

Insulation Material Steady-State Thermal Transmission Property Test Report

Report number: OTM2403027



Client:

Vodapruf Pte Ltd

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Laboratory:

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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.

Report number:

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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 27/02/2024 and was tested on 05/03/2024 & 06/03/2024.

Approved signatory:

Dr. Chen Fangzhi

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

Date of test:

05/03/2024 & 06/03/2024

Date of report:

26/03/2024

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Test method description

<u>Methods:</u>	<ul style="list-style-type: none">ASTM C518-21 Standard test method for steady-state thermal transmission properties by means of the heat flow meter apparatus
<u>Instruments</u>	<ul style="list-style-type: none">Thermtest HFM-100 heat flow meterThermal conductivity reference material: NIST SRM 1450e, fibrous-glass board
<u>Calculation software</u>	<ul style="list-style-type: none">N/A
<u>Estimated uncertainties</u>	<ul style="list-style-type: none">Thermal conductivity: $\pm 5\%$ of relative uncertaintyThe 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.
<u>Notes</u>	<ul style="list-style-type: none">The mean temperature of the tests was 20 °C.The sample dimension and density are nominal values.The sample was conditioned in 24 ± 2 °C and $50 \pm 10\%$ RH for more than 24 hours and with less than 1% of mass change prior to the testing.

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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<u>Sample ID</u>	2403010
<u>Sample description</u>	LIGHTHERM Drymix Plaster
<u>Dimension</u>	5 cm × 30 cm × 30 cm
<u>Density</u>	165 kg/m ³
<u>Test results</u>	At mean temperature of 20 °C: Thermal conductivity = 0.0623 W/(m·K)
<u>Photos</u>	 Side 1

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Side 2