Certificate of Test

QUOTE No.: NC8231 REPORT No.: FNC12462 (Revision A)

COMBUSTIBILITY TEST FOR MATERIALS IN ACCORDANCE WITH AS 1530.1-1994

SPONSOR: Ritek Systems Ptv Ltd

> 19 Lowermill Road, Cooroy QLD 4563

DESCRIPTION OF

TEST SAMPLE: The sponsor described the tested specimen as an aluminium material representative of the

aluminium used for Ritek Wall Systems. The aluminium was tested without any coating.

50 mm Nominal thickness: Nominal density: 2700 kg/m³ Colour: silver

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

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.

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

Arithmetic mean	$=\frac{\Sigma results}{5}$
Mean furnace thermocouple temperature rise (°C)	9.75
Mean specimen centre thermocouple temperature rise (°C)	13.18
Mean specimen surface thermocouple temperature rise (°C)	10.96
Mean duration of sustained flaming (s)	0
Mean mass loss (%)	0.21

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: 24 September 2019

Issued on the 24th day of March 2021. This Certificate supersedes FNC12462 issued 14 October 2019 due to a change in ownership of the Intellectual Property associated with manufacturer and trade name of the product/system described in the Certificate. The sponsor has confirmed there has been no change to the design and material specifications of the product/system referenced in this Certificate.

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 C12462

Parameters	Symbol or expression	Unit	Sample Number				
raiameters	Symbol of expression	symbol	1	2	3	4	5
Initial specimen mass	m _{si}	g	205.75	204.71	204.55	204.35	205.96
Final specimen mass	m _{sf}	g	205.46	203.65	204.15	203.97	205.89
Mass loss	$\Delta m = \frac{M \text{si} - M \text{s} f}{M \text{s} i} \times 100$	%	0.14	0.52	0.20	0.19	0.03
Total duration of sustained flaming	Cumulative total of duration of flaming*	S	0	0	0	0	0
Initial furnace thermocouple temperature	T _{fi}	°C	750	750	753	753	753
Maximum furnace thermocouple temperature	T _{fm}	°C	803	804	789	788	785
Final furnace thermocouple temperature	T _{ff}	°C	796	795	780	779	770
Furnace thermocouple temperature rise	$\Delta Tf = Tfm - Tff$	°C	7	9	9	9	15
Maximum specimen centre thermocouple temperature	T _{cm}	°C	709	733	695	714	703
Final specimen centre thermocouple temperature	T _{cf}	°C	702	720	691	704	670
Specimen centre thermocouple temperature rise	$\Delta Tc = Tcm - Tcf$	°C	7	13	4	10	33
Maximum specimen surface thermocouple temperature	T _{cm}	°C	767	774	775	773	767
Final specimen surface thermocouple temperature	T _{sf}	°C	757	765	768	761	751
Specimen surface thermocouple temperature rise	$\Delta Ts = Tcm - Tsf$	°C	10	9	7	12	16
Test duration	-	min	105	115	110	140	180

^{*} Any individual duration flaming less than 5 seconds was discarded

End of Test Certificate

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