

Dubai Central Laboratory

Construction Materials Laboratory Section - Structural Unit

TEST REPORT

DETERMINATION OF THERMAL RESISTANCE BY MEANS OF HFM

Report No:	100207680	Request No:	EMTX-2018-021936
Project No:	CF-321	Report Date:	05/04/2018
Project Name:	SAUDI INTERNATIONAL INSULATION MANUFACTURING COMPANY		
Consultant:	DUBAI MUNICIPALITY		
Contractor:	SAUDI INTERNATIONAL INSULATION MANUFACTURING COMPA		
Location:	Dubai - Al Quoz Area		
Source:	NG		
Sample Description:	ROCK FIBRE (MINERAL FIBRE) BLANKET/MATRESS		
Sampling Date/Time:	15/03/2018 10:00 AM	Lot Number:	NA
Receiving Date/Time:	22/03/2018 08:00 AM	Lot Size:	4 pieces
Sample Size:	4 pieces	Sender No:	OM-0126B
Material/Mix type:	Single Layer	Laying Date/Production Date:	
Nominal Size / Working Block Size L * T * H (mm) :		3000mm x 1200mm	

TEST RESULTS

PARAMETERS	RESULTS
SAMPLE TYPE	KIMMCO ISOVER COMFORT SA ROLL 50/100
SUPPORT / FACING	FOIL SCRIM KRAFT (FSK) SINGLE SIDED
NOM. THICKNESS (mm) :	100
NOM. DENSITY (kg/m3) :	50
SPECIFICATION LIMIT	NG
TEST METHOD VARIATION	NIL
IDENTIFICATION OF EQUIPMENT	NETZCH - HFM-436 Lambda ASSET NO. ESHFM-1
ORIENTATION OF APPARATUS	HORIZONTAL
TYPE OF HEATFLOW METER USED	SINGLE
METHOD TO REDUCE EDGE HEAT LOSS	GUARD AREA
POSITION OF HOT PLATE	TOP
METERING (TEST) AREA	100mm X 100mm
AMBIENT TEMPERATURE OF ENVIRONMENT	23°C to 25°C
TYPE OF MATERIAL USED FOR CALIBRATION	STANDARD REFERANCE MATERIAL
R VALUE @ 35deg C [(M2 K) / W]	0.7552
SRM CERTIFICATION DATE	1/9/2016
SOURCE OF CERTIFICATION	National Institute of Standards & Technology [NIST] - U.S.A.
CERTIFICATE NO	173
EXPIRY & CERTIFICATION TEST NUMBER	Refer NIST special publication 260-130
DATE OF CALIBRATION	31-MAR-2018
NOMINAL THICKNESS OF SPECIMEN (mm)	100

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PARAMETERS	RESULTS
PRODUCT STANDARD APPLICABLE TO TESTED SP	NG
METHOD OF SPECIMEN PREPARATION	HAND CUTTING
TEMPERATURE, RH & TIME AT WHICH SPECIMEN CONDITIONED	35 deg C, 60%RH & 48Hr.
MASS CHANGE DURING CONDITIONING (%)	0.07
DENSITY OF CONDITIONED SPECIMEN AS TESTED	57.95
THICKNESS CHANGE DURING TEST (%)	1.11
MASS CHANGE DURING TEST (%)	0.09
VOLUME CHANGE DURING TEST (%)	1.2195121951219512
TEST NO / SPECIMEN NO.	1/2
MEASURED THICKNESS (L) (mm)	90.13
MEAN TEMPERATURE ACHIEVED (deg C)	35.07
HEAT FLUX (E) W/m ²	1224
THERMAL CONDUCTIVITY, W/(m K)	0.0380
THERMAL CONDUCTIVITY, Btu-in /h.square ft.degF	0.2635
THERMAL RESISTANCE, (Square m K) / W	2.3718
THERMAL RESISTANCE, ft square / Btu	13.4701
AVERAGE TEMPERATURE GRADIENT (K/m)	221.63
TEST DURATION (h:mm:ss)	03:23:27
DATE OF COMPLETION OF TEST	01-APR-2018

Sampled By:	Eng. Omar AlJuboori	Tested By:	NASARDAR
Samples Brought By:	Niju Mathew	Testing Date:	25/03/2018 13:21 PM
Sampling Method:	DCL-IC-99	Sampling Report No:	
Test Method:	BSEN 12667 : 2001	Test Method Variation:	NIL

Remarks:	THIS REPORT REPRESENTS THE SUBMITTED SAMPLES ONLY.
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