



Certificate of Test

No. 2972

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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 6 – FireMastic-300 sealant protecting a 300-mm wide cable tray with a set of 3 and 8 bundle cables 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 300-mm wide cable tray with a set of 3 and 8 bundle cables lagged with Boss P40-MAK Wrap. The services penetrated 500-mm from the exposed side and 800-mm from the unexposed side. Measurements of penetrating service are 3 x 6-mm², 3 core and earth, 8 x 16-mm², 3-core and earth on a 300-mm wide tray. Tested cables represent the smaller two cable bundles and arrangement as per Appendix D1- AS1530.4 (the 4x185mm² and the 1 x 630mm² cable from Appendix D1 were omitted. Cables on both exposed and unexposed side were left untreated. The penetrating services 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/m³ 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 twice (to a thickness of about 40-mm) around the cable tray and secured with steel wire and foil tape. The wrap extended 300-mm from both sides of wall flush with the FireMastic fillet. For a detailed description, refer to drawing titled CSIRO 0517 – 07 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.

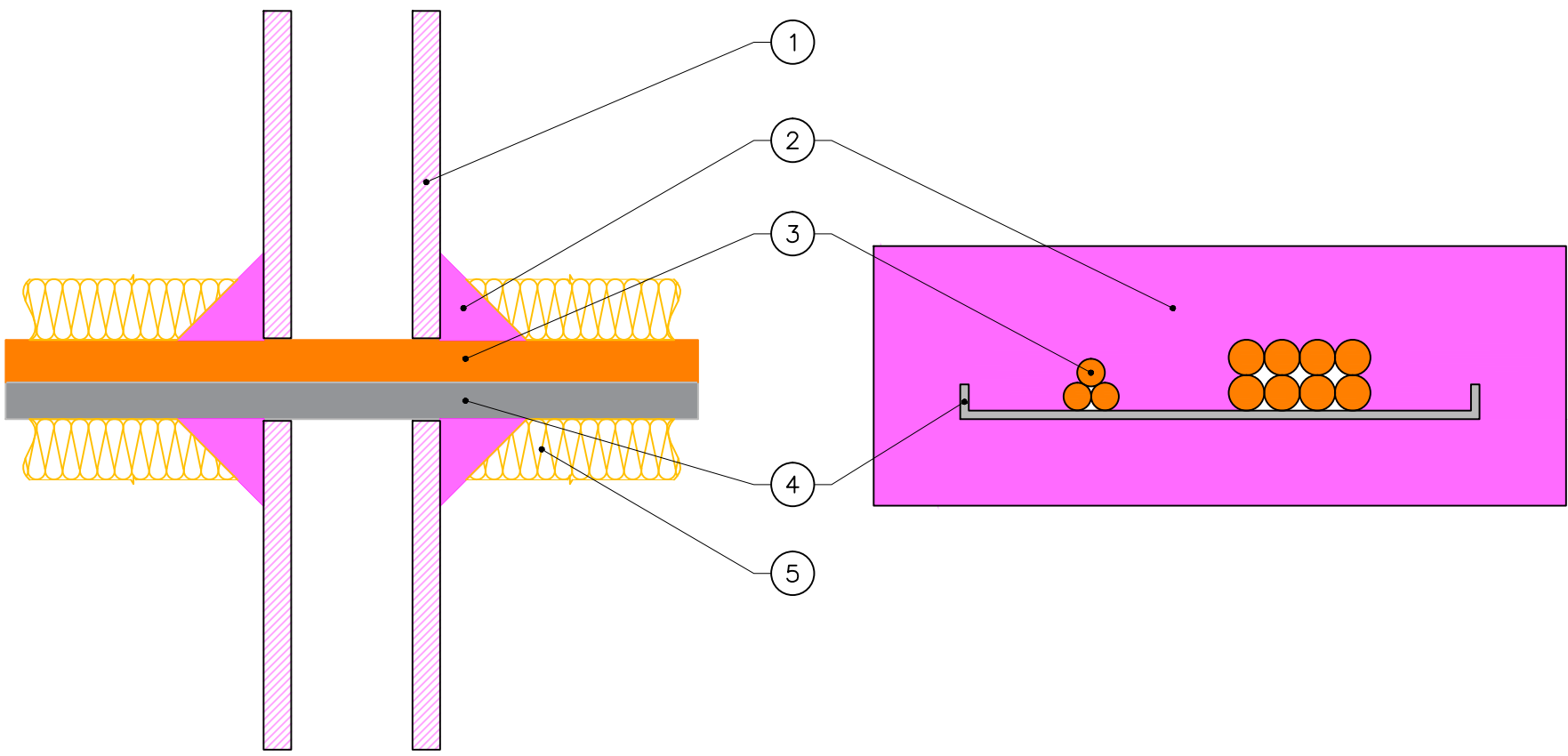
Brett Roddy
 Manager, Fire Testing and Assessments

	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) Power cables, 3 x 6mm² 3 core & earth, 8 x 16mm² 3 core & earth (Appendix D1 - AS1530.4)
- (4) Cable tray, 300mm wide
- (5) BOSS P40-MAK Wrap, single layer 300mm from either side of wall.




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

Drawing Title	
Power Cables Penetrating 90min Wall	
Description	
FireMastic-300 Surface Seal	
Test Ref	
CSIRO 0517	
Date of Issue	
26 May 2017	
Drawing Number	Drawn By
CSIRO 0517 - 07	SL