

Dubai Central Laboratory
Engineering Materials Laboratory Section – Structural Unit
TEST REPORT
THERMAL TRANSMISSION PROPERTIES BY HEAT FLOW METER

REPORT NO.	: 2015011703	DATE	: 02/02/2015
WEB REQUEST NO.	: DCL-18012015-0204	SAMPLE NO.	: 2015006933
REQUEST NO.	: 2015004899		
PROJECT NO.	: PS14-0044		
PROJECT NAME	: TESTING SERVICE FOR ECOCON INDUSTRIES LLC		
CONSULTANT	: NO SPECIFIC CONSULTANT		
CONTRACTOR	: NO SPECIFIC CONTRACTOR		
LOCATION	: RAK, Al Ghail		
SOURCE	: ECOCON INDUSTRIES LLC - RAK		
SAMPLE DESCRIPTION	: AERATED CONCRETE BLOCK		
SAMPLE TYPE	: LIGHT WEIGHT CELLULAR CONCRETE		
SUPPORT / FACING	: NIL		
NOM. THICKNESS (mm)	: 50		
NOM. DENSITY (kg/m³)	: 200		
Date of Sampling	: 18/01/2015	Time	: 08:00
Date of Receiving Sample	: 19/01/2015	Time	: 07:30
Size of Sample	: 2 pcs	Area No.	: -
		Lot No.	: na
		Lot Size	: na
		Sender No.	: 0556431534

DATE SPECIMEN RECEIVED	19/01/2015
DATE OF MEASUREMENT	25/01/2015
DRYING TEMPERATURE (°C) & TIME (h)	105°C, 120 h
SPECIMEN NOMINAL THICKNESS (mm)	50
SPECIMEN NOMINAL DENSITY (kg/m³)	200
SPECIMEN NO.	2

THICKNESS (MEASURED)	MEASURED DENSITY (DRY CONDITION)	MEAN TEMPERATURE	THERMAL CONDUCTIVITY		THERMAL RESISTANCE	
			W/(m·K)		(m ² ·K) / W	
mm	kg/m ³	°C	DRY CONDITION	@ 35°C, 60% RH*	DRY CONDITION	@ 35°C, 60% RH
50.3	226.6	34.57	0.0623	0.0795	0.8072	0.6319

ABSORBED MOISTURE BY WEIGHT (%) @ 35°C & 60% RH	6.26
<i>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.</i>	

* CALCULATED VALUE AS PER BS EN ISO 10456:2000

SAMPLED BY	: Yury [MFR]	TESTED BY	: SANKAR RAJU
SAMPLES BROUGHT IN BY	: Yury [MFR]	TEST START DATE	: 20/01/2015
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.		

AUTHORIZED BY
HEAD OF UNIT

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