



Fireban One

FIRE RATED SEALANT
UP TO 4 HOURS FIRE PROTECTION TO AS 1530.4
ONE PART POLYURETHANE



FIREBAN ONE – FIRE RATED SEALANT

DESCRIPTION

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

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 weatherproof
- 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

1. Fireban One should not be applied with wet tooling techniques – using solvents, water, or detergent/ soap solutions is not recommended.
2. Fireban One should not be applied to surfaces with special protective 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.
3. Fireban One sealant cures via air humidity. Final seal can be affected by water before or during cure.
4. Fireban One should be allowed to cure for 14 days prior to subjecting to any intermittent or continuous water exposure (not fully immersible).
5. Temperature range during application +5°C to +35°C.

SPECIFICATIONS & 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 and Bostik New Zealand 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.

STORAGE HANDLING

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

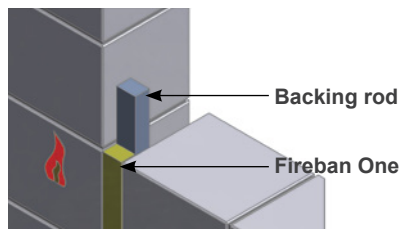
Do not freeze. Store in temperatures 5°C – 30°C.

Fireban One Usage Rate (ml/m)

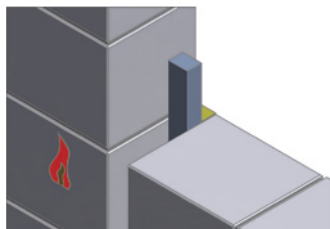
DEPTH OF JOINT (mm)	WIDTH OF JOINT (mm)						
	10	15	20	25	30	40	50
10	100	150	200	250	300	400	500
12		180	240	300	360	480	600
15		225	300	375	450	600	750
20			400	500	600	800	1000
25				625	750	1000	1250

Masonry Construction and Expansion Joints Concrete, Brick and Block Walls

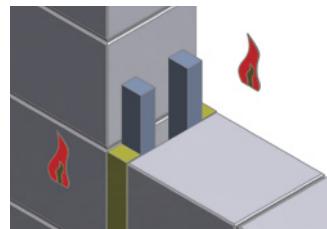
A) JOINT PROTECTED FROM EXPOSED SIDE



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

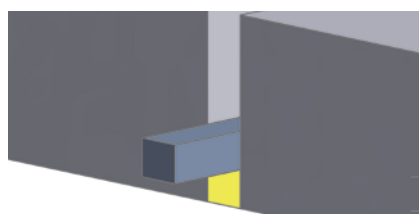
*NOTE: Joint may be filled on one side if direction of fire is known.
If direction of fire is not known, sealant must be applied from both sides.

Test References:

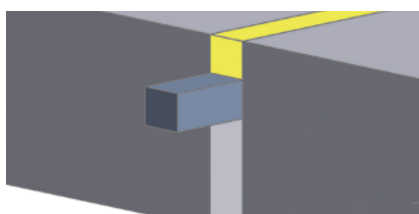
FSP 0028 FSP 0066 FCO 0254
FSP 0035 FSP 0096 FCO 0327*
FSP 0070 FSP 0219 FCO 0938
FSP 0188 FSP 0222
FCO 300 FP 1819
Based on extrapolation from tests

Concrete and Pre-Cast Slabs

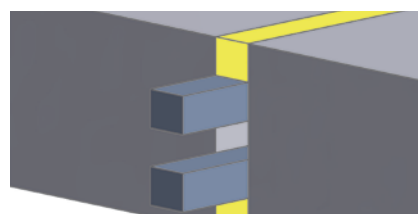
A) JOINT PROTECTED FROM EXPOSED SIDE



B) JOINT PROTECTED FROM UNEXPOSED SIDE



C) JOINT PROTECTED FROM BOTH SIDES

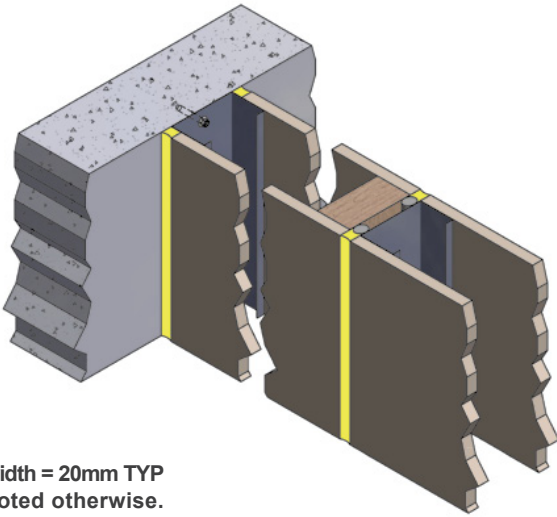
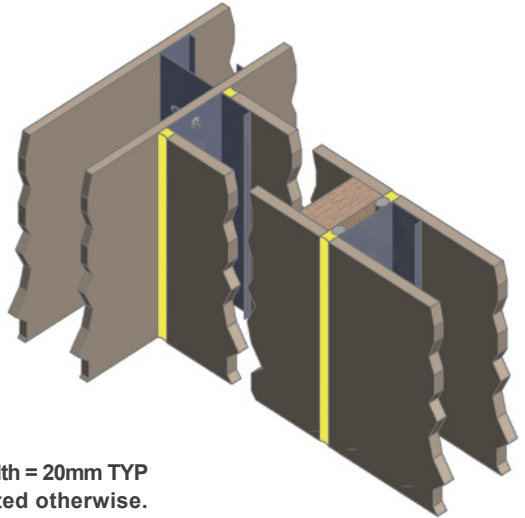
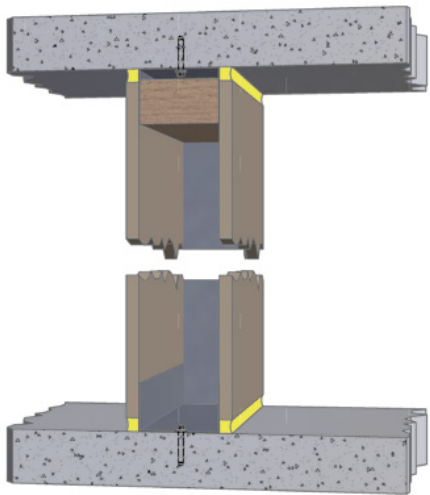


JOINT WIDTH (mm)	10			20			25			30			40			50		
JOINT FILL TYPE	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	A	B	C
RATING (HRS)																		
-/120/120	10	10	10	10	15	10	10	25	10	10	30*	10	10	-	10	-	-	25
-180/180	10	-	10	10	-	10	20	-	20	20	-	20	20	-	20	-	-	25
-240/240	10	-	10	10	-	10	20	-	20	20	-	20	20	-	20	-	-	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"> T- Junction between concrete wall and plasterboard wall Typical control joint in plasterboard wall 	 <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"> T-junction between two plasterboard walls Typical control joint in plasterboard wall 	 <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"> Deflection head and base between concrete slabs and plasterboard wall 	 <p>* Sealant width = 20mm TYP unless noted otherwise.</p>	<p>Systems based on CSIRO FSV 0691 Joint G and H</p>

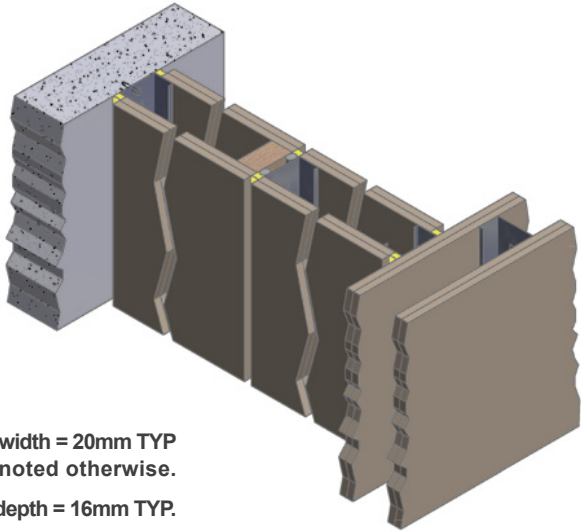
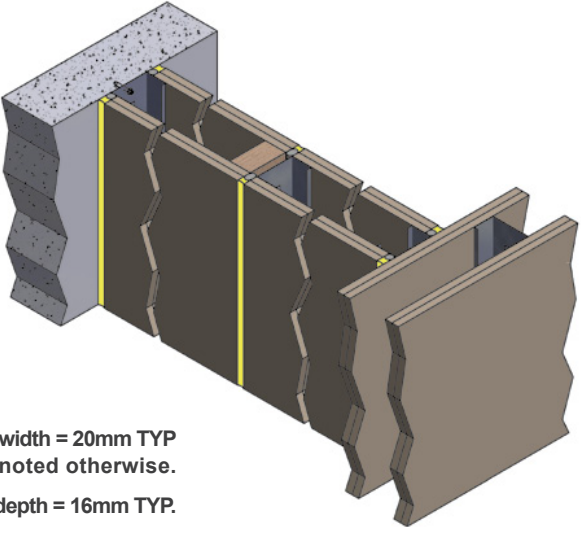
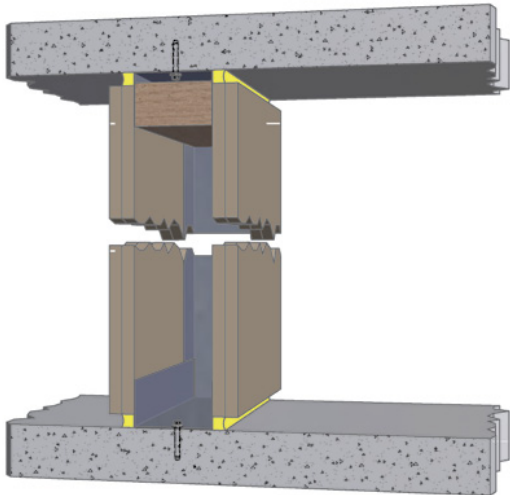
Fireban One sealant
 Foam backing rod

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>Recessed system</p> <ul style="list-style-type: none"> • T-Junction between concrete wall and plasterboard wall • Typical control joint in plasterboard wall • T-Junction between two plasterboard walls 	 <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>Flush finished system</p> <ul style="list-style-type: none"> • T-Junction between concrete wall and plasterboard wall • Typical control joint in plasterboard wall • T-Junction between two plasterboard walls 	 <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"> • Deflection head and base between concrete slabs and plasterboard wall 	 <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>

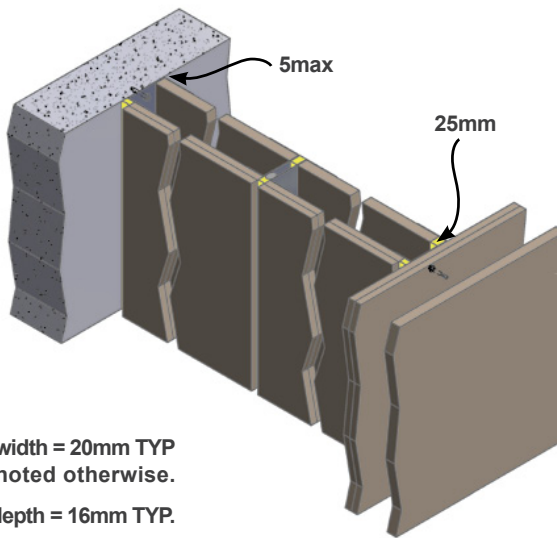
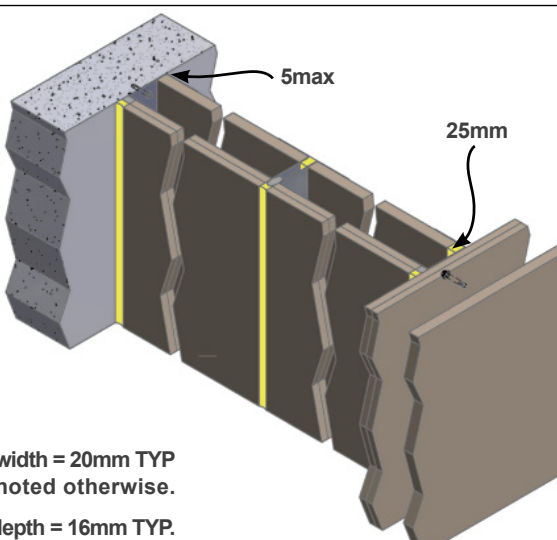
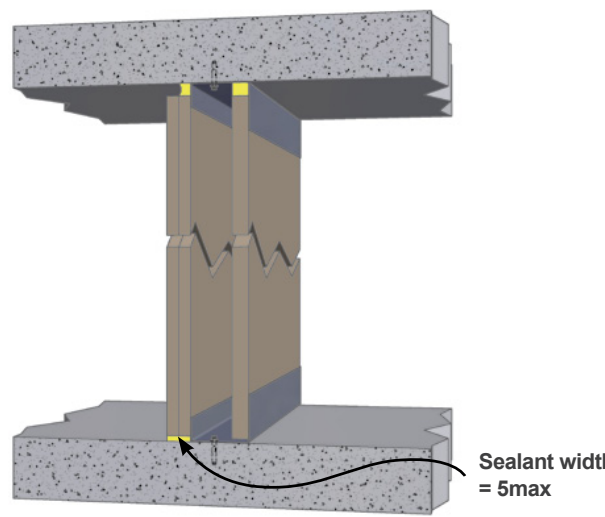
NOTE:

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

 Fireban One sealant  Foam backing rod

Drywall Construction and Expansion Joints

2 hour Shaft Wall Systems

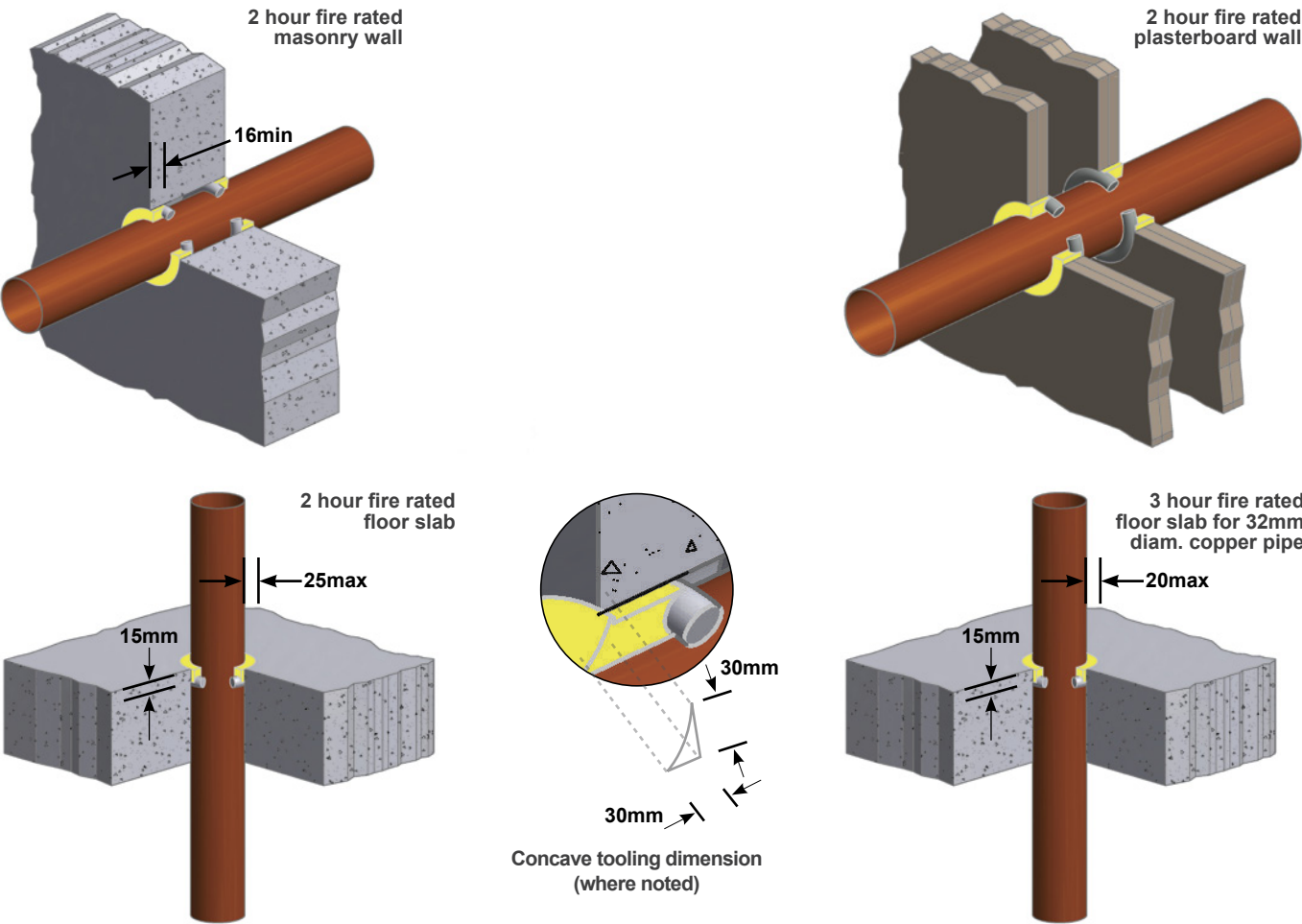
SYSTEM	SYSTEM DIAGRAM	TEST REFERENCES
<p>Recessed system</p> <ul style="list-style-type: none"> • T-Junction between concrete wall and shaft wall • Typical control joint in shaft wall • T-junction between two shaft walls 	 <p>* Sealant width = 20mm TYP unless noted otherwise. Sealant depth = 16mm TYP.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

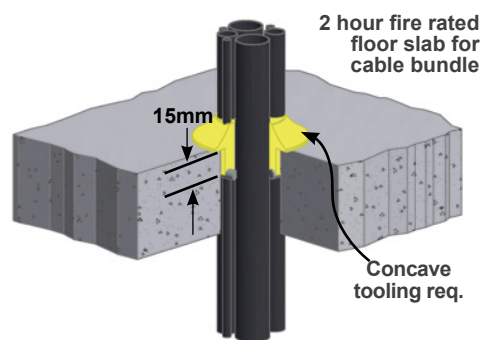
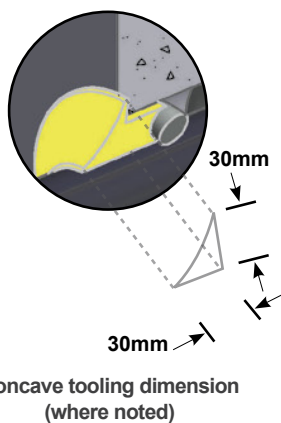
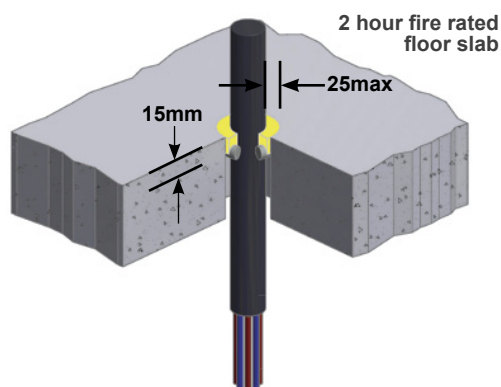
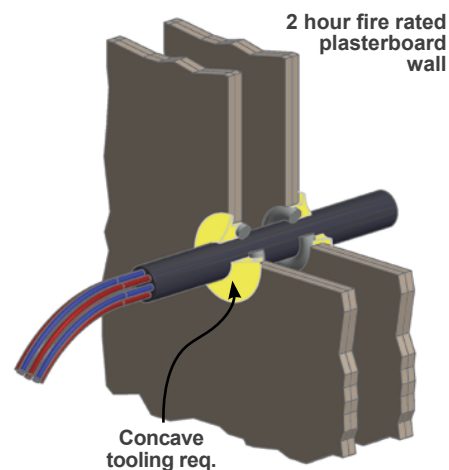
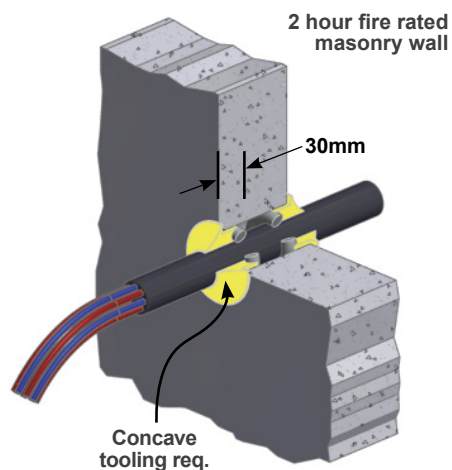
Pipe Penetrations



* 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*/- <small>*Note: Integrity failure at 230mins</small>	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 <small>*Note: Integrity failure at 116mins</small>	-/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)

Electrical Cable Penetrations



*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 *Insulation Failure at 59mins	WALLS FSV 0690 WALLS FSV 0690 FLOORS FP 1819

Fireban One sealant Foam backing rod

NOTES

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JUNE 2017