

TEST REPORT

(This Report is issued subject to the terms & conditions set out below)

Setesco Services Pte Ltd
18 Teban Gardens Crescent
Singapore 608925
Tel : (65) 6566 7777
Fax: (65) 6566 7718
www.setesco.com
Business Reg. No. 196900269D

Your Ref: 40984-CQ (SETSCO's quotation)

Date: 29/01/2016

Our Ref: CT-33903/THC

Page 1 of 2

Subject : Testing of Kalsi® Fibre Cement board Ø96mm x 5mm thick, submitted by ST Building Solutions Pte Ltd on 5/11/2015.

Tested For : Eternit.
c/o Promat Building Systems Pte Ltd (An Etex Company)
10 Science Park Road
#03-14, The Alpha Singapore Science Park 2
Singapore 117684
Attn: Mr. Thomas Wong

Method of Test : Determination of Water Vapour Transmission (ASTM E96 / E96M : 2013)

Description of Sample : Ten (10) pieces of Kalsi® Fibre Cement board, Ø96mm x 5mm thick were received on 5/11/2015. (See photo 1 in Annex A)

Test Results : Table 1.



Terms & Conditions:

- (1) The Report is prepared for the sole use of the Client and is prepared based upon the Item submitted, the services required by the Client and the conditions under which the Services are performed by SETSCO. The Report is not intended to be representative of similar or equivalent Services on similar or equivalent items. The Report does not constitute an endorsement by SETSCO of the Item.
- (2) SETSCO agrees to use reasonable diligence in the performance of the Services but no warranties are given and none may be implied directly or indirectly relating to the Services, the Report or the facilities of SETSCO.
- (3) The Report may not be used in any publicity material without the written consent of SETSCO.
- (4) The Report may not be reproduced in part or in full unless approval in writing has been given by SETSCO.
- (5) SETSCO shall under no circumstances be liable to the Client or its agents, servants or representatives, in contract, tort (including negligence or breach of statutory duty) or otherwise for any direct or indirect loss or damage suffered by the Client, its agents, servants or representative howsoever arising or wether connected with the Services provided by SETSCO herein.

Results:Table 1 of 1 : Water Vapour Transmission

Specimen Reference	Kalsi® Fibre Cement board				
	S1	S2	S3	S4	S5
Thickness (mm)	6.12	6.36	6.35	6.25	6.40
Slope of graph, G/t	0.0047	0.0048	0.0069	0.0047	0.0068
WVT ₁ (hour) (g/h.m ²)	1.22	1.25	1.79	1.22	1.77
Average WVT	1.45				
WVT ₂ (day) (g/24h.m ²)	29.31	29.94	43.04	29.31	42.41
Average WVT	34.80				
Permeance (g/Pa.s.m ²)	2.68E-07	2.74E-07	3.94E-07	2.68E-07	3.88E-07
Average Permeance	3.19E-07				
Perm (inch-pound)	4.70	4.80	6.90	4.70	6.80
Average Perm	5.58				
Permeability (ng/Pa.s.m)	1.64	1.74	2.50	1.68	2.49
Average Permeability	2.01				


$$WVT_1 = (G/t) / A$$

$$\text{Perm} = \text{Permeance} \times 1.75 \times 10^7$$

$$\text{Permeance} = WVT_1 / [S \times 133.3 \times (R_2 - R_1) \times 3600]$$

$$\text{Permeability} = \text{Permeance} \times \text{Thickness} \times 10^9$$


 Isnarti Saparee
 Testing Officer


 Tan Hong Choon
 Building System (CMTD)
 Construction Technology Division

Our Ref: CT-33903/THC

Page 1 of 1

Annex A



Photo 1: Ten (10) pieces of Kalsi® Fibre Cement board, Ø96mm x 5mm thick, were received on 5/11/2015.

A handwritten signature in blue ink, appearing to be 'Jin'.A handwritten signature in blue ink, appearing to be 'F. M. A.'.