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پیوست: .....



شرکت ایستا سازه آترا

شماره ثبت: ۵۱۴۱۷

(سهامی خاص)

نتایج جهانی آزمایشگاهی مقاومت حرارتی دیوارهای اکوتک

نتایج آزمایشگاهی کشور سنگاپور با دیوارهای اکوتک

(ضخامت ۱۰۰ میلیمتر)

دفتر: جاده زینبیه حبیب اباد - بعد از علی اباد - فرعی کنار کانال - کارخانه تولید بتن تلفکس: ۰۳۱ - ۳۲ ۷۴ ۷۹ ۶۲ - تلفن همراه: ۰۹۱۳ ۱۱۸ ۶۶۲۶

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**TEST REPORT**

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Your Ref: confirmation of 29043-CQ dated 12/10/2012

2/11/2012

Our Ref: CT- 21752/ THC

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**Subject** : Determination of Thermal Conductivity (K-value) on 100mm thick "Ultra-lightweight" precast panel, submitted by Lian Wang Trading Pte Ltd on 12/10/2012.

**Tested For** : Lian Wang Trading Pte Ltd  
 No.10 Senoko Loop  
 Singapore 758148  
 Attn : Ms Jeslyn Chan

**Description of Sample** : Two (02) numbers of size: 280 x 280 x 100mm thick hollow core "Ultra-lightweight" precast panel were received on 12/10/2012 (see Photo. 1).

**Results:****Thermal Properties (K-Value and R-Value)**

Sample Reference	S1	S2
Size of test specimen (mm)	279.7 x 279.6 x 99.30	279.6 x 279.4 x 99.21
Weight of test specimen (g)	2775.0	2821.5
Density (oven-dry, gross) at test (Kg/m <sup>3</sup> )	357.3	364.1
Method of Test	ASTM C 518 : 10	
Date of Test	24/10/2012	18/10/2012
Mean Temperature at test (°C)	27.8	27.8
Temperatures: cold / hot plates (°C)	32 / 24	32 / 24
Thermal Conductivity (W/m <sup>2</sup> K)	0.1702	0.1776
Average Thermal Conductivity (W/m <sup>2</sup> K)	0.1739	
Thermal Resistance (m <sup>2</sup> °K/ W)	0.5836	0.5588
Average Thermal Resistance (m <sup>2</sup> °K/ W)	0.5712	

Tan Hong Choon  
 CMTD (Building Systems)  
 Construction Technology Division

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