GOVERNMENT OF DUBAI

DUBAI MUNICIPALITY

Dubai Central Laboratory

Engineering Materials Laboratory Section – Structural Unit

TEST REPORT

THERMAL TRANSMISSION PROPERTIES BY HEAT FLOW METER

REPORT NO.	: 2015012542	**DATE**	: 04/02/15
WEB REQUEST NO.	: DCL-20012015-0073		
REQUEST NO.	: 2015008310	**SAMPLE NO.**	: 2015011440
PROJECT NO.	: PS15-0008		
PROJECT NAME	: ESPAC FOR BUILDING MATERIALS		
CONSULTANT	: NO SPECIFIC CONSULTANT		
CONTRACTOR	: NO SPECIFIC CONTRACTOR		
LOCATION	: FACTORY YARD ESPAC @ DAMMAM 2nd IND. CITY - KSA		
SOURCE	: ESPAC BUILDING MATERIAL CO.- KSA		
SAMPLE DESCRIPTION	: AUTO CLAVED AERATED CONC BLOCK		
SAMPLE TYPE	: NG		
SUPPORT / FACING	: NIL		
NOM. THICKNESS (mm)	: 50		
NOM. DENSITY (kg/m³)	: 550		

Date of Sampling	:	15/01/15	Time	:	10:00	Lot No.	: NG
Date of Receiving Sample	:	20/01/15	Time	:	10:00	Lot Size	: NG
Size of Sample	:	2 pcs.	Area No.	:	-	Sender No.	: NG

DATE SPECIMEN RECEIVED	20/01/15
DATE OF MEASUREMENT	26/01/15
DRYING TEMPERATURE (°C) & TIME (h)	105°C, 120 h
SPECIMEN NOMINAL THICKNESS (mm)	50
SPECIMEN NOMINAL DENSITY (kg/m³)	550
SPECIMEN NO.	1

THICKNESS (MEASURED)	MEASURED DENSITY (DRY CONDITION)	MEAN TEMPERATURE	THERMAL CONDUCTIVITY W/(m·K)		THERMAL RESISTANCE (m²·K) / W	
mm	kg/m³	°C	DRY CONDITION	@ 35°C, 60% RH*	DRY CONDITION	@ 35°C, 60% RH
49.8	581.9	34.46	0.1521	0.1659	0.3271	0.2999

ABSORBED MOISTURE BY WEIGHT (%) @ 35°C & 60% RH	2.21

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.

* *CALCULATED VALUE AS PER BS EN ISO 10456:2000*

SAMPLED BY	: G.H HASSAH (Mfr.)	TESTED BY	: SANKAR RAJU
SAMPLES BROUGHT IN BY	: G.H HASSAH (Mfr.)	TEST START DATE	: 21/01/15
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

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