



## Test Report

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8. Intertek B&C will service this report for the entire test record retention period. The test record retention period ends 6 years after this report original issue date. The test record retention period for certification program is 10 years. Test records and other pertinent project documentation will be retained for the entire test record retention period.
9. The report was digital signed by Shang Hai, Intertek Group plc, please using Adobe Acrobat Reader to verify the authenticity.

# Test Report

Issue Date: 2023-04-07

Intertek Report No. 230316012SHF-001

Applicant:

Address:

Attn:

Manufacturer:

Address:

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

## Product Information

|                           |                    |                      |                       |
|---------------------------|--------------------|----------------------|-----------------------|
| <b>Product Name</b>       | fiber cement board | <b>Brand</b>         |                       |
| <b>Sample Description</b> | Good Condition     | <b>Sample Amount</b> | 2 boxes and 1pc       |
|                           |                    | <b>Received Date</b> | 2023/3/13, 2023/03/16 |
| <b>Sample ID</b>          | <b>Model</b>       | <b>Specification</b> |                       |
| S230316012SHF.001~002     | /                  | 1220*2440*9mm        |                       |

## Test Methods And Standards

|                               |  |
|-------------------------------|--|
| <b>Test Standard</b>          | EN ISO 1182:2020 and EN ISO 1716:2020  |
| <b>Specification Standard</b> | EN 13501-1:2018  |
| <b>Test Conclusion</b>        | 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



Name: Sally Xie

Title: Reviewer



Name: Stone Shi

Title: Project Engineer

# Test Report

Issue Date: 2023-04-07

Intertek Report No. 230316012SHF-001

**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 NON-COMBUSTIBILITY TEST**

The test was conducted in accordance with EN ISO 1182. This test evaluates the non-combustibility performance of products in a vertical tube at 750±5°C.

**1.2 HEAT OF COMBUSTION TEST**

The test was conducted in accordance with EN ISO 1716. This test evaluates the gross heat of combustion ( $Q_{PCS}$ ) of products at constant volume in a bomb calorimeter.

**1.3 CLASSIFICATION CRITERIA**

The classification was determined in accordance with EN 13501-1:2018. The class A1 with its corresponding fire performance are 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 |
|-------|---------------------------------|---|----------------------------|
| A1    | EN ISO 1182 <sup>a</sup><br>and | $\Delta T \leq 30^{\circ}\text{C}$ ; and<br>$\Delta m \leq 50\%$ ; and<br>$t_f = 0 \text{ s}$ (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</sup> and<br>$PCS \leq 1.4 \text{ MJ/m}^2$ <sup>c</sup> and<br>$PCS \leq 2.0 \text{ MJ/kg}$ <sup>d</sup> | --                         |

**Note:**

- a. For homogeneous products and substantial components of non-homogeneous products.
- b. For any external non-substantial component of non-homogeneous products.
- c. For any internal non-substantial component of non-homogeneous products.
- d. For the product as a whole.

# Test Report

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Intertek Report No. 230316012SHF-001

**Test Items, Method and Results:**

**2 RESULTS AND OBSERATIONS**

| Method           | Parameter       |                          | Result |
|------------------|-----------------|--------------------------|--------|
| EN ISO 1182:2020 | $\Delta T$ (°C) |                          | 5.1    |
|                  | $\Delta m$ (%)  |                          | 17.2   |
|                  | $t_f$ (s)       |                          | 0      |
| EN ISO 1716:2010 | PCS             | The whole product, MJ/kg | 0.7221 |

**3 CLASSIFICATION**

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

| Fire behaviour |   | Smoke production |                | Flaming Droplets |
|----------------|---|------------------|----------------|------------------|
| A1             | - | s                | Not applicable | - d              |
|                |   |                  |                | Not applicable   |

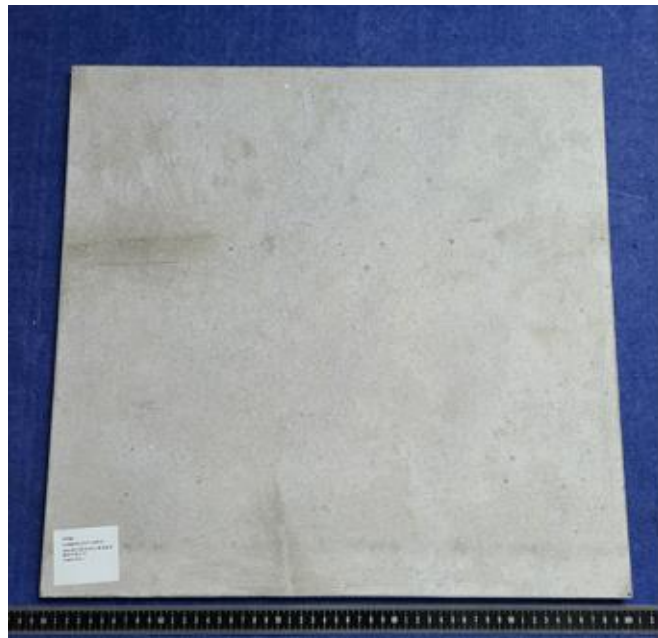
Reaction to fire classification: A1

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## Appendix A: Sample Received Photo



### Revision:

| NO.              | Date       | Changes     |
|------------------|------------|-------------|
| 230316012SHF-001 | 2023-04-07 | First issue |