



Test Report

Determination of sports surface properties

Report-No.: 903 6809 000-3/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 40“
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]. Therefor we received four parquet panels samples (size approx. 20 cm x 70 cm) labeled as follows:

Sample 1: „**Master TS-2K Gloss 40**“

The parquet samples were prepared with three layers of „Master TS-2K Gloss 40“ (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 40“

Test acc. to EN xx described in DIN EN 14904 [1]	Test results		Requirements acc. to DIN EN 14904 [1]
Linear friction [■] (EN 14904)	99	max. deviation -3 / +1	80 – 110 (max deviation of single value +/- 4 units of mean value)
Specular gloss (EN ISO 2813)	44 %		≤ 30 % (matt surfaces) ≤ 45 % (lacquered surfaces)
Specular reflectance (EN 13745)	35 %		„ ¹⁾
Resistance to wear (EN ISO 5470-1)	26,8 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


Schroeter
Testing Engineer



Approved and released by

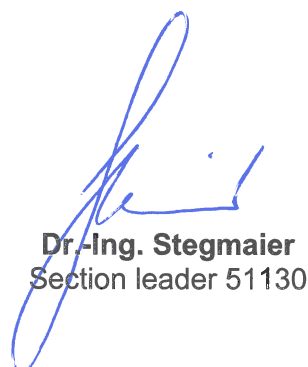

Dr.-Ing. Stegmaier
Section leader 51130

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	99	98
2	99	98
3	98	97
4	99	97
5	100	98
along/across Ø	99	98
Total Ø	99	

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

Test spot No.	Specular gloss [%]	
	along	across
1	53,4	32,4
2	57,0	32,3
3	58,0	31,3
4	59,0	34,9
5	57,4	33,2
6	51,0	31,2
Ø	56,0	32,6
Total Ø	44	



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

Test spot No.	Specular reflectance [%]	
	along	across
1	34,14	32,49
2	34,82	34,51
3	36,18	35,15
Ø	35,0	34,1
Total Ø	35	

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

Sample No.	Loss of mass [mg]
1	44,0
2	17,5
3	22,9
4	22,9
Ø	26,8

