



Dubai Central Laboratory

Engineering Materials Laboratory Section – Structural Unit

TEST REPORT

THERMAL TRANSMISSION PROPERTIES BY HEAT FLOW METER

REPORT NO. : 2013044067 **DATE** : 22/05/2013

WEB REQUEST NO. : DCL-15052013-0098

PROJECT NO. : PS13-0049

PROJECT NAME: TESTING SERVICE FOR ESPAC BUILDING MATERIALS CO.

CONSULTANT: NO SPECIFIC CONSULTANTCONTRACTOR: NO SPECIFIC CONTRACTOR

LOCATION: ESPAC BUILDING MATERIALS CO.- K.S.ASOURCE: ESPAC BUILDING MATERIAL CO.- KSASAMPLE DESCRIPTION: AUTO CLAVED AERATED CONC BLOCK

SAMPLE TYPE : NG SUPPORT / FACING : NIL NOM. THICKNESS (mm) : 200 NOM. DENSITY (kg/m³) : NG

Date of Sampling 11/04/2013 Time 10:00 Lot No. NG Date of Receiving Sample 15/05/2013 Time 9:00 Lot Size NG Size of Sample Sender No. NG 1 No. Area No.: : :

DATE SPECIMEN RECEIVED	15/05/2013	
DATE OF MEASUREMENT	19/05/2013	
DRYING TEMPERATURE (°C) & TIME (h)	105°C, 36 h	
SPECIMEN NOMINAL THICKNESS (mm)	50	
SPECIMEN NOMINAL DENSITY (kg/m³)	NG	
SPECIMEN NO.	A	

THICKNESS	MEASURED DENSITY	MEAN	THERMAL CONDUCTIVITY W/(m·K)		THERMAL RESISTANCE	
(MEASURED)	(DRY CONDITION)	TEMPERATURE			(m²-K) / W	
mm	kg/m³	°C	DRY CONDITION	@ 35°C, 60% RH*	DRY CONDITION	@ 35°C, 60% RH
50.6	469.5	35.54	0.1209	0.1295	0.4187	0.3910

ABSORBED MOISTURE BY WEIGHT (%) @ 35°C & 60% RH	1.92

Uncertainty of measurement for thermal conductivity at dry condition 0.0011 W/m·K @ 95% confidence level, k factor 2. Abridged ASTM C 518 Test Report.

SAMPLED BY : ALLAM HANBALI (Mfr.) TESTED BY : MAITHA AL JUMAIRI

SAMPLES BROUGHT IN BY : ALLAM HANBALI (Mfr.) TEST START DATE : 16/05/2013

SAMPLING METHOD: NOT GIVEN

SAMPLING REPORT NO. : NG

TEST METHOD : ASTM C-518 : 2010

TEST METHOD VARIATION : NIL

REMARKS: TEST CARRIED OUT AT DRY CONDITION.

THIS REPORT REPRESENTS THE SUBMITTED SAMPLE ONLY.

VERIFIED BY HEAD OF UNIT

This report is computer approved, it does not require any signature

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^{*} CALCULATED VALUE AS PER BS EN ISO 10456:2000