Certificate of Test

QUOTE No.: NC8321 REPORT No.: FNC12546

COMBUSTIBILITY TEST FOR MATERIALS IN ACCORDANCE WITH AS 1530.1-1994

TRADE NAME: Cupaclad Natural Slate Cladding

SPONSOR: Industrie Arc Pty Ltd

Suite 3.03/55 Miller Street PYRMONT NSW 2009

AUSTRALIA

DESCRIPTION OF

TEST SAMPLE: The sponsor described the tested specimen as a natural slate stone.

Nominal thickness: 50 mm

Nominal density: 2800 kg/m³

Colour: charcoal grey

TEST PROCEDURE: Five (5) samples were tested in accordance with Australian Standard 1530 Methods for fire

tests on building materials, components and structures, Part 1- 1994: Combustibility Test for

Materials.

An alternative suitable insulating material was used to fill the annular space between the

furnace tubes, as specified in Clause 4.2 of ISO 1182:2010.

RESULTS: The following calculated results were obtained, refer also to Summary of measurements:

Arithmetic mean	$=\frac{\Sigma results}{5}$
Mean furnace thermocouple temperature rise (°C)	0.59
Mean specimen centre thermocouple temperature rise (°C)	0.30
Mean specimen surface thermocouple temperature rise (°C)	0.71
Mean duration of sustained flaming (s)	0
Mean mass loss (%)	3.24

DESIGNATION: The material is **NOT** deemed combustible according to the test criteria specified in Clause 3.4

of AS 1530.1-1994.

These test results relate only to the behaviour of the test specimens of the material under the particular conditions of the test and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

DATE OF TEST: 22 January 2020

Issued on the 14th day of February 2020 without alterations or additions.

Faustin Molina

Stephen Smith

Testing Officer Team Leader, Reaction to Fire & Façade Fire Laboratory

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NATA Accredited Laboratory Number: 165 Corporate Site No 3625

Accredited for compliance with ISO/IEC 17025 - Testing.

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SUMMARY OF MEASUREMENTS AND OBSERVATIONS OF SAMPLES UNDER TEST C12546

Parameters	Symbol or expression	Unit	Sample Number				
r didiffecers	Symbol of expression	symbol	1	2	3	4	5
Initial specimen mass	m _{si}	g	206.69	206.17	204.37	205.66	204.34
Final specimen mass	m _{sf}	g	200.03	199.25	197.65	199.19	197.83
Mass loss	$\Delta m = \frac{Msi-Msf}{Msi} \times 100$	%	3.22	3.36	3.29	3.15	3.19
Total duration of sustained flaming	Cumulative total of duration of flaming*	S	0	0	0	0	0
Initial furnace thermocouple temperature	T _{fi}	°C	749	746	751	748	753
Maximum furnace thermocouple temperature	T _{fm}	°C	772	771	776	767	774
Final furnace thermocouple temperature	T _{ff}	°C	770	770	776	767	774
Furnace thermocouple temperature rise	$\Delta Tf = Tfm - Tff$	°C	2	1	0	0	0
Maximum specimen centre thermocouple temperature	Tcm	°C	782	787	788	780	790
Final specimen centre thermocouple temperature	T _{cf}	°C	782	786	788	779	790
Specimen centre thermocouple temperature rise	$\Delta Tc = Tcm - Tcf$	°C	0	1	0	1	0
Maximum specimen surface thermocouple temperature	Tcm	°C	794	801	803	792	799
Final specimen surface thermocouple temperature	Tsf	°C	793	800	803	791	798
Specimen surface thermocouple temperature rise	$\Delta Ts = Tcm - Tsf$	°C	1	1	0	1	1
Test duration	-	min	100	115	100	90	95

 $[\]ensuremath{^{*}}$ Any individual duration flaming less than 5 seconds was discarded

End of Test Certificate

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