TEST REPORT: 7191187963-CHM18-01-RC

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SUBJECT

Fungus Resistance Test

CLIENT

The Siam Fibre Cement Co., Ltd.
1 Siam Cement Rd., Bangsue,
Bangkok 10800,
Thailand

Attn : Ms. Nopparat Rungruangviriya

SAMPLE SUBMISSION DATE / TEST DATE

25 Apr 2018 / 27 Apr 2018

DESCRIPTION OF SAMPLE

One sample of Fibre cement board was received.

Brand Name/ Model : SCG Smartboard
Type of Product : Fibre Cement Board
Type of Material : Fibre/ Cement/ Sand

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METHOD OF TEST

ASTM D3273-16

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 ± 1°C and relative humidity of 95±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.

Ratings:	
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 at the end of exposure of each of the 4 weeks			
	1 week	2 weeks	3 weeks	4 weeks
"SCG Smartboard"				
# 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)
Positive Growth Control (Rubber Panels)				
# 1	61 to 70 % defacement (Rating 3)			
Viability Check				
# 1	Mold growth on the PDA Plates			
# 2				
# 3				
# 4				

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Remarks :

The above test results relate to the sample as received. .

MS AW HWEE YING
HIGHER TECHNICAL EXECUTIVE

MR RANDY CHIN KOK FEI
PRODUCT MANAGER
MICROBIOLOGY
CHEMICAL & MATERIALS

Appendix

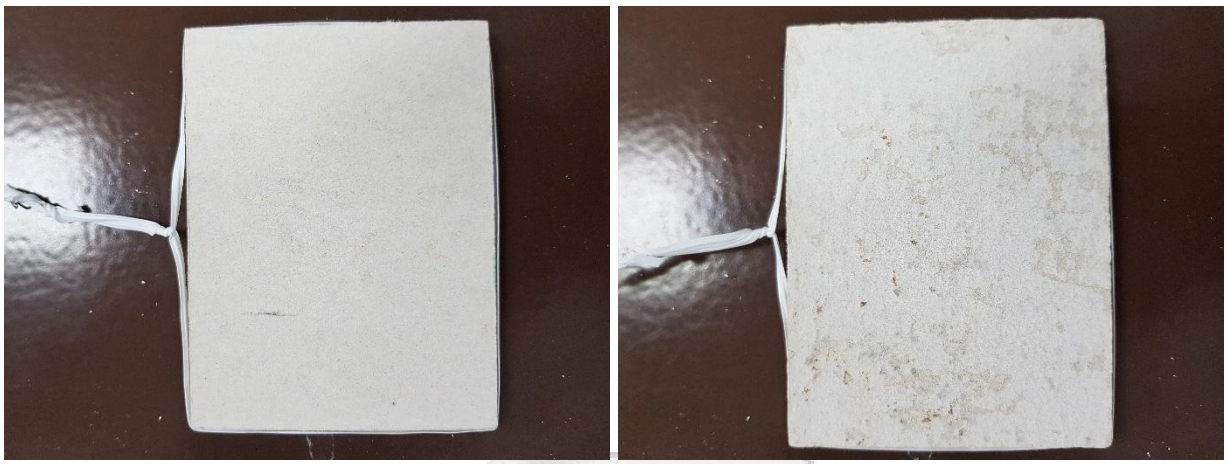

Figure 1: Photos (both sides) of test specimen - replicate 1 at the end of testing (Rating =10).

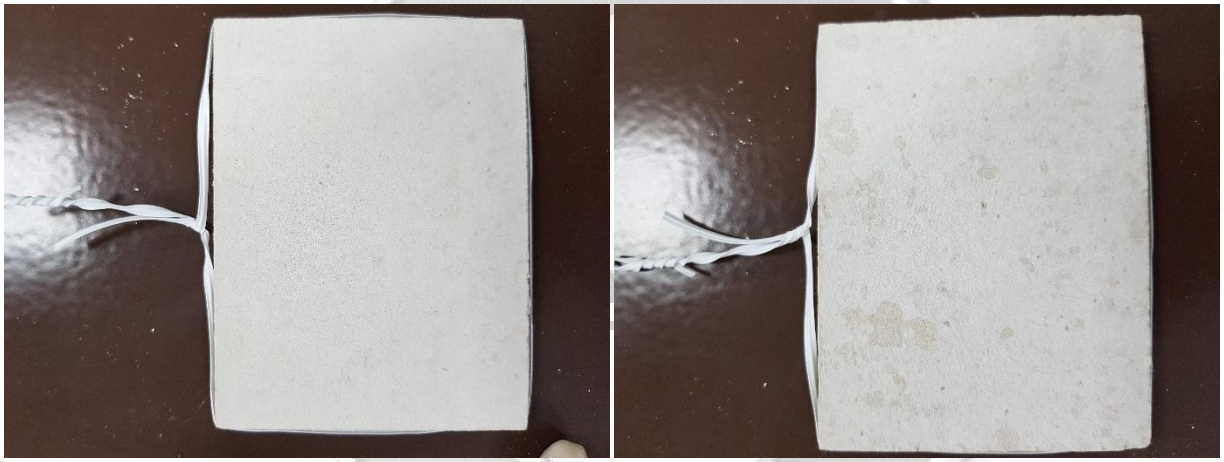

Figure 2: Photos (both sides) of test specimen - replicate 2 at the end of testing (Rating =10).

Figure 3: Photos (both sides) of test specimen - replicate 3 at the end of testing (Rating =10).

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July 2011