

Certificate of Assessment

Job No.: NK7590

No. 2317

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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 11706.

SAMPLE

IDENTIFICATION: Envirograf Clear Fire Protective Coating applied on Syrian Cedar

DESCRIPTION OF

SAMPLE:

The sponsor described the tested specimen as a clear intumescent fire protective coating system applied onto a Syrian 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- μ m dry film thickness (DFT);
Layer 2: 2 coats of Envirograf clear intumescent coating, 200- μ m DFT per coat;
Layer 3: 1 coat of water-based clear timber sealer, 30- μ m DFT.

The intumescent coating system was applied at an application rate of 8 m²/L to 10 m²/L at 5% dilution.

Nominal total DFT of intumescent coating: 360 μ m to 420 μ m
Nominal total thickness of timber panel: 32 mm
Nominal total mass: 8.13 kg/m²
Nominal density of HW02 coating: 1220 kg/m³
Colour: clear

TEST RESULT:

MAXIMUM HEAT RELEASE RATE (kW/m ²)	AVERAGE HEAT RELEASE RATE (FIRST 600s AFTER IGNITION) (kW/m ²)
92.9	9.2

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: 13 May 2016

Issued on the 29th 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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