

	Organization /Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	
	Document Title:	TEST REPORT THERMAL RESISTANCE BY MEANS OF HFM	عنوان الوثيقة:	
	Doc. Ref. :	DM-DCLD-F-IBL-0100	رقم الوثيقة:	

INFRASTRUCTURE AND BUILDING MATERIALS LABORATORIES SECTION

Report No:	1084586	Request No:	EMTX-2026-0002245
Project No:	CF-594	Report Date:	22/01/2026 02:07PM
Project Name:	ALWAN AL MATAR TECHNICAL SERVICE		
Consultant:	DUBAI MUNICIPALITY		
Contractor:	ALWAN AL MATAR TECHNICAL SERVICE		
Location: *	spray applied on the floor of one of the Site villas		
Source: *	NOT GIVEN		
Sample Description: *	SPRAY APPLIED RIGID CELLULAR POLYURETHANE INSULATION		
Product Name: *	Spray Applied Rigid Cellular Polyurethane Insulation		
Sampling Date/Time: *	10/12/2025 11:00AM	Lot/Batch/Coil/Heat No. *	-
Receiving Date/Time:	09/01/2026 10:18AM	Lot Size: *	-
Sample Size /Quantity:	10 pieces	Sender No:	SMP-AAM-001
Material/Mix Type: *	NA	Laying Date/Production Date: *	NA
Nominal Size / Working Block Size (mm) : 1000x500x50			

TEST RESULTS

PARAMETER	RESULTS
SUPPORT / FACING*	NIL
NOM. THICKNESS (mm)*	50
NOM. DENSITY (kg/m3)*	40
SPECIFICATION LIMIT	NG
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	01-09-2016
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	19-01-2026
NOMINAL THICKNESS OF SPECIMEN (mm)	50

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METHOD OF SPECIMEN PREPARATION	MACHINE CUTTING		
TEMPERATURE, RH & TIME AT WHICH SPECIMEN CONDITIONED	35 deg C, 60%RH & 48Hr.		
TEST NO / SPECIMEN NO.	1		
MASS CHANGE DURING CONDITIONING (%)	0.329		
DENSITY OF CONDITIONED SPECIMEN AS TESTED	42.98		
THICKNESS CHANGE DURING TEST (%)	0.12		
MASS CHANGE DURING TEST (%)	0.47		
VOLUME CHANGE DURING TEST (%)	0.00		
MEASURED THICKNESS (L) (mm)	49.45		
DELTA (SET)	20		
MEAN TEMPERATURE ACHIEVED (deg C)	35.1		
AVERAGE TEMP. DIFFERENCE ACCROSS THE SPECIMEN DURING TEST (K)	20.0		
AVERAGE HEAT TRANSFER (q) μV	1389		
THERMAL CONDUCTIVITY, W/(m K)	0.0240		
THERMAL CONDUCTIVITY, Btu-in /h.square ft.degF	0.1664		
THERMAL RESISTANCE, (Square m K) / W	2.0604		
THERMAL RESISTANCE, ft square / Btu	11.7016		
AVERAGE TEMPERATURE GRADIENT (K/m)	404.79		
TEST DURATION (h:mm:ss)	02:11:34		
DATE OF COMPLETION OF TEST	20-01-2026		
Sampled By:	Subair Mada Puram	Tested By:	AKKUNNATH
Sampled Brought By:	CLIENT REPRESENTATIVE	Testing Date:	09/01/2026 10:18AM
Sampling Method:	SAMPLING AS PER THE RELEVANT SPECIFIC RULES	Sampling Report No:	NA
Test Method:	BS EN 12667 : 2001	Test Method Variation:	NIL
Remarks:	CUSTOMER PERFORMED SAMPLING AND PROVIDED THE SAMPLE; THE RESULTS APPLY ONLY TO THE SAMPLE AS RECEIVED AND TESTED.		

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***** END OF REPORT *****

This report is computer approved and authorized by In Charge of Lab and does not require any signature.



LB-TEST-014

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