



TECHNICKÝ A ZKUŠEBNÍ ÚSTAV STAVEBNÍ PRAHA, s.p.
Technical and Testing Institute for Construction Prague
 pobočka / branch Praha

Akreditovaná zkušební laboratoř • Autorizovaná osoba • Certifikační orgán • Inspekční orgán
 Accredited Testing Laboratory Authorised Body Certification Body Inspection Body



L 1018.5

REPORT

Testing Laboratory No. 1018.5
 Accredited by The Czech Institute for Accreditation o.p.s. in accordance with
 ČSN EN ISO/IEC 17025

No. 010-035693

on tests of determination of water vapour transmission properties

Customer: Technical and Test Institute for Construction Prague, s. p.
 Address: Branch 0100 - Prague
 Prosecká 811/76a, 190 00 Praha 9
 INo: 00015679
 Applicant: NEVPANEL YAPI MADEN ÜRETİM İTHALAT İHRACAT
 SANAYI VE TİCARET LIMITED ŞİRKETİ
 Address: BAGDAT CADDESİ COLAKOĞLU İŞ MERKEZİ NO:
 458/30
 MALTEPE İSTANBUL
 Product/tested subject: **Fire protective board made of magnesium oxide and
 magnesium chloride and reinforced by fiberglass
 fabric. Trade name: NevPanel; DragonBoardTürkiye;
 MagnumBoard**
 Order number: Z 010 15 0201

Test report contains 3 written pages including the title page

Number of annexes: 0
 The person responsible for the content of this test report:

Naliv

Vlastimil Valeš
 Test report executor

The person responsible for correctness of this test report:

Vojtech

RNDr. Vojtěch Hötzel
 Head of Testing Laboratory

Prague, 14.11. 2015

Copy No.: 1
 Number of copies: 4



- Declaration:
- 1) Results of the tests are valid only for the sample that has been tested and they don't substitute another documents
 - 2) Without the prior written approval of the testing laboratory the test report may not be reproduced otherwise than complete. Neither the test report nor its parts may be altered in any way.
 - 3) The complaints or objections to this test report may be made in a written form to the head of testing laboratory within 15 days of delivery.

Technical and Test Institute for Construction Prague
 Branch 0100 - Praha
 Prosecká 811/76a, CZ 190 00 Praha 9
 Recorded in Commercial Register kept by Municipal Court in Prague, section A LX, insertion 711, ID: 00015679, VAT: CZ00015679

tel.: +420 286 019 400
 fax: +420 286 891 393
 Bank connection: KB Praha 1 Czech Republic,

email: hotzel@lzus.cz
 www.lzus.eu
 account No.: 1501-931/0100



1. Identification of the subject of the tests

1.1. Tested subject: Fire protective board made of magnesium oxide and magnesium chloride and reinforced by fiberglass fabric.

Trade name: NevPanel; DragonBoardTürkiye; MagnumBoard

Registered sample No.: VZ010150383

1.2. Manufacturer:

NEVPANEL YAPI MADEN ÜRETİM İTHALAT İHRACAT
SANAYİ VE TİCARET LIMITED ŞİRKETİ

2. Test specification

Performed tests:

- determination of water vapour transmission properties according to EN ISO 12572

3. Sampling and sample preparation:

Date of delivery: 23.09.2015

Place of sampling: dispatching warehouse of the applicant

Samples were taken by: Ing. Michal Vostrovský, employee of branch 0100 - Prague

Date of take-over in the testing laboratory: 28.09.2015

Samples were taken over in the testing laboratory by: Vlastimil Valeš

Testing specimens were prepared for the testing according to the relevant standards.

4. Testing methods, standards and procedures

4.1. The tests were carried out according to the following standard:

EN ISO 12572:2002 Hygrothermal performance of building materials and products - Determination of water vapour transmission properties

4.2. Deviations from the standard testing methods: no

5. Testing equipment

- Slide gauge 0 – 200 mm, ID: 376
- Scales Sartorius type LP 1200 S with range 0-1200 g, ID 336
- Conditioning chamber CLIMACELL 111, ID 420
- Hygrometer with thermometer, ID: 256

All the testing and measuring equipment is calibrated and filed in the metrological order of testing laboratory. Certificates of calibration are deposited by the metrologist of the laboratory.

6. Test results

Date of tests: 20.10.2015 - 29.10.2015

The tests were performed by Vlastimil Valeš

The tests were carried out at temperature $(23 \pm 1)^\circ\text{C}$ and relative humidity $(50 \pm 2)\%$.

6.1. Determination of water vapour transmission properties

Method: A

Environment in the climatic chamber: temperature 23°C , relative humidity 50 %

Used desiccant: CaCl_2 (calcium chloride)

average thickness of the test sample d (m)	0,01195
water vapour permeance W [$\text{kg}/(\text{m}^2 \cdot \text{s} \cdot \text{Pa})$]	$0,40012 \cdot 10^{-9}$
water vapour permeability δ [$\text{kg}/(\text{m} \cdot \text{s} \cdot \text{Pa})$]	$0,004779 \cdot 10^{-9}$
diffusion resistance factor μ	40,8
diffusion equivalent thickness s_d (m)	0,49

THE END OF THE TEST REPORT