



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

Akreditovaná zkušební laboratoř, Autorizovaná osoba, Notifikovaná osoba, Oznamovaný subjekt, Subjekt pro technické posuzování,
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Certification Body, Inspection Body, Prosecká 811/76a, 190 00 Praha 9

Central laboratory

Testing department Teplice, Tolstého 447, 415 03 Teplice

tel.: +420 417 719 017, e-mail: bartos@tzus.cz, www.tzus.eu

TEST REPORT

issued by Testing Laboratory

No. 040-050888

**on determination of dimensional changes associated with changes in relative humidity
and moisture content**

Ordering Party: Technický a zkušební ústav stavební Praha, s. p.
Address: Prosecká 811/76a, 190 00 Praha 9 - Prosek

Company ID: 00015679

Manufacturer: NEVPANEL YAPI MADEN ÜRETİM İTHALAT İHRACAT SANAYİ VE
TİCARET LIMITED ŞİRKETİ
Address: Bağdat Caddesi Çolakoğlu İş Merkezi No:458 / 30 Maltepe - Istanbul,
Turkey

Test sample: Fire protective board NevPanel(DragonBoardTürkiye; MagnumBoard)
Order No.: Z010150304

Number of pages of the Test Report incl. title page: 3

Pages of Annexes: 0

Prepared by:

Pavel Rubáš, PhD.

Specialist

Approved by:



Pavel Bartoš

Deputy of head of the testing department

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**Declaration: 1) The test results in this 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 Construction Prague, Central laboratory

Nemanická 441, 370 00 České Budějovice, Czech Republic

Bank: Komerční banka, Praha 1

Entered in the Commercial Register maintained by Municipal Court in Prague, Section ALX, Insert 711, Comp. ID: 00015679, VAT: CZ00015679

Phone.: +420 387 023 211

Account No.: 1501-931/0100

www.tzus.eu

e-mail: pilarova@tzus.cz

1. Sample data

Evidence Number: VZ040153268
 Sample: NevPanel
 DragonBoardTürkiye
 MagnumBoard
 Order: Z010150302
 Date of sample delivery: 11. 12. 2015
 Sampling place: storage of manufacturer
 Sampling method: ---
 Method of the sample preparation: ---

Data of sampling conditions, plan and sampling procedure, if necessary, the name of the person performing the sampling are listed in the minutes of sampling, which is stored in the testing department

2. Test methods

EN 318:2003 Wood-based panels - Determination of dimensional changes associated with changes in relative humidity
 EN 322:1994 Wood-based panels. Determination of moisture content

EN 326-1:1997 Wood-based panels - Sampling, cutting and inspection - Part 1: Sampling and cutting of test pieces and expression of test results

Deviations from a standard procedure or the use of non-standardized methods: measurement uncertainties were not determined.

3. Test results

The tests were carried out on: 15. 12.2015 - 25. 01. 2016

The tests were performed by: Lukáš Rulf

Date about person performing the test, testing equipment and about test conditions are listed in test minutes. All measurement and test equipment are calibrated according to valid plan of the testing department.

3.1 Determination dimensional changes associated with changes in relative humidity according to EN 318 and moisture content according to EN 322

Table 1: Test results for board of thickness 18 mm

Characteristic	Unit	Type of set	Grade No./ type of δ	Number of test samples	Arithmetic mean
Change in length δ_l	mm/m	Set No. 1	$\delta_{l\ 65;85}$	4	0.24
	mm/m	Set No. 2	$\delta_{l\ 65;30}$	4	-0.65
Change in thickness δ_t	%	Set No. 1	$\delta_{t\ 65;85}$	4	0.42
	%	Set No. 2	$\delta_{t\ 65;30}$	4	-0.55
Moisture content	weight %	Set No. 1	Grade No. 2	4	3.64
		Set No. 2	Grade No. 2	4	7.50
		Set No. 1	Grade No. 3	4	8.63
		Set No. 2	Grade No. 3	4	3.22

Note:

Set No. 1/Grade No. 2: 20 °C, 65 % air relative humidity
 Set No. 2/Grade No. 2: 20 °C, 65 % air relative humidity
 Set No. 1/Grade No. 3: 20 °C, 85 % air relative humidity
 Set No. 2/Grade No. 3: 20 °C, 30 % air relative humidity



Table 2: Test results for board of thickness 12 mm

Characteristic	Unit	Type of set	Grade No./ type of δ	Number of test samples	Arithmetic mean
Change in length δ_l	mm/m	Set No. 1	$\delta_{l\ 65;85}$	4	0.34
	mm/m	Set No. 2	$\delta_{l\ 65;30}$	4	-0.60
Change in thickness δ_t	%	Set No. 1	$\delta_{t\ 65;85}$	4	0.40
	%	Set No. 2	$\delta_{t\ 65;30}$	4	-1.11
Moisture content	weight %	Set No. 1	Grade No. 2	4	1.88
		Set No. 2	Grade No. 2	4	3.47
		Set No. 1	Grade No. 3	4	4.57
		Set No. 2	Grade No. 3	4	1.22

Note:

Set No. 1/Grade No. 2: 20 °C, 65 % air relative humidity

Set No. 2/Grade No. 2: 20 °C, 65 % air relative humidity

Set No. 1/Grade No. 3: 20 °C, 85 % air relative humidity

Set No. 2/Grade No. 3: 20 °C, 30 % air relative humidity



END OF THE TEST REPORT