KTU INSTITUTE OF ARCHITECTURE AND CONSTRUCTION

BUILDING THERMAL PHYSICS LABORATORY

TEST REPORT No. 065 SŠF/12
12 December 2012

Determination of water vapor transmission

(designation of the test)

Test performed in accordance with: LST EN 12086:2000 Thermal insulating products for building applications. Determination of water vapour transmission properties.

(number of normative document or description of a test method, test procedures, test error)

Product: 30 mm-thick clay plaster (clay powder, 0-2 fraction gravel, reinforcement material) reinforced with two reinforcing meshes (165 g/m2 Baukom Gmb).

(name, mark of the normative document or description, means of identification)

Client: "ECOCOCON" Ltd, Dievogalos Village, Dievogalos str. 69, Kaunas Dist.

(name and address)

Producer: "ECOCOCON" Ltd, Dievogalos Village, Dievogalos str. 69, Kaunas Dist.

(name and address)

Test results:

Specimen mark	Individual values of μ	The average value of water vapour resistance factor μ
1	9.0	**9.1**
2	8.2	
3	9.8	
4	9.9	
5	8.6	

Conditions of the test: C 23-50/95:Δp=1210Pa

Test equipment: 100 mm diameter glass dish, analytical scales (accuracy ± 1 mg), test chamber, in which the required relative humidity with the accuracy of ± 3% and the temperature with the accuracy of ± 1°C can be maintained.

Place of the test: Laboratory of Building Thermal Physics, IAC KUT

(name of the test laboratory)

Specimens delivered: 02-07-2012 Date of testing: 23-07-2012

Specimens selected: by the client. Sampling report 065/12, 12-12-2012, application

Annexes: Annex 1 – Test Method. Preparation of Specimens.
Annex 2 – Schematical View of the Test Rig.

(any deviations, additional tests, exceptions and any information related to the test)

Technical Manager: J.Ramanauskas

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(technically responsible for the test)	(signature)	(name, surname)
Test performed by:		V. Paukštys
(technically responsible for the test)	(signature)	(name, surname)

L.S.

Annex 1

Test Method

Water vapour transmission determined in accordance with Method A of LST EN ISO 12572:2001.

Preparation of Specimens

Specimen thickness of about 30 mm, diameter of about 100 mm. Specimen edges sealed with sealants.
Test glass dish filled with K_2SO_4 (94%). Thickness of layer poured – 20 mm. Specimen is placed on the test dish; point of contact is sealed. Air gap between the surface of salt solution and the specimen – about 18 mm.
The test device is placed in a test chamber, in which $NaOH_2 \cdot 2H_2O$ (52%) the following conditions are maintained: temperature (23 ± 0,5)°C, relative air humidity (50 ± 3)%.

Annex 2

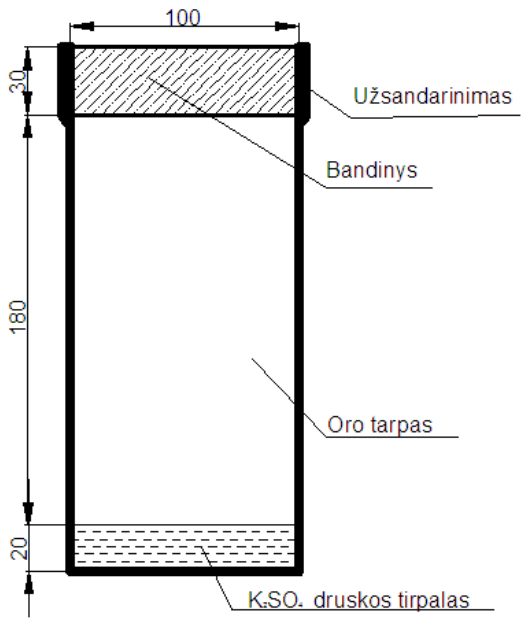

Figure 1. Schematical View of the Test Rig

Užsandarinimas	Sealing
Bandinys	Specimen

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Oro tarpas	Air gap
K_2SO_4 druskos tirpalas	K_2SO_4 Salt Solution