CERTIFIRE AUSTRALIA	**SERVICE PENETRATION SYSTEM CERTIFICATE NO.**	**FG2** Version 3.0
	WARNING: This certificate may only be reproduced in full	
	SYSTEM NAME: **PROMASEAL FIRE MORTAR FLOOR APPLICATIONS**	DATE ISSUED: **June 1996** EXPIRY DATE: **30 June 2008**
PO Box 6825 St Kilda Road Central VIC 8008 Tel: +61 3 9865 8644 Fax: +61 3 9865 8615 www.certifire.com.au info@certifire.com.au	SUPPLIER: **PROMAT AUSTRALIA PTY LTD** 1 Scotland Road, Mile End, SA 5031 Tel: +61 8 8352 6759 Fax: +61 8 8352 1014	

1. SCOPE

The service penetration fire protection system described below has been appraised against Certifire schedules CA001, CA002, and CA021. These schedules require that the FRLs of the system have been established in accordance with the BCA provisions and that the products are manufactured/supplied under an independently audited quality management system.

2. FIELD OF APPLICATION

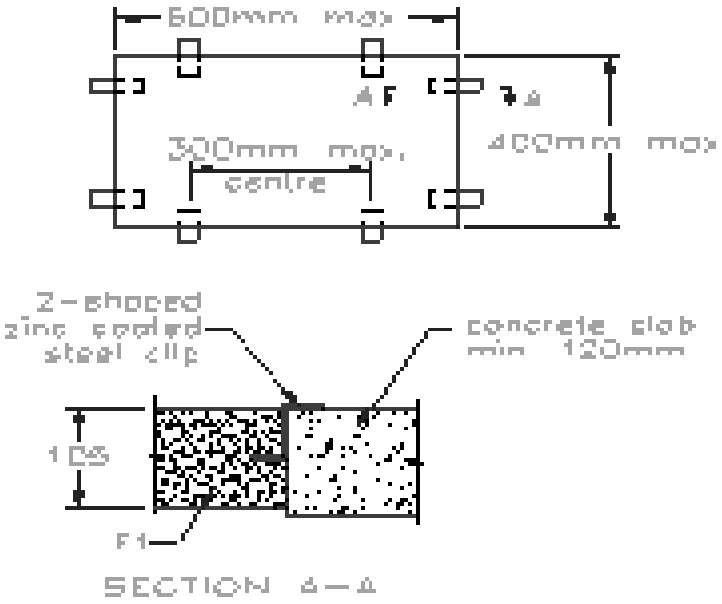
This certificate relates to the use of Promaseal Fire Mortar in conjunction with a range of fire protection systems to protect openings in concrete floors which may be penetrated by the range of services defined below.

The system may be used to protect openings in concrete slabs of minimum depth of 120mm, with or without service penetrations, of maximum size 400mmx600mm without a joint detail or 400mm wide openings of unlimited length provided transverse joints are provided at 600mm maximum centres. The Fire Resistance Levels (FRLs) of Promaseal Fire Mortar systems established in accordance with the BCA provisions and relevant Certifire schedules are given in Table 1.

The Promaseal Fire Mortar should be applied to a minimum depth of 105mm. Details of protection details for services penetrations are given below.

Table 1: Performance of Promaseal Fire Mortar systems

The Fire Resistance Levels (FRLs) represent (Structural adequacy / Integrity / Insulation) in minutes.

Description of penetrations/separating element	**FRL**
Un-penetrated Max size 400 x 600 mm	-/240/180
Installation details  SYSTEM FG2/1	

3. DESCRIPTION OF COMPONENTS

F1 Promaseal Fire Mortar is a light weight refractory cement powder prepared by mixing with water. It is supplied in 20kg bags.

F2 Promaseal Acrylic Sealant is a flexible water based gunnable sealant and is supplied in 300ml cartridges, 600ml sausages and 10 litre pails.

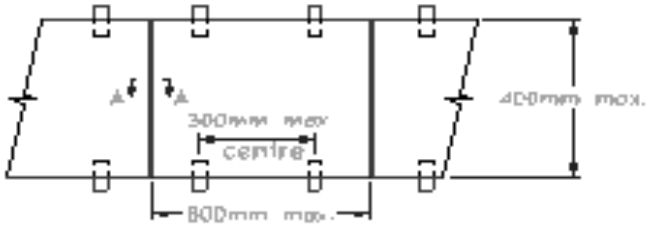
F3 Promaseal IBS foam strip is a fire resistant flexible foam supplied in boxes or per metre.

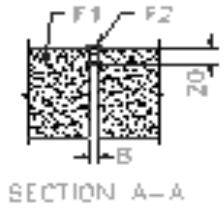
F4 Fyre-sleeves comprise a galvanised steel casing which has IBS foam fire rated packing materials bonded to the inside surface.

F5 Promaseal Fire Pillows comprise green cloth envelopes enclosing a high temperature fire resistant granulated material. They are supplied in 3 sizes, nominally 300x250x40mm (large); 200x250x40mm (medium) and100x250x30mm (small).

Description of penetrations/separating element	**FRL**
Un-penetrated. Max size 400 x unlimited length	-/240/120

Installation details



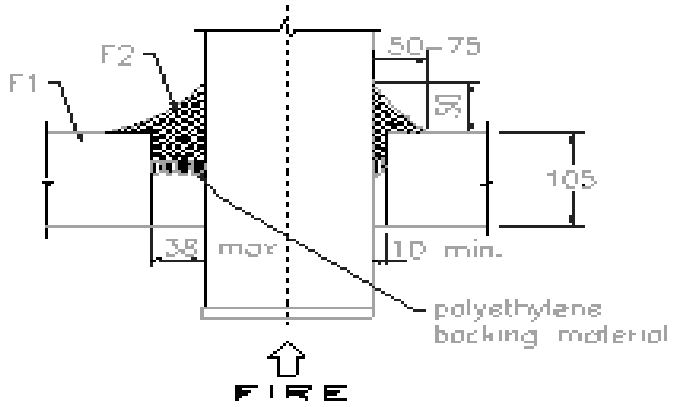


SECTION A–A

SYSTEM FG2/2

Copper, steel and cast iron pipes Max nominal diameter 150mm	-/120/-

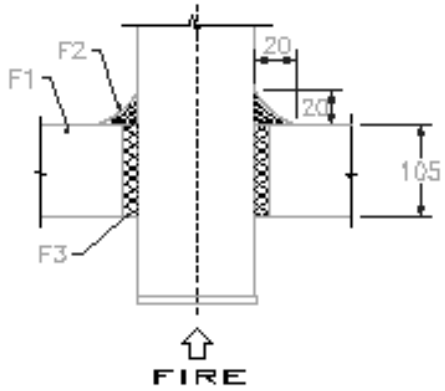
Installation details



SYSTEM FG2/3

Copper, steel and cast iron pipes Max nominal diameter 100mm	-/180/-

Installation details



SYSTEM FG2/4

COMPONENTS:

F1 Promaseal Fire Mortar

F2 Promaseal Acrylic Sealant

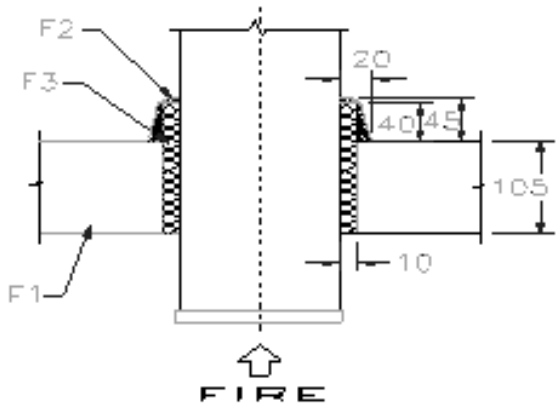
F3 Promaseal IBS foam strip

F4 Fyre-sleeve

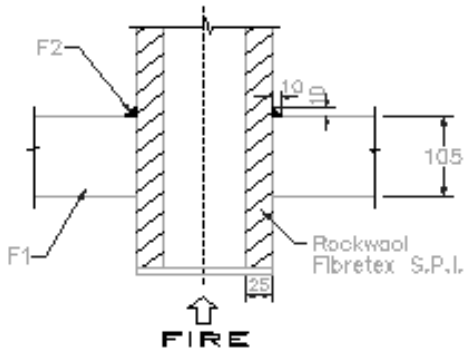
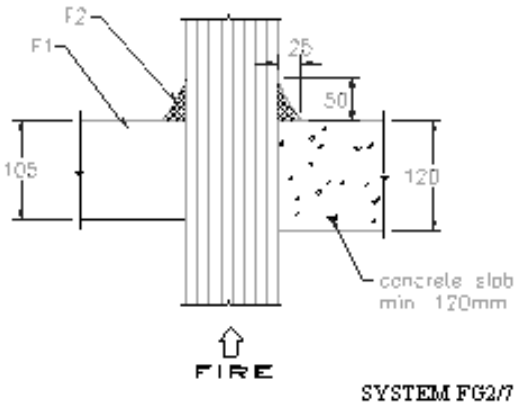
F5 Promaseal Fire Pillows

Description of penetrations/separating element	**FRL**
Steel, cast iron and brass pipes Max nominal diameter 100mm	-/240/-
Steel, cast iron and copper pipes Max nominal diameter 200mm	-/120/-

Installation details



SYSTEM FG2/5

Copper, steel and cast iron pipe max nominal diameter 76mm insulated with rockwool Fibretex Sectional pipe insulation 25mm thick	-/240/120
Installation details  SYSTEM FG2/6	
PVC insulated PVC sheathed Telecommunication cables protected by Promaseal Acrylic Sealant (max bundle size 140mm x90mm)	-/120/90
Installation details  SYSTEM FG2/7	

COMPONENTS:

F1 Promaseal Fire Mortar

F2 Promaseal Acrylic Sealant

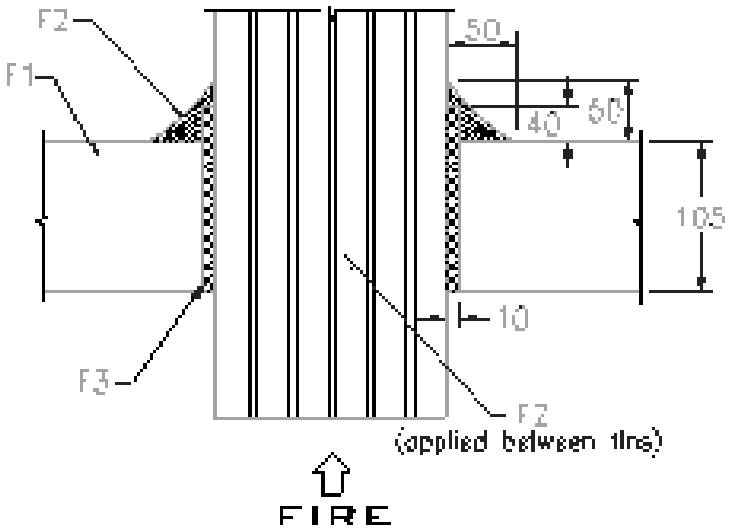
F3 Promaseal IBS foam strip

F4 Fyre-sleeve

F5 Promaseal Fire Pillows

Description of penetrations/separating element	**FRL**
160x85mm finned aluminium cased busway protected by Promaseal Acrylic Sealant and IBS foam strip	-/240/-

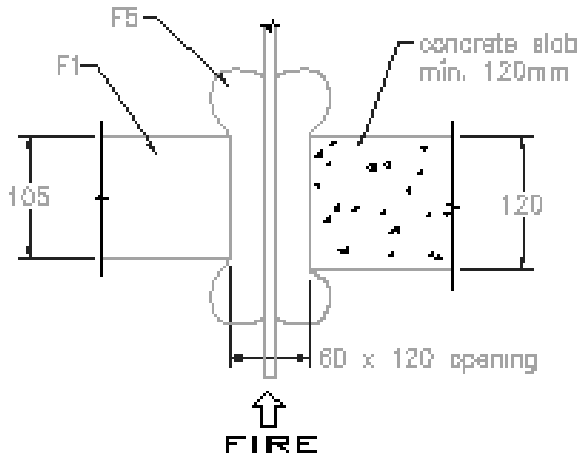
Installation details



SYSTEM FG2/8

100X10mm copper busbar	-/240/-

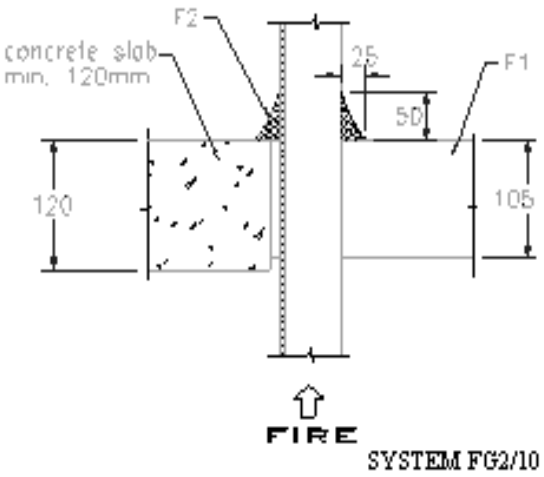
Installation details



SYSTEM FG2/9

Assorted PVC insulated PVC sheathed power cables with copper conductors on a cable tray (AS4072.1 Appendix Group D1 configuration)	-/240/30

Installation details



SYSTEM FG2/10

COMPONENTS:

F1 Promaseal Fire Mortar

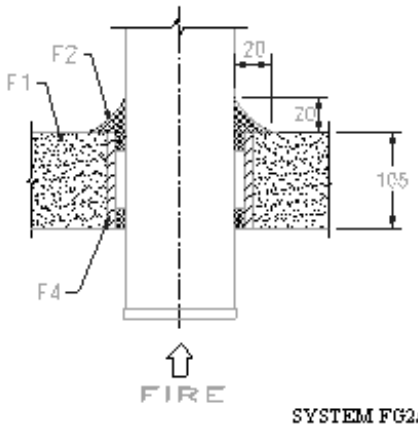
F2 Promaseal Acrylic Sealant. F3 Promaseal IBS foam strip

F4 Fyre-sleeve

F5 Promaseal Fire Pillows

Description of penetrations/separating element	**FRL**
Copper, steel and cast iron pipes Max nominal diameter 100mm	-/240/-

Installation details



SYSTEM FG2/11

COMPONENTS

F1 Promaseal Fire Mortar

F2 Promaseal Acrylic Sealant

F3 Promaseal IBS foam strip

F4 Fyre-sleeve

F5 Promaseal Fire Pillows

4. INSTALLATION SUMMARY

- The Promaseal Fire Mortar is the primary fire stopping system. Secondary fire stopping systems or insulation materials shall be applied around the services in accordance with the details above and manufacturer's installation instructions.
- The Z brackets shall be fitted around the perimeter of the opening.
- The Promaseal Fire Mortar shall be mixed and poured around the services to the required depth against a temporary formwork.
- The temporary formwork can be removed when the Promaseal Fire Mortar is dry.

See manufacturers installation instructions for further details.

Reference FGM-1-8/91.

It is recommended that the systems described in this certificate are installed by a Certifire listed Fire Protection Contractor certified in the appropriate category and that the installation be required to be labelled with a Certifire Label.

5. SERVICEABILITY DATA

Non-loadbearing

Resistance to water - No data presented.

Flexibility - No data presented.

6. HEALTH AND SAFETY

Health and Safety data sheet ref. 070494 can be obtained from the supplier.

7. SUPPORTING DATA

Test report no.	FP1613	**Test date:**	5 September 1991
	FSP0202		22 May 1992
Letter of opinion	92/236	**Date:**	24 February 1992

8. CONTACT DETAILS

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9. INFORMATION ON CERTIFIRE

Certifire Australia is an independent, authoritative body providing a certification scheme for passive fire protection systems, suppliers and contractors.

For further information contact Certifire Australia.

Certifire Australia takes direction from the Certifire Advisory Panel which has been constituted with balanced representation from all sectors of the industry.

NOTE: This system certificate should be read in conjunction with Certifire schedules CA001, CA002 and CA021. The BCA requires that FRL's are based on tests performed in accordance with AS1530.4-1990 or a similar/more severe test. It should be recognised that a single test method will not provide a full assessment of the performance of a system or fire hazard under all fire conditions

Reviewed by	Approved by
Rick Fox **National Technical Manager** **PROMAT AUSTRALIA PTY LTD**	**G J Evans** **Chief Executive Officer** **CERTIFIRE PTY LTD**