

Dubai Central Laboratory

Construction Materials Laboratory Section - Structural Unit

TEST REPORT

WATER VAPOR TRANSMISSION OF INSULATION MATERIALS

Report No:	100220214	Request No:	EMTX-2018-021931
Project No:	CF-321	Report Date:	01/05/2018
Project Name:	SAUDI INTERNATIONAL INSULATION MANUFACTURING COMPANY		
Consultant:	DUBAI MUNICIPALITY		
Contractor:	SAUDI INTERNATIONAL INSULATION MANUFACTURING COMPA		
Location:	Dubai - Al Quoz Area		
Source:			
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:	3 pieces
Sample Size:	3 pieces	Sender No:	OM-0126A
Material/Mix type:	Single Layer	Laying Date/Production Date:	
Nominal Size / Working Block Size L * T * H (mm) :	7000mm x 1200mm		

TEST RESULTS

PARAMETERS	RESULTS		
SAMPLE TYPE	KIMMCO ISOVER COMFORT SA ROLL 50/50		
SUPPORT / FACING	FOIL SCRIM KRAFT (FSK) SINGLE SIDED		
NOM. THICKNESS (mm) :	50		
NOM. DENSITY (kg/cubic m) :	50		
SPECIMEN NOM. THICKNESS (mm)	50		
TEST METHOD USED	DESICCANT METHOD		
TEST ROOM TEMP. & RH	23+/-1Degree, 50+/-2% RH		
COMPOSITION OF SEALANT USED	PURIFIED PARAFFIN WAX		
TEST ASSEMBLY PREPARED ON	16-APR-2018 09:00:00		
TEST DURATION (h)	264		
SPECIMEN NO.	1	2	3
SPECIMEN MEASURED THICKNESS (mm)	51.0	50.0	49.0
SPECIMEN MEASURED DENSITY (kg/cubic m)	75.1	76.1	68.0
WATER VAPOR TRANSMISSION (g/h m ²) - *METRIC UNIT	0.135	0.161	0.129
PERMEANCE (g/Pa. s. m ²) - *METRIC UNIT	2.68E-08	3.19E-08	2.55E-08
WATER VAPOR TRANSMISSION (grains/h. ft ²) - *INCH-POUND UNIT	0.194	0.231	0.185
PERMEANCE (perms) - *INCH-POUND UNIT	0.469	0.558	0.446
AVG. WATER VAPOR TRANSMISSION (grains/h. ft ²) - *INCH-POUND UNIT	0.20		
AVG. PERMEANCE (perms) - *INCH-POUND UNIT	0.49		

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Report No:	100220214	Request No:	EMTX-2018-021931
Sampled By:	Eng. Omar AlJuboori	Tested By:	NIMIAH
Samples Brought By:	Niju Mathew	Testing Date:	25/03/2018 13:22 PM
Sampling Method:	DCL-IC-99	Sampling Report No:	
Test Method:	ASTM E96/96M -2016	Test Method Variation:	NIL
Remarks:	THIS REPORT REPRESENTS THE SUBMITTED SAMPLES ONLY.		

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