

Test Report

Report No.: AJFS2403002233FF

Date: MAR.20, 2024

Page 1 of 6

RADIANT AUSTRALIA PTY LTD

1/18 PROFIT PASS WANGARA WA 6065

Sample Description: THERMA SHEET

SGS Ref No.: AJHL2403000871FT

Style / Item No.: /

The above sample(s) was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

Test Requested:

AS/NZS 1530.3:1999 Methods for fire tests on building materials, components and structures Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release.

Test Results: -- See attached sheet --

Test Period:

Sample Receiving Date : MAR.11, 2024

Test Performing Date : MAR.11, 2024 TO MAR.19, 2024

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Anji Branch

Echo Li
Approved Signatory

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I. Test conducted

This test was performed in accordance with AS/NZS 1530.3:1999 Methods for fire tests on building materials, components and structures Part 3: Simultaneous determination of ignitability, flame propagation, heat release and smoke release.

II. Sample details

Description	THERMA SHEET (provided by client)
Color	Black
Thickness	12.0mm
Density	4.4 kg/m ²
Specimen size	600mm×450mm×12.0mm
Test surface	Any surface

	Temperature (°C)	Humidity (%)	Duration (d)
Conditioning	20±2°C	65±5%	7

Note: The specimens shall be conditioned to constant mass (see ISO 291).

Mounting or fixing method for test sample:

Using fibre-reinforced cement board as substrate, hold the sample and substrate against the specimen support frame by using the specimen clamping ring. No joint in the specimens.

III. Test results

The mean values and standard errors:

Items		Mean value	Standard error
Ignition Time, (min)		NI	NA
Flame propagation time, (s)		NA	NA
Heat release integral, (Kj/m ²)		NA	NA
Optical density, D (m ⁻¹)	Ignition specimen	---	---
	Non-ignition specimen	0.2823	0.0037
Smoke release, lg D	Ignition specimen	---	---
	Non-ignition specimen	-0.5493	0.0056

Note: NI—Not ignition; NA—Not applicable



Note:

- 1) Where all specimens do not ignite, means and standard errors for smoke release shall be reported separately for those specimens that ignite and those that do not ignite. The higher of the two values shall be reported as the smoke released for the material or component.
- 2) Where all specimens do not ignite, indices for smoke developed shall be reported separately for those specimens that ignite and those specimens that do not ignite. The higher of the two values shall be reported as the smoke developed index for the product.

Regulatory Indices:

Items	Regulatory Indices
Ignitability index (Range 0 to 20)	0
Spread of flame index (Range 0 to 10)	0
Heat evolved index (Range 0 to 10)	0
Smoke developed index (Range 0 to 10)	6

Supplementary Observations:

- (a) Number of specimens tested: 6
- (b) The number of specimens that ignite: NI
- (c) Where flashing was encountered, and ignition was based on a 10-second flash: NA
- (d) The number of specimens did emit a radiation intensity rise of 1.4Kw/m²: NA
- (e) Any observations of associated phenomena: NA
- (f) Others: NA



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Table 1 Indices for spread of flame

1.33 x mean flame propagation time, s		Index
≥270		0
≥240	<270	1
≥210	<240	2
≥180	<210	3
≥150	<180	4
≥120	<150	5
≥90	<120	6
≥60	<90	7
≥30	<60	8
≥10	<30	9
	<10	10

Table 2 Indices for heat evolved

Mean value of the integral from the radiation intensity curves Kj/m ²		Index
	<25	0
≥25	<50	1
≥50	<75	2
≥75	<100	3
≥100	<125	4
≥125	<150	5
≥150	<175	6
≥175	<200	7
≥200	<225	8
≥225	<250	9
≥250		10



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Table 3 Indices for smoke developed

Mean optical density, m ⁻¹				Index
Expressed in terms of K*		Expressed numerically		
	<K		<0.0082	0†
≥K	<2K	≥0.0082	<0.0164	1
≥2K	<2 ² K	≥0.0164	<0.0328	2
≥2 ² K	<2 ³ K	≥0.0328	<0.0656	3
≥2 ³ K	<2 ⁴ K	≥0.0656	<0.131	4
≥2 ⁴ K	<2 ⁵ K	≥0.131	<0.262	5
≥2 ⁵ K	<2 ⁶ K	≥0.262	<0.525	6
≥2 ⁶ K	<2 ⁷ K	≥0.525	<1.05	7
≥2 ⁷ K	<2 ⁸ K	≥1.05	<2.10	8
≥2 ⁸ K	<2 ⁹ K	≥2.10	<4.20	9
≥2 ⁹ K		≥4.20		10

* Where K is a constant = 0.0082

† Where doubt exists in the resolving of optical density below 0.016 m⁻¹ the index allotted should be '0 to 1'.

Statement:

- 1) The results only apply to the specimen mounted as described in this report.
- 2) The results of this fire test may be used to directly assess fire hazard, but it should be recognized that a single test method will not provide a full assessment of fire hazard under all fire conditions.



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Page 6 of 6

Photo Appendix:



SGS authenticate the photo on original report only

End of Report



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Anji Branch

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