

# Certificate of Assessment

Job No.: NK7590

No. 2316

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This is to certify that the specimen described below was tested by the CSIRO Division of Materials Science and Engineering in accordance with Australian Standard 3959:2009 Construction of Buildings in bushfire-prone areas Appendix F, on behalf of:

Trend Shield Australia Pty Ltd  
13 Burwood Terrace  
CLONTARF QLD 4019  
AUSTRALIA

A full description of the test specimen and the complete test results are detailed in the Division's sponsored investigation report numbered FNK 11705.

## SAMPLE

**IDENTIFICATION:** Envirograf Clear Fire Protective Coating applied on Western Red Cedar

## DESCRIPTION OF SAMPLE:

The sponsor described the tested specimen as a clear intumescent fire protective coating system applied onto a Western Red Cedar timber panel. The intumescent coatings and sealer comprised of the following layers:

- Layer 1: 1 coat of undiluted all-purpose exterior water-based clear top coat, 30- $\mu$ m dry film thickness (DFT);  
Layer 2: 2 coats of Envirograf clear intumescent coating, 200- $\mu$ m DFT per coat;  
Layer 3: 1 coat of water-based clear timber sealer, 30- $\mu$ m DFT.

The intumescent coating system was applied at an application rate of 8 m<sup>2</sup>/L to 10 m<sup>2</sup>/L at 5% dilution.

Nominal total DFT of intumescent coating:	360 $\mu$ m to 420 $\mu$ m
Nominal total thickness of timber panel:	30 mm
Nominal total mass:	11 kg/m <sup>2</sup>
Nominal density of HW02 coating:	1220 kg/m <sup>3</sup>
Colour:	clear

## TEST RESULT:

MAXIMUM HEAT RELEASE RATE (kW/m <sup>2</sup> )	AVERAGE HEAT RELEASE RATE (FIRST 600s AFTER IGNITION) (kW/m <sup>2</sup> )
66.9	28.1

The specimen satisfies the requirements for bushfire-resisting specified in AS 3959:2009 Construction of Buildings in bushfire-prone area Appendix F.

The specimen has not been subjected to the weathering procedure of ASTM D 2898 Method B as specified by Appendix F F2(b) of AS 3959.

Testing Officer: Heherson Alarde Date of Test: 11 May 2016

Issued on the 29<sup>th</sup> day of September 2016 without alterations or additions.

  
Brett Roddy

Team Leader, Fire Testing and Assessments



NATA Accredited Laboratory  
Number: 165  
Corporate Site No 3625  
Accredited for compliance with ISO/IEC 17025 - Testing.

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