALLS FSV 0690 FLOORS FP 1819

\*Insulation Failure at 59mins

Fireban One sealant    Foam backing rod







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