

Test Report

Report No.:THJS26040785021EN

Job No.:85021

Date: Apr. 14, 2026

The following information was/were submitted and identified by/on behalf of the client:

Applicant : Jiangsu Kedebon Building Energy-Saving Technology Co., Ltd
Address : No.8 Industry Park, Haian County, Nantong, Jiangsu
Sample Name : Waterproof breathable membrane & Vapourbarrier membrane
Sample Model : 80gsm-260gsm
Sample Receive Date : Apr. 09, 2026
Sample Testing Period : Apr. 09, 2026 to Apr. 13, 2026
Test Requested : EN ISO 11925-2:2020 Reaction to fire tests - Ignitability of products
subjected to direct impingement of flame - Part 2: Single-flame source
test.
Test Results : According to the results, the submitted sample **meets** the requirement
of EN 13501-1:2018 Fire classification of construction products and building
elements - Part 1: Classification using test data from reaction to fire tests,
Classes of reaction to fire performance for construction products excluding
floorings and linear pipe thermal insulation products, Class E.

For and on behalf of
Shanghai Global Testing Services Co., Ltd.
Authorized Signature 
Shi Lei/Kevin
General Manager -GTS/SHO

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I. Test Conducted

This test was conducted in accordance with EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using test data from reaction to fire tests. And the test methods as following:

EN ISO 11925-2:2020 Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test.

II. Sample Details

1. Property and end use application of product

The product "Roll-coated Aluminum coil" is defined as construction products excluding floorings and linear pipe thermal insulation products.

2. Description

The details of the product given above have been prepared from information provided by the sponsor of the test.

Description	Waterproof breathable membrane & Vapourbarrier membrane	Test surface	Any side
Sample size	250mm* 90mm*0.5mm		

III. Test Results

Test method	Parameter	Results
EN ISO 11925-2 ¹ Exposure = 15 s	$F_s \leq 150$ mm within 20 s	Yes
	Ignition of the filter paper within 20 s	No

IV. Classification and direct field of application

This classification has been carried out in accordance with EN 13501-1:2018, see Annex A.

1. Classification

The product, Waterproof breathable membrane & Vapourbarrier membrane, classification is as following,

Reaction to fire classification:E

This classification is valid for the following product parameters:

-- Characteristics of various layers identical to those as described in § II of this test report.



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V. Statement

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

VI. Warning

This classification report does not represent type approval or certification of the product.

The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.

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Annex A

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

Class	Test method(s)	Classification criteria	Additional classification
A1	EN ISO 1182 ^a and	$\Delta T \leq 30\text{ }^{\circ}\text{C}$, and $\Delta m \leq 50\%$, and $t_r = 0\text{ s}$ (i.e. no sustained flaming)	-
	EN ISO 1716	$\text{PCS} \leq 2.0\text{ MJ/kg}$ ^a and $\text{PCS} \leq 2.0\text{ MJ/kg}$ ^{bc} and $\text{PCS} \leq 1.4\text{ MJ/m}^2$ ^d and $\text{PCS} \leq 2.0\text{ MJ/kg}$ ^e	-
A2	EN ISO 1182 ^a or	$\Delta T \leq 50\text{ }^{\circ}\text{C}$, and $\Delta m \leq 50\%$, and $t_r \leq 20\text{ s}$	-
	EN ISO 1716 and	$\text{PCS} \leq 3.0\text{ MJ/kg}$ ^a and $\text{PCS} \leq 4.0\text{ MJ/m}^2$ ^b and $\text{PCS} \leq 4.0\text{ MJ/m}^2$ ^d and $\text{PCS} \leq 3.0\text{ MJ/kg}$ ^e	-
	EN 13823	$\text{FIGRA}_{0.2\text{ MJ}} \leq 120\text{ W/s}$ and LFS < edge of specimen and $\text{THR}_{600\text{ s}} \leq 7.5\text{ MJ}$	Smoke production ^f and Flaming droplets/particles ^g
B	EN 13823 and	$\text{FIGRA}_{0.2\text{ MJ}} \leq 120\text{ W/s}$ and LFS < edge of specimen and $\text{THR}_{600\text{ s}} \leq 7.5\text{ MJ}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30 s	$F_s \leq 150\text{ mm}$ within 60 s	
C	EN 13823 and	$\text{FIGRA}_{0.4\text{ MJ}} \leq 250\text{ W/s}$ and LFS < edge of specimen and $\text{THR}_{600\text{ s}} \leq 15\text{ MJ}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30 s	$F_s \leq 150\text{ mm}$ within 60 s	

Test Report

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Job No.: 85021

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D	EN 13823 And	FIGRA _{0.4 MJ} ≤ 750 W/s	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30 s	F _s ≤ 150 mm within 60 s	
E	EN ISO 11925-2 ⁱ Exposure = 15 s	F _s ≤ 150 mm within 20 s	Flaming droplets/particles ^h
F	EN ISO 11925-2 ⁱ Exposure = 15 s	F _s > 150 mm within 20 s	

a For homogeneous products and substantial components of non-homogeneous products.

b For any external non-substantial component of non-homogeneous products.

c Alternatively, any external non-substantial component having a $PCS \leq 2.0 \text{ MJ/m}^2$, provided that the product satisfies the following criteria of EN 13823: $FIGRA \leq 20 \text{ W/s}$, and $LFS < \text{edge of specimen}$, and $THR_{600s} \leq 4.0 \text{ MJ}$, and $s1$, and $d0$.

d For any internal non-substantial component of non-homogeneous products.

e For the product as a whole.

f $s1 = SMOGRA \leq 30 \text{ m}^2/\text{s}^2$ and $TSP_{600s} \leq 50 \text{ m}^2$;
 $s2 = SMOGRA \leq 180 \text{ m}^2/\text{s}^2$ and $TSP_{600s} \leq 200 \text{ m}^2$;
 $s3 = \text{not } s1 \text{ or } s2$

g $d0 = \text{No flaming droplets/particles in EN 13823 within 600 s}$;
 $d1 = \text{no flaming droplets/particles persisting longer than 10 s in EN 13823 within 600 s}$;
 $d2 = \text{not } d0 \text{ or } d1$.
Ignition of the paper in EN ISO 11925-2 results in a $d2$ classification.

h Pass = no ignition of the paper (no classification);
Fail = ignition of the paper ($d2$ classification).

i Under conditions of surface flame attack and, if appropriate to the end–use application of the product, edge flame attack.

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Photo Appendix



*****End of Report*****