



Test Report

Determination of sports surface properties

Report-No.: 903 6439 000-1/Sgm
Client: PPG Deco Polska Sp.z.o.o.
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51-416 Wroclaw
Polen
Order-No. (Client): -
Order-No. (MPA): 903 6439 000
Test Item: Parquet panels
„Drewnochron Extra Hard Polysk“
Specification Applied: [1] DIN EN 14904:2006-06
Surfaces for sports areas –Indoor surfaces for multi-sports use –
Specification
[2] DIN 18032-2: 2001-04
Halls for gymnastic, games and multi-purpose use
Part 2: sports floors, requirements, testing

Date of Receipt of Test Item 15.01.2019
Date of Test: starting 16.01.2019
Date of Report: 04.02.2019
Page 1 of 3 text pages
Enclosures : 2
Supplements: -
Total Number of Pages: 5
Number of Reports: 1

1 Purpose of Investigation

You commissioned us with testing of technical properties of a surface for sports areas according to DIN EN 14904 [1] and DIN 18032-2 [2]. Therefore we received four parquet panels samples (size approx. 20 cm x 70 cm) labeled as follows:

Sample 1: „Drewnochron Extra Hard Polysk“

The parquet samples were prepared with one layer of “Drewnochron Capon Extra” (polyvinyl - nitroceluloze primer, 100 g/m²) and with two layers of „Drewnochron Extra Hard Polysk“ (each layer with 100 g/m²).

2 Testing procedure

The tests were carried out according to the procedures mentioned in DIN EN 14904 [1] and DIN 18032-2 [2]. The test marked with ■ is an accredited test according to DIN EN ISO/IEC 17025, see DAkkS-certificate D-PL-11027-04-07).

The following properties according to DIN EN 14904 [1] and DIN 18032-2 [2] were determined:

specular reflectance, resistance to wear, friction (sliding properties and PTV-value)

3 Results of Investigation

In the following table the test results obtained are tabulated and compared to the requirements of DIN EN 14904 [1] and DIN V 18032-2 [2].

The single test results can be found in tables 2-5, enclosures 1-2.

Table 1: Summary of the test results according to DIN EN 14904 [1] and DIN V 18032-2 [2], sample 1: „Drewnochron Extra Hard Polysk“

Test acc. to EN xx described in DIN EN 14904 [1] or DIN V 18032-2 [2]	Test results		Requirements acc. to DIN EN 14904 [1] or DIN V 18032-2 [2]
Linear friction [■] (EN 14904:2006-06)	96	max. deviation -3 / +2	80 – 110 (max deviation of single value +/- 4 units of mean value)
Sliding properties (DIN V 18032-2:2001-04)	0,53		at least 0,4 - maximum 0,6
Specular reflectance (EN 13745:2004)	26 %		.. ¹⁾
Resistance to wear (EN ISO 5470-1:1999)	17,8 mg		≤ 80 mg (CS10 wheel; 1000 cycles; load 500g)

¹⁾ no requirements acc. to DIN EN 14904 [1] – result has to be reported

Prepared by

Approved and released by


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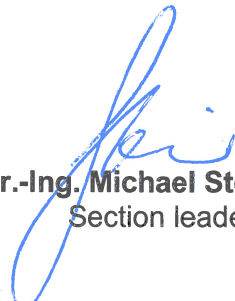

Dr.-Ing. Michael Stegmaier
Section leader

Table 2: test results of friction according to DIN EN 14904 [1]

Test spot	Friction (PTV-value)	
	longitudinal direction (dry condition)	transverse direction (dry condition)
1	94	97
2	94	97
3	93	99
4	95	98
5	94	98
along/across Ø	94	98
Total Ø	96	

Table 3: test results of sliding properties according to DIN V 18032-2 [3]

Test spot No.	sliding properties
1	0,54
2	0,54
3	0,50
4	0,53
5	0,53
Total Ø	0,53



Table 4: test results of specular reflectance according to DIN EN 14904 [1]

Test spot No.	Specular reflectance [%]	
	along	across
1	25,4	26,5
2	24,6	26,0
3	26,8	24,3
∅	25,6	25,6
Total ∅	26	

Table 5: test results of resistance to wear according to DIN EN 14904 [1]

Sample No.	Loss of mass [mg]
1	12,0
2	20,3
3	18,9
4	20,2
∅	17,8

