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Institute of Building Technology  
**TESTING LABORATORY COMPLEX**  
**Accredited by Polish Centre for Accreditation**  
accreditation certificate  
No AB 023

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**BUILDING MATERIALS PLANT**, 00-611 Warsaw ul. Filtrowa 1, tel. 22 57 96 223  
**BUILDING MATERIALS LABORATORY**

## TEST REPORT No 01741/15/R20NM

Client: **GAMRAT Spółka Akcyjna** (*joint-stock company, translator's note*)  
Client's address: 38-200 Jasło, ul. Mickiewicza 108

### Information regarding object of testing

Object of testing:  
*Name, description, condition and identification*

**GAMRAT composite profiles**  
- 2P surface, slightly brushed  
- non-brushed surface

Date of acceptance of the object of testing "in situ"

2015.09.21

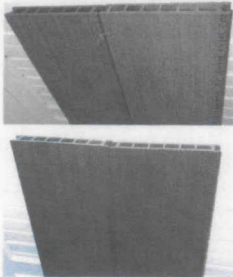
No of protocol of acceptance regarding object of testing "in situ"

LM00-01741/15/R21NM

Procedure of acceptance of the object of testing:

No 18

Information regarding the object of testing:



*GAMRAT composite profile – 2P surface, slightly brushed;  
thick groove side (GR)/ tiny groove side (DR)*

*Delivered: 3 terrace boards with the dimensions: 2,5 cm x 16 cm x c.a. 120 cm (thickness x width x length), double-sided, with 10 grooves – thick groove (GR) on one side (left board on the picture) and with 23 grooves – tiny groove (DR) – on the other side (right board on the picture) Grooves are made along the length of the boards*

*GAMRAT composite profile – non-brushed surface*

*Delivered: 3 terrace boards with the dimensions: 2,5 cm x 16 cm x c.a. 120 cm (thickness x width x length), double-sided, with 10 grooves – thick groove (GR) on one side (left board on the picture) and with 23 grooves – tiny groove (DR) – on the other side (right board on the picture) Grooves are made along the length of the boards*

*Janina Dubois*  
*Konrad*



**BUILDING MATERIALS LABORATORY**

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22 825 77 30/ 02-656 Warsaw/ ul. Ksawerów 21/ tel. 22 843 14 71/ fax 22 843 29 31 **National Court Register**

**Number: 0000158785/ Commercial Evidence Number: 000063650/ Taxpayer's Identification Number: 525 000**

**93 58/ BPH S.A. Branch in Warsaw/ Al. Jerozolimskie 27/ 00-508 Warsaw/ bank account number 87 1060**

**0076 0000 3210 0016 6236/ www.itb.pl/instytut@itb.pl**

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**Information regarding the tests**

**Date of starting the tests:** 2015.10.21

**Date of completion of tests:** 2015.10.21

**Other information regarding testing:**

- Temperature during tests carried out in the laboratory amounted to 23°C, relative humidity 55%
- In the Testing Laboratory Complex at the Institute of Building Technology swinging device (pendulum) was used for the purpose of measuring slip resistance with the symbol LB-233-2E with wide slider 57 (CEN) #28
- Tests were carried out along the length of the grooves
- Standards and testing procedures:
  - PN-EN 15534-4:2014 Composites made of materials on the basis of cellulose and thermoplastic materials (Commonly called wood polymer composites WPC) or composites with natural fiber (NFC) – Part 4: Specifications of floor profiles and tiles
  - CEN/TS 15676 Wooden floor – slip resistance – pendulum test (Technical Specification)

**GAMRAT composite profiles (terrace board), 2P surface, slightly brushed**

Feature of the test	Test results	
	dry surface	wet surface
<b>Slip resistance</b> acc. to PN-EN 15534-4:2014 + CEN/TS 15676  PTV (Pendulum Test Value)	<b>side with thick grooves (10 grooves)</b>	
	89; 88; 89; 90; 88; 87; 89; 87; 90; 89;	45; 44; 45; 44; 43; 43; 44; 45; 46; 43
	average <b>89 ± 3</b>	average <b>44 ± 3</b>
	<b>side with tiny grooves (23 grooves)</b>	
85; 88; 85; 86; 86; 84; 85; 86; 86; 86;	44; 43; 43; 44; 44; 45; 43; 43; 44; 44	
average <b>86 ± 3</b>	average <b>44 ± 2</b>	

*After "±" uncertainty of measurement was indicated – expanded uncertainty at the level of confidence amounting to 95% and coverage factor k = 2.*

*Jana Dubowicz  
Kosior*



**GAMRAT composite profiles (terrace board), non-brushed surface**

Feature of the test	Test results	
	dry surface	wet surface
<b>Slip resistance</b> acc. to PN-EN 15534-4:2014 + CEN/TS 15676  PTV (Pendulum Test Value)	<b>side with thick grooves (10 grooves)</b>	
	92; 94; 96; 96; 95; 93; 92; 92; 91; 92	36; 35; 36; 36; 36; 36; 37; 35; 36; 35
	average <b>93</b> ± 5	average <b>36</b> ± 2
	<b>side with tiny grooves (23 grooves)</b>	
	92; 92; 92; 93; 93; 94; 94; 93; 91; 93	40; 39; 39; 38; 39; 38; 37; 39; 38; 38
	average <b>93</b> ± 3	average <b>39</b> ± 3

After "±" uncertainty of measurement was indicated – expanded uncertainty at the level of confidence amounting to 95% and coverage factor  $k = 2$ .

Person responsible for the testing  
Andrzej Nowacki, Eng.

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Podpis

Person authorizing the report  
Jacek Popczyk, M. Sc.

/illegible handwritten signature/  
Podpis

**Warsaw, this day 2015.10.21**

**Testing Laboratory hereby states that results of the above mentioned testing refer exclusively to the tested object. Without written consent of Testing Laboratory, this Report cannot be reproduced otherwise than in its entirety.**

**Test report is not a document certifying for sale and common use in building industry.**

Manager of LM Laboratory  
/illegible handwritten signature/  
Jadwiga Miklaszewska, M. Sc.

I, the undersigned, Joanna Lubera – Kosior, sworn translator of English TP/3929/05, thereby confirm the above to be true and faithful translation of the document presented to me in Polish.

Rzeszów, 21.06.2016  
Rep. No 493/2016

*Joanna Lubera-Kosior*

