

## TEST REPORT: 7191356261-CHM25-01-JH

Date: 08 JUL 2025

Client's Ref: -

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### **SUBJECT**

Fungus Resistance Test

### **CLIENT**

Siam Fibre Cement Group Co., Ltd.  
Siam Cement Rd., 1  
10800 Bangkok, Thailand - BANGSUE  
THAILAND

### **SAMPLE SUBMISSION DATE / TEST DATE**

14 Apr 2025 / 15 May 2025

### **DESCRIPTION OF SAMPLE**

One sample labelled as below was submitted by the above company.

|              |   |                                   |
|--------------|---|-----------------------------------|
| Product Type | : | Fibre Cement Flat Sheet           |
| Brand        | : | SCG Smartboard                    |
| Model        | : | Ultra                             |
| Manufacturer | : | Siam Fibre Cement Group Co., Ltd. |



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**METHOD OF TEST**

ASTM D3273-21

Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.

- 1) Test fungi used were :
  - *Aureobasidium pullulans* (ATCC 9348)
  - *Aspergillus niger* (ATCC 6275)
  - *Penicillium citrinum* (ATCC 9849)
- 2) Incubation conditions : Temperature of  $32.5 \pm 1^{\circ}\text{C}$  and relative humidity of  $95 \pm 3\%$  for 4 weeks.
- 3) Viability of the mold growth in the Relative Humidity chamber were checked by placing four potato dextrose agar (PDA) plates at various location close to the hanging panels.
- 4) The extent of mold growth on the incubated test specimens were rated each week for 4 weeks on a rating scale of 0 to 10 by estimating the percentage of surface defacement with 10 being no defacement and 0 being completely defaced.

| <b>Ratings:</b> |                          |
|-----------------|--------------------------|
| Rating of 10    | = 0 defacement           |
| Rating of 9     | = 1 to 10% defacement    |
| Rating of 8     | = 11 to 20 % defacement  |
| Rating of 7     | = 21 to 30 % defacement  |
| Rating of 6     | = 31 to 40 % defacement  |
| Rating of 5     | = 41 to 50 % defacement  |
| Rating of 4     | = 51 to 60 % defacement  |
| Rating of 3     | = 61 to 70 % defacement  |
| Rating of 2     | = 71 to 80 % defacement  |
| Rating of 1     | = 81 to 90 % defacement  |
| Rating of 0     | = 91 to 100 % defacement |

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**RESULTS**

| Inoculated test specimens                             | Rating of mold growth on test-specimens<br>at the end of exposure of each of the 4 weeks   |                          |                          |                          |
|-------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|
|                                                       | 1 week                                                                                     | 2 weeks                  | 3 weeks                  | 4 weeks                  |
| Fibre Cement Flat Sheet                               |                                                                                            |                          |                          |                          |
| # 1                                                   | 0 defacement (Rating 10)                                                                   | 0 defacement (Rating 10) | 0 defacement (Rating 10) | 0 defacement (Rating 10) |
| # 2                                                   | 0 defacement (Rating 10)                                                                   | 0 defacement (Rating 10) | 0 defacement (Rating 10) | 0 defacement (Rating 10) |
| # 3                                                   | 0 defacement (Rating 10)                                                                   | 0 defacement (Rating 10) | 0 defacement (Rating 10) | 0 defacement (Rating 10) |
| <u>Positive Growth Control (Tongue<br/>Depressor)</u> |                                                                                            |                          |                          |                          |
| # 1                                                   | 51 to 60 % defacement (Rating 4)                                                           |                          |                          |                          |
| <u>Viability Check</u>                                |                                                                                            |                          |                          |                          |
| # 1                                                   | <div> <div></div> <div></div> <div></div> <div></div> </div> Mold growth on the PDA Plates |                          |                          |                          |
| # 2                                                   |                                                                                            |                          |                          |                          |
| # 3                                                   |                                                                                            |                          |                          |                          |
| # 4                                                   |                                                                                            |                          |                          |                          |



Remarks :

The above test results relate to the sample as received.

A handwritten signature in black ink, appearing to read "Joey".

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**MS JOEY SEE ZHI QING**  
MICROBIOLOGIST I

A handwritten signature in black ink, appearing to read "James".

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**MR JAMES HUANG XUQING**  
ASSISTANT MANAGER  
MICROBIOLOGY  
CHEMICAL & MATERIALS



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Effective 27 March 2024

