

	Organization/Unit:	إدارة مختبر دبي المركزي Dubai Central Laboratory Department	الوحدة التنظيمية:	
	Document Title:	TEST REPORT WATER VAPOR TRANSMISSION OF INSULATION MATERIALS	عنوان الوثيقة:	
	Doc. Ref. :	DM-DCLD-F-IBL-0100	رقم الوثيقة:	

INFRASTRUCTURE AND BUILDING MATERIALS LABORATORIES SECTION

Report No:	1088105	Request No:	EMTX-2026-0002245
Project No:	CF-594	Report Date:	28/01/2026 12:22PM
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/cubic m)*	40		
SPECIMEN NOM. THICKNESS (mm)	50		
TEST ROOM TEMP. & RH	23+/-1Degree, 50+/-2% RH		
TEST ASSEMBLY PREPARED ON	14-01-2026		
TEST DURATION (h)	288		
SPECIMEN NO.	1	2	3
SPECIMEN MEASURED THICKNESS (mm)	49.5	48.4	49.6
SPECIMEN MEASURED DENSITY (kg/cubic m)	44.3	44.5	43.0
WATER VAPOR TRANSMISSION RATE (mg/m ² ·h)	265.17	290.85	283.93
WATER VAPOR PERMEANCE (mg/m ² ·h·Pa)	0.189	0.208	0.203
WATER VAPOR RESISTANCE (m ² ·h·Pa/mg)	5.28	4.81	4.93
WATER VAPOR PERMEABILITY (mg/m·h·Pa)	0.0094	0.0101	0.0101
AVERAGE WATER VAPOR TRANSMISSION RATE (mg/m ² ·h)	279.99		
AVERAGE WATER VAPOR PERMEANCE (mg/m ² ·h·Pa)	0.200		

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INFRASTRUCTURE AND BUILDING MATERIALS LABORATORIES SECTION

Report No:	1088105	Request No:	EMTX-2026-0002245
AVERAGE WATER VAPOR RESISTANCE (m ² .h·Pa/mg)	5.01		
AVERAGE WATER VAPOR PERMEABILITY (mg/m·h·Pa)	0.0098		
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 12086 : 2013	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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Date of Issue :	26/04/2024	Rev No. : 5
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