INFRASTRUCTURE TECHNOLOGIES
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Certificate of Test

No. 2973

This is to certify that the element of construction described below was tested by CSIRO Infrastructure Technologies in accordance with Australian Standard 1530, Methods for fire tests on building materials, components and structures, Part 4 Fire-resistance tests of elements of construction, 2014 on behalf of:

Boss Products (Australia) Pty Ltd
Unit 8, 15-23 Kumulla Rd
Caringbah NSW

A full description of the test specimen and the complete test results are detailed in the Division's Sponsored Investigation report numbered FSP 1833.

Product Name: Penetration 7 – FireMastic-300 sealant protecting a 32-mm diameter aperture penetrated by a 32-mm Copper pipe lagged with Boss P40-MAK Wrap.

Description: The Sponsor identified the specimen as a plasterboard wall system comprised of Boral Firestop 16-mm plasterboard both sides (with an established FRL of -/90/90) with FireMastic-300 sealant protecting a 32-mm diameter aperture penetrated by a 32-mm Copper pipe with a wall thickness of 1.22-mm. The services extended 500-mm from exposed side and 800-mm from the unexposed side. The penetrating service was plugged with Boss FireMastic-300 to a depth of 50-mm on the exposed end and left open on the unexposed end. The penetrating service was supported approximately 500-mm from the unexposed side. The FireMastic-300 sealant, manufactured by Boss Fire & Safety Pty Ltd, is described as an intumescent Fire-Rated one part acrylic emulsion sealant. The Boss P40-MAK manufactured by Boss Fire & Safety Pty Ltd, is described as a mineral fibre lagging 38-mm thick with a density of 40-kg/m^3 wrap and foil lining on one side. A surface seal around the pipe was created with a 50mm fillet of FireMastic-300 sealant on the exposed and unexposed face. Boss P40-MAK wrap was wrapped approximately twice around the copper pipe to a thickness of around 40-mm that were secured with foil tape. The wrap extended 300-mm from both sides of the wall flush with the FireMastic fillet. For a detailed description, refer to drawing titled CSIRO 0517 – 08 dated 26/05/17 by Boss Fire & Safety.

Structural Adequacy	not applicable
Integrity	no failure at 91 minutes
Insulation	no failure at 91 minutes

and therefore for the purpose of Building Regulations in Australia, achieved a fire-resistance level (FRL) of -/90/90.

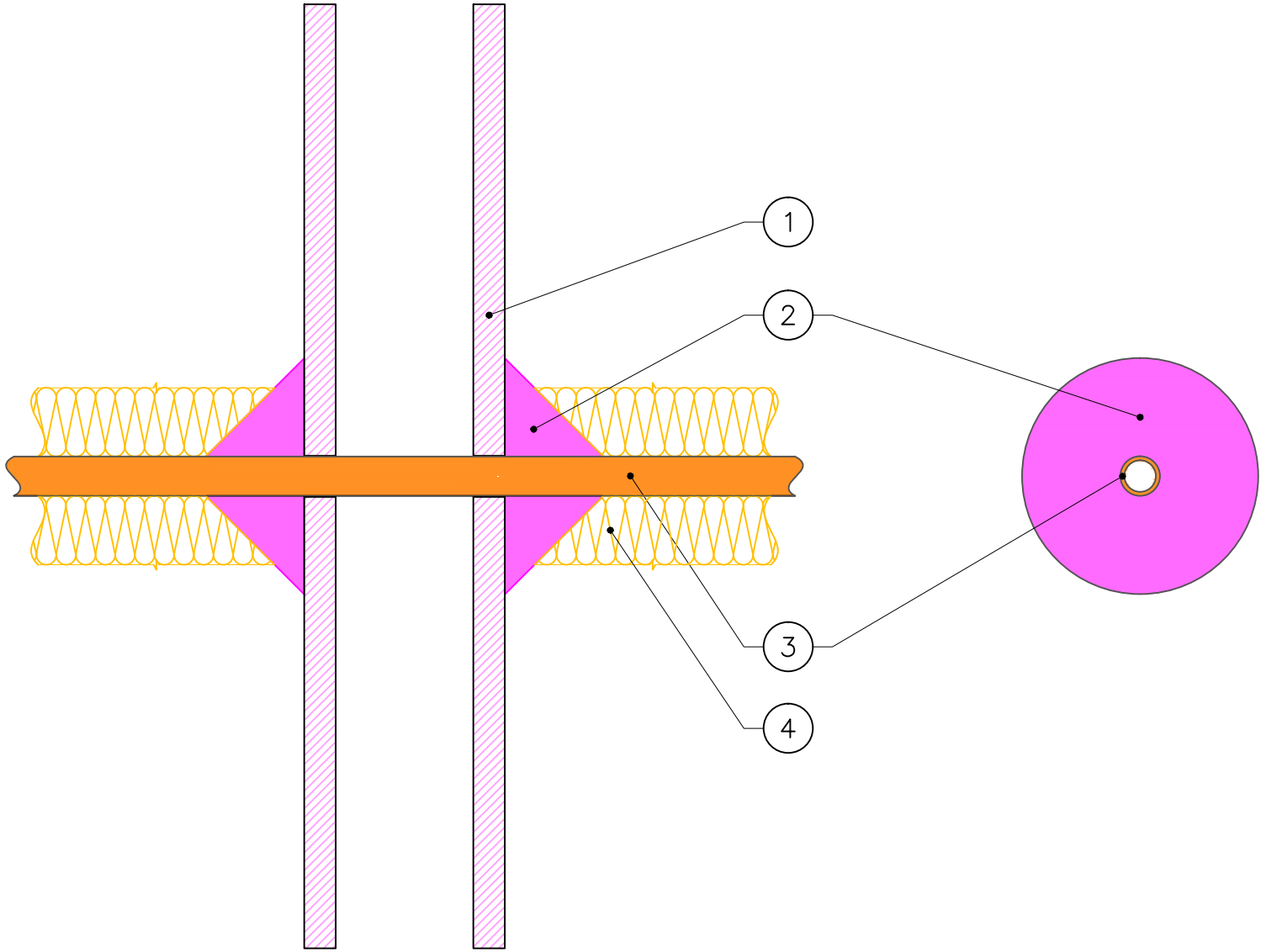
The fire-resistance level of the wall system is applicable when the system is exposed to fire from either direction. The fire-resistance level (FRL) are limited to that of the separating element. This certificate is provided for general information only and does not comply with regulatory requirements for evidence of compliance.

Testing Officer: Heherson Alarde Date of Test: 9 May 2017

Issued on the 20th day of June 2017 without alterations or additions.

B. Roddy

Brett Roddy
Manager, Fire Testing and Assessments



Notes

Component Summary:

(1) Plasterboard, 16mm fire-rated

(2) BOSS FireMastic-300 seal, 50mm surface fillet

(3) Copper pipe, 32mm diameter

(4) BOSS P40-MAK Wrap, single layer 300mm from either side of wall.

BOSS FIRE AND SAFETY

Sales & Technical Support
Ph: 1300 502 677
www.bossfire.com.au

Drawing Title
Copper Pipe Penetrating 90min Wall

Description
FireMastic-300 Surface Seal

Test Ref
CSIRO 0517

Date of Issue
26 May 2017

Drawing Number	Drawn By
CSIRO 0517 - 08	SL