

REPORT PREPARED BY

L Fonterigo Test Technician

TEST REPORT

ISSUED BY British Board of Agrément DATE OF ISSUE 22 November 2010 SERIAL NUMBER 47230TH

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AUTHORISED BY

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T1/47230

JOB No:

CLIENT: Effective Energy Solutions Ltd., The Turbine, Coach Close, Worksop, Nottinghamshire. S81 8AP

1 INTRODUCTION

The test specimen was supplied by the client and described as Effective Energy Solutions Wallrock thermal liner. It was delivered in the form of a 10000mm x 750mm x 3mm roll. The tested sample consisted of ten layers of this material with a thickness of 31.50mm so each layer had an average individual thickness of 3.15mm

2 METHOD

Heat Flow Meter Method of ISO 8301 : 1991 and BS EN 12667 : 2001 using the BBA single specimen symmetric test facility designated K4. Edge guarding is provided by an independently heated zone at the perimeter of each plate and apparatus wall temperatures controlled to match the mean specimen temperature. Specimen thickness was measured in accordance with BS EN 823.

3 SPECIMEN PREPARATION

The test specimen was assigned the BBA designation number T1/47230/1 and stored in a well-ventilated position in an air-conditioned room at 23 \pm 2°C, 50 \pm 5% rh until it was tested.

4 MEASURED PROPERTIES

Thermal resistance per layer	Density	Mean temperature
m²·K/W	kg/m³	(°C)
0.0821 ± 2.5%	174	10.1

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a level of confidence of approximately 95%. The uncertainty evaluation has been carried out in accordance with ISO/IEC 17025:2005.

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5 RESULTS

Test details	
Relative mass change during conditioning	-0.10%
Cold face temperature	0.04 °C
Hot face temperature	20.13 °C
Average temperature difference across specimen	20.09 K
Relative mass change during test	0.00%
Average imposed specimen thickness	31.5 mm
Mean heat flux	24.5 W/m ²
Direction of heat flux	Upwards
Interface medium	None
Applied load	~ 50 Pa
Cold face emissivity	0.89
Hot face emissivity	0.89
Duration of test (hh:mm)	9:47
Duration of steady state (hh:mm)	2:30
Date of test completion	16 November 2010
Angle of orientation	0 °
Calibration details	
Date of last verification	Nov-10
Certified reference material	IRMM-440

6 CE MARKING

The BBA has been notified as an approved testing laboratory (notification number 0836). Within the context of 89/106/EEC Construction Products Directive this data can contribute to the Attestation of Conformity requirements for CE Marking, if it can be shown that the test specimen has been taken from the same sample as described in the relevant product standard.

7 COMMENTS

The measured thickness of ten sheets of the sample was 31.50mm at 50Pa to BS EN 823 and was tested at this thickness.

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