



AGH UNIVERSITY OF SCIENCE AND TECHNOLOGY

Faculty of Materials Science and Ceramics

Department of Building Materials Technology

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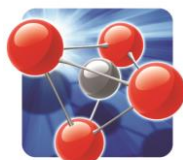
Cracow, Oct 10, 2014

Thermal conductivity of BAUWER insulating plasters and floor screed mix

REPORT

Customer: BAUWER sp. z o.o. (Ltd.)
Dojazd Staroniwa street 9/19
35-011 Rzeszów, POLAND

Samples collection date: 6.10.2014
Start of tests: 14.10.2014
End of tests: 20.10.2014



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1. Aim and range of research

The tests of thermal conductivity were made for BAUWER Ltd. (Rzeszów). Four series of samples were investigated (three kinds of insulating plasters and one floor screed mix). Samples were marked by the customer.

2. Results

Grinded and dry rectangular samples with the dimensions 200mm×200mm×45mm were investigated. The equipment based on steady-state method according standard no. PN-ISO 8301:1998 was used. Mean temperature was 10°C, temperature gradient during tests was 10°C. Dimensions of samples comply with the criteria of standard no. PN-EN 12664:2002. The result for each sample is the mean value obtained from three particular tests.

Table 1. Thermal conductivity of samples $\lambda_{10,dry}$

No.	Samples	Density, kg/m ³	Std.dev. kg/m ³	$\lambda_{10,dry}$ W/(m·K)	Std.dev. W/(m·K)
1	Insulating plaster BAUWER Light	287	4	0,069	0,001
2	Insulating plaster BAUWER Standard	366	2	0,081	0,000
3	Insulating plaster BAUWER Premium	411	8	0,102	0,006
4	Floor screed mix BAUWER Podłoga	388	5	0,091	0,002

The results relate only to the investigated samples. Expanded uncertainty of used method for k=2 is 0,005 W/(m·K).

Waldemar Pichór, dr eng.

