Layer 101 Ltd

TEST REPORT

SCOPE OF WORK
rFelt Panel

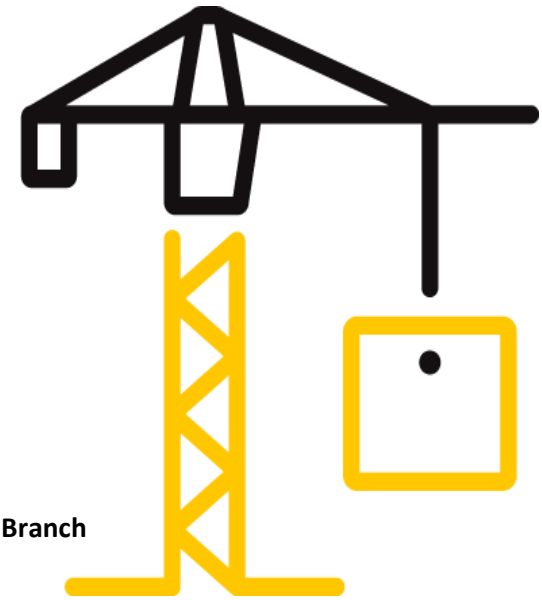
REPORT NUMBER
251202001SHF-001

TEST DATE(S)
2025-12-02 - 2025-12-16

ORIGINAL ISSUE DATE
2025-12-17

PAGES
7

DOCUMENT CONTROL NUMBER
LFT-APAC-SHF-OP-10k(January 13, 2025)



Intertek Testing Services Shenzhen Ltd. Shanghai Fengxian Branch

Test Report

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Test Report

Original Issue Date: 2025-12-17 Intertek Report No. 251202001SHF-001

Applicant: Layer 101 Ltd

Address: 71-75 Shelton Street, Covent Garden,London, WC2H 9JQ, United Kingdom.

Attn: John Sulzmann

Manufacturer: Layer 101 Ltd

Address: 71-75 Shelton Street, Covent Garden,London, WC2H 9JQ, United Kingdom.

Test Type: Performance test, samples provided by the applicant.

Product Information

Product Name	Model	Specification
rFelt Panel	12mm	2800*1220*12mm
Sample ID	**Sample Amount**	**Sample Received Date**
S251202001SHF.001~002	30 pcs	2025-11-24
Sample Description		**Brand**
12mm Panel		Layer 101

Test Methods And Standards

Test Standard	EN 13823:2020+A1:2022 and EN ISO 11925-2:2020
Specification Standard	EN 13501-1:2018
Test Conclusion	The samples were tested according to the above standards, and the results are shown in the following page.

Note:

1.This report does not involve sampling. The report only reflects conformity of the tested items of the samples provided by the testing applicant. Representativeness and authenticity of the submitted samples are responsibilities of the testing applicant.

Report Authorized

Sally Xie Lu Cheng

Name: Sally Xie Name: Lu Cheng

Title: Reviewer Title: Project Engineer

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Test Report

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Test Items, Method and Results:

EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests

1.1 SINGLE BURNING ITEM TEST

The test was conducted in accordance with EN 13823. This test evaluates the potential contribution of a product to the development of a fire, under a fire situation simulating a single burning item near to the product.

1.2 IGNITABILITY TEST

The test was conducted in accordance with EN ISO 11925-2. This test evaluates the ignitability of a product under exposure to a small flame.

1.3 CLASSIFICATION CRITERIA

The classification was determined in accordance with EN 13501-1:2018. The class B with its corresponding fire performance is given in the table below.

Table - Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products.

Class	Test Method(s)	Classification criteria	Additional classifications
B	EN 13823 and	$FIGRA_{0.2MJ} \leq 120$ W/s and LFS < edge of specimen and $THR_{600s} \leq 7.5$ MJ	Smoke production[a] and Flaming droplets/particles[b]
	EN ISO 11925-2 [c] Exposure = 30 s	$F_S \leq 150$ mm within 60 s	

Note:

a. s1 = SMOGRA $\leq 30 m^2/s^2$ and $TSP_{600s} \leq 50 m^2$; s2 = SMOGRA $\leq 180 m^2/s^2$ and $TSP_{600s} \leq 200 m^2$; s3 = not s1 or s2
b. d0 = No flaming droplets/particles in EN 13823 within 600s;
d1 = no flaming droplets/particles persisting longer than 10s in EN 13823 within 600s;
d2 = not d0 or d1.
Ignition of the paper in EN ISO 11925-2 results in a d2 classification.
c. Under conditions of surface flame attack and, if appropriate to the end use application of the product, edge flame attack.

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Test Items, Method and Results:

2 RESULTS AND OBSERATIONS

Method	Parameter	Result
EN 13823:2020 + A1:2022	$FIGRA_{0.2MJ}$, W/s	21.9
	THR_{600s} , MJ	0.515
	LFS < Edge of Specimen (Yes or No)	<Edge of Specimen
	SMOGRA, m^2/s^2	17.4
	TSP_{600s}, m^2	70.1
	Flaming Droplets/Particles occur within 600s (> 10s or ≤10s or No)	No flaming droplets/particles occur within 600s
EN ISO 11925-2:2020 Exposure = 30 s	FS ≤ 150 mm within 60 s	Yes
	Ignition of the paper	No

Note:

1. Per EN 13823, the specimens were free standing at a distance of 80mm from the backing board. The backing board was a 12mm thick calcium silicate board. The density of the calcium silicate board was 850kg/m^3.

3 CLASSIFICATION

The classification has been carried out in accordance with EN 13501-1.

Fire behaviour		Smoke production			Flaming droplets	
B	-	s	*2*	-	d	*0*

Reaction to fire classification: *B- s2, d0*

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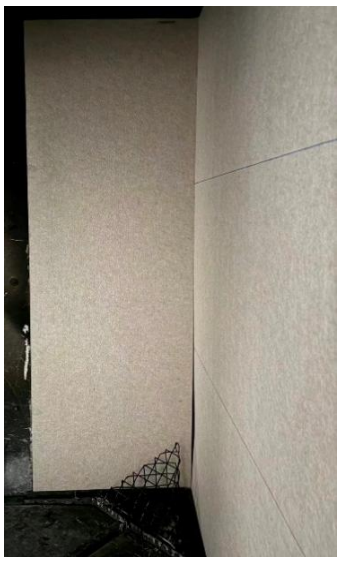
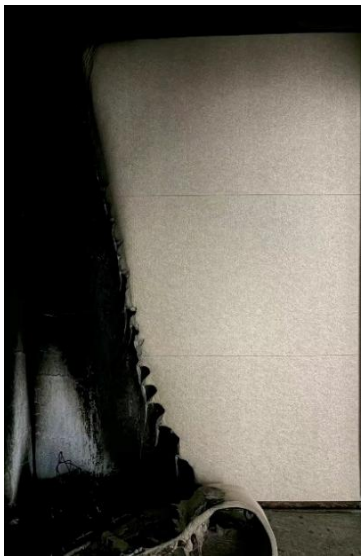
Test Items, Method and Results:

4 Test Photos of EN 13823

Before test (Long wing)



Before test (Short wing)



After test (Long wing)

After test (Short wing)

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Appendix A: Sample Received Photo

Revision:

NO.	Date	Changes
251202001SHF-001	2025-12-17	First issue