

**Test Report No. 7191061185-MEC13/03-KSY**  
dated 17 JUN 2013



PSB Singapore

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**SUBJECT:**

Testing of Fibre Cement Board

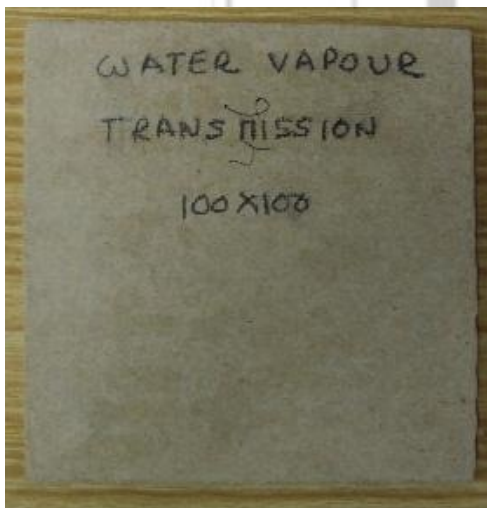
**TESTED FOR:**

Visaka Industries Ltd  
Visaka Towers  
1-8-303/69/3, S.P. Road  
Secunderabad  
A.P 500003  
India

**ATTN:** Mr Rawtani Jawahar

**SAMPLES DESCRIPTION:**

Twelve pieces of fibre cement board test specimens (typical as shown in Figure 1), each with approximate dimensions of 100 mm x 100 mm x 5 mm were submitted by Visaka Industries Ltd on 8 May 2013 for testing.



**Figure 1a:** Smooth Surface



**Figure 1b:** Rough Surface

Wah Yoh



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**TEST METHOD (AS AGREED AND SPECIFIED BY THE CLIENT):**

Water Vapour Resistance Factor

ISO 12572 : 2001

Hygrothermal performance of building materials and products - Determination of water vapour transmission properties

Method used : Desiccant  
Nominal thickness : 5 mm  
Test condition : 23 ± 0.5 °C, 50 ± 3 %RH  
No. of determinations : 5

**TEST RESULTS:**

Characteristic	Unit	Results
Water Vapour Transmission, average	g/m <sup>2</sup> ·day	40.6
	g/m <sup>2</sup> ·hr	1.69
Permeance, average	g/Pa m <sup>2</sup> ·s	3.35 x 10 <sup>-7</sup>
Permeability, average	kg/Pa·m·s	1.68 x 10 <sup>-12</sup>
Water Vapour Resistance Factor (μ), average	-	117

**NOTE:** As specified by the client, smooth surface of the fibre cement board was exposed to desiccant.

Ting Yeow Wah  
Higher Associate Engineer

Kong Siew Yong  
Senior Associate Engineer  
Polymer Products  
Mechanical Centre

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July 2011

