

**LABORATORY TESTS
INDOOR SPORT SURFACE**

« PROFLEX M »

TARKETT FRANCE - DIVISION SPORTS INDOOR

Report R070005F-A2 GB



Scope of application

According to EN 14 904 (June 2006)

Surface for sports areas

Specification for indoor surfaces for multi - sports use.

This report cancels and replaces the report R07-0005F, due to a modification in the company name. we ask you to destroy the previous document and we inform you that we disclaim all responsibility in case of use or circulation of the report R07-0005F.

This report contains 6 pages.

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The results are only valid for the above sports surface.

1. APPLICANT

Firm: TARKETT FRANCE - DIVISION SPORTS INDOOR
Date of order: 01/12/2005
Date of samples received: 01/12/2005 and 10/27/2006.

2. IDENTIFICATION

Name of the product: PROFLEX M
Description: Foam Tarfoam 1200 - Double joist
First layer 22 mm
Multiply wood 22 mm
Elastic pad 10mm
Second layer 22 mm
Varnish Proteco.

Identification:

Total thickness	88	mm
Mass per unit area	/	kg/m ²
Mass per unit volume	/	kg/m ³
Hardness	/	shore A
Colour	/	

3. SCOPE OF TEST PROGRAMME & DESCRIPTION OF TESTS CARRIED OUT

The system was tested in accordance with BS EN 14904: Surfaces for Sports Areas - Indoor Surfaces for Multi-Sports Use - Specification (June 2006), using the following test procedures:

3.1 Player/surface interaction

3.1.1 Friction

Surface friction is measured in accordance with NF EN 13036-4 (03-2004) using the Stanley TTL Pendulum fitted with the CEN rubber slider.

3.1.2 Shock absorption

Shock absorption was measured in accordance with EN 14808 using an Artificial Athlete.

3.1.3 Deformation

Deformation was measured in accordance with EN 14809 using an Artificial Athlete.

3.2 Technical aspects

3.2.1 Ball/surface interaction

Vertical ball rebound was measured in accordance with NF EN 12235 (12/2002) using a basketball.

3.2.2 Behaviour under a rolling load

Behaviour under a rolling load was assessed in accordance with NF EN 1569 (11/1999).

3.2.3 Resistance to wear

Resistance to wear was measured in accordance with EN ISO 5470-1 (06/1999) using the Taber Abrader fitted with H18 wheels 1kg load. CS10 wheel 500g load are used on lacquered surface.

3.3 Reaction to fire

BS EN 14904 states "if a claim for reaction to fire performance is made, the sports floor covering shall be tested and classified according to the requirements of EN 13501-2:2002 and the resulting class and subclass shall be declared. If it is decided to make no claim for reaction to fire performance, i.e. it is decided to place the product or family of products on the markets as Class F_{fl}, no testing is required for this product or family of products."

This test was not requested by the applicant.

3.4 Formaldehyde emission

BS EN 14904 states "when formaldehyde-containing materials have been added to the product as part of the production process, the products shall be tested and classified into one of two classes E1 or E2". It also states, "the test requirement does not apply to sports floor coverings to which no formaldehyde-containing materials were added during production or post production processing. These need not be classified, but may, without any testing be declared as Class E1".

This test was not requested by the applicant.

3.5 Content of pentachlorophenol (PCP)

BS EN 14904 states "sports floor coverings shall not contain pentachlorophenol or a derivative thereof as a component in the production process of the product or of its raw materials.

In cases where verification is required, if the content is less than 0,1 % by mass by the method described in Annex C (of prEn 14904), this requirement shall be considered to be met".

This test was not requested by the applicant.

3.6 Specular gloss

Specular gloss was assessed in accordance with EN ISO 2813 using a reflectometer and a white light source at 85°.

3.7 Specular reflection

Specular reflection was measured in accordance with pr EN 13745 (08/2003) using a spectrophotometer and light source d8 at 85°.

3.8 Static load (indentation)

Resistance to static load was in accordance with NF EN 1516 (10/1999). The static load was 500 N acting on an area measuring 3 cm² for a period of 5 hours. The residual penetration was measured after 24 hours.

3.9 Impact strength (resistance to impact)

Impact resistance was measured in accordance with NF EN 1517 (01/2000). The sample was conditioned prior to test for 14 days at 50°C and tested at 10°C.

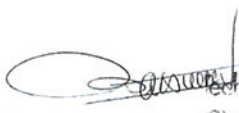
3.10 Resistance to repeated impact

Resistance to repeated impact was measured in accordance with TS 15122. This test is for information only, is non-mandatory and has no requirements.

4. RESULTS

Tests	Units	Requirements	Result	Precisions	Pass or Fail
Friction	-	80 - 110	106	± 4	Pass
Shock absorption	%	25 - 75	60	± 2	Pass
Vertical deformation	mm	≤ 5,0	2	± 0,10	Pass
Vertical ball rebound	%	≥ 90	96	± 1	Pass
Rolling load	mm	≤ 0,50	0.1	± 0,10	Pass
	-	No damage	No damage	-	Pass
Abrasion	g	Synthetic surface: ≤ 1.00	0.060	± 0,01	Pass
		Lacquered surface: ≤ 0,08			
Specular gloss	%	Matt: ≤ 30	17	-	Pass
		Lacquered: ≤ 45			
Resistance to indentation	mm	< 0,50 mm	0.04	-	Pass
Resistance to impact		No damage	0.5	-	Pass
Reaction to fire	Not assessed as part of this test programme				
Formaldehyde Emission	Not assessed as part of this test programme				
Content of Pentachlorophenol	Not assessed as part of this test programme				

Le Mans, the 23/02/2007,



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