



Certificate of Test

No. 2968

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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 2 – FireMastic-300 sealant protecting a 19-mm diameter aperture penetrated by a 19-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 19-mm diameter aperture penetrated by a 19-mm copper pipe lagged with Boss P40-MAK Wrap with a wall thickness of 1.02-mm. The service penetrated the unexposed side by 800-mm and the exposed side by 500-mm. The pipe was plugged with Boss FireMastic-300 to a depth of 50-mm on the exposed end and left open on the unexposed end. The pipe was supported approximately 500-mm and 1500-mm away from the wall on the unexposed face. The FireMastic-300 sealant, described as an intumescent Fire-Rated one part acrylic emulsion sealant and Boss P40-MAK wrap fire stopping system, manufactured by Boss Fire & Safety Pty Ltd is described as a mineral fibre lagging 38-mm thick with a density of 40-kg/m³ wrap and foil lining on one side. A surface seal around the pipe was created with a 50-mm fillet of FireMastic-300 sealant on the exposed and unexposed face. The pipe was then lagged with a sheet of Boss P40-MAK Wrap, wrapped twice around the pipe that extended out 300-mm from the FireMastic-300 on both sides of the wall that was secured with foil tape. There was 200-mm of unprotected pipe on the exposed side. For a detailed description, refer to drawing titled CSIRO 0517 – 03 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.

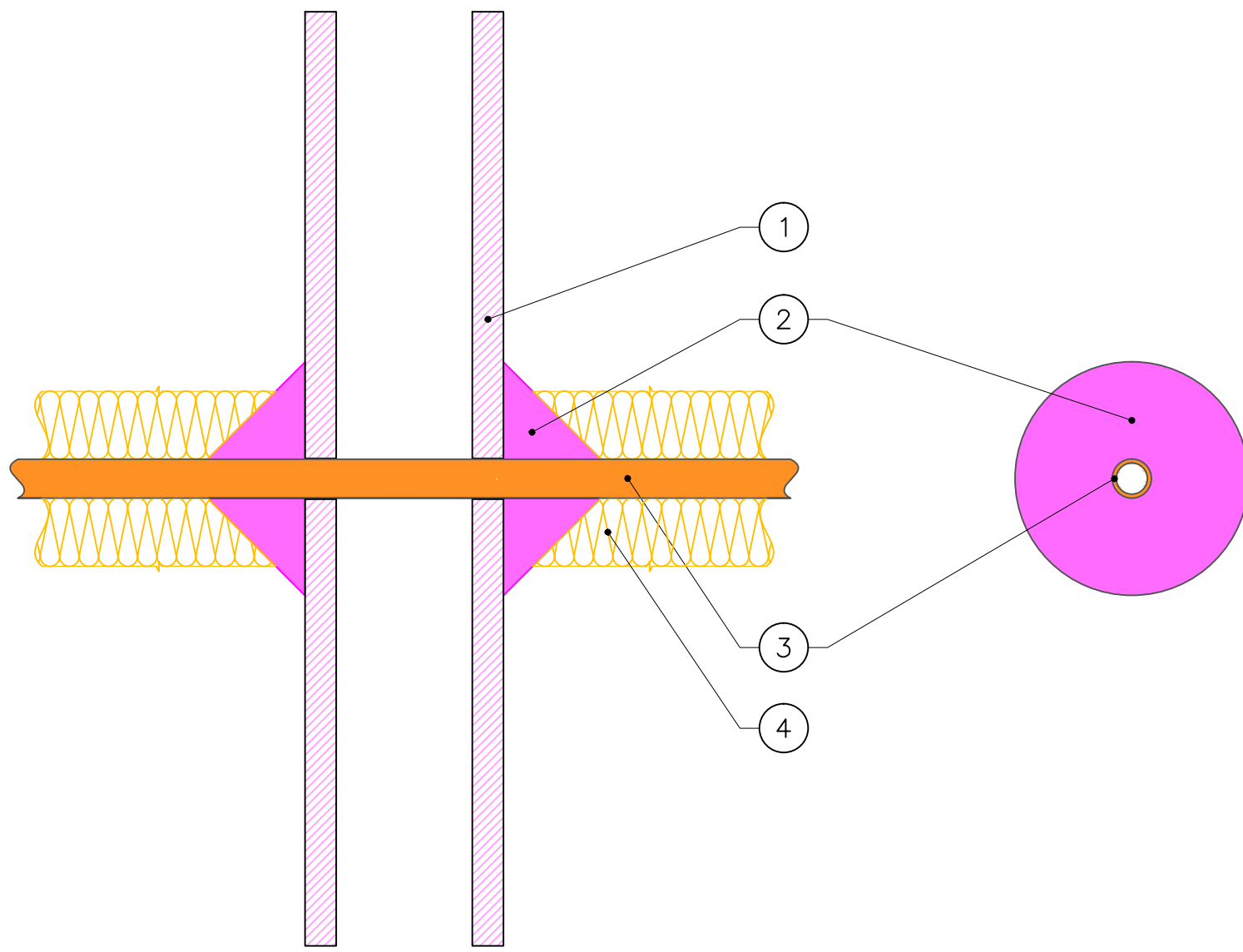
Brett Roddy
 Manager, Fire Testing and Assessments

	This document is issued in accordance with NATA's accreditation requirements. Accreditation No. 165 – Corporate Site No. 3625 Accredited for compliance with ISO/IEC 17025 - Testing
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Notes

Component Summary:

- (1) Plasterboard, 16mm fire-rated
- (2) BOSS FireMastic-300 seal, 50mm surface fillet
- (3) Copper pipe, 19.05mm diameter
- (4) BOSS P40-MAK Wrap, single layer 300mm from either side of wall.




Sales & Technical Support
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Drawing Title	Copper Pipe Penetrating 90min Wall	
Description	FireMastic-300 Surface Seal	
Test Ref	CSIRO 0517	
Date of Issue	26 May 2017	
Drawing Number	CSIRO 0517 - 03	Drawn By SL