Certificate of Test

QUOTE No.: NC8516

REPORT No.: FNC12773

COMBUSTIBILITY TEST FOR MATERIALS IN ACCORDANCE WITH AS 1530.1-1994

SPONSOR: DESCRIPTION OF TEST SAMPLE:	Trafalgar Group Pty Ltd 26A Ferndell Street SOUTH GRANVILLE NSW 2142 AUSTRALIA 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 Barri Nominal thickness: Nominal density: Colour:	ier insulation product. 120mm (50mm for the test) 75 kg/m³ 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		$=\frac{\Sigma results}{5}$			
	Mean furnace thermocouple temperature rise (°C)					
	Mean specimen centre thermocouple temperature rise (°C) Mean specimen surface thermocouple temperature rise (°C)		3.08			
			3.77			
	Mean duration of sustain	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 23rd 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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SUMMARY OF MEASUREMENTS AND OBSERVATIONS OF SAMPLES UNDER TEST C12773

Deversion	Symbol or expression	Unit	Sample Number				
Parameters		symbol	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	$\Delta m = \frac{M_{\rm Si} - M_{\rm Sf}}{M_{\rm Si}} \times 100$	%	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	$\Delta Tf = Tfm - Tff$	°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	$\Delta Tc = Tcm - Tcf$	°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	$\Delta Ts = Tcm - Tsf$	°C	9	3	1	3	3
Test duration	-	min	30	30	30	30	30

• Any individual duration flaming less than 5 seconds was discarded

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Certificate of Test

QUOTE No.: NE8517						REPORT N	lo.: FNE12791
AS/NZS 1530.3:1999 SIMULTANEOUS DETERMINATION OF IGNITABILITY, FLAME PROPAGATION, HEAT RELEASE AND SMOKE RELEASE							
TRADE NAME:	Siderise CWFS Cavity Barrie	er					
SPONSOR:	Trafalgar Group Pty Ltd 26A Ferndell Street SOUTH GRANVILLE NSW 2 AUSTRALIA	142					
DESCRIPTION OF							
SAMPLE:	The sponsor described the tested specimen as a stone wool material with aluminium foil on the front and back face. The stone wool was comprised of stone wool fibre, mineral oil and binder.						
	The foil face was adhered t	o the stone woo	ol using a	thermal bondi	ng process.		
	Nominal thickness of foil fa Nominal thickness of stone Nominal total thickness: Nominal density: Colour:		< 0.15 r 120 mn 120 mn 75 kg/n silver (f	n n	one wool)		
TEST PROCEDURE:	Six (6) samples were tested in accordance with AS/NZS 1530, Method for fire tests on building components and structures, Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release, 1999. For the test, each sample was clamped to the specimen holder in four places.						
RESULTS:	The following means and standard errors were obtained:						
	Parameter			Mean	Standard Ei	ror	
	Ignition Time (min)			N/A	N/A		
	Flame Spread Time (s)			N/A	N/A		
	Heat Release Integral (kJ/m²)			N/A	N/A		
	Smoke Release (log ₁₀ D)			-1.830	0.055		
	For regulatory purposes these figures correspond to the following indices:						
	Ignitability Index (0-20) 0	Spread of Flan Index (0-10) 0		Heat Evolved Index (0-10) 0		e Developed Index (0-10) 1	
The results of this fire test may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of fire hazard under all fire conditions.							

DATE OF TEST:

19 August 2021

Issued on the 1st day of September 2021 without alterations or additions.

Faustin Molina Testing Officer

Stephen Smith Team Leader, Reaction to Fire Laboratory

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