

Dubai Central Laboratory

Construction Materials Laboratory Section - Structural Unit

TEST REPORT

THERMAL TRANSMISSION PROPERTIES BY HEAT FLOW METER (THERMAL COND)

Report No:	100066419	Request No:	EMTX-2017-024228
Project No:	CF-321	Report Date:	10/05/2017
Project Name:	SAUDI INTERNATIONAL INSULATION MANUFACTURING COMPANY		
Consultant:	DUBAI MUNICIPALITY		
Contractor:	SAUDI INTERNATIONAL INSULATION MANUFACTURING COMPA		
Location:	Factory Warehouse-KSA		
Source:	NOT GIVEN		
Sample Description:	ROCK FIBRE (MINERAL FIBRE) BLOCK/BOARD		
Sampling Date/Time:	27/03/2017 10:00 AM	Lot Number:	N/A
Receiving Date/Time:	20/04/2017 10:07 AM	Lot Size:	- NA
Sample Size:	15 pieces	Sender No:	MDM-300
Material/Mix type:		Laying Date/Production Date:	02/03/2017
Nominal Size / Working Block Size L * T * H (mm) :		1200*600*65mm	

TEST RESULTS

PARAMETERS	RESULTS
SAMPLE TYPE	NG
SUPPORT / FACING	NIL
NOM. THICKNESS (mm) :	65
NOM. DENSITY (kg/m3) :	40
SPECIFICATION LIMIT	NG
TEST METHOD VARIATION	NIL
TYPE OF MATERIAL USED FOR CALIBRATION	STANDARD REFERANCE MATERIAL 1450C687
R VALUE @ 35deg C [(M2 K) / W]	0.7169
DATE OF CERTIFICATION	10-DEC-2010 00:00:00
SOURCE OF CERTIFICATION	National Institute of Standards & Technology [NIST] - U.S.A.
EXPIRY & CERTIFICATION TEST NUMBER	Refer NIST special publication 260-130
NOMINAL THICKNESS OF SPECIMEN (mm)	65.0
TEMPERATURE, RH & TIME AT WHICH SPECIMEN CONDITIONED	35 deg C, 60%RH & 48Hr.
DATE OF CALIBRATION	30-APR-2017 08:00:00
MEAN TEMP.(SET) deg C	35
TEMPERATURE DIFFERENCE (deltaT) deg C	20
NO. OF HEAT FLUX TRANSDUCER USED	2
TEST ARRANGEMENT	HORIZONTAL
METERING (TEST) AREA	100mm X 100mm
Uncertainty of measurement	REFER REMARKS
TEST NO / SPECIMEN NO.	1/2

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It does not require any signature**





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PARAMETERS	RESULTS
MEASURED THICKNESS (L) (mm)	60.625
MEASURED DENSITY (kg/m ³)	38.42
MEAN TEMPERATURE ACHIEVED (deg C)	35.24
HEAT FLUX (E) W/m ² .K.	1870
THERMAL CONDUCTIVITY, W/(m K)	0.0357
THERMAL CONDUCTIVITY, Btu-in /h.square ft.degF	0.2475
THERMAL RESISTANCE, (Square m K) / W	1.6982
THERMAL RESISTANCE, ft square / Btu	9.6445
AVERAGE TEMPERATURE GRADIENT (K/m)	331.59
WEIGHT DIFFERENCE (%)	0.0090
TEST DURATION (h:mm:ss)	01:21:25

Sampled By:	Eng. Darwish	Tested By:	NASARDAR
Samples Brought By:	COURIER	Testing Date:	24/04/2017 12:52 PM
Sampling Method:	NOT GIVEN	Sampling Report No:	
Test Method:	ASTM C518 : 2015	Test Method Variation:	NIL

Remarks:	THIS REPORT REPRESENTS THE SUBMITTED SAMPLES ONLY. ,Uncertainty of measurement for thermal conductivity 0.0010 W/m ² .K @ 95% confidence level, k factor 2 Abridged ASTM C 518 Test Report.
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