

TEST REPORT: S09CHM02644-LYP

Date: 23 JUL 2009

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SUBJECT

Fungal Resistance Test of Fibre-Cement Sample

CLIENT

Mahaphant Fibre-Cement Public Co., Ltd.
59 Moo 12 Saraburi-Lomsak Road K.M. 16,
Chongsarika, Pattananikom, Lopburi 15220
Thailand

Attn : Mr. Thanaporn Poonsukcharoen

SAMPLE SUBMISSION DATE/ TEST DATE

04 Jun 2009 / 04 Jun 2009

DESCRIPTION OF SAMPLE

20 pieces of "SHERA FLEXY" Fibre-Cement panels (each of dimensions 75 mm x 100 mm).

Brand Name : SHERA
Model Number : 15905144
Type of Product : Board
Type of Material : Fiber cement



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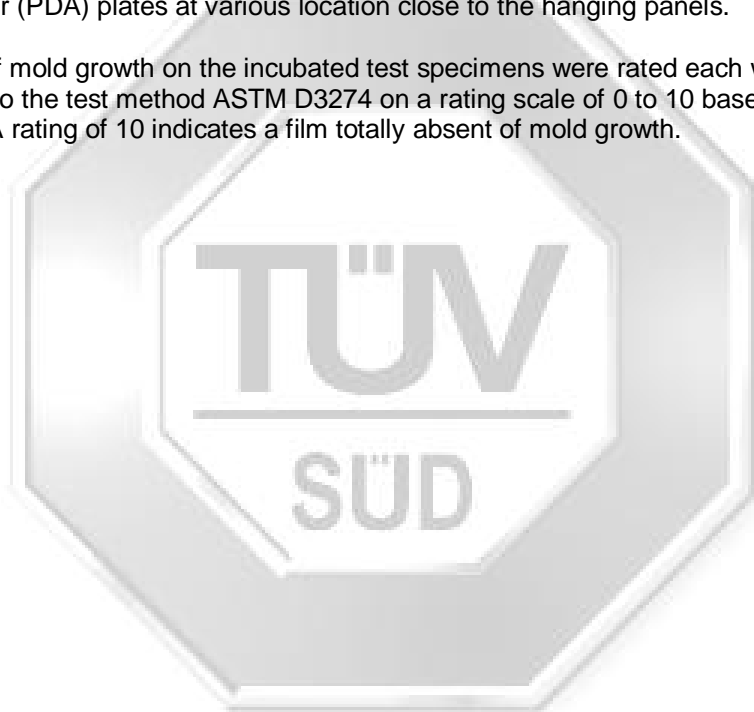
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METHOD OF TEST

ASTM D3273-00 (Reapproved 2005)

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 to 98% 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 in accordance to the test method ASTM D3274 on a rating scale of 0 to 10 based on the photographic standards. A rating of 10 indicates a film totally absent of mold growth.



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RESULTS

Inoculated test specimens	Rating of mold growth on test-specimens at the end of 4 weeks exposure
<u>Blank Panels</u>	
# 1	Mold growth (Rating 5)
# 2	Mold growth (Rating 5)
# 3	Mold growth (Rating 5)
<u>"SHERA FLEXY" Fibre-Cement Samples</u>	
# 1	No mold growth (Rating 10)
# 2	No mold growth (Rating 10)
# 3	No mold growth (Rating 10)
<u>Viability Check</u>	
# 1	Mold growth on the PDA Plates
# 2	
# 3	
# 4	

Remarks :

The results of analysis showed that the "SHERA FLEXY" Fibre-Cement samples (Brand: SHERA) were resistant to the test-fungi used.

The above test results relate to the samples as received.

MS AW HWEE YING
TECHNICAL EXECUTIVE

MRS KAM-LEONG YIN PHENG
PRODUCT MANAGER
MICROBIOLOGY
CHEMICAL & MATERIALS

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March 2009