



TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.
Technical and Test Institute for Constructions Prague
pobočka / branch České Budějovice

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L 1018.3

TEST REPORT

issued by Testing Laboratory No. 1018.3
accredited pursuant to ČSN EN ISO/IEC 17025 by the Czech Accreditation Institute, o.p.s.

No.A 020-028148

On test – determination of thermal conductivity coefficient

Ordering Party: CIUR a.s.
Address: Malé náměstí 142/3, 110 00 Prague 1
Comp. Reg. No.: 40612724

Manufacturing Plant: CIUR a.s.
Address: Pražská 1012, 250 01 Brandýs nad Labem

Test sample: CLIMATIZER PLUS, THERMOCEL 040,
FLOCO'MOBIL Dämmflocke and UniFloc

Order No.: Z 020 11 0058

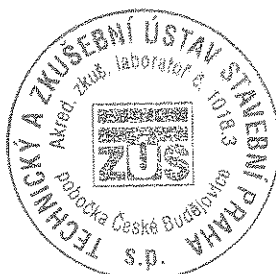
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Prepared by:

František Jáchym

Prepared the Test Report

Approved by:



Ing. Pavel Zeman

Head of Testing Laboratory

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České Budějovice, on 30/8/2012

stamp of Testing Laboratory No. 1018.3

Declaration: 1) The test results in this test report relate only to the tested article and they do not substitute any other documents.
2) The test report must be copied as a whole only otherwise a written consent of the testing laboratory is needed.

Technical and Test Institute for Constructions Prague, s.p.
Branch 0200 - České Budějovice
Nemanická 441, CZ 37010 Č.Budějovice
931/0100

Phone: 387 023 211 (switchboard)
Fax: 387 220 864
Bank details: Komerční banka, Praha 1

email: zeman@tzus.cz
www.tzus.eu
Account No.: 1501-

Entered in the Commercial Register maintained by Municipal Court in Prague, Section ALX, Insert 711, Comp. Reg.
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1. General

Based on the year-long order of 4 February 2011, the periodical tests on determination of thermal conductivity coefficient of the CLIMATIZER PLUS, THERMOCEL 040, FLOCO' MOBIL Dämmflocke and UniFloc thermal insulation material were carried out.
(Order No. Z 020110058)

2. Technical description of the scope of the test

Measuring the thermal conductivity coefficient at mean temperature of 10° C was the subject of the test.

3. Identification, sampling, acceptance and preparation of samples

The test samples of the CLIMATIZER PLUS, THERMOCEL 040, FLOCO' MOBIL Dämmflocke and UniFloc thermal insulation material of sizes of c. 500x500x100 mm were manufactured and stored in the warehouse of CIUR. The samples were brought to TZÚS Prague, s.p. Branch České Budějovice, on 09 August 2012. In total, 18 pcs of samples were supplied. They were marked with a sample number and stored under laboratory conditions (23±2°C / 50±5% of relative humidity) until the tests were carried out.

Sample No.: 1378/1 to 18

4. Test date

The measurement was taken between 10 August and 28 August 2012

5. Testing regulations used

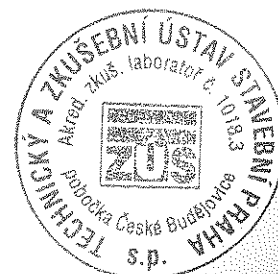
ČSN EN 1602 Thermal insulating products for building applications - Determination of the apparent density

ČSN EN 12667 Thermal performance of building materials and products - Determination of thermal resistance by means of guarded hot plate and heat flow meter methods - Products of high and medium thermal resistance

6. List of apparatuses and measuring instruments used

	reg. No.
Guarded hot plate	641
Slide calliper 0-600	685
TRANSPORTA Scales 0 – 30 000g	225

The apparatuses and measuring instruments are certified pursuant to the Weight and Measures Rules in force at TZÚS Prague s.p., Branch České Budějovice.



7. Test results

Measured at mean temperature of 10 °C

tab. 1 samples of February 2012

sample number	date of manufacture	prescribed density [kgm ⁻³]	real density [kgm ⁻³]	coefficient of thermal conductivity [Wm ⁻¹ K ⁻¹]
1378/1	10/2/2012	30	31.6	0.0368
1378/2	14/2/2012	50	49.3	0.0350
1378/3	24/2/2012	60	60.4	0.0362

tab. 2 samples of March 2012

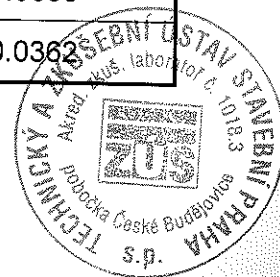
sample number	date of manufacture	prescribed density [kgm ⁻³]	real density [kgm ⁻³]	coefficient of thermal conductivity [Wm ⁻¹ K ⁻¹]
1378/4	8/3/2012	30	31.5	0.0369
1378/5	19/3/2012	50	48.0	0.0355
1378/6	29/3/2012	60	59.5	0.0367

tab. 3 samples of April 2012

sample number	date of manufacture	prescribed density [kgm ⁻³]	real density [kgm ⁻³]	coefficient of thermal conductivity [Wm ⁻¹ K ⁻¹]
1378/7	5/4/2012	30	33.2	0.0370
1378/8	20/4/2012	50	48.5	0.0353
1378/9	26/4/2012	60	60.3	0.0364

tab. 4 samples of May 2012

sample number	date of manufacture	prescribed density [kgm ⁻³]	real density [kgm ⁻³]	coefficient of thermal conductivity [Wm ⁻¹ K ⁻¹]
1378/10	10/5/2012	30	34.5	0.0370
1378/11	18/5/2012	50	47.1	0.0359
1378/12	25/5/2012	60	61.0	0.0362



tab. 5 samples of June 2012

sample number	date of manufacture	prescribed density [kgm ⁻³]	real density [kgm ⁻³]	coefficient of thermal conductivity [Wm ⁻¹ K ⁻¹]
1378/13	5/6/2012	30	33.7	0.0368
1378/14	12/6/2012	50	47.7	0.0355
1378/15	25/6/2012	60	59.6	0.0366

tab. 6 samples of July 2012

sample number	date of manufacture	prescribed density [kgm ⁻³]	real density [kgm ⁻³]	coefficient of thermal conductivity [Wm ⁻¹ K ⁻¹]
1378/16	3/7/2012	30	32,1	0.0370
1378/17	10/7/2012	50	46.9	0.0358
1378/18	20/7/2012	60	60.4	0.0364

8. Conclusion

The results of the measurement of the thermal conductivity of the supplied samples of the CLIMATIZER PLUS, THERMOCEL 040, FLOCO' MOBIL Dämmflocke and UniFloc thermal insulation material were determined by measuring after the samples had been stored under laboratory conditions (23±2°C / 50±5% of relative humidity) and they are given in tables 1 through 6 in paragraph 7 of this Test Report.

END OF THE TEST REPORT

