Certificate of Test

QUOTE No.: NC8571 REPORT No.: FNC12811

COMBUSTIBILITY TEST FOR MATERIALS IN ACCORDANCE WITH AS 1530.1-1994

TRADE NAME: Ardex WR 120 FR

SPONSOR: Ardex Australia Pty Ltd

20 Powers Road

SEVEN HILLS NSW 2147

AUSTRALIA

DESCRIPTION OF

TEST SAMPLE: The sponsor described the tested specimen as a cement render comprised of sand, cement,

hydrated lime, polymer, polymer fibres and cellulose thickener.

Nominal thickness: 50 mm

Nominal density: 2000 kg/m³

Colour: 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)	1.15
Mean specimen centre thermocouple temperature rise (°C)	0.47
Mean specimen surface thermocouple temperature rise (°C)	0.17
Mean duration of sustained flaming (s)	0
Mean mass loss (%)	7.32

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 September 2021

Issued on the 9th day of November 2021 without alterations or additions.

Faustin Molina Stephen Smith

Testing Officer 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 C12811

Darameters	Symbol or expression	Unit	Sample Number					
Parameters	Symbol of expression	symbol	1	2	3	4	5	
Initial specimen mass	m _{si}	g	104.76	105.83	97.88	105.44	103.23	
Final specimen mass	m _{sf}	g	97.56	97.69	90.68	97.73	95.65	
Mass loss	$\Delta m = \frac{M \text{si} - M \text{s} f}{M \text{s} i} \times 100$	%	6.87	7.69	7.36	7.31	7.34	
Total duration of sustained flaming	Cumulative total of duration of flaming*	S	0	0	0	0	0	
Initial furnace thermocouple temperature	T _{fi}	°C	747	751	748	753	750	
Maximum furnace thermocouple temperature	T _{fm}	°C	766	774	765	775	772	
Final furnace thermocouple temperature	T _{ff}	°C	765	772	764	774	771	
Furnace thermocouple temperature rise	$\Delta Tf = Tfm - Tff$	°C	1	2	1	1	1	
Maximum specimen centre thermocouple temperature	T _{cm}	°C	749	760	756	756	750	
Final specimen centre thermocouple temperature	T _{cf}	°C	749	759	756	755	749	
Specimen centre thermocouple temperature rise	$\Delta Tc = Tcm - Tcf$	°C	0	1	0	1	1	
Maximum specimen surface thermocouple temperature	T _{cm}	°C	770	782	784	791	789	
Final specimen surface thermocouple temperature	T _{sf}	°C	769	782	784	791	789	
Specimen surface thermocouple temperature rise	$\Delta Ts = Tcm - Tsf$	°C	1	0	0	0	0	
Test duration	-	min	65	90	80	80	95	

• Any individual duration flaming less than 5 seconds was discarded

End of Test Certificate

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