

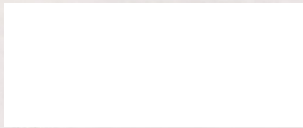
TEST REPORT

Heat Transfer Laboratory

Report number 2020. 8134-1A

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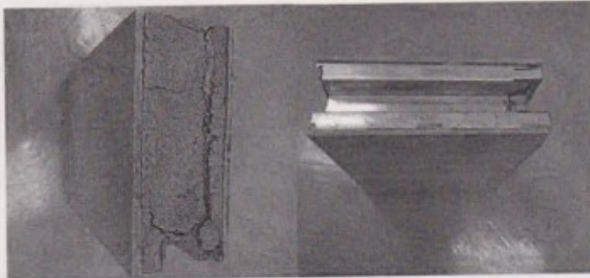
Your ref :
Our ref : GRN. 6749/2014
Enquiries : FM Mogoroshi
Tel : (012) 428 6819
Page : 1 of 2
Date : 2014-08-15



90 mm WALL PANEL SYSTEM

1. DESCRIPTION OF SAMPLE

Ceiling board fixed onto steel frame with cement

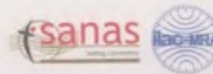


2. METHOD OF TEST

Thermal conductivity tested according to ASTM C518 and T0178-WI-015

1 Dr Lategan Road, Groenkloof, Private Bag X191, Pretoria, 0001.
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T0178

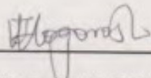
T48000043

3. RESULTS:

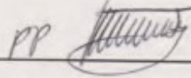
Average thickness of the wall panel, m	0.090
Average conditioned mass, kg	4.19
Average mass after tested, kg	4.19
Density as received, kg/m ³	517.3
Mean hot temperature, °C	36
Mean cold temperature, °C	10
Mean temperature, °C	23
Temperature difference, °C	26
Average temperature gradient in specimen, °C/m	256
Heat flux direction	Downwards
Thermal conductivity, W/m.K	0.1035
Thermal resistance, m ² .K/W	0.869
Thermal conductance, W/m ² .K	1.150

4. REMARKS

- Duration of test : 2014-08-13 to 2014-08-14
- Duration of measurement portion of test : 3 hrs
- Laboratory environmental conditions : 22 ± 5°C and 50 ± 10% RH
- Sample conditioning : The samples were conditioned for a period of at least 48 hrs at laboratory conditions before being tested.
- Date of re-calibration of Lasercomp instrument : 2014-11
- Position of the heat meter apparatus during testing: Horizontal
- The reported uncertainty of measurements of ± 10 % is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%, the uncertainty of measurement has been estimated in accordance with the principles defined in
- The GUM, Guide to Uncertainty of Measurement, ISO, Geneva, 1st edition, 1993
- Assessment of Uncertainties of measurement for calibration and testing laboratories, RR Cook, 2nd edition, 2002
- EAL-R2, Expression of Uncertainties of Measurement in calibration, European co-operation for Accreditation, 1999



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