

TEST REPORT

Laboratory tests on indoor surfaces for multi-sports use
according to the requirements of NF EN 14904 (06/2006)

OMNISPORTS V83

TARKETT VINISIN LLC



Accreditation N° 1-2113

Scope of accreditation available on www.cofrac.fr

Only certain services from this report are covered by the accreditation.

They are identified by the symbol *

LABORATORY TEST REPORT N° R160297-C1

LE MANS, 23/03/2017

This report is composed of 4 pages and 2 annexes.

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The results are valid only for the above sports surface. Complete results available on request.

1 ■ CLIENT DETAILS

Company: TARKETT VINISIN LLC
10 Promyslova St.
77300 KALUSH IVANO FRANKIVSK REG.
UKRAINE

2 ■ TEST PROGRAMME

LABOSPORT France has been commissioned by **TARKETT VINISIN LLC** to carry out laboratory tests on the multi-sports indoor sport floor **Omnisports V83**.

Tests methods and technical requirements criteria considered in this report refer to the standard:

- NF EN 14904: Surfaces for sports areas - Indoor surfaces for multi-sports use - Specification (06/2006).

This report has been established from the report **R160297-B1**.

Dimensions of the tested samples conform to the testing standards.

Samples were tested in accordance with the client's instructions (installation conditions, laying type).

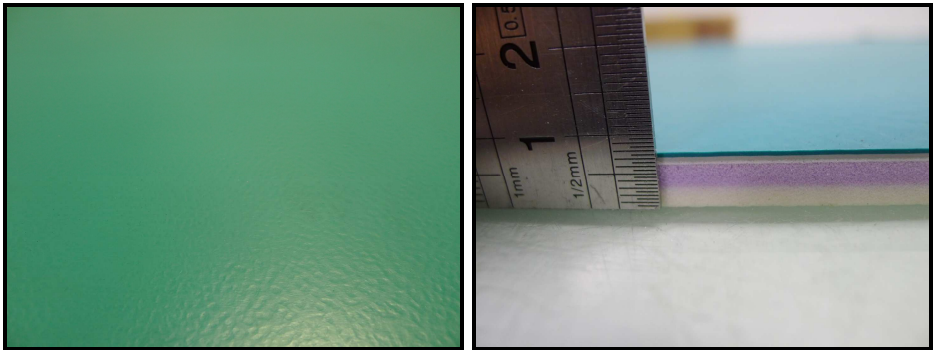
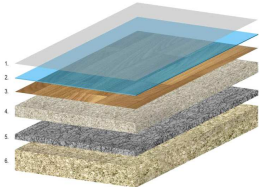
Tests are realized in laboratory where temperature and air humidity are controlled:

Temperature (°C)	23°C ± 2°C
Air humidity (%)	50% ± 10%

Technical references (manufacturer declaration) considered in this report have been supplied by **TARKETT VINISIN LLC** and refer to the following document:

- Technical data Sheet of **Omnisports V83** (cf. annex 2).

3 ■ SAMPLES (client declaration)

Product name	OMNISPORTS V83
Product type	Point-elastic sports floor
Internal reference	019045 & 020898
Receipt date	08/03/2016 (019045) & 07/12/2016 (020898)
Picture	
Description	<p>Omnisports V83 : 8 mm thickness product composed of 6 different layers</p> <ol style="list-style-type: none"> 1- UV protection 2- Transparent 3- Print ink 4- Top compact 5- Calander film with glass fiber 6- Back foam  <p>Base : Concrete</p>

🔧 Product identification

	Manufacturer declaration	Labosport results	Units
Total thickness	8.3	7.7	mm
Mass per unit area	-	4.2	kg/m ²
Density	-	541	kg/m ³
Hardness	-	75	shore A
Colour	Differents colors	Light green	-

4 ■ TEST RESULTS

Properties	Methods	Units	Results	Requirements	Pass/Fail
Friction	EN 13036-4	-	*84	80 - 110	Pass
			-2 / +1	± 4 from the average	
Shock absorption	EN 14808	%	*36	25 - 75	Pass
			-1 / 0	± 5 from the average	
Vertical deformation	EN 14809	mm	*1.3	≤ 5.0	Pass
Vertical ball rebound	EN 12235	%	*97	≥ 90	Pass
			-1 / +1	± 3 from the average	
Resistance to wear	EN ISO 5470-1	g	0.09	≤ 1.00	Pass
Specular gloss	EN ISO 2813	%	13	Matt surface : ≤ 30	Pass
Resistance to impact	EN 1517	-	No damage	No damage	Pass
Resistance to indentation	EN 1516	mm	0.3	≤ 0.5	Pass

5 ■ CONCLUSION

Results of the tests mentioned below, covered by the COFRAC accreditation, **comply** with the requirements of the NF EN 14904 standard:

- Friction
- Shock absorption (Type : **P2**)
- Vertical deformation (Type : **P2**)
- Vertical ball rebound

Results of the tests mentioned below, not covered by the COFRAC accreditation, **comply** with the requirements of NF EN 14904 standard:

- Resistance to wear
- Specular gloss
- Resistance to impact
- Resistance to indentation

The results uncertainty has not been taken into account to declare or not the product conformity to the requirements.

Le Mans, 23/03/2017



Benoit Bossuet
Synthetic Surfaces Technical Manager



Steve BAZEILLE
Laboratory D^{pt} Manager

ANNEX 1 : ACCREDITATIONS FOR LABORATORY TESTS

Scope

The COFRAC accreditation delivered to LABOSPORT certifies that this laboratory is competent to undertake laboratory tests according to the following standards:

Standard	Title
NF EN 12235	Surfaces for sports areas - Determination of vertical ball behaviour
NF EN 13036-4	Road and airfield surface characteristics - Test methods - Part 4: Method for measurement of slip/skid resistance of a surface: The pendulum test
NF EN 14808	Surfaces for sports areas - Determination of shock absorption
NF EN 14809	Surfaces for sports areas - Determination of vertical deformation

Description of COFRAC tests

Standard	Tests Equipment*	Principles
NF EN 12235	Acquisition system A05-00-00	A basketball ball is dropped vertically on the tested sample. The vertical ball rebound height is measured and the % relative to the drop height is calculated.
NF EN 13036-4	Device A02-00-00	The system is composed of a standard rubber "patin 57" slider assembled with a spring and fixed to the pendulum extremity. Dropping the pendulum arm from the horizontal position, the energy loss caused by the slider friction onto the surface is measured on a calibrated scale giving the oscillation arm amplitude decrease.
NF EN 14808	Acquisition system A04-00-00	A mass is allowed to fall onto a spring that rests, via a load cell and test foot on the test specimen, and the maximum force applied is recorded. The percentage reduction in this force relative to the maximum force measured on a concrete surface is reported as the 'Force Reduction'.
NF EN 14809	Acquisition system A04-00-00	A mass is allowed to fall onto a spring that rests, via a load cell and test foot, on the test specimen and the maximum and standard deformation of the surface is determined.

* = The delivery of a test report carrying "COFRAC-TEST" logo guarantees the connection of the equipment used during the test to the International Unit System (S.I).

ANNEX 2 : TECHNICAL DATA SHEET

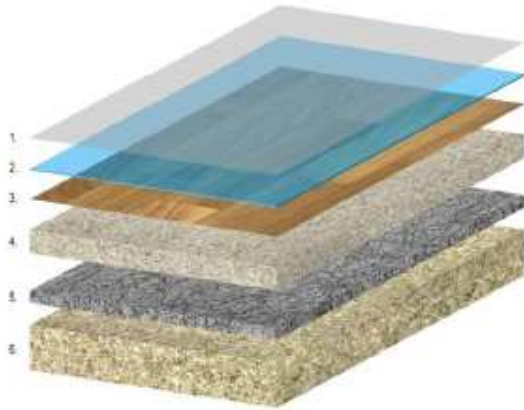


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PRODUCT DATA SHEET

PRODUCT NAME: OMNISPORTS V83

PRODUCT STRUCTURE



1. PU protection
2. Transparent
3. Print ink
4. Top compact
5. Calander sheet with Glass Fiber
6. PVC Foam Backing

TECHNICAL/MARKETING PRODUCT CHARACTERISTIC

Resilient Residential PVC floor covering, EN 14904	Standard	Surface for sports areas
Classification, EN 685		34/43
Product characteristics		
Overall thickness, mm	EN 428	8,3
Wear layer thickness, mm	EN 429	0,800
Total mass, g/m ²	EN 430	4800
Surface treatment-additional PU protection		-
Surface treatment-chemical/mechanical embossing		normal
Marketing characteristics		
Roll length 2,0 m	EN 426	20,5 (10-20,5)
Widths required, m	EN 426	2
Branded		Tarkett
Back printing		no
Back embossing		yes
Guarantee, year		10
Installation method		
Loose lay, double-sided adhesive tape		≤ 25 m²
Adhesive		> 25 m²