



Textilní zkušební ústav  
(Textile Testing Institute)  
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TESTING LABORATORY

# TEST REPORT

AZL 15/1048

**CUSTOMER:** Technický a zkušební ústav stavební Praha, s.p.  
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**SAMPLE:** Fire protective boards made of magnesium oxide and  
(according to the customer order) magnesium chloride and reinforced by fiberglass fabric  
Trade name: NevPanel; DragonBoardTürkiye; MagnumBoard  
Colour: white / beige  
Thickness: 4 mm



**SUBJECT OF ASSESSMENT:** Evaluation of the resistance to fungi

**CONDITIONS OF APPLICATION OF THE TEST REPORT:** Test Report contains result of the tests related to the submitted sample only. Sampling has been done by customer. The Report may not be reproduced in the way other than as a complete set. Reproduction of certain parts of the Report is subject to approval of the test laboratory, which has issued it.

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Textilní zkušební ústav

AZL 15/ 1048  
page 2PROCEDURE OF ASSESSMENT:

**Plastics - Evaluation of the action of microorganism**  
was determined according to EN ISO 846 - method A.

Used moulds (cultures delivered from Czech collection of Microorganisms):

CCM 8155	<i>Aspergillus niger</i>
CCM 8156	<i>Chaetomium globosum</i>
CCM 8042	<i>Gliocladium virens</i>
CCM F-161	<i>Penicillium funiculosum</i>
CCM F-566	<i>Paecilomyces variotii</i>

Spore suspension was prepared according to EN ISO 846.

Conditions of assessment:

- number of samples: 10 (5+5)
- measurement of sample: (40 x 40 x 4) mm
- medium: incomplete nutrient agar
- microbicidal solution: ethanol + water (7 : 3)
- temperature in incubator: (24 ± 1) °C
- influence time: 4 weeks

Fungal growth on the sample surface shall be evaluated according the following scale:

Intensity of growth	Evaluation
0	no growth apparent under the microscope
1	no growth visible to the naked eye but clearly visible under the microscope
2	growth visible to the naked eye, covering up to 25 % of the sample surface
3	growth visible to the naked eye, covering up to 50 % of the sample surface
4	considerable growth, covering more than 50 % of the sample surface
5	heavy growth, covering the entire sample surface

Results: evaluation of fungal growth on the sample surface by grades 0 - 5 and with corresponding assessment

Interpretation of the results:

The results have been interpreted as shown in this table:

Intensity of growth	Interpretation of the results
0	material isn't nutrient surroundings for microorganisms (it is inert or fungicide)
1	material contains nutrient components or it is polluted in so small amount that it enables only slight growth
2-5	material isn't resistant to influence of moulds and it contains nutrient components suitable for growth of microorganisms





Textilní zkušební ústav

AZL 15/ 1048  
page 3

TEST RESULTS:

<p><b>Fire protective boards made of magnesium oxide and magnesium chloride and reinforced by fiberglass fabric</b>  <b>Trade name: NevPanel; DragonBoardTürkiye; MagnumBoard</b>                  Colour: white / beige                  Thickness: 4 mm</p>			
Characteristics	Test method	Measuring unit	Evaluation
<i>Plastics - Evaluation of the action of microorganism</i>	EN ISO 846 method A	intensity of growth assessment	0 no growth apparent under the microscope

  
 Petr Nasadil  
 Head of Testing Laboratory

