Insulation Material Steady-State Thermal Transmission Property Test Report

Report number: OTM2210002

Client:

Eco Building Solutions Pte. Ltd.

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View laboratory profile

The Optical & Thermal Testing Laboratory of OTM Solutions Pte Ltd is accredited to ISO/IEC 17025 under the Singapore Accreditation Council - Singapore Laboratory Accreditation Scheme (SAC-SINGLAS, Certificate No: LA-2016-0610-G).

The results reported herein have been performed in accordance with the terms of accreditation under the Singapore Accreditation Council.

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Job description: Steady-state thermal transmission property testing of 1 piece of insulation material sample at 20 °C mean temperature.

The test sample was delivered by the client and received by OTM on 26/09/2022 and was tested on 30/09/2022.

Approved signatory: Dr. Chen Fangzhi

Laboratory Manager (Tel: +65 9187 7666; Email: chen.fz@otm.sg)

Date of test: 30/09/2022

Date of report: 18/10/2022

Test method description

Methods:	• ASTM C518-17 Standard test method for steady-state thermal transmission properties by means of the heat flow meter apparatus
Instruments	• Thermtest HFM-100 heat flow meter • Thermal conductivity reference material: NIST SRM 1450d, fibrous-glass board
Calculation software	• N/A
Estimated uncertainties	• Thermal conductivity: ±5% of relative uncertainty • The uncertainties were estimated at a level of confidence of approximately 95%, with a coverage factor k = 2. • The estimated uncertainties do not include uncertainties caused by sample-to-sample variations and sample non-uniformities.
Notes	• The mean temperature of the tests was 20 °C. • The sample dimension and density are nominal values.

Disclaimer

- The test report shall not be reproduced except in full, without written approval of the laboratory.
- The sampling was not performed by the laboratory. The test results relate only to the sample received and tested.
- The client's reference information was declared by the client and it may affect the validity of the results.
- The test report is issued subject to the "Testing Service Terms and Conditions" annexed to OTM official quotation and on request from OTM.

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Sample ID	2209054
Sample description	Lightherm Drymix
Dimension	5 cm × 30 cm × 30 cm
Density	185 kg/m^3
Test results	At mean temperature of 20 °C: Thermal conductivity = 0.0658 W/(m·K)
Photos	 Side 1

	 Side 2