

# Certificate of Test

QUOTE No.: NC8516

REPORT No.: FNC12773

## COMBUSTIBILITY TEST FOR MATERIALS IN ACCORDANCE WITH AS 1530.1-1994

**SPONSOR:** Trafalgar Group Pty Ltd  
26A Ferndell Street  
SOUTH GRANVILLE NSW 2142  
AUSTRALIA

**DESCRIPTION OF TEST SAMPLE:**

The sponsor described the tested specimen as a stone wool insulation material comprised of stone wool, binder and mineral oil. The stone wool insulation material is a component of the Siderise CWFS Cavity Barrier insulation product.

Nominal thickness: 120 mm (50 mm for the test)  
Nominal density: 75 kg/m<sup>3</sup>  
Colour: yellow

**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	$= \frac{\Sigma \text{results}}{5}$
Mean furnace thermocouple temperature rise (°C)	3.22
Mean specimen centre thermocouple temperature rise (°C)	3.08
Mean specimen surface thermocouple temperature rise (°C)	3.77
Mean duration of sustained flaming (s)	0
Mean mass loss (%)	2.14

**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: 28 June 2021

Issued on the 23<sup>rd</sup> day of July 2021 without alterations or additions.



Faustin Molina  
Testing Officer



Stephen Smith  
Team Leader, Reaction to Fire & Façade Fire Laboratory

**End of Report**

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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 C12773

Parameters	Symbol or expression	Unit symbol	Sample Number				
			1	2	3	4	5
Initial specimen mass	$m_{si}$	g	4.96	5.30	5.45	5.17	5.41
Final specimen mass	$m_{sf}$	g	4.84	5.19	5.42	5.02	5.26
Mass loss	$\Delta m = \frac{M_{si} - M_{sf}}{M_{si}} \times 100$	%	2.42	2.08	0.55	2.90	2.77
Total duration of sustained flaming	Cumulative total of duration of flaming*	s	0	0	0	0	0
Initial furnace thermocouple temperature	$T_{fi}$	°C	754	749	748	747	745
Maximum furnace thermocouple temperature	$T_{fm}$	°C	784	769	773	765	768
Final furnace thermocouple temperature	$T_{ff}$	°C	774	768	772	763	766
Furnace thermocouple temperature rise	$\Delta T_f = T_{fm} - T_{ff}$	°C	10	1	1	2	2
Maximum specimen centre thermocouple temperature	$T_{cm}$	°C	751	741	754	747	736
Final specimen centre thermocouple temperature	$T_{cf}$	°C	744	738.6	754	745	732
Specimen centre thermocouple temperature rise	$\Delta T_c = T_{cm} - T_{cf}$	°C	7	2	0	2	4
Maximum specimen surface thermocouple temperature	$T_{cm}$	°C	773	773	770	769	770
Final specimen surface thermocouple temperature	$T_{sf}$	°C	764	770	769	766	767
Specimen surface thermocouple temperature rise	$\Delta T_s = T_{cm} - T_{sf}$	°C	9	3	1	3	3
Test duration	-	min	30	30	30	30	30

- Any individual duration flaming less than 5 seconds was discarded

**End of Test Certificate**