



Test Report

Determination of sports surface properties

Report-No.: 903 6809 000-1/Sgm
Client: WOCA Denmark A/S
Tvaervej 6
6640 Lunderskov
Dänemark
Order-No. (Client): -
Order-No. (MPA): 903 6809 000
Test Item: Parquet panels coated with
„Master TS-2K Gloss 10“
Specification Applied: [1] DIN EN 14904:2006-06
Surfaces for sports areas –Indoor surfaces for multi-sports use –

Date of Receipt of Test Item 15.07.2019
Date of Test: starting 17.07.2019
Date of Report: 13.09.2019
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: „Master TS-2K Gloss 10“

The parquet samples were prepared with three layers of „Master TS-2K Gloss 10“ (each layer with 350 g/m²).

2 Testing procedure

The tests were carried out according to the procedures mentioned in DIN EN 14904 [1]. 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] were determined:

specular reflectance, gloss, resistance to wear, friction (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], sample 1: „Master TS-2K Gloss 10“

Test acc. to EN xx described in DIN EN 14904 [1]	Test results		Requirements acc. to DIN EN 14904 [1]
Linear friction [■] (EN 14904)	95	max. deviation -2 / +1	80 – 110 (max deviation of single value +/- 4 units of mean value)
Specular gloss (EN ISO 2813)	27 %		≤ 30 % (matt surfaces) ≤ 45 % (lacquered surfaces)
Specular reflectance (EN 13745)	32 %		- ¹⁾
Resistance to wear (EN ISO 5470-1)	21,1 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


Schroeter
Testing Engineer



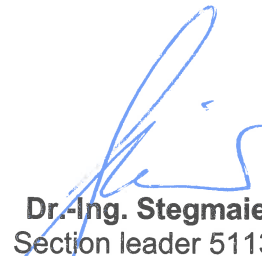

Dr.-Ing. Stegmaier
Section leader 51130

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	95
2	93	95
3	94	96
4	94	95
5	95	95
along/across Ø	94	95
Total Ø	95	

Table 3: test results of specular gloss according to DIN EN 14904 [1]

Test spot No.	Specular gloss [%]	
	along	across
1	30,2	23,1
2	32,3	21,4
3	32,5	22,3
4	30,8	22,6
5	31,5	24,4
6	31,1	23,6
Ø	31,4	22,9
Total Ø	27	



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

Test spot No.	Specular reflectance [%]	
	along	across
1	32,95	31,48
2	30,60	33,18
3	33,88	31,97
Ø	32,5	32,2
Total Ø	32	

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

Sample No.	Loss of mass [mg]
1	14,4
2	20,5
3	22,6
4	26,8
Ø	21,1

