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DAP - PL - 2907.07

Test Report

Client: **GERFLOR**
43, Boulevard Garibaldi
69170 Tarare
France

Order-No. (Client):

Order-No. (MPA): **901 7313 000-1U Kf/Sc**

Test Item: **Type testing on the point-elastic sports floor
„Taraflex Sport M Comfort“**

Specification Applied: **EN 14904**

Date of Receipt of Test Item **03-04-2009**

Date of Test: **beginning 03-11-2009**

Date of Report: **07-23-2009**

Page 1 of **4 text pages**

Enclosures : **1**

Supplements: **1**

Total Number of Pages: **6**

Number of Reports: **2 x Gerflor (1 original, 1 copy)**

The test results relate only to the items tested.

Publication of this report in full or partly is only allowed with written authorization by MPA Universität Stuttgart.

In compliance with DIN EN ISO/IEC 17025 accredited Testing Laboratory recognized by Deutsches Akkreditierungssystem Prüfwesen GmbH (DAP).
Accreditation valid for testing methods listed in the certificates (DAR-Reg. No. DAP-PL-2907.99).

1 Purpose of investigation

You commissioned us with a type testing on your point-elastic sports floor "Taraflex Sport M Comfort" according to EN 14904.

2 Description of the construction of the point-elastic sports floor

Top layer approx. 2,1 mm vinyl top layer (surface slightly embossed; thickness of wearing layer approx. 0,7 mm)
approx. 5,0 mm vinyl foam

Elastic layer approx. 5 mm PE-foam

For the investigation we got a sample with the following sizes 0,5 x 2,0 m.

3 Testing procedure

The tests were carried out according to EN 14904.

The procedures applied which are accredited according to DIN EN ISO/IEC 17025:2005 (DAR-registration-no. DAP-PL-2907.07) are signed with [®].

4 Test results

In the following table the average values of the test results are summarized and as a comparison the requirements of EN 14904 are tabulated.

The individual test results are tabulated in enclosure 1.

Table 1: Test results and comparison with the requirements of EN 14904

Property tested	Test according to	Test results (average)	Requirement acc. to EN 14904
Friction [®]	EN 13036-4	97 (-3 / +2)	80 -110 (mean +/- 4 units)
Shock absorption [®]	EN 14808	49 % ¹⁾ (-1 / +0)	25 – 75 % (mean +/- 5 units)
Vertical deformation [®]	EN 14809	2,5 mm	≤ 5 mm

Table 1: Test results and comparison with the requirements of EN 14904 (continuation)

Property tested	Test according to	Test results (average)	Requirement acc. to EN 14904
Vertical ball behaviour [®]	EN 12235 (basketball)	96 % (- 1 / + 1)	≥ 90 % (mean +/- 3 units)
Resistance to a rolling load [®]	EN 1569	1500 N	1500 N
Resistance to wear of synthetic top layers	EN ISO 5470-1 (H18 wheels; load 1 kg, 1000 cycles)	135 mg	≤ 1000 mg / 1000 cycles
Specular reflectance	EN 13745 (angle of incidence 85 °)	0,16	no requirement; average result to be reported
Specular gloss	EN 2813 (angle of incidence 85 °)	30	≤ 30
Resistance to indentation (residual impression) [®]	EN 1516	0,48 mm	≤ 0,5 mm
Resistance to impact	EN 1517	9	≥ 8 Nm

5 Evaluation

The tested point-elastic sports floor “**Taraflex Sport M Comfort**” meets the requirements laid down in EN 14904 regarding the tested properties:

Table 2: Properties met

Property	Paragraph	Additional information
Friction	4.2	-
Shock absorption (Force reduction)	4.3	type P 3 according to table B.1 (annex B, informative)
Vertical deformation	4.4	type P 2 according to table B.2 (annex B, informative)

Table 2: Properties met (continuation)

Property	Paragraph	Additional information
Vertical ball behaviour	5.1	-
Resistance against a rolling load	5.2	-
Resistance to wear	5.3	-
Specular reflectance	5.7	no requirement; average value to be reported
Specular gloss	5.8	-
Resistance to indentation	5.9	-
Resistance to impact	5.10	-

The properties

- Burning characteristics (paragraph 5.4)
- Emission of formaldehyde (paragraph 5.5)
- Content of pentachloro-phenole (paragraph 5.6)

have to be proved seperately.

- Eveness (paragraph 5.11) can only be checked on job-site.

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Approved and released by

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Table 2: Individual test results

Test			Testing place					Mean
			1	2	3	4	5	
Friction	FT	-	94	98	97	99	95	97
Shock absorption	SA ₅₅	%	49	48	49	49	49	49
Vertical deformation	VD	mm	2,5	2,4	2,5	2,6	2,5	2,5
Vertical ball behaviour	VBB	%	97	96	95	96	96	96
Resistance against a rolling load	RRL	N	1500					1500
Resistance to wear	RTW	mg	109	154	143	-	-	135
Specular reflectance	SR	-	0,16	0,16	0,15	-	-	0,16
Specular gloss	SG	-	30	30	-	-	-	30
Resistance to indentation	RIN	mm	0,51	0,45	0,47	0,48	0,50	0,48
Resistance to impact	RI	Nm	9	8	8	9	9	9

