

Dubai Central Laboratory

Construction Materials Laboratory Section - Structural Unit

TEST REPORT

THERMAL TRANSMISSION PROPERTIES BY HEAT FLOW METER (AAC BLOCK)

Report No:	100063947	Request No:	EMTX-2017-023728
Project No:	PS15-0008	Report Date:	03/05/2017
Project Name:	ESPAC FOR BUILDING MATERIALS		
Consultant:	NA		
Contractor:	ESPAC COMPANY		
Location:	DAMMAM FACTORY		
Source:	ESPAC BUILDING MATERIAL CO.- KSA		
Sample Description:	AUTO CLAVED AERATED CONC BLOCK		
Sampling Date/Time:	16/04/2017 11:00 AM	Lot Number:	NG
Receiving Date/Time:	16/04/2017 11:15 AM	Lot Size:	- NA
Sample Size:	2 pieces	Sender No:	NG
Material/Mix type:		Laying Date/Production Date:	20/03/2017
Nominal Size / Working Block Size L * T * H (mm) :		300X300X50	

TEST RESULTS

PARAMETERS	RESULTS
SAMPLE TYPE	NG
NOM. THICKNESS (mm) :	50
NOM. DENSITY (kg/m3) :	NG
SPECIMEN NO.	1
MEASURED THICKNESS (mm)	50.375
MEASURED DENSITY (kg/Cubic m)	578.53
DRYING TEMPERATURE (deg C) & TIME (h)	105 DEG C & 72 h
ABSORBED MOISTURE BY WEIGHT (%) @ 35deg C & 60% RH	2.58
MEAN TEMPERATURE ACHIEVED (deg C)	34.98
THERMAL CONDUCTIVITY (l) , W/(m K) (DRY CONDITION)	0.1559
THERMAL RESISTANCE, (Square m K) / W (DRY CONDITION)	0.3232
* THERMAL CONDUCTIVITY, W/(m K) (35deg C, 60% RH*)	0.1723
THERMAL RESISTANCE, (Square m K) / W (35deg C, 60% RH*)	0.2924
UNCERTAINTY OF MEASUREMENT	REFER REMARKS
*REMARKS	* CALCULATED VALUE AS PER BS EN ISO 10456:2000

Sampled By:	GHASSAN HASSAN (MFR)	Tested By:	NIMIAH
Samples Brought By:	GHASSAN HASSAN (MFR)	Testing Date:	17/04/2017 09:11 AM
Sampling Method:	NOT GIVEN	Sampling Report No:	
Test Method:	ASTM C-518 : 2010	Test Method Variation:	NIL
Remarks:	. ,Uncertainty of measurement for thermal conductivity at dry condition 0.0011 W/m ² ·K @ 95% confidence level, k factor		

**This Report is computer approved and authorized by Structural Unit
It does not require any signature**



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2.Abridged ASTM C 518 Test Report. ,TEST CARRIED OUT AT DRY CONDITION. THIS REPORT REPRESENTS THE SUBMITTED SAMPLES ONLY.			

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