

## TEST REPORT

No. : SZIN2504000999PL01\_EN

Date : 2025-05-19

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CUSTOMER NAME: AKUDECO  
ADDRESS: PO BOX 51, 5060 AB, OISTERWIJK

Sample Name : WPC OUTDOOR WALL PANEL

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

\*\*\*\*\*

SGS Ref. No. : SDFTS25002500R01\_EN  
Date of Receipt : 2025-04-24  
Testing Period : 2025-04-24 ~ 2025-05-19  
Test result(s) : For further details, please refer to the following page(s)  
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for  
SGS-CSTC Standards Technical  
Services Co., Ltd. ShenZhen Branch.

*Jessie*

Jessie Ho  
Authorized signatory



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

### I. Test conducted

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

1. EN 13823:2020+A1:2022 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.
2. 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. Details of classified product

|                    |                       |
|--------------------|-----------------------|
| Sample Description | Board                 |
| Color              | See photos            |
| Thickness          | 22mm                  |
| Area density       | 13.7kg/m <sup>2</sup> |

### Mounting and fixing:

Test substrate was calcium silicate board meets the requirement of EN13501-1, of Class A2-s1,d0, the density of 900 kg/m<sup>3</sup> and thickness of 10mm.

Specimen was installed on the substrate by screw. Specimen had a distance of at least 80mm from the backing board.

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### III. Test results

| Test methods                      | Parameter   | Number of tests | Results |
|-----------------------------------|---|-----------------|---------|
| EN 13823                          | FIGRA <sub>0.2MJ</sub> (W/s)  | 1               | N/A*    |
|                                   | FIGRA <sub>0.4MJ</sub> (W/s)  |                 |         |
|                                   | Whether lateral flame spread (LFS) to the edge of specimen (Yes/No) |                 |         |
|                                   | THR <sub>600s</sub> (MJ)  |                 |         |
|                                   | SMOGRA (m <sup>2</sup> /s <sup>2</sup> )                            |                 |         |
|                                   | TSP <sub>600s</sub> (m <sup>2</sup> )                               |                 |         |
|                                   | Flaming particles or droplets (Yes/No)                              |                 |         |
| EN ISO 11925-2<br>Exposure = 15 s | Fs≤150mm within 20 s (Yes/No)                                       | 6               | Yes     |
|                                   | Ignition of the filter paper (Yes/No)                               |                 | No      |

Note:

FIGRA<sub>0.2MJ</sub> - Fire growth rate index at THR threshold of 0,2 MJ [W/s]

FIGRA<sub>0.4MJ</sub> - Fire growth rate index at THR threshold of 0,4 MJ [W/s]

THR<sub>600s</sub> -Total heat release within 600 s [MJ]

SMOGRA - Smoke growth rate [m<sup>2</sup>/s<sup>2</sup>]

TSP<sub>600s</sub>- Total smoke production within 600 s [m<sup>2</sup>]

N/A – Not Applicable

\* - Testing ends prematurely:

Stop time: 780s

Reason for early termination: The average value of exhaust pipe temperature exceeding 300°C within 30 seconds.

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### IV. Classification and field of application

#### a) Reference of classification

This classification has been carried out in accordance with **EN 13501-1:2018**.

#### b) Classification

The product, WPC OUTDOOR WALL PANEL (as described by the sponsor), in relation to its reaction to fire behaviour is classified:

| Fire behaviour |   | Smoke production |   |   | Flaming droplets |   |
|----------------|---|------------------|---|---|------------------|---|
| E              | — | s                | / | , | d                | / |

**Reaction to fire classification: E**

**Remark:** The classes with their corresponding fire performance are given in annex A.

#### c) Field of application

This classification is valid for the following product parameters:

--- Characteristics as described in section II of this test reports.

This classification is valid for the following end use applications:

--- With all substrates classified as A1 or A2

--- With mechanically fixing

#### Limitations

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

#### Warning:

The test laboratory has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

#### Statement:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.



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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 <sup>a</sup> and                 |     | $\Delta T \leq 30^{\circ}\text{C}$ , and<br>$\Delta m \leq 50\%$ , and<br>$t_f = 0$ (i.e. no sustained flaming)   | -   |
|       | EN ISO 1716                                  |     | $PCS \leq 2.0\text{MJ/kg}$ <sup>a</sup> and<br>$PCS \leq 2.0\text{MJ/kg}$ <sup>b c</sup> and<br>$PCS \leq 1.4\text{MJ/m}^2$ <sup>d</sup> and<br>$PCS \leq 2.0\text{MJ/kg}$ <sup>e</sup> | -   |
| A2    | EN ISO 1182 <sup>a</sup><br>or               | and | $\Delta T \leq 50^{\circ}\text{C}$ , and<br>$\Delta m \leq 50\%$ , and<br>$t_f \leq 20\text{ s}$  | -   |
|       | EN ISO 1716                                  |     | $PCS \leq 3.0\text{MJ/kg}$ <sup>a</sup> and<br>$PCS \leq 4.0\text{MJ/m}^2$ <sup>b</sup> and<br>$PCS \leq 4.0\text{MJ/m}^2$ <sup>d</sup> and<br>$PCS \leq 3.0\text{MJ/kg}$ <sup>e</sup>  | -   |
|       | EN 13823                                     |     | $FIGRA_{0.2\text{MJ}} \leq 120\text{W/s}$ and<br>$LFS < \text{edge of specimen}$ and<br>$THR_{600\text{s}} \leq 7.5\text{MJ}$   | Smoke production <sup>f</sup> and<br>Flaming<br>droplets/particles <sup>g</sup> |
| B     | EN 13823 and                                 |     | $FIGRA_{0.2\text{MJ}} \leq 120\text{W/s}$ and<br>$LFS < \text{edge of specimen}$ and<br>$THR_{600\text{s}} \leq 7.5\text{MJ}$   | Smoke production <sup>f</sup> and<br>Flaming<br>droplets/particles <sup>g</sup> |
|       | EN ISO 11925-2 <sup>i</sup><br>Exposure =30s |     | $F_s \leq 150\text{mm}$ within 60s  |   |

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| Class | Test method(s)                                 | Classification criteria  | Additional classification   |
|-------|--|--|---|
| C     | EN 13823 and                                   | $FIGRA_{0.4MJ} \leq 250W/s$ and<br>$LFS < \text{edge of specimen}$ and<br>$THR_{600s} \leq 15MJ$ | Smoke production <sup>f</sup> and<br>Flaming<br>droplets/particles <sup>g</sup> |
|       | EN ISO 11925-2 <sup>i</sup><br>Exposure=30s    | $F_s \leq 150mm$ within 60 s   |   |
| D     | EN 13823 and                                   | $FIGRA_{0.4MJ} \leq 750W/s$  | Smoke production <sup>f</sup> and<br>Flaming<br>droplets/particles <sup>g</sup> |
|       | EN ISO 11925-2 <sup>i</sup><br>Exposure=30s    | $F_s \leq 150mm$ within 60 s   |   |
| E     | EN ISO 11925-2 <sup>i</sup><br>Exposure =15s   | $F_s \leq 150mm$ within 20 s   | flaming<br>droplets/particles <sup>h</sup>                                      |
| F     | EN ISO 11925-2 <sup>i</sup><br>Exposure = 15 s | $F_s > 150mm$ within 20 s  |   |

<sup>a</sup> For homogeneous products and substantial components of non-homogeneous products.

<sup>b</sup> For any external non-substantial component of non-homogeneous products.

<sup>c</sup> Alternatively, any external non-substantial component having a PCS  $\leq 2,0 MJ/m^2$  , provided that the product satisfies the following criteria of EN 13823:  $FIGRA \leq 20 W/s$ , and  $LFS < \text{edge of specimen}$ , and  $THR_{600s} \leq 4,0 MJ$ , and s1, and d0.

<sup>d</sup> For any internal non-substantial component of non-homogeneous products.

<sup>e</sup> For the product as a whole.

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

<sup>g</sup> d0 = No flaming droplets/ particles in EN 13823 within 600 s;

d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;

d2 = not d0 or d1.

Ignition of the paper in EN ISO 11925-2 results in a d2 classification.

<sup>h</sup> Pass = no ignition of the paper (no classification);

Fail = ignition of the paper (d2 classification).

## TEST REPORT

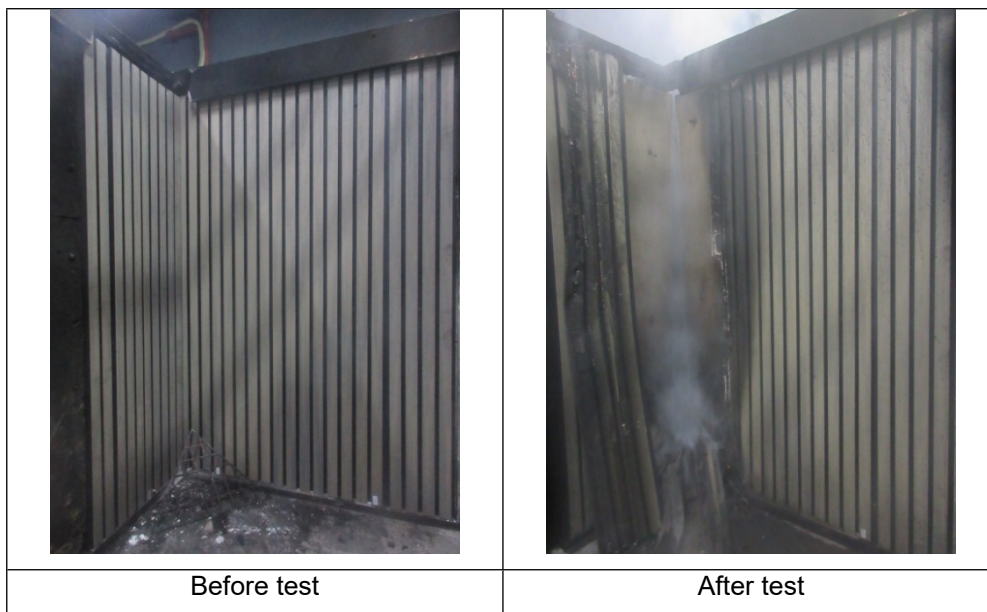
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i Under conditions of surface flame attack and, if appropriate to the end–use application of the product, edge flame attack.

Photo Appendix:



Appendix information:

- 1.The test method was carried out by SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch.
- 2.The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.

\*\*\*\*\*End of report\*\*\*\*\*