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TEST REPORT

ISSUED BY British Board of Agrément

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AUTHORISED BY

J Holdsworth Test Operations Manager

JOB No: T950770

CLIENT: NUDURA Corporation 27 Hooper Rd Unit No 10 Barrie Ontario Canada L4N 9SE

#### **1** INTRODUCTION

The test specimen was supplied by the client and described as Insulated concrete formwork system Lot# 286339 0237 of 0500, production date 10-Jun-12. It was delivered in the form of 430 x 165 x 55mm blocks.

#### 2 METHOD

Heat Flow Meter Method of ISO 8301 : 1991 and BS EN 12667 : 2001 using the BBA single specimen symmetric test facility designated K9. Edge guarding is provided by an independently heated zone at the perimeter of each plate and thermal insulation with a resistance in excess of 3 m<sup>2</sup>K/W. Specimen thickness was measured in accordance with BS EN ISO 12667.

#### **3** SPECIMEN PREPARATION

The test specimen was assigned the BBA designation number T950770/8 and stored in a well-ventilated position in an air-conditioned room at  $23 \pm 2^{\circ}$ C,  $50 \pm 5\%$  rh until it was tested.

#### 4 MEASURED PROPERTIES

Thermal conductivity	Thermal resistance	Density	Mean temperature
W/(m⋅K)	m²·K/W	kg/m <sup>3</sup>	(°C)
0.035 ± 2.5%	1.43 ± 2.5%	21.7	10.0

# 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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## **TEST REPORT**

#### 5 RESULTS

#### Test details

Cold face temperature	20.01 °C
Hot face temperature	0.02 °C
Average temperature difference across specimen	20.00 K
Relative mass change during test	0.03%
Average imposed specimen thickness	49.7 mm
Mean heat flux	14 W/m <sup>2</sup>
Direction of heat flux	Upwards
Interface medium	None
Applied load	43 kPa
Cold face emissivity	0.89
Hot face emissivity	0.89
Duration of test (hh:mm)	2:29
Duration of steady state (hh:mm)	2:30
Date of test completion	16 January 2013
Angle of orientation	0 °
Calibration details	
Date of last verification	Jan-13
Certified reference material	Mineral wool

#### 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

None

### **TEST REPORT**

#### 8 **REPORT CONDITIONS**

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